

10 Patriot Hills Drive Stony Point, NY 10980 Phone: (845) 429 - 7085 Fax: (845) 429 - 8667 www.rocklandcce.org

Conserve Water with Xeriscape Landscaping

Rainfall in Rockland may fluctuate widely – bone dry one year, soggy the next. Because Rockland derives water from sources within our limited boundaries, increasing episodes of water scarcity are changing the way we think about water use. If you consider that landscapes often demand nearly 50 percent of the water used for home consumption during the growing season, you will see that it makes sense to garden with water conservation in mind. With some planning, you may be able reduce your landscape water use by 50 to 60 percent.

Xeriscaping, derived from the Greek xeros, meaning 'dry,' stresses the use of drought tolerant plants, appropriate landscape design and horticultural techniques that minimize water use. A xeriscape garden isn't just rocks, cacti and dull colors. It displays the colorful flowers and turfgrass that discerning gardeners have come to expect in a landscape. Your landscape, whether old or new, can be more water efficient if you implement the innovative concepts of xeriscaping:

Proper Design

Whether you use your own ideas or hire someone to plan your landscape, take the time to plan water use areas, by grouping plants with similar water needs. Start by assessing your site and observing the micro-climate of your landscape throughout a season. Do some areas bake in the sun? Do the plants seem to suck up water as fast as you can supply it? Are there places where water collects? Are these areas continually wet or do they dry out in warm weather? The answers to these questions will help you choose the best plant materials for your site.

Limit the use of plants with high water needs unless you have a wetland or other boggy area. Use plants that require the most water near your house or a readily available water source. Since turf uses a lot of water, keep lawn areas to a minimum, and choose grass varieties that require less water and maintenance. Separate turf from other types of plantings, such as trees, shrubs, perennials and groundcovers.

Place plants that require the least water furthest from your home. There are many beautiful plants that will not need supplemental water once they are established. Given the wide fluctuation in local precipitation, it is fortunate that many drought tolerant plants are also able to handle very moist or waterlogged soil.

For best results, take advantage of water runoff from downspouts, driveways and other surfaces when possible. If additional water is needed, use soaker hoses or drip irrigation – these deliver water most efficiently in garden beds. Apply a two inch layer of organic mulch to slow down water loss from the soil surface. Many decorative types are available at garden centers, or you can use shredded leaves, pine needles or other materials from your yard.

Soil Improvements

Sandy and clay soils that do not hold water well may be improved by adding organic matter. Terracing and retaining walls can slow water runoff and improve its ability to move through the soil profile. Make these improvements to your soil before installing an irrigation system.

Modify Lawn Area

Replacing existing lawn areas with drought tolerant grass helps save water in your xeriscape garden. Varieties of tall fescue, fine fescue and perennial ryegrass are viable options. Replacing turf with ground covers, mulches or perennials is another alternative. Due to different irrigation requirements, turf should be kept separate from other landscape plants.

Effective Mulches

Mulches keep the soil moist, decrease evaporation, reduce weed growth and slow erosion. Organic mulches like bark chips and inorganic mulches like rock and gravel products can be used to delineate paths, shrub and tree areas. Organic mulches help build the nutrients in your soil as they decompose, but must be renewed on a regular basis. Stones or pebbles used in shady areas require little maintenance. Inorganic mulches should not be used near the house or in full sun areas, because they may give off too much reflected heat.

Use of Low Water Demand Plants

You can find many attractive varieties of trees, shrubs, flowers, ground covers, and some types of turf that thrive in dry soil or require very little irrigation. Plants that require frequent watering or maintenance should be clustered together and planted near the house for ease of maintenance. Plants that need less attention can be sited further away.

Efficient Irrigation Systems

Irrigation in a xeriscape is minimal, and in many cases is used only for establishment purposes. Sprinkler systems can save water in well planned situations. Turf areas are best watered with sprinklers, separated from other zones. Trees, shrubs, flowers and ground covers can be watered with low volume drip, spray or bubble emitters. Install a sensor that will automatically shut your system off if enough moisture is present and adjust your irrigation system regularly to save water and money. Irrigation should be done in the early morning, optimally between 4:00 and 8:00 am. Watering by 10:00 am will allow plants to dry before evening; this will reduce the incidence of disease. For additional guidelines, contact Cooperative Extension for water-wise gardening information.

Good Maintenance

Periodic checks of the irrigation system, in conjunction with proper pruning, weeding, fertilization, pest management and mulching will preserve the beauty of your xeriscape. Less maintenance is built into the basic principles of xeriscaping.

Even though xeriscape gardens require less maintenance than other plantings, adequate attention to fertility, pruning, weeding and pest management will help your plants maintain their vigor and drought resistant qualities. A well planned and maintained garden is an asset that will beautify your neighborhood, increase your property value, and conserve a precious resource – our water.

Drought Tolerant Plants for Your Garden

The following plants will tolerate dry conditions once established. Plants marked with * are also somewhat tolerant of moist soil. Those marked ** will tolerate soil that is occasionally very wet. Plants with a + are native to North America.

Trees

Botanical Name	Common Name	
*Acer campestre	Hedge Maple	
**Acer tartaricum ssp. ginnala	Amur Maple	
*Acer truncatum	Painted Maple	
+**Catalpa speciosa	Northern Catalpa	
+*Cercis canadensis	Redbud	
*Cornus mas	Cornelian Cherry	
+*Cotinus obovatus	American Smoke Tree	
+*Crataegus phaenopyrum	Washington Hawthorn	
+**Crataegus viridis 'Winter King'	Winter King Hawthorn	
*Ginkgo biloba	Maidenhair Tree	
*Koelreuteria paniculata	Golden Rain Tree	
+Juniperus virginiana	Eastern Red Cedar	

Trees, continued		
Botanical Name	Common Name	
*Malus spp.	Crabapple	
+**Nyssa sylvatica	Black Tupelo	
*Parrotia persica	Persian Parrotia	
Picea abies	Norway Spruce	
**Pyrus calleryana	Callery Pear	
+Pinus strobus	White Pine	
+**Quercus palustris	Pin Oak	
*Styphnolobium japonicum	Japanese Pagoda Tree	
*Syringa reticulata	Japanese Tree Lilac	
**Ulmus parvifolia	Chinese Elm	
*Zelkova serrata	Japanese Zelkova	

Shrubs

Botanical Name	Common Name	
Buddleia davidii	Butterfly Bush	
Cytisus praecox 'Allgold'	Warminster Broom	
*Hibiscus syriacus 'Diana'	Rose-of-Sharon	
+Hypericum prolificum	Shrubby St. John's-Wort	
+**Ilex verticillata	Winterberry	
Juniperus chinensis 'Torulosa'	Hollywood Juniper	
*Ligustrum spp.	Privet	
+*Myrica pennsylvanica	Bayberry	
*Philadelphus spp.	Mock Orange	
Potentilla fruticosa	Shrubby Cinquefoil	
Viburnum carlesii 'Compactum'	Korean Spice Viburnum	
Yucca filamentosa 'Golden Sword'	Adam's Needle	

Annuals

Botanical Name	Common Name	
Brachyscome iberidifolia	Swan River Daisy	
Catharanthus spp. (Vinca rosea)	Madagascar Periwinkle	
*Cleome hasseleriana	Spider Flower	
Gazania	Gazania	
Gomphrena 'Strawberry Fields'	Globe Amaranth	
Lantana	Lantana	
Melampodium	Melampodium	
*Mirabilis	Four-o-clock	
Nigella	Love in a Mist	
Portulaca	Moss Rose	
Portulacaria	Portulacaria	
Sanvitalia procumbens	Creeping Zinnia	
Senecio cineravia	Dusty Miller	
Tagetes spp.	Marigold	
Thymophylla tenuiloba (Dyssodia)	Dahlberg Daisy	
+Tithonia	Mexican Sunflower	
Tropaeolum	Nasturtium	
Verbena laciniata and tenera	Verbena	

Perennials

Botanical Name	Common Name
+Achillea 'Moonshine', 'Summer Pastels'	Yarrow
Anthemis tinctoria	Golden Marguerite
Artemisia spp.	Wormwood
+*Asclepias spp.	Butterfly Weed, Milkweed
+Baptisia australis	False Indigo
+Coreopsis verticillata 'Moonbeam'	Thread-leaved Coreopsis
Dianthus 'Telstar Picotee'	Sweet William
+*Echinacea purpurea	Purple Coneflower
Eragrostis curvula	Lovegrass
+Gailiardia 'Goblin'	Blanket Flower
+*Gaura lindhelmeri	White Gaura
+Helianthemum spp.	Sun rose
**Hemerocallis spp.	Daylily
*Kniphofia uvaria	Red-hot Poker, Torch Flower
Lavendula 'Hidcote Blue'	Lavender
+Leucanthemum superbum 'Snow Lady'	Shasta Daisy
Limonium latifolium	Statice
*Liriope spp.	Lilyturf
*Miscanthus sinensis 'Zebrinus'	Zebra Grass
*Miscanthus sinensis 'Silver Feather'	Japanese Silver Grass
+**Monarda didyma	Beebalm
Perovskia atriplicifolia	Russian Sage
+*Rudbeckia fulgida 'Goldstrum'	Coneflower, Black Eyed Susan
Saponaria ocymoides	Soapwort
+*Sedum spectabile 'Autumn Joy',	Showy Stonecrop, Everlasting Stonecrop
'Indian Chief'	
*Sedum spp. (some are native)	Stonecrop
+**Solidago x hybrida 'Crown of Rays'	Goldenrod
*Stachys byzantina	Lamb's-ears
*Veronica spp. (some are native)	Speedwell

Source: Cornell Cooperative Extension of Nassau County

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