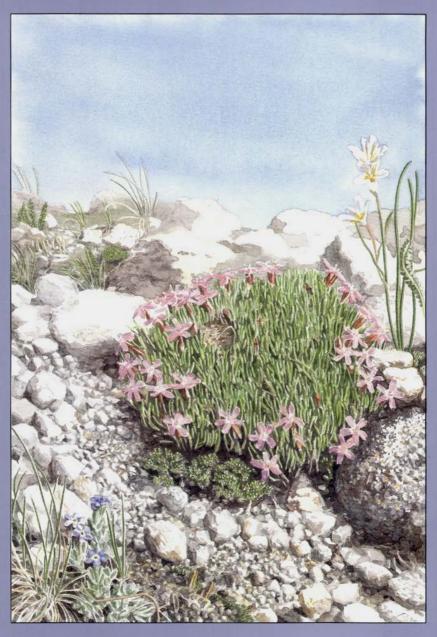
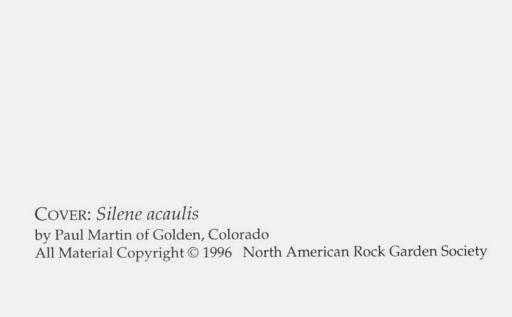
ROCK GARDEN



QUARTERLY

VOLUME 54 NUMBER 3

SUMMER 1996



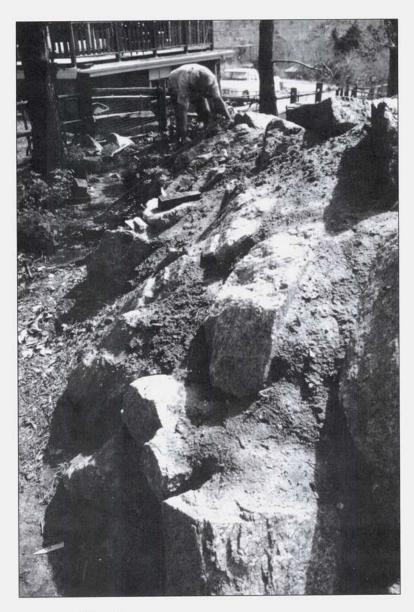
ROCK GARDEN QUARTERLY

BULLETIN OF THE NORTH AMERICAN ROCK GARDEN SOCIETY formerly Bulletin of the American Rock Garden Society

VOLUME 54 NUMBER 3 SUMMER 1996

FEATURES

A New Garden: Starting from Scratch,	
by Gwen Kelaidis	163
Hudson Gardens: The New Rock Garden Canyon,	
by Andrew Pierce	166
-,	
Rock Garden Plants: A Beginner's List,	
Database Manager, Michael Ebbs	169
The First One Hundred: Personmended Plants for Regioners	
The First One Hundred: Recommended Plants for Beginners,	231
by Geoffrey Charlesworth	231
DEPARTMENTS	
DEPARTMENTS	
Seed Exchange	250
0	252
Gardening Tips	252



BEFORE!

A New Garden

STARTING FROM SCRATCH

by Gwen Kelaidis

A new garden is like a blank canvas. Anything is possible, and everything depends on you. When we moved to a new property in October of 1994, I was both excited and a bit intimidated. Now have half an acre, whereas before we had a 52 by 100' lot (with a house and garage taking up way too much space). By my rough calculations the growing area (all the land not covered by buildings) is six times as great..

Much of my gardening in the last eight years had been influenced—or should I say determined—by the small scale in which I gardened. I have been a fanatic advocate of small plants: After all, the smaller the plants, the more I could jam into that space. No plant which flopped or spread rapidly was allowed to live there: too dangerous to its cohabitors, too greedy, and out of proportion to the compact proportions of the many cushion plants I grew. But now everything was brought into question, and it was a new world of gardening.

When starting fresh on a new garden, many questions arise. If you are starting a new garden, or taking a new look at your yard with the idea of rearranging here are some questions to consider:

Are there trees, shrubs, and structures of the existing landscaping that should be removed?

Many times there are trees or shrubs that have no particular merit, and you want to replace them either with sun-loving perennials or with a choice woody plant. Also, most rock plants prefer sun. If you have trees, you may wish to thin them even if you are growing primarily woodlanders.

In my case, it was obvious that about 30 junipers were to be removed. A blue spruce grew in the middle of the area I anticipated as a future rock garden, so it became a Christmas tree. Sacrifices to snobbery and re-shaping the garden spaces included a spiraea, a Russian Olive, the Peking cotoneaster at the corner of the sunporch, and a privet. I have evil intentions towards the silver maple, but it provides nice shade for the side yard, and before I remove it I'll underplant it.

Where should the rock garden(s) be?

Consider your view of the rock garden. Will you be able to view it from the house or deck? How much light will it receive? For me, there are to be several rock gardens, some shady, others bright and well-watered, another bright and dry. Actually, at least half of the yard is planned for rock garden.

Does the overall grade of the yard need to be changed?

Whether your site is on a hill or a flat piece of land, consider major grading changes before you put the rock garden in place. Unlike the perennial border, there is much labor involved in the structure of a rock garden. It's much easier to abandon even double digging than it is to move those rocks, once in place.

Here we are on a hill with over 15' of drop from the top of the lot to the bottom. When we moved in, there were a series of terraces. I plan to have at least three parallel ridges from top to bottom. I graded the top corner behind the house largely by hand, since it is inacessible and since I wanted quite a bit of detail.

Make sure that the grade slopes away from the buildings.

Do supporting structures need to be built before the rock garden goes in?

If a rock garden is to be bordered by a fence or a wall, it is usually best to build that first

Where will the paths be, especially to the doors and to gates?

Before you start the rock garden, try to figure out which paths will automatically be taken by the dogs, the paperboy and the mailman. Either block these paths with emphatic rock work, or cede to them and design around them. Also, if you want a meandering feel to the garden, or want to create a series of garden rooms, plan these out before you set the first rock.

Speaking of setting the first rock,

this is a great moment, which should be celebrated with champagne—or at least a drink of cool water. The first rock often sets the direction and the tone and will influence the placement of other rocks, whether you intend it to or not. Don't let yourself be rushed in this decision. Be sure that you like it before going on. I have often moved this rock five times before going on.

Where will the utility area (frames, gravel, soil stores) be located?

Choose now, rather than after the fact. You'll need access to extra materials throughout the life of the garden.

What about soil?

I still consider soil a mystery. Who really measures out one-third of this, one-third of that? I add sand, gravel, manure, leaf-mold, whatever I can get my hands on, whatever looks "right," until I have a loose, good-looking texture. It's not scientific.

What kind of rock will you use?

This is always a hot topic. The classic rock garden preference is for stratified rock. Weathered limestone is my very favorite. Its easy to arrange in credible-looking outcrops or ridges, it is attractive in its own right, it holds quite a bit of water on the surface, many plants like it, etc. I saw some beautiful rocks of this sort last year but didn't have the funds to invest. Now that particular rock yard doesn't have it any more.

Well, you should choose rock that is available and affordable for you. Sometimes this involves making an arrangement with a landowner to pick rocks out of the fields yourself. In some areas of the country, like Denver, we have the luxury of many sand and materials companies that sell rock. After a while, it seems worth it to have someone else load the truck. Also, I

have personally broken more than one set of truck springs. Delivery is expensive, but trucks are, too.

Most important of all is to get rock that pleases you personally. I have ended by choosing granite for at least one section of this garden. Choose rock for which you can find a matching gravel mulch. Sometimes large, beautiful cap rocks, formed by much weathering at the surface, have no accompanying mulch available. All the gravel that size weathered away many eons ago!

Some prefer large rocks hoisted into place by cranes. Landscape designers are often inclined to recommend these, often suggesting that they are more in scale with the house. I like smaller rocks, ones that I can move around by myself or with one other person. Selling large rocks is obviously more profitable than selling small rocks, since you pay by the ton. Keep looking until you find what you want.

Another note of caution: it is well to obtain about a third more rocks than you think you will need. No matter how many rocks you have, you always want a different one for that spot you are working on.

What will you plant?

Now for the fun! Once again, your own personal tastes should lead you in your choices. The first thing to consider is which plants are adapted to your conditions. You need to know how much shade each area receives, how much water there is, what your soil type is.

In this garden I have extremely sandy soil, modified by considerable quantities of leaf mold and cow manure. I have always had a base soil of clay loam in the past, modified with manure, sand, and gravel. Some plants simply don't care for sand, while others adore it, and I am sure I will kill

many plants along the way to developing a list of what does well here.

In practice, I try to have a site for every kind of plant. So far, I've only managed to provide a shady garden under pines. My plans include everything, from bog to dryland.

In practice, once you have a wide range of habitats, you can buy whatever is attractive to you, and that will no doubt include many, many, many plants. What you read about and can't find commercially available you can grow. What you can't grow you can trade for with other gardeners. There's nothing to be ashamed of in occasional begging, by the way. There are not a few plants after which we have lusted for 20 years. Many come to you eventually, as to Penelope. Others remain the inspiration for continued searching and communication with fellow gardeners, more like the Holy Grail.

When planting, remember that the soil will be moister at the base of a slope than at the top, just as a sponge set on end will be wetter at the bottom. Also, the north slope has quite a bit colder conditions than the south side. If you are not sure where to plant something, buy two or three and try it in different exposures. If you kill just one plant, you learn little; if one lives and two die, you have learned something.

When will construction begin?

Why now, of course! Isn't it summer? If it's raining, think of West Texas, be grateful, and start tomorrow!

Gwen Kelaidis has been starting new gardens since 1976. She claims this is her *magnum opus* and has enough gardens planned to keep her busy for at least 25 years. She gardens very near Denver, Colorado.

HUDSON GARDENS

THE NEW ROCK GARDEN CANYON

by Andrew Pierce

Hudson Gardens in Littleton, Colorado, ten miles south of Denver is one of America's youngest public gardens. It celebrated its grand opening on June 16, 1996. Hudson Gardens developed on the land of King C. and Evelyn Leigh Hudson, the owners of a charming country restaurant, now leased as The Northwoods Inn, who bequeathed the land and an endowment to foster a love and knowledge of nature. The gently rolling property borders the South Platte River not far from its grand entrance onto the Great Plains. Already the property had fine groves of giant cottonwoods and conifers, wonderful vistas towards the Rocky Mountains, and the sense of place essential for a great public garden. Although far out in the country during much of the Hudson's lifetimes, the Gardens might now be said to sit in one of America's fastest growing suburban corridors. Myriad new homeowners will be walking the paths of Hudson Gardens, notebooks in hand, looking for ideas and plant names to enhance their own home gardens. The garden encompasses 30 acres and includes 16 gardens. These run the gamut from traditional peren-

nial border and rose garden to extensive shrub borders and naturalistic gardens featuring native grasslands, wildflowers, and water.

Hudson Gardens invariably inspires comparisons with Denver Botanic Gardens some 10 miles to the north, but a visit to both institutions quickly dispels any concern of redundancy: Denver Botanic Gardens has a rectilinear, symmetrical structure dictated by its urban setting. DBG comprises many introspective and intensively planted gardens—appropriate to its size and setting. Hudson Gardens is expansively curvilinear, echoing the curve of the Platte, the rounded foothills and mountains nearby, which are visible from every vantage point. Elliptical ponds and arching fountains are focal points of Hudson. Although the garden features an extraordinary assortment and collection of plants, they are chosen not primarily for their botanical interest and significance, but for their proven performance in the Rocky Mountain climate: Hudson Gardens are intended to be a showpiece of horticultural art featuring the best plants and plantings to inspire and educate its visitors.

The Rock Garden Canyon

Situated below the terrace of the future Horticulture and Educational Building, the Rock Garden is perhaps one of the most critical and visible areas of the entire Gardens. Here the Rock Garden Canyon is being constructed and planted.

Over 250 tons of ruby rock, originating from the Navajo Formation at the top of Table Mountain, halfway between Colorado Springs and Cañon City, have been positioned into a canyon for the initial phase of this garden. Although not the same formation as the Maroon Bells near Aspen, the color and effect of the monumental boulders used in the Rock Canvon somehow recall that landmark of the Colorado Rockies. We are not aware of any major public garden featuring giant rocks of this distinctive purplish color with its rich texture and lichens. Even without a single plant, the rock canyon has a wonderful, dramatic structure. The rocks have been placed in upright positions. By using two to four levels of rock above and behind one another, many crevices and planting pockets have been created. These have been filled with a mixture of rich scree that should provide an optimal habitat for a wide spectrum of alpines. The garden has been consciously designed so that almost all of the thousands of plants will be in contact with stone: not only will this provide an unparalleled display of rock garden art, but it will significantly reduce weeding and routine maintenance.

What immediately strikes the visitor, however, is how accessible the entire garden is to viewing: the steep canyon walls make it easy to get face to face with every plant, and the garden presents nearly a thousand linear feet of pathway to the strolling viewer. The design and placement of this garden have optimized the two complementary and challenging facets of rock gardening: It is a large-scale garden painting that may be viewed from afar from many vantage points. And yet it at close view it contains hundreds of intimate vignettes, and stands up to detailed examination all along its tremendous length.

The garden is viewed from three main pathways, from the planned entry bridge, from the path from the parking area, and from across the main pool. A large triangle has been reserved for a Colorado rock garden, which will use a few rocks positioned to mimic the Flatirons near Boulder and plantings solely of species native to the state. Many Colorado plants have been brought together in anticipation of planting day, including a sample of unique dwarf conifer selections made by Jerry Morris-the Rocky Mountain region's most eminent "broomer." This section will be unlike any rock garden in the state.

Because of the depth and direction of the canyon, two distinct microclimates for planting have been created. The north- and east-facing side is cooler and moister, and here we will feature various plants from the traditional alpine areas of the world such as the Alps, the Himalayas, and New Zealand. The southwest face is considerably drier and hotter, and here we will use North American natives more adapted to those conditions. On Saturday, June 22, 1996 volunteers and 35 members of the Rocky Mountain Chapter of the North American Rock Garden Society gathered at Hudson Gardens to plant nearly 10,000 alpines donated by chapter members, nurseries, and specialty growers from as far away as Pueblo and Fort Collins.

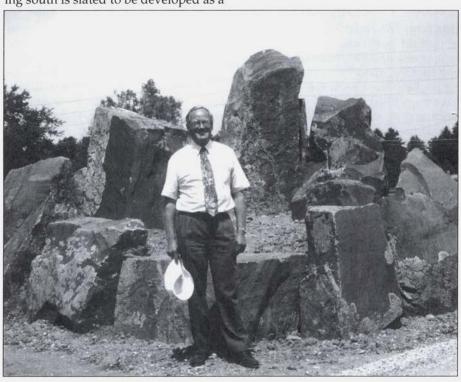
The alpines selected to be showcased in this garden are plants that thrive in our Colorado sun: plants that have a long blooming season and compact, attractive vegetative growth. We are fortunate to have a thriving nursery industry at our doorstep that produces a wide spectrum and variety of rock garden plants. This circumstance has permitted us the unheard-of luxury of combining alpines in color combinations-much as perennial borders are conceived: the Rock Canyon garden features a series of distinctive color "windows." Unlike the Rock Alpine Garden at Denver Botanic Gardens—which has served as a laboratory for testing new plants and experimenting with how to grow them—the Hudson Rock Canyon will emphasize the art of combining alpines in new, artistic ways. We believe this is unprecedented in the annals of rock garden art.

Future development

As if the dramatic Canyon were not sufficient, an adjacent large bank facing south is slated to be developed as a traditional rock garden area with rock groupings, outcrops, and rocks where one may sit and absorb the view. A gravel trail will meander through the area to allow the visitor to see the plants close to hand and to allow easy access for staff to cultivate and tend the wide selection of rock plants. This area will include perhaps 15,000 sq. ft.

We invite you to visit Hudson Gardens and the Rock Garden Canyon the next time you are in the Front Range area. We are confident this represents a world class, utterly new expression of the ancient art of gardening with plants and rocks.

Andrew Pierce is Horticultural Director of Hudson Gardens. He is currently serving as President of the Rocky Mt. Chapter of NARGS, a position he also held in 1980—1982.



168 ROCK GARDEN QUARTERLY VOL. 54(3)

ROCK GARDEN PLANTS A BEGINNER'S LIST Database Manager, Michael Ebbs

Every year the volunteers of Denver Botanic Gardens manage and stage a plant sale for the Gardens which takes place the Friday and Saturday before Mother's Day. This compendium represents a portion of a massive database that has grown up in support of the volunteers and buyers at this sale. The complete database—including annuals, vegetables, perennials, and even trees and shrubs—is published and distributed among the sale personnel, as well as offered at a low price to the 15,000 or more customers of this remarkable event.

The genesis of this list came when Joan Schwarz, Chairman of the Rock Garden division in the early 1980s, let it be known that some sort of guide was needed to help beginners with the ever increasing offerings in her section of the sale. Stan Metsker, chairman of the Rocky Mountain Chapter of NARGS at the time, had recently acquired a personal computer (then a novelty). He established a network among various chapter members who also obtained computers, and the list was produced, published and expanded year after year.

When noted author and plantsman Rob Proctor chaired the Denver Botanic Gardens' sale in 1989, he and David Macke expanded the database to cover all of the thousands of plants offered that year at the sale. The entire list was published in booklet form that year as an issue to *Mountain*, *Plain and Garden*—Denver Botanic Gardens' magazine.

In the intervening years Michael Ebbs, a noted Denver gardener and volunteer at DBG, likewise chaired the sale and took on managing the database. Each year the dozen or so division chairmen review their offerings to make sure the list accurately reflects what is to be sold.

This list generally reflects plants that perform well in the climate of Denver and surrounding foothills. Because of Denver's central location and challenging climate, this list might prove a valuable reference for other parts of the country: realize that the numerical keys are not absolute and are referenced to a semi-arid climate of USDA zone 5a or b. What follows are only the plants designated as 12" and under and "appropriate to the rock garden."

Scientific Name (Common Name)	Fl. Color	Bloom	n time	Ht.	Width	Sun	Soil	Water	Туре
Acantholimon androsaceum (Spikethrift, Stemless)	pink	5	6	4 IN	8 IN	7	7	6	R
A dwarf acantholimon; especially choice. For with stemless pink blossoms. Plumbaginace		rounde	d dome	of gray	/-green sp	oiny fo	liage.	Dotted	in summer
Acantholimon araxanum (Spikethrift, Silver)	rose	6	7	6	12	7	7	6	R
Silver rosettes of short, stubby spine foliage	. The best foliag	ge. A y	ear 'rou	nd show	w. Plumb	aginac	eae.		
Acantholimon armenum (Spikethrift, Armenian)	pink	5	7	6	10	9	7	6	ER
Evergreen mound. Bright pink flowers for a	choice spot. Pl	umbag	inaceae						
Acantholimon glumaceum (Spikethrift, Common)	rose-pink	6	7	6	24	7	7	7	R
Deep-green cushions of soft needle leaves. Acantholimons to grow. Plumbaginaceae.	Dense one-sideo	d racen	nes of de	eep ros	e-pink flo	wers.	Easies	st of the	
Achillea ageratifolia (Yarrow, Greek)	white	4	6	3	14	8	6	8	ERX
Evergreen, silvery mats. Short creeper. Gra-	y-green finely to	oothed	leaves.	White of	daisy-like	flowe	rs. As	teraceae	
Achillea argentea (Yarrow, Silver)	white	5	6	6	18	8	6	6	R
Silver, finely divided foliage is mat-forming bunches. Native to the Alps. Asteraceae.	g and very attra	ctive. I	lowers	are wh	ite, small	and pr	roduc	es in flat	-headed
Achillea serbica (Yarrow, Serbian)	white	5	7	6	8	8	6	7	ER
Downy white leaves make evergreen mats.	Large white da	isies in	late spr	ing. As	steraceae.				
Achillea tomentosa (Yarrow, Dwarf Yellow)	yellow	6	7	3	12	8	7	7	R
Low mats of ferny rosettes. Umbels of deep and spreading. Long lasting flowers. Astera		flower	s. Minia	ture ve	ersion of A	Achille	a filip	endulin	a. Energet
Achillea x kellereri (Yarrow, Strap-leaf)	white-yello	ow 5	6	8	8	8	6	6	R
Masquerades as a choice feathery fern. Fine flowers in spring. Asteraceae.	ly cut, long sler	nder fo	liage of	silvery	gray. He	ads of	white	, yellow	centered
Acinos meridionalis (False Thyme)	purple	4		3	6	7	7	7	R
Purple faces over neat, gray mounds for su	n. Like a giant t	hyme f	rom the	Europ	ean Alps.	Labia	tae.		
Adiantum pedatum var. subpumilum (Fern, Dwarf F	ive Finger)	0	0	3	8	5	5	4	R W
Tiny relative of eastern maidenhair fern. Su Adonis amurensis (Adonis)	yellow	nooks 2	or the ro	8	7	6 6	eae. 5	5	R

Foliage that follows is lacy and fern-like. Ran Adonis vernalis (Adonis, Spring)	vellow	3	4	8	10	7	6	6	R
Even finer foliage than the last, blooming a fe				O	10	,	0	0	K
Aethionema 'Warley Rose' (Candytuft, Persian)	rose/pink	111 Sp	6	4	12	8	6	6	R
As lovely as Daphne. Covered with rich rose		- 1 Table 1					0	U	10
Aethionema armenum (Stonecress)	pink	5	6	6	10	8	6	6	R
Low growing; resembles candytuft. Thrives i									
a carpet of color over foliage. Brassicaceae.	ii iicat ana arc	agitt.	1 0114	ge is blue	green. c	LIUSTEIS	or pin	IK DIOS	301113. 1 01111.
Aethionema grandiflorum (Candytuft, Persian)	pink	5	6	8	8	8	6	6	R
Gray shrublets and showy flowers for a long	1			Ü	Ü	Ü	Ü	Ü	IX.
Ajuga genevensis 'Pink Beauty' (Bugleweed)	pink	5		6	15	8	7	6	GR
Green foliage on 4-5 inch plants. Whorls of de								0	O K
Ajuga pyramidalis 'Metallica Crispa' (Ajuga, Spinach		4			6	6	5	6	GR
Dark-green tufts of curious, crimped leaves.					-				
Ajuga reptans (Bugleweed)	lavender		6		15	5	6	5G	R
Bright Blue flower spikes. Dark green foliage	adapts to any	grow	ing co	ondition. 9	Spreads	rapidly.	Labia	itae. V	arieties
include 'Bronze Beauty', a bronze-colored for									
foliage. Foliage turns bronze in the fall; 'Burg									
pink and burgundy, lovely; Purple Leaf', lav									
foliage; 'Silver Beauty', blue flowers, silver gr									
and white.			, ,	O .			0		
Alchemilla alpina (Lady's Mantle, Alpine)	green	5	6	3	10	5	5	5	RB
Pleated green leaves with silvery undersides.			iage a	ccent. Gr	eenish fl	owers in	n July	are un	important.
Rosaceae.			0						1
Alchemilla erythropoda 'Dwarf' (Lady's Mantle, Dwf)	yellow	6	7	12	10	8	5	7	BCRW
		ange	red i	n autumn	. Rosace	ae.			
Dwarf version of A. mollis. Flower heads and				15	12	7	6	5	RD
Dwarf version of A. mollis. Flower heads and Allium christophii (Giant Allium)	purple	5	0	13	1.4	/	U		102
			1.09.1				-	-	
Allium christophii (Giant Allium)	Sun (1=full sh	ade; 9	=full s	sun) Soil (1	l=peat, 9	=clay) W	Vater (1=wet,	

Scientific Name (Common Name)					Width	Sun	Soil	Water	Type
Gigantic purple clusters dry beautifully. V			a. Liliace						
Allium pulchellum (Onion, Firecracker)	pink	6	7	12	4	6	7	7	R
Large clusters of purple, starry blossoms.	Easy to grow. Blo	oms lo	ook like	firecra	ackers in e	arly su	mmer	. Liliace	eae.
Alyssoides graeca (Balloon Pod)	yellow	4		12	10	8	7	7	ER
Vivid yellow crucifers. Grows in any sunn	y exposure. Neat	, ever	green m	ounds	. Brassicac	eae.			
Alyssoides utriculata (Bladderpod)	yellow	4	5	12	12	8	7	8	ERX
Native to the rocks and cliffs in Crete. Gold	den flowers like t	hose c	f wallfl	ower.	Gray blue	fruit. V	Vood	y pereni	nial.
Mounding habit. Dark green, evergreen fo	liage. Brassicacea	ae.							
Alyssum montanum (Aurinia m. Mat of Gold)	yellow	4	6	3	7	8	8	7	FR
Low mats of gray-hairy foliage, fragrant ye	ellow flowers in	dense,	short cl	usters	. Indestru	ctible. E	Brassi	caceae.	
Alyssum serpyllifolium (Basket of Gold)	yellow	4		1	6	7	7	6	R
Tiny, thyme-like, bright gray leaves. Very		t. Bras	sicaceae						
Alyssum tortuosum (Alyssum, Tinyleaf)	yellow	5		5	10	7	7	6	R
A tiny, silvery leaved alyssum. Plant in su		ice sp	ot in the	rock	garden. Br	assicac	eae.		
Amsonia jonesii (Bluestar)	pale blue	5		10	8	9	5	5	NR
Gorgeous blue flowers. Native to Western		lo. Dec	riduous	Long	bloom pe	riod. To	ough	plant. S	how stop
per in Xeriscape gardens. Apocynaceae.	crope or cororae			8				F	г
	white	4	6	3	10	8	7	7	RX
Loves a sunny area. Feather cartwheels en					177 T.A.		ourpl	e Withs	
and drought. Asteraceae.	a in large write	adibico	· Onder	ricutii	is a rich re	daisit	Juipi	C. 111111	runus ne
Androsace carnea x 'Millstream' (Rock Jasmine)	nink	5	6	2	6	6	5	5	R
A. carnea x A. pyrenaica by H. Lincoln Fo									
Androsace lanuginosa (Rock Jasmine, Wooly)	lavender		6	2		6	5	5	R
A vigorous, easy plant, trailing habit. Purp							100000000000000000000000000000000000000		
out. Native to Kashmir and Western Nepa		renow	centers	. Requ	iies weii-c	irairieu	5011,	uo not a	illow to u
		=	6	3	12	6	5	5	FGR
Androsace primuloides (Rock Jasmine)	pink					6	1.55	0.70	
Ground hugging ,loosely spreading plant.		ettes be	ear pink	, yeno	w-eyed no	owers I	n spri	ng. mat	ive to the
Himalayas. Flowers are fragrant. Primulac		-	,	2	2		-	-	D
Androsace pyrenaica (Rock Jasmine, Pyrenees)	white	5	6	2	3	6	5	5	R

Choice high alpine. Forms a neat dome of de	ensely huddled	roset	tes. St	udded wi	th whit	e flowers	. Prin	nulace	ae.
Androsace villosa var. jacquemontii (Rock Jasmine)	pink	5	6	2	8	6	5	5	R
Has small gray-green rosettes covered in rus	set hairs. For su	nny,	gritty	scree. Ro	se pink	flowers.	Prim	ulacea	e.
Anemone blanda (Anemone, Wood)	blue	4	5	4	7	7	7	6	R W
Vivid daisy-like flowers over neat mounds in	n early spring. F	lanui	ncula	ceae.					
Anemone hupehensis 'September Sprite' (Anemone,			8	9	12	10	4	5	5
R W	Brilliant pin		wers i	n early au	tumn f	or a shad	v gar	den.	
Ranunculaceae.							, 0		
Anemone magellanica (Anemone, Patagonian)	yellow	6	7	9	9	7	5	6	R
Native to South America. Large sulphur yell		0" st	ems.		n soil i	n sun or l	ight s	hade.	
Ranunculaceae.							0		
Anemone multifida ((Anemone, Dwarf)	red	4	5	8	6	7	6	6	NR
Western native found in the montane and su	balpine. Highly	diss	ected	leaves and	dark	red flowe	rs. Ro	ounde	d clumps
with wiry stems. Ranunculaceae.	1 0 ,								1
Anemone pulsatilla (Pasqueflower)	purple	3	5	8	10	6	7	7	BR
Bell shaped flowers. Silky, globular seed hea		ves.	Blue	violet bloo	m colo	r. Ranund	culace	eae. 'A	lba' white
flowers. 'Rubra' Blooms of burgundy red. Sil									
Anemone sylvestris (Anemone, Snowdrop)	white	5	8	8	10	6	6	5	BFRW
Fast, deep green mat. Long bloom period. To	lerates sun with	n goo	d soil	and mois	ture. N	odding 1	1/2-	3" flo	wers.
Exquisite fragrance. Native of Siberia. Ranur		U				Ö			
Antennaria dioica (Pussytoes)	rose/white	6	7	2	6	7	8	7	BER
Evergreen gray-green foliage. dense carpet; s	stems root as the	y sp	read.	Flowers an	e rose	to white.	Aste	raceae.	
Antennaria dioica 'Minima Rubra', the most minute									
forms dense mat of silvery leaves Distinctive									
Antennaria parvifolia (Pussytoes)	white	5	7	3	20	7	7	7	GRX
Fast spreading groundcover for sun or shade	. Good xeric gro	ound	cover	. Can surv	ive on	natural r	ain &	snowi	all once
established. Asteraceae. 'McClintock', minia									
Antennaria rosea (Pussytoes, Rose)	pink	5	6	3	10	8	9	7	RG
KEY	Sun (1=full sha	de; 9	=full s	sun) Soil (1:	=peat,	9=clay) W	ater (1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good cu									
	G= Groundcove								dry areas

					Width				
Nice pink pussytoes over neat mats. A neat	t carpeting plan	nt with	silvery p	aintec	l leaves. R	ayless	pink f	lowers.	. Native to
the European Alps. Asteraceae.									
Antennaria speciosa (Pussytoes)	white		5		10	7	7	8	R
Low mat of woolly, silver-gray leaves. Short cat. Asteraceae.			clusters	of fur	ry flowers	. Flowe	ers res	emble	the toes of
Anthemis biebersteiniana (Daisy, Filigree)	yellow	5	8	12	12	9	6	7	В
Abundant clear yellow flowers on 9" stems Asteraceae.			silvery f	oliage	in low mo	ounds.	Elega	nt and	easy.
Anthemis montana (Daisy, Silverleaf)	white	6	7	12	15	8	7	7	RX
Large white daisies over rich mounds of sil	lvery foliage fo	r sun. A	Asteracea	ie.					
Anthyllis montana (Ladyfingers, Mountain)	pink	4	5	2	10	8	6	6	R
Wooly leaved alpine vetch with showy clus	sters of flowers	. Fabac	eae.						
Anthyllis vulneraria (Ladyfingers)	yellow	4	6	6	12	6	6	6	R
Bright orange clover flowers over silvery m	nounds for a lo	ng seas	on. Faba	ceae.					
Aquilegia 'Biedermeier Dwarf' (Columbine, Dwf E	Biedermeier)	mixed	4	5	10	10	6	5	5
R Showy, large flowered, most dwarf and a blue, pink and cream. Ranunculaceae.	most colorful h	500			state flow	er. Rar	nging	from ca	armine, lila
Aquilegia akitensis (Columbine, Fanleaf)	blue	5	6	5	6	6	5	5	R
Part shade. Miniature Japanese columbine dwarf. Sky blue and white spurless flowers		ers ove	er fan-sh	aped l	eaves. Rar	nuncula	aceae.	'Minis	tar'; very
Aquilegia bertolonii (Columbine, Dwarf Alpine)	blue	5	6	5	4	7	6	5	R
Tiny European columbine with large flower					-			175.0	
Ranunculaceae.	is on minuseu	ie stemi	s. very c	noice j	piant. Larg	se, men	Diuc	иршин	ed nowers
Aquilegia flabellata (Columbine, Fanleaf)	blue	4	5	8	6	6	6	6	R
Thick, glaucous leaves produce a miniature blue. Native to Japan. Ranunculaceae. 'Nar	e mound. Flow na', blue/white	er has a miniat	distinct ure of th	ive top	ze. 'Pumila	a', blue	e/whi	te, fat,	waxy, larg
flowers of pale lavender edged with white.									
Aquilegia hyb. 'McKana's Hybrids' (Columbine, N	AcKana's)	mixed	5	6	6	12	6	5	6 vi, pink

shades). Graceful old-fashioned favorite. Ra									
Aquilegia saximontana (Columbine, Rky Mtn Dwar			7		6	6	5	6	BR
Tiny, blue-and-white flowers over delicate		ong seas	on. D	warf vers	ion of A	. caerulea	ı. Very	y rare i	in the wild,
easy in gardens. Very choice. Ranunculacea									
Arabis alpina 'Compinkie' (Rock Cress, Mountain)	pink	4	6	6	12	5	6	6	EGR
Deep rose blooms. Evergreen. Ground cove	er or Rock Gar	den. Bra	issica	ceae.					
Arabis alpina 'Snowcap' (Rock Cress, Alpine)	white	4	5	6	6	6	6	6	PR
Tufted, hairy silver gray leaves. Short, com	pact, white flo	wers. Ti	railing	g habit. G	reat for	rockery,	tub o	r wall.	Brassicaceae.
Arabis blepharophylla 'Spring Charm' (Rock Cress,		pink		6	6	6	5	6	6
R Part shade. Bright pink flowered Rock Cr	ess from Calif	ornia. P	lant i	n a protec	ted spot	t. Leaves	are g	reen w	vith rose tint
and white border. Brassicaceae.									
Arabis caucasica (Wallcress)	white	4	6	5	18	6	6	6	RG
Vigorous mat-former tolerates broad range	of soils. Easy	to grow	. Bras	sicaceae.					
Arabis caucasica 'Variegata' (Wallcress)	white	4		8	12	6	6	6	R
A dependable, bright spot of foliage especia	ally in winter.	Heavily	felte	d leaves li	ned in g	gold. Bra	ssicac	ceae.	
Arabis fernandi-coburgi (Wallcress)	white		5		12	7	7	7	R
Mat forming cress with bright white flower	s. Brassicacea	e.							
Arabis fernandi-coburgi 'Variegated' (Wallcress, Va		white	4	5	10	12	7	7	7
R Rosettes of creamy-white leaves with a na		one of g	reen.	Slowly fo	rms a n	nay of cr	eam,	green a	and pink.
Foliage is attractive all year. White 3" flower			5	**		*	220.5		
Arabis procurrens 'Glacier' (Rockcress, Glacier)	white	4	5	10	12	7	7	7	BR
Dense mat of rosetted-foliage and brilliant	white flowers.	Brassica	aceae						
Arabis x sturii(Wallcress, Greenleaf)	white		5		12	7	7	7	R
Always a neat mound of shiny, pointed lea	ves. Easy to gr	row in a	ny w	ell-draine	d soil. Fl	lowers a	re lar	ge, wh	ite and abun-
dant in spring. Brassicaceae.	, ,								
	white	3	5	8	18	7	7	7	RGX
One of the most adaptable and aristocratic	dwarf shrubs.	Sun or p	oart s	hade. Red	berries	; orname	ental b	ark. S	low. White to
pink flowers. Ericaceae.		1.0							
KEY	Sun (1=full	shade; 9	=full :	sun) Soil (l=peat, 9	eclay) W	Vater (1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good c									7.00
	G= Groundo	over; r=r	ock g	arden; W=	Woodla	nd plant	; X=gc	ood for	dry areas
· ·									

Scientific Name (Common Name)	Fl. Color	Bloo	m time	Ht.	Width	Sun	Soil	Water	Type
Arctostaphylos uva-ursi (Kinnikinick, Bearberry)	white	3	5	4	20	8	7	7	EGNRX
Sun or part shade. Low growing native eve		over.	Pink flow	wers fo	llowed by	small	red f	ruits. W	ell-drained
soil. Slow to start but until established. Eric	caceae.				-				
Arenaria hookeri (Sandwort)	white	5	6	4	12	8	8	7	NRX
Sharp spiny cushions of bright green foliag native. Drought tolerant. Full sun. Caryoph		ite flo	owers ap	pear ir	ı late sprii	ng. Ro	cky M	ountair	high plain
Arenaria montana (Sandwort)	white	5	6	5	12	7	5	5	GR
Low growing dark green ground with clou Caryophyllaceae.	ds of glistening 1	" sta	rs over a	long s	eason in l	ate spr	ing. E	asy.	
Arenaria obtusiloba (Sandwort)	white	4	5	2	10	7	6	6	NR
Very low growing with hard light green ar Caryophyllaceae.	nd white foliage. I	Vativ	e to the	Rocky	Mountain	s. Prov	vide g	ritty soi	1.
Arenaria tetraquetra (Sandwort, Spanish)	white	5		1	7	7	6	6	R
Magnificent dense cushion of tiny gray gre Sierras. Caryophyllaceae.	en leaves studde	d wit	h white	stars. E	asy favor	ite for	scree	from th	e Spanish
Arisaema triphyllum (Jack in the Pulpit) popular preacher of Eastern woodlands. A	green/purp raceae.	le 4	5	12	12	4	4	4	R (Ever
Armeria juniperifolia (Thrift, Sea Pink) Compact grassy bun. Charming lavender-	pink-purple oink. Plumbagina		6	6	6	7	5	6	R
Armeria maritima (Sea Thrift)	pink	5	7	7	12	7	6	6	R
Long blooming mound for many soils and blossoms are sheared will bloom again. Plu spring-summer season. 'Dwarf', tiny cushi	exposures. Easy, umbaginaceae. 'D	ussel	dorf Pri	de', ho	t rose-red	flower	rs on l	ow sten	ns for a lon
Artemisia caucasica (Sagebrush, Caucasian) Neat lacy mats for hot spots. Asteraceae.	gray	7		5	12	8	8	7	R
Artemisia frigida (Sage, Dwarf)	gray	6		8	12	8	6	7	FRX
Neat mounds of gray filigree. Fragrant foli	age with woody	stems	s. Soft an	d delic	ate textur	e. Aste	eracea	e.	
Artemisia pycnophylla 'David's Choice' (Artemisia Fuzzy mounds of white foliage. Attractive) gray	7	8	12	18	4	5	7	BR

BFR Same as 'Silver Mound' except with green foliage. Soft aromatic, fer	
5 - 1.	n-like
foliage. 'Silver Mound' Symmetrical mounds of deeply, glistening silver, cut leaves. From Japan; for ordinary soils	nd
exposures. Inconspicuous white flowers.	
Artemisia viridis (Artemisia, Green) green 5 6 2 10 8 7 8 RX	
Huddled evergreen sage from outer Mongolia. Prefers full sun. Makes a perfect bulb cover or specimen plant. Attra	ctive
foliage. Prefers dry soil. Asteraceae.	
Arum italicum (Arum, Italian) green/white 4 5 12 10 7 4 5 R	
Attractive arrow shaped leaves appear in fall, persist though winter, disappearing in summer. Miniature "Jack-in-tl	e-
Pulpit" flowers. Orange red berries. Araceae.	
Aruncus aethusifolius (Goat's Beard) cream/white 5 6 12 8 4 4 5 R	
Miniature ferny clumps with white feathery flowers. Blossoms look like Astilbe. Rosaceae.	
Asarum caudatum (Ginger, Western Wild) brown 6 7 5 12 3 4 4 RW	
Fast spreading, near evergreen groundcover for shade. Aristolochiaceae.	
Asarum europaeum (Ginger, European Wild) brown 6 7 4 10 3 4 4 ER	7
Shiny, kidney-shaped, evergreen leaves make neat mats in cool shade. Thrives in good soil, will survive difficult sh	de
locations. Flowers are hidden below leaves. Aristolochiaceae.	
Asperula gussonii (Woodruff, Corsican) pink 5 7 2 10 7 6 6 R	
Sun. Heat-loving cushion woodruff is a fine specimen for a choice spot. Rubiaceae.	
Asperula lilaciflora v. caespitosa (Woodruff, Lilac) pink 6 8 1 10 6 6 6 R	
Sun or part shade. Fine mat forming woodruff for a choice spot in the rock garden. Rubiaceae.	
Asperula pontica (Woodruff, Pontic) pink 5 6 1 12 7 6 6 R	
Tiny pink flowers in profusion all along the stem. Mat-forming green needle leaves. Rubiaceae.	
Asplenium scolopendrium 'Marginatum' (Fern, Hart's Tongue) N/A 0 0 10 10 5 5 5	
R W At home in wall garden or woodland garden. Prefers rich soil mixe	half
and half with sharp gravel. Polypodiaceae.	
Asplenium trichomanes (Spleenwort, Maidenhair) N/A 0 0 6 4 5 5 5 RW	
Evergreen Rock Fern of worldwide distribution in the North hemisphere. Prefers limestone. Polypodiaceae.	
KEY Sun (1=full shade; 9=full sun) Soil (1=peat, 9=clay) Water (1=wet, 9=dry)	
Type (A=Architectural interest, B=Border; C=good cut flower; D=good dried flower; E= Evergreen; F=Fragrant blooms;	
G= Groundcover; r=rock garden; W=Woodland plant; X=good for dry are	s

cientific Name (Common Name)	Fl. Color	Bloom	n time	Ht.	Width	Sun	Soil	Water	Type
ster alpinus (Aster, Alpine)	lilac	6	7	6	15	7	5	6	CR
Very compact. Mound growth habit. Great of	cut flower. As	teraceae	. 'Golia	th' Ver	y compac	t lilac b	lue w	ith gold	d centers.
Dark grayish green leaves. Great cut flower.								7.5	
ster dumosus 'Niobe' (Daisy, Dwarf Michaelmas)		8	9	6	12	8	7	7	R
A formal mound of white that blooms in lat-	e summer. As	teraceae							
ster himalaicus (Aster, Himalayan)	lavender	5	6	5	5	7	6	6	R
Large flowered spring aster for ordinary soi	ls and sites. S	un or pa	rt shade	e. Aste	raceae.				
ster novi-belgii 'Alert' (Aster, Dwarf)	pink	8	9	12	12	8	6	6	R
Screaming magenta stars over precise mats									
Flowers in dense clusters. Asteraceae. 'Prof	Kippenberg' S	Spectacu	lar cush	nions f	or fall blo	om. Eas	sy to g	grow. Sp	olendid f
cutting. Globe shaped plant topped with ma	isses of 1/2" b	olooms.	Snow F	Flurry',	white mo	ounds f	or fall	color. I	Blooms so
heavily the foliage literally disappears for se	everal weeks.	Cloud o	f small	white f	lowers.				
ster venustus (Aster, Silverleaf)	pink	6	8	7	4	8	7	7	R
Pink daisies for the sunny garden. Asteracea	ie.								
stilbe chinensis var. pumila (Astilbe, Dwarf)	raspberry	7	9	10	10	5	5	5	PRW
Excellent ground cover tolerant of dry soils. erect flower spikes. Saxifragaceae.	Shade lover.	Spreads	gently	from s	tolons in	cool sha	ade. N	leat dw	arf. Stiff
stilbe simplicifolia 'Sprite' (Astilbe, Simpleleaved)	pink	7	9	12	12	5	4	4	R
Dense clumping miniature. Perennial Plant		election.	Saxifra	gaceae					
stragalus kentrophyta (Milkvetch, Spinymat)	pink	5	6	1	10	7	6	7	RX
Spiny cushions and tiny purple flowers for		ens. Faba	iceae.						
stragalus spatulatus (Milkvetch, Spoonleaved)	pink	5		2	6	8	7	7	RX
Showy low growing grayish green, awl shap needs good drainage. Fabaceae.	oed foliage cu	shion fo	r hot sp	ot. Dis	likes com	petitio	n. Dro	ught to	lerant;
ubrieta deltoidea (Rock Cress)	purple	4	5	3	12	6	6	6	GR
For rich, well-drained crevices in sun or sha ering for second bloom. Brassicaceae.							back	severel	
urinia saxatilis (Basket of Gold)	yellow	4	5	12	12	8	6	7	BRX
Draping, sprawling habit. Good for rock gas									

but water in extreme drought. Brassicaceae.	'Compactum',	, more	comp	act version	on of pre	vious. "	Sunny	Borde	er Apricot',
softer colored version.		114	_		-				_
Belamcanda flava 'Hello Yellow' (Leopard Flower)					10	8	6	6	R
Miniature, yellow flowered version of blackl	erry lily. Mid								
Bellis perennis (Daisy, English)	pink		7	5	8	6	6	5	R
Turf-forming daisy from Europe. Hardy, eve	rblooming pla	ants. 1	1/2"	flowers in	red, ros	se or wh	ite. A	sterace	eae.
Bergenia cordifolia (Leatherleaf)	pink to wh	nite 4	5	12	14	5	5	6	BERWX
Pink clusters over leathery, evergreen leaves	. Thrives in pa	artial sh	nade.	Great gro	undcov	er along	pathy	ways o	r under trees.
Spreads slowly, not invasive. Saxifragaceae.							-		
Bolax glebaria (Azorella)	yellow	6	7	2	20	7	4	6	R
Waxy—almost plastic—very hard cushions.	Sun or part sh	ade. Si	nall f	lowers. Ic	leal for t	roughs.	Nativ	e to th	e Falkland
Islands. Vegetable equivalent of Astroturf. U									
den.									Ü
Brunnera macrophylla (Elephant Ear Forget-Me-Not)	blue	4	6	10	20	4	6	6	BGR
Huge, fuzzy heart-shaped leaves. Leaves foll	ow masses of	forget-	me-n	ot flower	s in spri	ng. Can	be inv	asive.	
Boraginaceae.		Ü				0			
Calandrinia umbellata (Calandrinia, Purple)	red	6	8	6	8	9	7	7	R
Long-blooming, heat and sun-loving succule	nt. Clusters of	f glowi	ng, re	eddish-vio	olet flow	ers. Flor	wers s	et off b	v tufted
gray-green foliage. Portulacaceae.		O	0.						1
Calceolaria lanceolata (Calceolaria, Mat)	yellow	4	5	6	6	6	6	6	R
Dainty yellow blossoms splashed with maro							phula	riacea	e.
Callirhoe involucrata (Wine Cups, Poppy Mallow)				5			7		GNRX
Fast-spreading with constant succession of b						Greek ri	ver go	ddess.	Taprooted:
grows in dry to moderately moist soil. Malva							O		
Callirhoe triangulata (Poppy Mallow)	magenta	7	9	4	20	8	7	8	BRX
Deep magenta, hollyhock-like flower clusters			crenu	late leave	s on con	npact tra	ailing	stems.	Native of
Wisconsin and Illinois. Malvaceae.		0				1	0		
Calluna vulgaris (Heather)	pink	7	9	7	10	7	4	4	R
KEY	Sun (1=full sl	hade; 9:	=full s	sun) Soil (1=peat, 9	=clay) V	Vater (1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good cut									
	G= Groundco								dry areas

Scientific Name (Common Name)	Fl. Color	Bloom	time	Ht.	Width	Sun	Soil	Water	Type
Scottish heather, for cool, peaty soils in p									
liant winter foliage color. Ericaceae. Man									
'Foxii Nana', tiniest heather resembles a	mound of brigh	t green mo	ss. Fo	liage tu	rns vivic	l wine-r	ed in	winter.	Tom
Thumb', pink flowers, probably the mos	t minute foliage	Grows int	o a tir	ny, olive	e-green t	ree.			
Campanula alpina (Bellflower, Alpine)	blue	5 (10	5	7	7	6	R
Stocky, nodding blue trumpets in early s	ummer. Choice	high alpine	e. Can	npanula	aceae.				
Campanula carpatica 'Blue Clips' (Harebell, Carp		blue (9	8	10	8	6	6
R Giant blue cups all summer long. From	n eastern Europe	e. Grows in	comp	pact tuf	ts. Light	green le	aves	with lar	ge
violet/blue flowers. Blossoms bury plant									
Campanula cochlearifolia (Fairybells)	blue	6 8	3	3	15	7	6	6	R
Mats of round, bright green leaves. Tiny	blue bells. Give	a well-dra	ined s	soil. Stay	ys very c	ompact	,. Can	npanula	ceae.
'Alba', with dainty, nodding pure white	bells. 'Miranda'	, pale, gian	t flow	rered fo	rm found	d first b	y Reg	inald Fa	rrer.
Strongest growing variety. Chubby bells	of pale icy blue	sit atop a t	uft of	dense f	foliage.				
Campanula dasyantha (Bluebell, Japanese)	lavender		5	4	12	7	6	6	R
Flowers are erect, white-centered, lavence	der-blue flowers	. Campanu	lacea	e.					
Campanula formanekiana (Bellflower, Cup)	white		5	10	10	8	7	7	RX
Furry rosettes of silver leaves are decora-	tive in their owr	right. Sho	wy cı	ups the	second y	ear. Car	mpan	ulaceae.	
Campanula garganica (Bellflower, Adriatic)	blue	5		6	10	7	6	6	ER
Blue stars over evergreen mounds of hol	ly-shaped leave	s. Thrives i	n sun	or shad	de. Long	cultivat	ed, ea	sily gro	wn Foliage
is basal and thick. Native to Europe. Can					Ç			, 0	Ŭ
Campanula portenschlagiana (Campanula, Adria		6	7	3	10	7	6	7	RWX
Lush evergreen mounds covered with vi		spring. Pa	rt sha	de. Can	npanulac	ceae.			
Campanula poscharskyana (Bellflower, Siberian)		6		5	18	7	7	6	GR
Pale blue star-like flowers. Vigorous cree		act. Superb	grov	vn amo	ng rocks	or tumb	oling	over a v	vall.
Scalloped heart-shaped leaves. Campani			O		O		0		
Campanula rotundifolia (Bluebells of Scotland)	blue	6	9	9	6	7	5	5	BNR
Native bluebell with slender, hair-like ste clumps. Campanulaceae.	ems. Large 1" bl	ue flowers	. Very	cold h	ardy. Pl	ants for	m thre	ee inch	high
eranipor campanadaceae.									R

Violet flowered cushion campanula for gritt	y soils. Campa	anulace	eae.						
Campanula x 'Birch Hybrid' (Bluebell)	purple		7	6	18	7	6	7	R
A robust growing, free-flowering hybrid. Ve	ery effective w	all and	crevi	ice plant.	Campan	ulaceae.			
Castilleja integra (Paintbrush, Southwestern)	orange-re	d 6	8	6	$\hat{4}$	8	7	8	NRX
Southwestern native. Hemiparasite; grow w	rith Artemisia c	or nativ	e gras	sses. A ch	allenge	to establ	ish, th	en eas	y. Orange-
red bracts; inconspicuous flowers. Scrophul.									,
Ceanothus pumilus (Dwarf Ceanothus)	purple	5	6	2	24	7	7	7	R
Tiny-leafed creeper with fluffy pale purple f	lower heads.	Rhamn	aceae						
Cerastium alpinum 'var. lanatum (Chickweed, Wool			6	8	14	7	7	6	ER
Very compact Cerastium with silvery, wooll					oms. Bes	t planted	d on n	orth o	east slope.
Evergreen. Caryophyllaceae.	,					1			r
Cerastium candidissimum (Chickweed, Mouse-ear)	white	6	6	10	16	8	7	6	R
Silvery mounds of narrow leaves with brigh		rs in ear	rly su	mmer. Fr	om Gree	ece. Cary	ophy	llaceae	
Cerastium tomentosum (Snow-in-Summer)	white	6	7	6	20	8	7	6	BGR
Fast-spreading, subtle silvery gray mat. She	ar after flower	ing. Ni	ce in	winter. M	lasses of	3/4" flo	wers.	Can b	ecome inva-
sive, responds well to discipline. Caryophyl		0							
Ceratostigma plumbaginoides (Leadwort)	blue	8	10	9	12	6	5	5	BRW
Cobalt blue flowers. Foliage turns deep mah	ogany in autu	ımn. Pe	acock	blue flov	wers. Pre	efers hig	h leve	l of or	ganic matter.
Mulch in winter. Plumbaginaceae.	0 ,					Ü			
Cheilanthes gracillima (Lacefern)	N/A	0	0	6	6	7	5	5	R
Plants native to dry, rocky situations. Suited	to the sunny	rock ga	rden.	Polypod	iaceae.				
Chrysanthemum m. 'Little Miss Muffet' (Daisy, Shas			8	12	15	8	6	6	BCR
Giant white daisies all summer. Excellent for		raceae.							
Chrysanthemum maximum 'Snow Lady' (Daisy, Shar			10	10	12	7	7	7	CR
Cultivar of Shasta daisy. Asteraceae.									
Chrysanthemum weyrichii (Mum, Ground Cover) wl	hite 8	10	9	12	7	6	6 (GR	Trim
white or pink daisies over deep green mats i		fall. Fas	t spre	eading. A	steracea	e. 'Pink l	Bomb	, soft p	oink version
of 'White Bomb' with fewer but larger flowe									
KEY	Sun (1=full s	hade; 9	=full s	sun) Soil (1=peat, 9	=clay) W	Vater (1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good cu									
	G= Groundco								dry areas
			U			1	J		

Scientific Name (Common Name)	Fl. Color	Bloom	m time	Ht.	Width	Sun	Soil	Water	Type
ning through crevasses of sunny wall. Aster									
Chrysogonum virginianum (Green and Gold)	yellow	6	8	4	12	4	4	4	R
Spreading. Long season of brassy, five-peta	lled daisies. Be	enefits f	rom afte	rnoon	shade. As	steracea	ae.		
Claytonia megarhiza (Spring Beauty)				2	16	7	6	6	NR
Fleshy shiny leaves form rosettes. Bears pin				mmer.	A Colora	do alpi	ne na	ive. Ex	tremely
challenging to grow. Portulacaceae.						•			
Convallaria majalis (Lily-of-the-valley)	white	5	6	8	6	4	5	4	BFGRW
Deliciously fragrant, excellent ground cover	r; prolific. Divi	ide whe	n overcr	owded	d. Many b	ell-like	flowe	rs on st	rong stems
Top dress with manure spring or fall. Liliac									O
Coreopsis auriculata 'Nana' (Tickseed)	orange	6	8	12	12	8	5	8	CR
Bright orange-yellow flowers. Spreads by s				ming s	eason if fa	aded flo	owers	are ren	noved. Not
fussy about soil. Asteraceae.			O	O					
Coreopsis grandiflora 'Baby Sun' (Coreopsis, Dble D	wf) vellow	6	8	10	12	8	5	7	BCRX
Long season of summer color. Easy in most					st to win	gold m	edals	in both	AAS and
Fleuroselect trials. Bears golden, semi-doub									
opsis. Strong stems, bright yellow blooms.								,	
	yellow	5	10	10	15	7	5	5	BCR
Carefree variety. Fine fern-like foliage. Pale			at abunc	lance.	Drought a	and mi	ldew 1	esistan	t. Plant of
the Year in 1992. Nice in container. Asterace		O			Ü				
Corydalis solida 'George Baker' (Crimson Fumewo	rt) red	3	4	7	5	6	6	6	R
Crimson spikes of two lipped fls from a tub		to grow	in part s	shade,	cool scre	e or wo	odlan	d. Fum	ariaceae
Cotula minor (Cotula, Tinyleaf)	yellow	5		1	10	5	5	4	R
Fast spreading carpeter from New Zealand	Superb filler	for flags	stone pat	ths. As	teraceae.				
Cotula squalida 'Minor' (Cotula)	vellow		6	1	10	7	6	5	R
	oister sites. A	steracea	e.						
Very tiny ground cover in deep green for m				2.0	4.0		-	-	D
Very tiny ground cover in deep green for magnetic lanata (Silver Hawkweed)			9	6	10	8	7	7	R
Crepis lanata (Silver Hawkweed)	yellow	5			7000	8	1	/	K
	yellow	5			7000	8 5	5	5	R R

Cyclamen hederifolium (Cyclamen, Hardy)	pink	8	9	3	. 8	5	4	5	GRW
Showy, variegated leaves appear in fall. Best							_	2	
Cypripedium acaule (Ladies Slipper, Red)	rose-pink			12	8	3	3	3	R W
Native American orchid of moist woodlands		kes sha	de an	d acidic s	oils. Like	es deep	leaf m	old. C	an be frus-
trating due to unique requirements. Orchidae									
Delosperma cooperi (Iceplant, Purple Hardy)	purple	5		4	12	9	8	7	BRX
Showy purple flowers for much of summer s	eason. Very l	nardy ir	suni	ny, hot sp	ots. Aizo	oaceae.			
Delosperma nubigenum (Iceplant, Hardy)	yellow	4	6	2	15	8	7	6	BGRX
Emerald mats turn ruby red in winter. Super	lative ground	cover	for su	nny prob	lem spo	ts. Aizo	aceae.		
Delosperma sutherlandii (Iceplant, Sutherland)	purple	5	6	3	6	8	6	7	R
Low perennial with hairy leaves. Single daisy		are 21	/2" ii	n diamete	r. Shagg	v flowe	rs are	held 2	—4" above
leaves. Aizoaceae.					00	,			
Delphinium grandiflorum 'Blue Butterfly' (Larkspur)	blue	6	8	12	8	7	7	6	R
Select form of type. Superlative midsummer			ie.						
Dianthus 'Dottie 608' (Pink, Dottie 608)	white		6	10	10	8	7	6	BFR
White blooms with pink dots on petals. Tiny			- 5						
Dianthus 'Frost Fire' (Pink, Frost Fire)	pink	5		4	15	8	7	6	R
Fragrant. Flowers are double red. Blue gray f				riod. Car					
Dianthus 'Pikes Pink' (Dianthus, Pikes Pink)	pink	5		10	10	8	7	6	R
Dense silver mats with showy pink blooms o							•		
Dianthus alpinus (Pink, Alpine)	pink	5		2	8	7	6	6	BFR
Low clumps of mid-green leaves. Profuse, fra				10.00					
Caryophyllaceae.	Brunt, singre	11011111		are to the		rear ge	iii oi ti	ic gen	us.
Dianthus amurensis 'Siberian Blues' (Pink, Amur Riv	er) mauve	5	6	10	12	7	6	6	R
Purple-blue selection of long blooming summ					12		0	0	IX
Dianthus barbatus 'Pixie' (Pink, Pixie)	pink	5 5	6	. 6	10	7	6	6	R
Old-fashioned border flower that never loses	its appeal or		-				U	U	IX
Dianthus caryophyllus (Carnation, Clovelike)	mixed	5	7	12	15	8	7	6	BCPR
KEY						AT			
	Sun (1=full s								9=ary)
Type (A=Architectural interest, B=Border; C=good cut									J
	G= Groundco	ver; r=r	ock ga	arden; W=	vvoodlai	na piant	; X=go	oa for	ary areas

Mats of narrow, pointed, decorative leaves. Fragrant flowers borne in profusion. Best if grown in full sun, will tolerate some shade. Makes a good cut flower. Caryophyllaceae. Dianthus deltoides (Pink, Maiden) pink 5 6 8 8 8 7 6 6 8 R Low mats of green foliage covered with bicolored flowers. Spreads from seed. Blooms all summer. Caryophyllaceae. Dianthus deltoides (Pink, Zing Rose) pink 5 6 8 8 8 7 6 6 8 B F R Evergreen mats covered by bright rose-red flowers with soft, spicy fragrance. Best in full sun, tolerates some shade. Plan in masses with taller, spiked plants. Caryophyllaceae. Dianthus erinaceus (Pink, Hedgehog) pink 6 7 2 8 8 7 7 7 R Very spiny cushion plant for well drained scree conditions. Excellent for the Alpine garden. Caryophyllaceae. Dianthus freynii (Pink, Cushion) pink 4 6 3 8 8 7 7 R Tiny gray cushions studded with large pink stars. A classic for crevices or troughs. Easy to grow. Caryophyllaceae. Dianthus gratianopolitanus (Pink, Cheddar) pink 5 6 6 8 8 8 7 7 R The familiar cheddar pink is a fine cushion for rock gardens. Great for the front of the border. Caryophyllaceae. Dianthus monspessulanus (Pink, Montpelier) white/pink 5 6 10 15 7 6 6 R Grows in tufts. Produces deeply fringed rose red flowers. Flowers are fragrant. Native to stony alpine meadows from Portugal to Yugoslavia. Caryophyllaceae. Dianthus nitidus (Pink, Balkan) pink 5 6 6 4 8 7 6 R Tight tufts of emerald foliage. Easy to grow. Glorious pink stars with dark purple calyx in mid-spring. Caryophyllaceae. Dianthus simulans (Pink, Small Balkan) pink 5 6 6 8 8 7 7 6 6 R Miniature cushions with tiny pink flowers. Prefers sunny area. Superb for troughs or small gardens. Caryophyllaceae. Dianthus x allwoodii (Pinks, Allwood) pink 5 6 6 8 8 7 7 6 6 R Pink blooms most of summer in a sunny spot. Sweet scented, even in winter. Attractive with silvery cushions of foliage Often proves Perennial in our climate. Caryophyllaceae. Diascia 'Ruby Fields' (Twinspur, Ruby Field) rosy-pink 5 8 12 12 6 5 5 R Hybrid of D. barbara		Fl. Color								
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Tall, intensely fragrant Lace Pink. Caryophyllaceae. Dianthus x allwoodii (Pinks, Allwood) pink 5 6 6 8 7 7 6 F R Pink blooms most of summer in a sunny spot. Sweet scented, even in winter. Attractive with silvery cushions of foliage Often proves Perennial in our climate. Caryophyllaceae. Diascia 'Ruby Fields' (Twinspur, Ruby Field) rosy-pink 5 8 12 12 6 5 5 R Hybrid of D. barbarae and D. cordata. Brick rose flowers all summer in loamy soil. Scrophulariaceae. Dicentra canadensis (Squirrel Corn) white 5 5 6 6 5 5 8 R			area. Si	uperb fo	r troug	shs or sma	ıll gard	ens. C	Caryopl	hyllaceae.
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Hybrid of <i>D. barbarae</i> and <i>D. cordata</i> . Brick rose flowers all summer in loamy soil. Scrophulariaceae. Dicentra canadensis (Squirrel Corn) white 5 5 6 6 5 5 8 R										
Dicentra canadensis (Squirrel Corn) white 5 5 6 6 5 5 8 R									5	R
									127	123
					6	6	5	5	8	R

Dicentra eximia (Bleeding Heart, Fringed)	pink		10	9 or in chac	12	4 Eumori	5	5	R W
Rare eastern wild flower. Produces sprays o						ruman 4			D D
Dicentra eximia 'Luxuriant' (Bleeding Heart, Fringe			10	12	12		4	4	BR
Carmine flowers are free blooming. Easy to	grow in well-	arainea	num	usy sons.	Prefers	some sn	iade, t	ut tole	erant of full
sun. Fumariaceae.	1.1	-	_	10	15		-	_	
Dicentra eximia 'Snowdrifts' (Bleeding Heart, Wild)			. 7	10	15	4	5	5	R .
White form of fringed bleeding heart. Foliag									
Dicentra eximia 'Zestful' (Bleeding Heart, Fringed)	red	5	8	10	20_	4	5	5	BRW
Dark flowered, possibly hybrid. Vigorous m						mariace			
Dicentra formosa (Bleeding Heart, Wild)	pink	4	8	10	15	4	4	4	R
Likes a forest setting. Will form large colonie		ives and		lilac hear	rts. Fuma	ariaceae			
Dicentra oregana (Oregon Dicentra)	white	5	5	6	6	5	5	8	R
A true rock plant. Not difficult given perfect	drainage. Fu	mariace	ae.						
Digitalis thapsi (Foxglove, Dwarf Pink)	pink	5	6	12	8	6	6	6	R
Dense mounds of hairy leaves and heavenly	pink trumpe	ts in mi	dsum	mer. Scro	phularia	iceae.			
Dodecatheon alpinum (Shooting Star, Alpine)	purple	5	6	1	4	6	6	8	R
Extremely dwarf, western high alpine native	. Primulaceae	e.							
Dodecatheon hendersonii (Shooting Star, Henderson'		5	6	8	10	7	5	5	R
Vivid red-purple flowers. Decorative foliage		d, flesh	leav	es. Primu	laceae.				
Dodecatheon poeticum (Shooting Star, Poet's)	red	5	6	6	3	6	7	5	R
Popular and easy. Dark, nearly red flowers.	Primulaceae.								
Dodecatheon pulchellum (Shooting Star, Western)	pink	5	6	12	5	7	5	3	R W
Famous shooting star of western mountains.		oist soil	s. Go	od in sun	or shade	e. Primi	ılacea	2.	
Douglasia laevigata (Douglasia)	pink	5	6	2	8	7	6	5	R
Cushion forming plants for sunny scree or a		Primula				-			
Draba aizoides (Draba, Common)	vellow	3	5	2	4	8	7	7	R
Tiny draba with hairy margined leaves. Lon		on. Mak	es nea	at mound	s in rock	garder	s or tr	oughs	
Brassicaceae.	5 -100111 001101		00 1100	ii iiio diiid	D III TOCK	Buraci	io or tr	ougno	
KEY	Sun (1=full s	shade 9	=full s	un) Soil (1=peat 9	=clay) V	Vater (1=wet	9=dry)
Type (A=Architectural interest, B=Border; C=good cu)—dry)
1, pe (11-11 cinicciui ai iniciesi, b-boider, c-good cu	G= Groundco								dry areas
	0- Grounde	0 (1 , 1 -1	ock go	arder, *V-	- 11 Ooulai	na piani	, N-BC	00 101	dry areas

Scientific Name (Common Name)	Fl. Color	Bloom	n time	Ht.	Width	Sun	Soil	Water	Type
Draba bruniifolia (Draba, Cushion)	yellow	3	4	3	12	8	7	6	R
Fast spreading mats of green and yellow flo	wers. Brassica	iceae.							
Oraba cappadocica (Draba, Cappadocian)	yellow	(70.0	6	3	5	7	7	6	R
Tight gray-green velvety buns. Golden yell	ow flowers co	ver plan	t. Brassi	caceae					
Draba hispanica (Draba, Spanish)	yellow	3	4	3	10	8	7	7	R
Spiny cushions produce symmetrical mounden. Brassicaceae.	ds of bloom. I	Hairy lea	ives crea	ite intr	ricate patte	erns. T	hrives	in suni	ny rock ga
Draba oligosperma (Draba, Mat)	yellow	3	4	2	7	8	7	7	R
Miniature draba from the Rockies. Loves a	sunny crevice.	Tiny m	ats of sa	xifrage	e-like folia	ige. Bra	assicac	eae.	
Oraba olympica (Draba, Olympic)	yellow	3	4	3	12	8	7	6	R
Spreading mossy-green cushion with comp	act clusters of	yellow	flowers.	Easies	t of all. Br	assicac	eae.		
Oraba paysonii (Draba, Payson's)	yellow	3		3	6	8	7	6	R
Ranks as one of the finest American, gray-le	eaved species.	Compa	ct yellov	v flow	er clusters	. Brass	icacea	e.	
Oraba repens (Draba, Cushion)	yellow	3	5	4	10	7	7	6	R
Minute bright green mounds of tiny leaves.	Part shade. V	ivid yel	low spri	ng flov	wers. Bras	sicacea	ie.		
Draba rigida (Bun Draba)	yellow	3	4	3	6	8	7	6	R
Fabulous cushion for rock garden treatmen	t. small flower	s on da	rk, wiry	stems.	Many sel	ections	avail	able.	
Oraba streptocarpa (Draba, Twisted-pod)	yellow	4	5	4	3	7	7	6	R
Low mounds of bristly rosettes and scream	ing yellow flo	wers. Cl	noice Ro	cky M	ountain n	ative. E	Brassic	aceae.	
Dracocephalum botryoides (Dragonhead, Cutleaf)	purple	5	7	3	9	7	6	6	RX
Gray, lobed leaves are obscured with pink	dragonheads.	Labiatae	2.						
Dracocephalum renati (Dragonhead, Fragrant)	white	5	8	8	8	7	6	6	R
Aromatic gray leaves form symmetrical mo	und. Produce	s white	blooms	all sun	nmer. Lab	iatae.			
Dracocephalum speciosum (Dragonhead)	blue	5	8	10	8	7	6	6	R
Especially large flowers in cobalt blue. Vigo	orous. Labiatae	2.							
chinocereus fendleri (Cactus, Hedgehog)	purple	5	6	10	6	8	8	8	RX
Stout columns with dramatic spines. Cactae	ceae.								
Echioides longiflorum (Prophet Flower)	yellow	5	7	10	12	6	4	5	R
Exotic shade-lover. Large yellow flowers th	at open with b	right b	own sp	ots tha	t fade. Bo	raginad	ceae.		

Edraianthus pumilio (Edraianthus, Cushion)	purple	5	6	2	6	7	6	6	R
Tight cushions of tiny, grass-like leaves. Folia		vitii pui 4					-		
Epimedium alpinum (Barrenwort)	red		-	10	12	4	4	5	R W
Deep red and white four-petalled flowers. W								-	DIM
Epimedium grandiflorum (Barrenwort)	purple	. 4	5	10	10	4	4	5	RW
Giant white or purple spidery flowers on slo								2	2.2.2
Epimedium x rubrum (Barrenwort)	red-white		5	6	6	4	4	5	RW
Red-tinged foliage. A rapid deciduous spread Berberidaceae.	der. Bicolored	flower	s of c	rimson a	nd white	e. Aristo	crat o	fgrour	nd covers.
Epimedium x versicolor 'Sulphureum' (Barrenwort)	yellow	5	6	12	12	4	4	5	BEGRW
Soft yellow flowers on vigorous, spreading c	lumps. Berber	ridacea	e.						
Epimedium x youngianum 'Niveum' (Barrenwort)		4		6	6	4	4	5	RW
One of the lowest growing Epimediums. Spr		ıl snow	-whit	e pendul	ous flow	ers. Ber	berida	ceae.	
Erica tetralix 'Pink Star' (Heath)	pink		10	6	12	7	4	5	R
Waxy, soft-pink bells. Beautiful silver-gray for	oliage. Ericace	eae.							
Erica vagans 'Nana' (Heath, Cornish)	white		10	6	12	7	4	5	R
Spikes of creamy white flowers. Attractive li	ght green folia	age wit	h gold	d tips. Eri	caceae.				
Erigeron caespitosus (Daisy, Cushion)	white	5	6	4	6	9	8	7	R
Mounded native cushion producing many w	hite daisies. A	Asterace	eae.						
Erigeron compositus (Fleabane, Cutleaf)	white	4	9	4	6	8	7	8	BR
Easily grown cushion. Very neat and attracti	ve grav leaves	s. White	e dais	v flowers	. Long b	loom. N	lative	to Nor	th America.
Sometimes spreads from seed. Asteraceae.	0 ,			,	O				
Erigeron pinnatisectus (Daisy, Pinnate)	purple	5	6	3	4	8	7	6	R
Tight mounds of ferny, green leaves. Gloriou		es on lo	w ste	ms for m	uch of sr	oring. A	sterac	eae.	
Erigeron scopulinus (Daisy, New Mexican)	white	5		1	7	O			R
Sun. Tiny native cushion producing many w	hite daisies. E	asy to	grow.	Asterace	ae.				
Erinus alpinus (Erinus)	purple		4	3	3	8	7	7	R
Tiny tufts of small spatulate leaves spread by		sist. Li	kes cr	evices be	tween sl	nady roc	ks in	garder	of minia-
KEY	Sun (1=full sl								
Type (A=Architectural interest, B=Border; C=good cut									
	G= Groundco								dry areas
	C Groundeo	, ст, т-г	och B	aracit, 71-	, , oodia	na piant	, ,,-60	- Cu 101	ary areas

Scientific Name (Common Name)	Fl. Color		n time	Ht.	Width	Sun	Soil	Water	Туре
tures. Each plant lasts only a few years. Scr									
Eriogonum effusum (Buckwheat, Baby's Breath)		. 8	9	12	15	9	9	8	R
Symmetrical mound with white flowers. Pr							0.2	1001	
Eriogonum flavum (Buckwheat, Yellow)	yellow	5	6	6	8	8	. 8	7	ENRX
Low cushion, almost ever-gray mat of folia		o grow	once est	ablish	ed. Does v	vell in	dry, o	rdinary	soil.
Excellent for sunny rock garden. Polygona		_	_					-	
Eriogonum jamesii (Buckwheat, James')	white	5	7	12	12	9_	. 8	8	ERX
Creamy umbels of everlasting flowers turn									1227241
Eriogonum subalpinum (Sulfur Flower, Subalpine)		5	7	8	10	8	8	8	RX
Beautiful red foliage in winter. Polygonace				20120	100.00	7.25		12.0	
Eriogonum umbellatum (Sulfur Flower)	yellow	5	7	10	10	8	8	8	CENRX
Evergreen mounds with papery yellow flo			ner. Ver	y easy	once esta	blished	l. Doe	s well ii	ı dry, ordi-
nary soil. Beautiful dark red winter foliage									
Erodium chrysanthum (Cranesbill, Yellow)	yellow	5	9	5	15	8	7	7	R
Silvery cushions sport straw-yellow flower		he year.							
Erodium macradenum 'Roseum' (Cranesbill)	pink	5	8	8	10	8	7	7	R
Quite hardy in rocky soil. Lacy fresh green		iaceae.							
Eryngium alpinum (Sea Holly, Alpine)	silver	6	7	12	8	7	7	5	DR
Unusual pineapple shaped blue flowers on		Excellen			Jmbellifer				
Erysimum helveticum (Wallflower, Swiss)	yellow	3	6	10	7	7	6	5	R
Compact mats of bright green. Vibrant yell		e spring	. Brassi						
Erysimum x allionii 'Golden Bedder', Wallflower,)		5	5	10	8	6	7	6	BR
Long season of shocking orange Wallflowe									
Euphorbia amygdaloides rubra (Spurge, Wood)			5	12	10	8	6	7	BER
Dark red-stained leaves and contrasting ch	artreuse bloom	is in earl	ly sumn	ner. Eı	aphorbiace	eae.			
Euphorbia myrsinites (Spurge, Succulent)	yellow	3	5	3	15	8	8	8	RX
Sedum-like mounds of gray foliage. Flowe Euphorbiaceae.	rs for a long sea	ason. Ca	in be ve	ry inv	asive. Goo	d for d	ry, su	nny site	es.
Euphorbia epithymoides (polychroma; Spurge, Cushi		5	6	8	15	6	6	7	BRX

Unusual accent plant, foliage turns red in the rich, moist soil. Euphorbiaceae.	ne fall. Free of	diseases	and	pests. Ch	artreuse	flowers	s. Self	sows;	aggressive in
Festuca cineria (Fescue, April Green)	steel blue	fol. 0	0	8	6	9	7	8	ABEPRX
Evergreen rounded clump grass with steel l	olue foliage. "I	Rainbow	v effe	ct" in earl	y spring	, Tolera	tes mo	st soil	s. Cool hardy
to 9,000' Gramineae.	-				5 1777 15				
Festuca glacialis (Grass, Fescue)	N/A	0	0	2	10	8	7	7	R
Easy but slow growing tiny tuffs of blue-gra	ay foliage. Gra	mineae.							
Festuca ovina var. glauca (Grass, Blue Fescue)	blue	6	7	12	10	8	7	6	BRX
Blue-green foliage is attractive all summer. drainage. Gramineae. 'Elijah Blue' particula						ed tufts	. Dry s	soil wi	th good
Fragaria americana (Strawberry, Wild)	white	5	7	6	8	7	7	7	RY
An attractive ground-cover or edging plant.		Rosacea	-				,		
Fragaria 'Pink Panda' (Strawberry, Pink Panda)	pink	5	6	8	18	5	5	7	GRY
Nice ground cover. Edible fruits. Rosaceae.	F				227				~
Fragaria vesca (Strawberry, Runnerless)	white	5	7	8	8	7	7	7	GRXY
Fast-growing groundcover or edger with ed	lible red fruit.	Produce	es del	licious tar	gy fruit	. Plants	stay n	eat. Pr	oduces no
Fritillaria pallidiflora (Yellow woodland fritillary)	vellow	4	5	12	7	5	4	5	R
Large, soft yellow flowers for a long season.				in cool so	ree or w		iliacea	ie.	
Galium odoratum (Woodruff, Sweet)	white	5	6	8	12	3	5	7	FGRX
Fast spreading ground cover for shady moinnew mown hay. Used to flavor May wine. F		t place	near	choice, tir	y plants	. Leaves	s are s	mall a	nd smell like
Genista tinctoria var. humifusa (Broom)	yellow	5	6	2	12	8	7	7	R
Prostrate branchlets are densely clothed. Ha	is neat, little sl	niny lear	ves. (one of the	best dw	arfs. Fa	baceae	э.	
Gentiana acaulis (Gentian, Trumpet)	blue	4	6	3	8	7	5	5	R
Giant flowered spring gentian of the Alps. (Gentianaceae.								
Gentiana affinis (Gentian, Narrowleaf)	Blue	6	8	10	8	7	6	6	R
Gray leaved. Deep blue, narrow blooms in a	nidsummer. N	Vative to	mou	ıntain par	kland. (Gentiana	iceae.		
KEY	Sun (1=full s							1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good co									
	G= Groundco								dry areas

Scientific Name (Common Name)	Fl. Color	Bloo	m time	Ht.	Width	Sun	Soil	Water	Type
Gentiana angustifolia (Gentian)	blue	4	4	3	12	7	5	5	R
A distinct "acaulis type" with decidedly na	rrow, dull greer	n leave	es. Genti	anacea	ie.				
Gentiana cachmerica (Gentian, Kashmir)	blue	8	9	4	12	8	6	6	R
A prostrate species with rosette foliage. Tul	oular bright blue	e flow	ers in lat	te sum	mer and a	utumn	. Gent	tianacea	ie.
Gentiana decumbens (Gentian, Sprawling)	blue	5	6	10	10	8	7	7	R
Deep green rosettes and vibrant sprays of to Gentianaceae.	rue blue much c	of the s	summer.	. Cours	se but usef	ul in tl	ne wil	d garde	n or borde
Gentiana gracilipes (Gentian)	purple-blue	e 7	8	12	10	8	7	7	BR
A slightly more retired meadow Gentian of	the decumbens	group	o. Indest	ructib	le. Gentiar	aceae.			
Gentiana loderi (Gentian, Loder's)	blue		7	5	8	7	6	6	R
Cool blue cups at the height of summer. Ve	ry easy Gentian	for ar	yone to	grow.	Gentiana	ceae.			
Gentiana paradoxa (Gentian, Threadleaf)	blue	8	10	12	8	7	6	5	R
Grassy, whorled leaflets make an airy clum	p. Stunning dee	p blue	cups in	late s	ummer. Su	perb.	Gentia	inaceae	
Gentiana scabra (Gentian, Autumn Japanese)	blue		10	10	10	8	7	6	GR
Deep blue fls in autumn over purple tinted	foliage: superb.	Genti	anaceae						
Gentiana septemfida (Gentian, Summer)	blue		9	10	10	8	7	6	GR
Most easily grown summer gentian. Cluste	rs are long lastin	ng. De	ep blue,	white	throats. G	rows v	vell in	ordina	ry soil.
Gentianaceae.									
Geranium cinereum 'Splendens' (Geranium, Pink)	pink	5	6	8	10	7	6	6	R
Giant pink fls over neat tufts of foliage. Ger									
Geranium x 'Ballerina' (Geranium, Alpine)	lavender	6	7	7	10	7	6	6	R
Tiny, green cutleaf geranium. Pink flowers long lived. English import. Geraniaceae.	with darker vei	ning a	nd purp	olish ce	enters. Loo	ks deli	cate b	ut very	hardy and
Geranium dalmaticum (Geranium, Dalmatian)	pink	6	7	5	8	7	6	5	R
Super miniature geranium for loamy soils i	n part sun. Supe	erb fal	l color. (Gerani	aceae.				
Geranium endressii 'Wargrave Pink' (Cranesbill)	pink	6		12	15	7	6	6	BR
Pale pink stars over vigorous mounds of fo	liage. Splendid	fall co	lor. Nati	ive to I	England. A	ttracti	ve, bri	ght gre	en, notche
leaves. So vigorous, it's weed proof. Gerani	aceae								

Foliage turns deep burgundy in fall. Forms Geraniaceae. Var. striatum (Cranesbill) Salmo sturdy stems. Highly drought resistant. Geranium x cantabrigense 'Biakovo' (Cranesbill) Flowers are bright pink. Blossoms carried al 'White', pale pink to white variant of the type	soft mounds. on pink blosso aniaceae. pink		oomir er the						B R lowers on
Geraniaceae.Var. striatum (Cranesbill) Salmo sturdy stems. Highly drought resistant. Ger anium x cantabrigense 'Biakovo' (Cranesbill) Flowers are bright pink. Blossoms carried al	on pink blosso aniaceae. pink	oms cov	er the						lowers on
sturdy stems. Highly drought resistant. Ger anium x cantabrigense 'Biakovo' (Cranesbill) Flowers are bright pink. Blossoms carried al	aniaceae. pink			green, lo	bed folia	ige. Dee	ply ve	eined f	lowers on
ranium x cantabrigense 'Biakovo' (Cranesbill) Flowers are bright pink. Blossoms carried al	pink	5	0						
Flowers are bright pink. Blossoms carried at		5		-	4.0	_			-
	pove a 6" carp			5	10	. 7.	6	6	R
'White', pale pink to white variant of the type		et of mi	d-gree	en foliag	e. Foliage	e is spic	ily fra	grant.	Geraniacea
		_				_			
anium x magnificum (Cranesbill, Blue)	blue	5	6	12	20	7	6	6	BR
Vigorous, true blue hybrid for border or wil				5552	100000	722	250	-	192
um coccineum 'Borisii' (Geum, Orange)	orange	5	7	10	15	7	7	6	R
Glorious orange stars over neat green, ferny						222			250000
ım montanum (Geum, Mountain)	yellow	6	7	3	12	7	6	6	R
Easy with mats of dark, glossy leaves. Large						saceae.			
ım reptans (Avens, Creeping)	yellow		6	6	12	7	6	6	NR
Large 1 1/2" blooms on long stems. Good b	order plant. F	orms ro	settes	of divid	ed hairy l	leaves. l	Mat fo	rming	. Native
alpine plant. Rosaceae.									
ia subnuda (Gilia, Navajo)	red		8	12	10	8	8	8	RX
Wonderful succulent rosettes. Constant spra	ays of near sca	arlet trui	mpet b	olooms a	ll summe	er. Polei	nonia	ceae.	
bularia cordifolia (Globularia, Mat)	blue	5	6	3	12	8	6	6	EGR
Low, woody, fast spreading evergreen with South European native. Globulariaceae.	bright blue po	owderp	uffs. a	nd roun	dish leav	es. So tl	nick it	suppr	esses weeds
bularia meridionalis (Globularia, Cushion)	blue	5	6	4	6	7	7	7	R
Forms tangled leafy dome rather than a mat	. One of the b	est. Glo	bulari	aceae.					
bularia repens (Globularia, Tiny)	blue	5	6	3	8	7	7	7	R
Minute, leathery leaves with round heads of	f blue flowers.	. Good i	n trou	ghs. Glo	bulariace	eae.			
bularia trichosantha (Globularia)	blue	5		9	18	7	7	7	GR
Y	Sun (1=full s	shade: 9	=full s	un) Soil (1=peat, 9:	=clay) W	Vater (1=wet.	9=drv)
be (A=Architectural interest, B=Border; C=good cu									

Scientific Name (Common Name)	Fl. Color	Bloom	m time	Ht.	Width	Sun	Soil	Water	Type
Larger than the other species. Makes an att	ractive grounde	over ir	all seas	on. Gl	obulariac	eae.			
Goniolimon tataricum (Statice, German)	white	6	7	10	12	8	7	7	BCRX
Covered with masses of tiny flowers. Attra Needs well drained soil. Plumbaginaceae.	ctive smaller pla	ant for	perenni	al boro	der. Good	dried f	lower	. Easy t	o grow.
Gypsophila cerastioides (Baby's Breath)	white	5	6	2	10	7	7	7	R
Low mounds of rounded velvety leaves. Be	est in rich scree o	or trou	gh. Carv	ophyl	laceae.				
Gypsophila repens (Baby's Breath, Creeping)	white/pinl		7	4	12	8	7	6	BDR
Vigorous, gray green trailing mat thrives in			ered by r	nasses	of 1/4" f	lowers.	Beau	tiful vei	l-like effect.
tumbling over walls. Prized for drying. Car	ryophyllaceae. 'l	Rosea'	, clouds	of tiny	pink blo	oms. Lo	ves a	hot spo	ot.
Gypsophila tenuifolia (Baby's Breath, Cushion)	white		6			7	7	7	R
A tight, round bun of short, grassy leaves.		stems	of daint	y whit	te flowers	. Caryo	phyll	aceae.	
Hacquetia epipactis (Buttons, Brass)	yellow	3		4	8	4	3	5	R
Compact woodland mat with brassy bloom	and trim clum	ps of ly	s. Easily	y grow	n. Umbel	liferae.			
Helianthemum 'Wisley Pink' (Sunrose)	pink		7	10	18	8	5	7	ER
Royal Horticulture Society selection. Cistae	ceae. Wisley Pri	mrose	, yellow	. Cista	ceae.				
Helianthemum apenninum (Sunrose, Apennine)	white/yell	ow 6	7	12	20	8	7	7	ER
Wonderfully silvery evergreen leaves. Lon	g season of bloo	m. Cis	taceae.						
Helianthemum canum v balcanum (Sunrose, Hairy)	yellow	5	6	1	8	8	7	7	R
Miniature, silver-leaved alpine. Wonderful Easy to grow.	l. Cistaceae. Vari	iety sca	ırdicum ,	tiny r	ound leav	es cove	ered w	ith silv	er hairs.
	yellow	6	8	10	15	7	6	6	R
Densely silver mats of oblong leaves. Yello	w clusters of blo	oom in	summe	r. Aste	raceae.				
Helichrysum marginatum (Everlasting)	snow whit			10	10	6	5	6	R
Silver edged deep green leaves and white	everlastings. Ast	teracea	ie.						
Helichrysum milfordiae (Everlasting, Milford's)	white	6	7	2	8	6	5	5	R
Silvery, hairy rosettes form mats. Produces Asteraceae.	s rustling everlas	stings	in early	summ	er. A mus	t for yo	ur ro	ck garde	en.
Helichrysum virgineum (Everlasting, Mt Athos)	white	5	6	8	12	8	7	7	RX
Woolly white rosettes like giant pussytoes			e white	when i	first open.	Astera	ceae.		

Helleborus niger (Christmas rose)	white	1	4	10	10	6	5	5	ERW
Waxy white flowers open through the win	ter months. Nea	at everg	reen	fountains	of bloor	n. Self-s	seeds 1	under	right condi-
tions. Ranunculaceae.									
Helleborus orientalis (Lenten Rose)	purple	2	4	12	10	6	5	5	R W
Lovely flowers of varying shades of pink.	Blossoms usuall	y delig	htfull	ly speckle	d with r	ed. Ran	uncula	ceae.	
Helleborus viridis (Hellebore, Green)	yellow/gr			10	8	5	5	5	R
Deciduous, winter blooming Hellebore. Ea	sy to grow in sh	nade or	part	sun. Ranı	unculace	ae.			
Hepatica acutiloba (Liverleaf)	pink	5	6	6	9	4	4	4	RW
Plants for rich, leafmold of the woodland	garden. Native t	o rocky	hills	ides and	dry woo	ds. Fuzz	zy flov	ver ste	ms arise
from clump of old foliage, new leaves later					-				
Herniaria glabra (Rupturewort)	green	4	5	1	10	8	6	6	GR
Minuscule leaves form filmy mat of vegeta	ition for a sunny	spot. (Great	for troug	hs. Good	d groun	d cove	r. Lea	ves are
bronze-red in winter. Green flowers. Caryo				Ü		O			
Heuchera bracteata (Alumroot)	green	5	6	, 6	8	6	5	6	R
Forms dense mats. Likes to be planted in r	ock crevices. Le	aves are	sha	rply poin	ted and	persiste	nt. Lea	ves tu	rn bright red
in fall. A Colorado montane native. Saxifra				1 7 1	1				0
Heuchera hallii (Alumroot, Hall's)	white	5	6	8	3	6	7	6	R
Tiny alumroot for cool, dry exposures. Sax	ifragaceae.								
Heuchera sanguinea 'Alba' (Coral Bells, White)		6	8	12	12	5	5	6	BR
Mounds of dark green leaves. Bears dainty		spikes.	Saxif	ragaceae.	'Splende	ens' Vig	orous	, deep	crimson
selection.		4		O					
Hieracium villosum (Devil's Paintbrush)	double yel	llow 6	7	12	12	7	6	8	R
Densely hairy gray leaves and rich golden				mer. Aste	eraceae.				
Hosta 'Gold Drop' (Plantain Lily)	lavender	7		8	12	4	4	4	R
For shade or moist places in sun. Nearly he	eart shaped leav	es of u	nusu	al light go	lden gre	en colo	r. Lilia	ceae.	
Hosta 'Rock Princess' (Plantain Lily)	lavender	7		6	12	4	4	4	R
For shade or moist places in sun with dark	heart shaped le	aves. L	iliace	eae.					
Hosta venusta (Plantain Lily, Dwarf)	purple	7		7	12	4	4	4	R
KEY	Sun (1=full s	hade; 9=	=full s	sun) Soil (1=peat, 9	=clay) V	Vater (1=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good									
, ,	G= Groundco								dry areas
			- 0				9		-

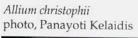
	Fl. Color				Width	Sun	Soil W	ater	Type
For shade or moist places in sun with very si	nall leaves. L	ight pur	ple flov	vers. L	iliaceae.				
Houttuynia cordata 'Chameleon' (Chameleon)	white	5	6	12	20	6	4	4	R
Fascinating multi-hued leaves and white but	ton-like bloss	soms. Lo	ves mo	isture	and sprea	ds reac	lily. Blo	oms a	ll summer.
Saururaceae. Hymenoxys acaulis (Sunflower, Woolly Alpine)	vellow	5	6	10	8	8	7	7	NR
Widespread native daisy blooms for much o					ensable. A	sterace	ae.		
Hymenoxys argentea (Mat Perky Sue)	yellow	7		4	12	8		8	RX
Stunning in rock gardens. Creeping plant wi in fall. Asteraceae.		ves. Yel	low dais	sy flow	ers. Full s	sun, dry	y soil. N	lay re	peat bloom
Hypericum cerastioides (H. rhodopeum, St John's Wort) yellow	5	6	6	18	7	7	7	R
Low mounds of soft hairy gray foliage and p	retty golden	flowers.	Care fr	ee. Hy	pericacea	e.			
Hypericum reptans (St John's Wort, Creeping)	mixed	5	8	3	10	8	7	7	R
Mats of tiny dark-green foliage and brassy y	ellow suns. F	Iyperica	ceae.						
Iberis saxatilis (Candytuft)	white	4	5	3	10	8	7	7	R
Abundant snow white flowers. Lowest grow	ing. Native t	o centra	l Europe	e. Bras	sicaceae.				
Iberis sempervirens (Candytuft, Evergreen)	white	4		10	14	8	7	7	BER
Glaring white flowers over dark green mour abundant flowers. Native to S. Europe. Brass		ioned fa	vorite, s	till a s	tandard. E	Evergre	en folia	ge, w	oody stems,
Iberis sempervirens 'Autumn Snow' (Candytuft)	white	4	.5	10	14	8	7	7	BER
Autumn reblooming variant of this classic ga	arden plant. I	Brassica	eae.						
Incarvillea delavayi (Gloxinia, Hardy)	rose	6	7	12	10	6	4	4	R
Bright rosy trumpet flowers. Ferny foliage. N	Moist shade. I	Bignonia	ceae.						
Incarvillea sinensis (Gloxinia, Hardy)	pink	6	7	10	10	8	6	6	R
Delightful, tough species thrives with heat a	nd sun. Very	showy.	Bignoni	aceae.					
Inula ensifolia (Sunflower, Caucasian)	yellow	6	9	12	15	8	6	6	R
Lovely dome of golden bloom in midsumme				2	4	-		_	822
Iris cristata (Iris, Crested)	blue	6	6	6	6	5	5	5	R
A woodland dwarf with a running habit in le						_	_	_	-
Iris gracilipes 'Alba' (Iris, Graceful)	white	5	5	6	6	5	5	5	R

eeds ac	cid soil	R l. R
		1/
6 6	6	R
4 3	3	BEGR
ally in	n moist,	, organic
5 6	6	BR
er wit	th deco	orative
ins. 'W	White N	Nancy', as
7 7	7	B DFHRX
n of ga	arden l	lavender.
O	,	
6 6	6	R
vhite fl	flowers	. Gray
6 6	6	RG
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	6 1	R
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t bloom	ms;	
6 N 6	vet. I ears a er (1=	et. Pink to

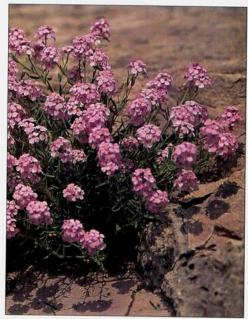
pink es. Magnific purple . Common violet paginaceae. lavender	7	nt for ro	10 prooted 12	5	8	8	6 8 t. Silver 7	R BCDNRX ry foliage. R
purple Common violet paginaceae. lavender	7 on prain 7	9 ries. Tap 8	10 prooted 12	5 , very dro	8 ought to	8 oleran	t. Silver	ry foliage.
violet paginaceae. lavender	on prain	ries. Tap 8	prooted 12	, very dro	ought to	oleran	t. Silver	ry foliage.
violet paginaceae. lavender	7	8	12		5.22			
aginaceae. lavender	7 6			10	8	5	7	R
aginaceae. lavender	7 6			10	8	5	7	R
lavender	6	7						4.47.55
	6	7						
LL		,	10	8	8	6	7	R
1-1								
blue	4	6	10	6	8	7	7	RX
yellow	5	7	12	8	8	7	6	RX
iceae.								
yellow	5	6	10	15	8	7	7	R
yellow	5	6	8	10	8	7	7	BR
	tes than	commo	on Flax	. Linaceae				
re)	blue	5	7	10	10	8	7	6
pink	4	5		10	3	4	5	R
	ot region	ns. Erica						
	4	5			,	6	6	R
	y spells	in sumi	mer. U	mbellifera	ie.			
	6	8	8	7	6	6	5	R
ummer. Car	yophyl	laceae.						
rose	4	5	12	8	7	6	6	R
	omer. C	aryoph		e.				
yellow	5	6	12	14	7	7	8	GRX
	yellow yellow eener rosett re) pink enging in ho yellow Colerates dry Scarlet ummer. Car rose Tough custo	yellow 5 ceae. yellow 5 yellow 5 eener rosettes than re) blue pink 4 enging in hot region yellow 4 Tolerates dry spells Scarlet 6 cummer. Caryophyl rose 4 Tough customer. C yellow 5	yellow 5 7 ceae. yellow 5 6 yellow 5 6 eener rosettes than common te) blue 5 pink 4 5 enging in hot regions. Erical yellow 4 5 Colerates dry spells in summary Scarlet 6 8 ammer. Caryophyllaceae. rose 4 5 Tough customer. Caryophyellow 5 6	yellow 5 7 12 ceae. yellow 5 6 10 yellow 5 6 8 eener rosettes than common Flax re) blue 5 7 pink 4 5 2 enging in hot regions. Ericaceae yellow 4 5 10 Colerates dry spells in summer. Un Scarlet 6 8 8 ammer. Caryophyllaceae. rose 4 5 12 Tough customer. Caryophyllacea yellow 5 6 12	yellow 5 7 12 8 Acceae. yellow 5 6 10 15 yellow 5 6 8 10 eener rosettes than common Flax. Linaceae re) blue 5 7 10 pink 4 5 2 10 enging in hot regions. Ericaceae yellow 4 5 10 12 Tolerates dry spells in summer. Umbelliferat Scarlet 6 8 8 7 ammer. Caryophyllaceae. rose 4 5 12 8 Tough customer. Caryophyllaceae. yellow 5 6 12 14	yellow 5 7 12 8 8 yellow 5 6 10 15 8 yellow 5 6 8 10 8 eener rosettes than common Flax. Linaceae. 10 10 pink 4 5 2 10 3 enging in hot regions. Ericaceae 10 12 7 Folerates dry spells in summer. Umbelliferae. Scarlet 6 8 8 7 6 ammer. Caryophyllaceae. 12 8 7 7 Tough customer. Caryophyllaceae. 12 8 7 Tough customer. Caryophyllaceae. 12 14 7	yellow 5 7 12 8 8 7 yellow 5 6 10 15 8 7 yellow 5 6 8 10 8 7 yellow 5 6 8 10 8 7 eener rosettes than common Flax. Linaceae. 10 10 8 pink 4 5 2 10 3 4 enging in hot regions. Ericaceae yellow 4 5 10 12 7 6 Colerates dry spells in summer. Umbelliferae. Scarlet 6 8 8 7 6 6 ummer. Caryophyllaceae. rose 4 5 12 8 7 6 Tough customer. Caryophyllaceae. yellow 5 6 12 14 7 7	yellow 5 7 12 8 8 7 6 yellow 5 6 10 15 8 7 7 yellow 5 6 8 10 8 7 7 yellow 5 6 8 10 8 7 7 eener rosettes than common Flax. Linaceae. 7 10 10 8 7 pink 4 5 2 10 3 4 5 enging in hot regions. Ericaceae yellow 4 5 10 12 7 6 6 Folerates dry spells in summer. Umbelliferae. Scarlet 6 8 8 7 6 6 5 ummer. Caryophyllaceae. 7 6 6 5 6 7 6 6 Tough customer. Caryophyllaceae. 7 6 6 6 6 6 7 6 6



Adonis vernalis photo, Panayoti Kelaidis







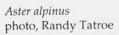
Aethionema grandiflorum photo, Randy Tatroe

Androsace villosa photo, Panayoti Kelaidis





Anemone blanda photo, Panayoti Kelaidis





198 ROCK GARDEN QUARTERLY VOL. 54(3)



Aubrieta deltoides photo, Randy Tatroe

Aurinia saxatile photo, Randy Tatroe

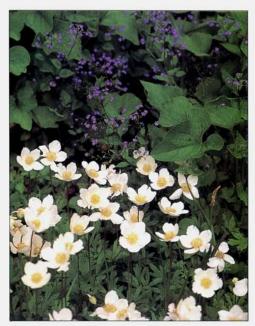




Bergenia ciliata photo, Panayoti Kelaidis







Anemone sylvestris photo, Randy Tatroe

Centaurea uniflora photo, Panayoti Kelaidis





Chrysanthemum weyrichii photo, Panayoti Kelaidis



Coreopsis auriculata 'Nana' photo, Panayoti Kelaidis

Delosperma cooperi

Corydalis solida 'George Baker' photo, Panayoti Kelaidis

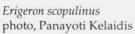


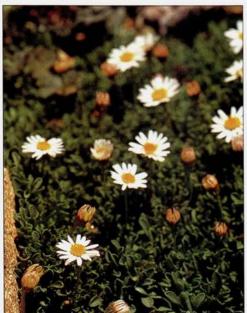
200 ROCK GARDEN QUARTERLY VOL. 54(3)





Delosperma nubigenum photo, Randy Tatroe

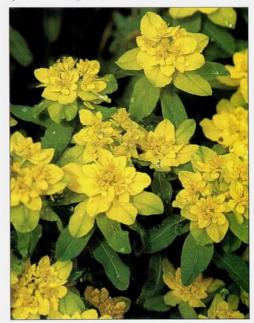






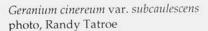
Epimedium alpinum photo, Panayoti Kelaidis

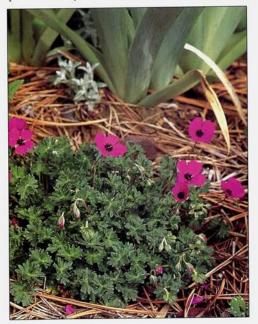
Euphorbia epithymoides (syn. polychroma) photo, Randy Tatroe





Fritillaria pallidiflora photo, Panayoti Kelaidis





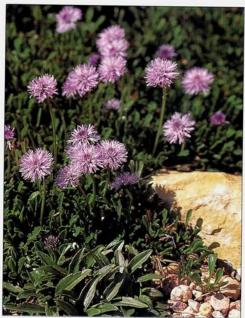
202 ROCK GARDEN QUARTERLY VOL. 54(3)



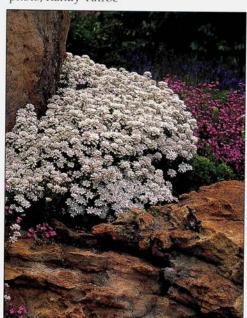
Geranium x 'Ballerina' photo, Panayoti Kelaidis

Gentiana scabra photo, Randy Tatroe











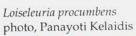
Hacquetia epipactis photo, Panayoti Kelaidis

Lamium maculatum 'White Nancy', Geranium macrorhizum; photo, Randy Tatroe



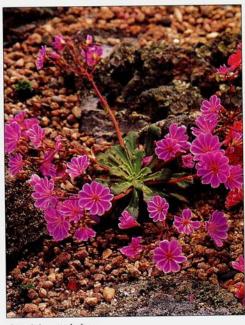


Lamium maculatum 'Shell Pink' photo, Randy Tatroe



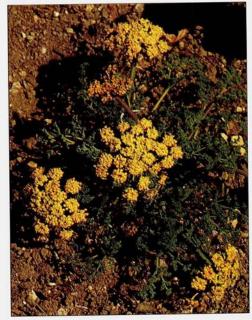


204 ROCK GARDEN QUARTERLY VOL. 54(3)



Lewisia cotyledon photo, Randy Tatroe

Lomatium dissectum photo, Randy Tatroe

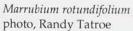




Linum capitatum photo, Randy Tatroe



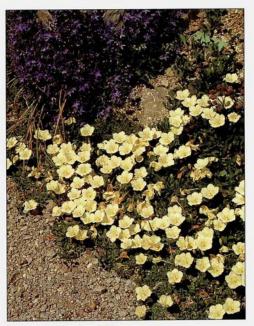
Lychnis x *arkwrightii* 'Vesuvius' photo, Randy Tatroe





Nepeta mussinii photo, Randy Tatroe

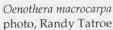




Nierembergia rivularis photo, Panayoti Kelaidis



Omphalodes verna photo, Randy Tatroe

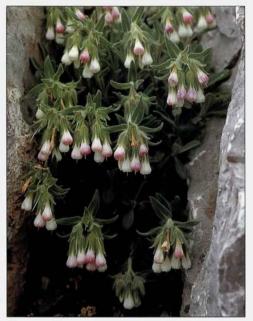




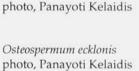
206 ROCK GARDEN QUARTERLY VOL. 54(3)

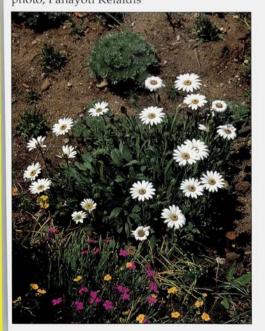
Oenothera speciosa photo, Randy Tatroe

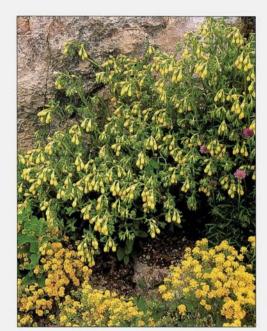




Onosma alboroseum photo, Panayoti Kelaidis







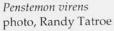
Onosma echioides photo, Randy Tatroe

Oxalis 'Ione Hecker' photo, Panayoti Kelaidis





Papaver nudicaule photo, Randy Tatroe



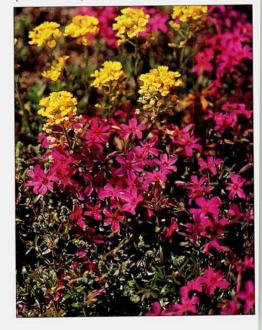


208 ROCK GARDEN QUARTERLY VOL. 54(3)



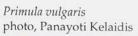
Papaver alpinum photo, Randy Tatroe

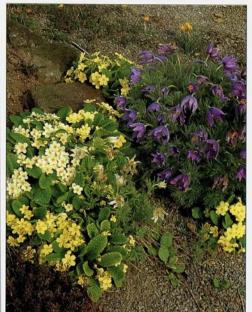
Phlox subulata photo, Randy Tatroe





Primula denticulata photo, Randy Tatroe

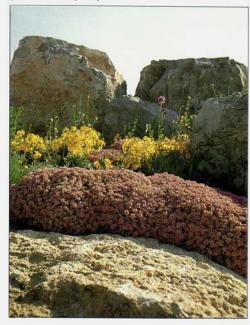


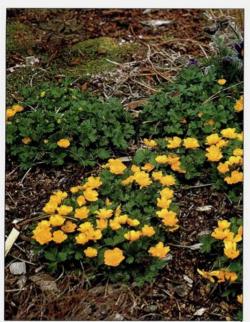




Primula veris photo, Randy Tatroe

Ptilotrichum spinosum photo, Sandy Snyder





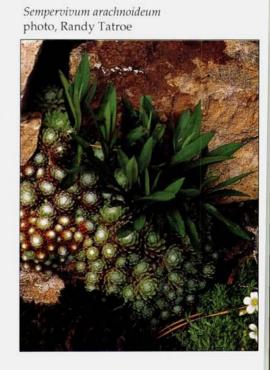
Ranunculus montanus 'Molten Gold' photo, Sandy Snyder



Salvia argentea and Petunia integrifolia photo, Randy Tatroe

Ruta graveolens, Santolina virens photo, Randy Tatroe





210 ROCK GARDEN QUARTERLY VOL. 54(3)



Silene alpestris photo, Panayoti Kelaidis



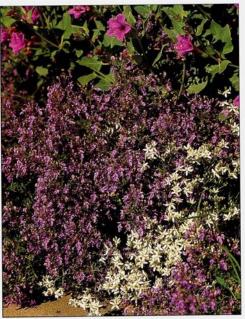




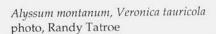
Sphaeralcea munroana photo, Randy Tatroe

Thymus necefii photo, Panayoti Kelaidis



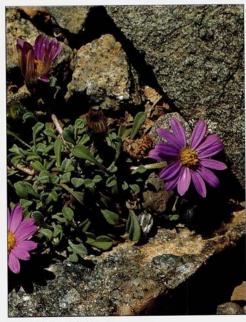


Teucrium orientale photo, Randy Tatroe





212 ROCK GARDEN QUARTERLY VOL. 54(3)



Townsendia alpigena photo, Panayoti Kelaidis

Veronica liwanensis, Sempervivum photo, Randy Tatroe



Blue fruit. Berberidaceae.									
Marrubium rotundifolium (Horehound, Silver)	silver	6	7	4	12	8	8	8	R
Evergreen mats of silvery foliage make fine	e crevice plant.	Good fo	or the	rock gar	den. Lab	iatae.			
Mazus reptans (Mazus)	lavender	6	7	1	10	7	4	4	GR
Fast spreader for moist, cool soils. Splendic	l between flags	tones ir	shac	ded areas	. Withsta	nds ligh	ht traf	fic.	
Scrophulariaceae.									
Meconopsis cambrica (Poppy, Welsh)	orange	5	6	12	6	5	5	5	R
Easily grown almost anywhere. Showy por	pies all summe	er. Can	becor	ne somev	what wee	dy. Par	oavera	ceae.	
Meconopsis horridula (Poppy, Spiny Blue)	blue	4		10	6	5	5	5	R
Spiny leaves and stems with heavenly sky	blue flowers. Su	iperb ii	n high	ner altitud	des. Papa	veracea	ie.		
Melampodium leucanthum (Daisy, Blackfoot)	white	7		10	10	8	8	8	NRX
Everblooming, neat native daisy for hot spo	ots. Useful in pa	arkway	s and	borderin	ig sidewa	alks. We	ell-dra	ined s	oil.
Asteraceae.	•								
Mertensia alpina (Bluebells, Alpine)	blue	4	5	3	6	7	6	5	R
Tiny fragrant alpine mound for the cool scr	ee. Boraginacea	ie.							
Mertensia lanceolata (Languid Lady)	blue	4	6	12	8	7	6	6	R
Native, dryland bluebells with narrow, gla-	ucous leaves. Bo	oragina	ceae.						
Mimulus guttatus (Monkeyflower)	yellow	5	7	3	8	7	4	3	RW
Vivid, yellow flowers over a long season. F	or moist spot in	sun oi	shad	le. Scroph	nulariace	ae.			
Mimulus primuloides (Monkeyflower)	yellow	5	7	2	12	6	4	4	RW
Neat little species from California. Spreads yellow flowers. Scrophulariaceae.	gently by runn	ers wit	hout l	being a n	uisance.	Protect	from	full sur	n. 2" stems of
Minuartia caucasica (Sandwort, Caucasian)	white	3	6	3	8	8	6	5	R
Sunny rock garden. Low mounds studded								0	10
Minuartia kashmirica (Sandwort, Kashmir)	white		6	3	7	8	6	6	R
Low mat of deep green needles topped with			100		Garden			100	
Monardella odoratissima (Bergamot, Fragrant)	lavender	7		10	10	8	7	7	FHNR
Extremely variable native Mint. The best fo					0.000	er. Lam	iaceae	2.	
KEY	Sun (1=full sl								9=drv)
Type (A=Architectural interest, B=Border; C=good c									11
	G= Groundco								dry areas
			-			- 1	0		*

Scientific Name (Common Name)	Fl. Color	Bloo	m time	Ht.	Width	Sun	Soil	Water	Type
Nepeta amethystina (Catmint, Cutleaf)	lavender	7	9	10	12	7	5	6	BHR
Deeply cut leaves and deep blue spires of f	lowers in late s	ummer	. Labiata	ae.					
Nepeta concolor (Catnip)	lavender	6	10	10	15	8	8	8	EGRX
Decorative and restrained groundcover for	hot spots. Extr	emely	tough ev	vergree	n clumps	with b	lue flo	wers a	ll summer.
Labiatae.		-							
Nepeta mussinii (Persian Catmint)	lavender	6	9	10	18	8	7	7	BGRX
Sun or shade. Fast spreading groundcover	for practically a	ny spo	t. Not fo	or choic	ce spots. I	oor to	avera	ge soil.	Nice for the
border. Downy gray foliage. Labiatae.		7 7			7.				
Nepeta phyllochlamys (Catnip, Cushion)	pink	6	8	8	10	8	7	8	ERX
Good for the sunny rock garden, walls. Pal	e pink flowers	produc	ed all su	ımmer.	Corruga	ted eve	rgreei	n leaves	. Attractive
habit. Labiatae.									
Nepeta x fassenii 'Snowflake' (Catmint, Persian)	white	- 5	7	10	20	8	7	7	R
Wonderful white variation of everblooming	g Catmint. Labi	atae.							
Nierembergia rivularis (Silver cups)	white	6	8	2	10	7	5	5	R
Wonderful white cups much of the summe	r. Superb betwe	een ste	oping st	ones. S	olanaceae	e.			
Oenothera caespitosa (Evening Primrose)	white		7	10	14	8	8	8	NFRX
Attracts hawkmoths. 3-4" fragrant flowers	open in afterno	on Flo	wer fade	es to pi	nk. Bloon	ns all su	umme	r. Gray-	green,
fuzzy leaves. Requires well-drained soil. O									
Oenothera macrocarpa (Syn. O.missouriensis (Eve. P				7	8	12	8	7	7BRX
Fragrant, canary yellow flowers; day-bloor well-drained soil; dry. Long lived. Onagrac		g crims	on stem	s. Fasci	nating gi	ant see	dpods	. Sun, li	ight gravely
Oenothera speciosa (Evening Primrose, Summer)	pink	6	9	10	20	8	7	7	BRX
Vigorously spreading mats with pearly pir	k fls. all summ	er. Ona	graceae						
Omphalodes verna (Blue Eye Mary)	blue		5	5	18	4	5	5	R
Bright blue forget-me-nots over neat mats	of lancolate If. E	Boragin	aceae						
Onosma alboroseum (Lady's Eardrop)				12	8	8	7	7	R
Sunny rock garden. Frosted silvery foliage	produces white	trump	ets that	turn re	ose. Choic	ce. Bora	iginac	eae.	٠
Onosma echioides (Lady's Eardrop, Yellow)	yellow	6	7	12	8	8	7	7	R
Long blooming spires of nodding yellow tr	umpets. Bristly	hairs	on stems	s and If	irritate s	ome pe	ople.	Boragin	aceae.

om season. Even between hop 3 1 er foliage. Ye	8 8 p-like bracts 0 8 llow candle 5 6 7	7 s. Labia 7 es of blo 6 7	8 atae. 6 com in 6	R R
om season. Every	vergreen ma 8 8 p-like bracts 0 8 Illow candle 5 6 6 7 0 8	7 s. Labia 7 es of blo	8 stae. 6 coom in 6	R R late sum-
9 1 between hop 3 1 er foliage. Ye 10 1 3 Oxalidaceae. 8 1	8 8 p-like bracts 0 8 llow candle 5 6 7	7 s. Labia 7 es of blo 6 7	8 atae. 6 com in 6	R R late sum-
between hop 3 1 er foliage. Ye 10 1 3 Oxalidaceae. 8 1	o-like bracts 0 8 Illow candle 5 6 7 0 8	s. Labia 7 es of blo 6 7 6	tae. 6 5 5 6 7	R late sum-
between hop 3 1 er foliage. Ye 10 1 3 Oxalidaceae. 8 1	o-like bracts 0 8 Illow candle 5 6 7 0 8	s. Labia 7 es of blo 6 7 6	tae. 6 5 5 6 7	R late sum-
3 1 er foliage. Ye 10 1 3 Oxalidaceae. 8 1	0 8 Illow candle 5 6 7 0 8	7 es of blo 6 7 6	6 500m in 6 7	late sum-
er foliage. Ye 10 1 3 Oxalidaceae. 8 1	llow candle 5 6 7 0 8	es of blo	6 7	late sum-
10 1 3 Oxalidaceae. 8 1	5 6 6 7 0 8	6 7 6	6 7	R
3 Oxalidaceae. 8 1	6 7 0 8	7	7	
Oxalidaceae. 8 1	0 8	6		R
Oxalidaceae. 8 1	0 8	6		R
8 1			0	
8 1			0	
			8	BNRX
		ious to	livesto	ck. Dry,
12	8 8	8	8	RX
e. Great in Xe		_		
	4 8	6	6	R
pink, yellow		77		77.7
pint, jenon	or orange i	iowers.	Luiiy	Dicomer.
6	3 7	6	6	R
oliage. Native				
	6 8	7	7	BER
12				9=dry)
	eat, 9=clay)	Water (1=wet,	>- CLI Y /
			12 6 8 7	12 6 8 7 7 sun) Soil (1=peat, 9=clay) Water (1=wet,

Scientific Name (Common Name)	Fl. Color	Bloor	n time	Ht.	Width	Sun	Soil	Water	Type
True blue spires of bloom in early summer. I	Long-lived and	d adapt	able. So	crophu	lariaceae.				
Penstemon ambiguus (Penstemon, Phlox)	white	6		12	7	9	8	8	DRX
Brown seedpods for flower arrangements. R	equires sandy	, well-d	rained	soil. L	acy, sprea	ding cl	umps.	Native	to grass-
lands and dry washes. Scrophulariaceae.									
Penstemon angustifolius (Penstemon, Robin's Egg)	blue	6		10	5	9	8	8	RX
Narrow, gray leaves topped with aquamarin	e flowers in n	nid spri	ng. Sur	erlativ	e native. S	Scroph	ularia	ceae.	
Penstemon caespitosus (Penstemon, Mat)	blue	4		1	8	8	7	8	ERX
Neat ever-gray mats with showy, aquamarir	ne flowers just	above	the folia	age. Xe	eriscape or	sunny	slope	. Nativ	e to
Colorado and Wyoming. Scrophulariaceae.									
Penstemon cardwellii (Penstemon, Cascade)	lavender	4	5	10	18	6	6	6	R
Shrubby penstemon for cool soils in part sur	. Superb in m	ountair	s. Brig	ht lave	nder flow	ers. Scr	ophul	ariacea	e.
enstemon davidsonii (Penstemon, Davidson's)	purple	4	5	1	8	7	6	6	R
Succulent mats studded with bright lavende	r trumpets. Tl	hick firr	n leave	s. Larg	e rose-pui	rple flo	wers.	A gem	of the
genus. Scrophulariaceae.	•					*			
Penstemon davidsonii ssp. menziesii (Beard-Tongue)	purple	4	5	6	10	6	6	5	R
Semi-woody plant has small gray-green flesh mon. Scrophulariaceae.	h leaves. Flow	ers are	deep p	ink to p	purple. Ar	n excep	tional	shrubb	y penste-
Penstemon eriantherus (Penstemon, Hairy)	lavender	6	7	4	2	8	7	8	NPRX
Leaves covered with sparkling hairs. Large,									
native. Good for troughs. Scrophulariaceae.	105c-lavelluei	nower	5 WILLIE	speckie	S. I TOITHIT	ent, ye	now to	nigue. v	colorado
Penstemon heterophyllus v purdyi (Penstemon, Purdy	v's) blue	5	8	10	12	7	7	7	R
Mounds covered with turquoise trumpets in	spring Supe					hulari:		,	K
enstemon hirsutus 'Pygmaeus' (Penstemon, Pygmy	v) violet/pu	role 5	6	4	10	6	5	6	R
Abundant lavender flowers with white tips.	Self sows read	dily Be				-	-		
Scrophulariaceae.	con cows read	any. De	addital	arrair	vuilety. 11	tilucti v	cica	Breen I	onuge.
Penstemon linarioides (Penstemon, Toadflax)	lavender	5	7	10	12	7	7	8	NRX
Spikes of flowers, mounding growth habit. S							60	100	
soil. Snapdragon-like flowers; early bloomer	. Scrophularia	aceae. V	ariety	colorado	pensis, abs	solutely	drou	ght tole	rant.
Penstemon nitidus (Penstemon, Blue Spring)	blue	3	5	12	3	8	7	8	BRX
1 0/									

Sky blue flowers in early spring. Needs lime	and good draina	ige.	Succu	lent blue	rosettes. S	Scroph	ularia	ceae.	
Penstemon pinifolius (Penstemon, Pine-leaf)	red	6	9	10	15	8	7	7	DGRX
Constant succession of orange red flowers. Br	right green, need	lle-l	ike lea	ves. Hur	nmingbird	ds love	e this.	Likes	any soil in
full sun or partial shade. Scrophulariaceae. 'N	Mersea Yellow' P	ure	yellov	v mutatio	on.				•
Penstemon rydbergii (Penstemon, Rydberg's)	blue	5	6	12	8	7	6	6	R
Clusterhead, bright blue penstemon for mois	t sun or part sha	de.	Easily	grown. S	crophulai	riaceae	2.		
Penstemon teucrioides (Penstemon, Germander)	blue		6	1	8	7	6	6	R
Green mats with bright blue trumpets. Linear	r foliage. Large b	lue	to pur	ple flow	ers with w	hite th	hroats	. Scrop	hulariaceae.
Penstemon virens (Penstemon, Blue Mist)	lavender5	6	1	8	7	6	6	R	Clouds of
lavender, bell like bloom. Easy in scree. Scrop	hulariaceae.								
Petrophytum caespitosum (Spiraea, Rock)	white	7	7	4	6	6	6	6	R
A miniature shrub that forms a mat. Covers r	ocks when plant	ted i	in a cre	evice. Ros	saceae.				
Petrophytum cinerascens (Spiraea, Rock)	white	7	7	4	12	6	6	6	R
A miniature shrub forming a mat that covers	rocks well. Rosa	icea	e.						
Petrorhagia saxifraga 'Double White' (Tunic Flower)	white	8	8	-8	18	8	7	7	R
Easy summer flowering alpine, perfect for an	y sunny spot. Pi	are v	white o	double fle	owers. Ca	ryoph	yllace	ae. 'Ro	sette' Pure
pink double flowers.						5 0			
Phacelia sericea (Purple Fringe)	purple	4	6	10	8	8	7	7	R
Long stamened alpine very easy to grow in st	unny scree. Hyd	rop	hyllace	eae.					
Phlox adsurgens (Phlox, Siskiyou	pink	6	7	3	12	6	5	5	R
Woodland plant. Large bicolor flowers of glo	wing salmon-pii	nk, o	deeper	midvein	. One of the	he bes	t. Pole	monia	ceae.
Phlox bifida (Prairie Phlox)	white /violet	5	6	6	12	4	4	5	RFW
Utterly distinct, cleft blossoms for a long seas	on.								
Phlox divaricata (Phlox, Woodland)	blue	5	6	10	8	5	5	5	BGRW
Trailing habit; oval leaves, creeping undergro									
stems. Sun, open shade, sandy soil, dry. Poler									
White', vivid white stars, fine woodlander for									
Cut back after flowering. 'Chatahoochee', dee									
KEY	Sun (1=full shad								9=dry)
Type (A=Architectural interest, B=Border; C=good cut									
	G= Groundcover	; r=r	ock ga	rden; W=	Woodland	l plant	; X=go	od for	dry areas

Scientific Name (Common Name)	Fl. Color	Bloom time	Ht.	Width	Sun	Soil	Water	Type
Phlox (Phlox, Mexican)	various	5 10	10	12	8	7	6	BR
'Arroyo', cerise blossoms the size of a	quarter. The largest	and most vigo	rous of	the Mex	ican phl	oxes.	Rich de	ep pink
flowers with yellow eyes. Wide branch	ning habit. Polemon	niaceae. 'Mary I	Maslin'	, Chinese	red flow	vers f	or well-	drained
scree. Finest selection of the Mexican I	Phlox family. 'Paul !	Maslin', large, o	clear, le	mon-yell	ow flow	ers w	ith eye	ring
formed by purple "V" at the base of ea	ich petal. 'Vanilla',	white stars ove	r neat r	nounds a	ll sumn	ner. Si	uperlati	ve rock ga
den plant.	5							
Phlox procumbens 'Millstream Pink' (Phlox, C	reeping) pink	4 5	3	15	8	7	7	GR
Deep green mats smothered with clear	pink stars. The Bes	st Pink. Strong	compa	ct grower				
Phlox stolonifera 'Blue Ridge' (Phlox, Running		5 5	6	12	5	5	5	EGR
50-year-old variety. Large sky blue flo	wers. Evergreen. Fu	ızzy green leav	res. Pol	emoniace	ae. 'Pin	k Rid	ge', like	s a woods
soil that doesn't flood or dry out, with	a little shade. An e	xcellent ground	d cover	under tre	ees and	shrub	s, creep	ing habit.
Phlox subulata (Phlox, Creeping)	mixed	4 5	2	12	7	6	6	BGR
Easily grown. Needle-like, semi-everg	reen leaves. Perfect	ground cover,	spread	s rapidly	Prefers	dry,	well-dr	ained soil
Shear back after flowering. Polemonia								
leaves. Forms a dense ground cover. '1								
with deep purple hearts. Showy displa								
shaped flowers with red eye. 'Emeralo								ik flowers
(AII : D 1: 1 ./ 1 ./	te flowers moderat	to sime mlant Of	than ave	collant wa	rieties ii	aclud		
vigorous grower. 'White Delight', whi			mer exc	enem va		iciaa	e 'Mills	
Jupiter', lg. lavender fls; 'Millstream D	Daphne', lg. pink fls;	;						ream
Jupiter', lg. lavender fls; 'Millstream D Phlox x stolonifera 'Blue Ridge' (Phlox, Runni	Daphne', lg. pink fls; ng) blue	; 5 5	6	12	6	5	5	ream G E R
Jupiter', lg. lavender fls; 'Millstream D Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo	Daphne', lg. pink fls; ng) blue	; 5 5	6	12	6	5	5	ream G E R
Jupiter', Ig. lavender fls; 'Millstream D Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae.	Daphne', lg. pink fls; ng) blue wers; evergreen, fu:	; 5 5 zzy green leave	6	12 s woodsy	6	5	5 wet or o	ream GER dry, a little
Jupiter', Ig. lavender fls; 'Millstream D Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine)	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow	; 5 5 zzy green leave 3 4	6 es. Like 1	12 s woodsy 4	6 soil, no	5 ot too 7	5	ream G E R
Jupiter', Ig. lavender fls; 'Millstream D'Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine) Silvery starfish produces large, orange	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow e flowers in early sp	; 5 5 zzy green leave 3 4 oring. Choice na	6 es. Like 1 ative al	12 s woodsy 4 pine. Bras	6 soil, no 7 ssicacea	5 ot too 7 e.	5 wet or 6	GER GER dry, a little R
Jupiter', Ig. lavender fls; 'Millstream D Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine) Silvery starfish produces large, orange Physaria dornii (Twinpod, Dorn's)	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow e flowers in early sp yellow	5 5 zzy green leave 3 4 oring. Choice na 3 5	6 es. Like 1 ative al	12 s woodsy 4 pine. Bras 4	6 soil, no 7 ssicacea 8	5 ot too 7	5 wet or o	ream GER dry, a little
Jupiter', Ig. lavender fls; 'Millstream D'Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine) Silvery starfish produces large, orange Physaria dornii (Twinpod, Dorn's) Recently described desert species with	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow e flowers in early sp yellow n spectacular bloom	5 5 zzy green leave 3 4 pring. Choice na 3 5 a. Perfect for tro	6 es. Like 1 ative al 2 oughs. I	12 s woodsy 4 pine. Bras 4 Brassicace	6 soil, no 7 ssicacea 8 ae.	5 ot too 7 e. 8	5 wet or 0 7 8	GER GER dry, a little R
Jupiter', Ig. lavender fls; 'Millstream D'Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine) Silvery starfish produces large, orange Physaria dornii (Twinpod, Dorn's) Recently described desert species with Platycodon grandiflorus v nanus (Balloon Flow	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow e flowers in early sp yellow n spectacular bloom yer) blue	5 5 zzy green leave 3 4 pring. Choice na 3 5 a. Perfect for tro 7 8	6 es. Like 1 ative al 2 oughs. I	12 s woodsy 4 pine. Bras 4	6 soil, no 7 ssicacea 8	5 ot too 7 e.	5 wet or 6	GER GER dry, a little R
Jupiter', Ig. lavender fls; 'Millstream D'Phlox x stolonifera 'Blue Ridge' (Phlox, Runni 50-year old variety. Large sky blue flo shade. from E. USA. Polemoniaceae. Physaria alpina (Bladderpod, Alpine) Silvery starfish produces large, orange Physaria dornii (Twinpod, Dorn's) Recently described desert species with	Daphne', lg. pink fls; ng) blue wers; evergreen, fu: yellow e flowers in early sp yellow n spectacular bloom yer) blue	5 5 zzy green leave 3 4 pring. Choice na 3 5 a. Perfect for tro 7 8	6 es. Like 1 ative al 2 oughs. I	12 s woodsy 4 pine. Bras 4 Brassicace	6 soil, no 7 ssicacea 8 ae.	5 ot too 7 e. 8	5 wet or 0 7 8	GER GER dry, a littl R R

lemonium reptans (Jacob's Ladder)	hluo	4	6	10	10	7	5	5	R
Flowers of bright blue with prominent or	blue		1000	17.7	1,771,771			~	7.5
Polemoniaceae.	ange stamens.	valive to	USA.	rioni op	en wood	nanus i	n the e	east an	a mawest.
tentilla argyrophylla v. atrosanguinea (Cinquefo	il Corlot)	red	5	6	12	8	9	6	6
R Powdery white strawberry leaves prod									
tentilla cinerea (Cinquefoil)	vellow	6	u star	2	12	y summ 7	7	7	R.
Prostrate silver-leafed creeper. Forms a ca						50	-/-	7	K
tentilla fragiformis (megalantha) (Cinquefoil, St.				6	1. Rosace	6 6	9	6	6
R Densely hairy clumps of coarse, attract							7	0	O
tentilla hippiana (Cinquefoil, Horse)	yellow	e yenow	7	15 in spi1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 8	7	7	RX
Silvery, ferny rosettes. Many spikes of ye							/	,	K A
tentilla tabernae-montana (Cinquefoil, Carpet)	yellow		6	2 2	15	ae. 7	6	5	GR
Fast spreading mats of vivid green leaves						-	0	3	GK
		yenow :	6	3	10 Nos	aceae.	7	6	BER
tentilla tabernae-montana 'Nana' (Cinqfoil, Cus Slow growing mutant much better suited						hordor			
yellow flowers on low evergreen plants.		is. Dwai	1 com	Jact varie	ety. Idea	border	or be	ading	plant. brigi
tentilla tridentata (Cinquefoil)	white	6	7	5	24	7	4	7	R
Glossy-green, leafy mat with blood-red a		_				′	4	,	K
imula 'Peter Klein' (Primrose, Peter Klein)	pink/wł			10	e. 5	5	5	4	R W
Hybrid of P. rosea and P. clarkei. Easily g							3	4	IX VV
imula abschasica (Primrose, Abschasian)	purple	3	5	3	7	5	5	5	R W
Extremely vigorous and showy relative of					*			3	IC VV
imula auricula (Primrose, European Alpine)	mixed	4	5 5	6	8 8	5	6	5	EFRW
Numerous showy, waxy flowers, leather				107		0.5	-		
are usually coated with farina. Primulace		ny leave	5. 1 10v	vers one-	sided, ii	agrant,	many	COIOIE	u. Leaves
imula cortusoides (Primrose)	pink	4	6	12	4	1	3	5	BRW
Wand-like spires of hot pink flowers for a			-		rardon I	Primula		3	DKW
Y								1	0d)
pe (A=Architectural interest, B=Border; C=good	Sun (1=full								9=ury)
pe (A=Architectural interest, b=border; C=good	G= Ground								2

rimula denticulata (Primrose, Drumstick)			m time	Ht.	Width	Juli	Jon	Water	Type
Vancation of the second of the	mixed	3	4	10	8	5	5	5	BRW
Very easily grown, for moist, cool expos		Spheri	cal head	ds of cr	owded flo	wers o	n stoi	ıt stems	before the
woolly leaves. From the Himalayas. Prin	nulaceae.								
rimula elatior (Oxlip,)	yellow	4	5	10	8	5	5	5	BRW
Very easily grown, long-lived plantPrim									
rimula frondosa (Primrose)		ole 4	5	5	5	5	6	5	R W
Lovely farinose rosettes. Pink lilac heads									
rimula juliae (Primrose, Julia's)	purple	4	5	2	6	5	5	3	RW
Tiny moisture loving mat former with vi	vid purple flower	rs. Used	for hy	bridiza	tion. Prim	ulacea	e.		
rimula marginata (Primrose, Margined)	blue	4	5	4	7	6	5	5	R W
Showy white-margined wavy foliage wi	th fragrant blue tr	umpets	s. Primi	ılaceae.					
rimula rosea (Primrose, Rosy)	rose	3	4	8	4	6	5	3	R W
Shocking, rose-pink flowers in earliest sp	oring. Likes moist	ure. Pri	mulace	eae.					
rimula saxatilis (Primrose, Siberian)	pink	5	6	12	8	5	5	5	R W
Chalk pink stars over serrate, oval, hairy	leaves. Peat lovir	ng prim	ula fro	m Siber	ia. Primul	aceae.			
rimula sieboldii (Primrose, Woodland)	pink	4		8	9	5	5	5	R W
Crinkled, oval foliage produces a mass of	of snowflake flower	ers. Ver	y hardy	and go	ood. Prim	ulaceae	2.		
rimula veris (Cowslip)	yellow	4	5	8	6	5	5	5	CFRW
Corrugated leaves and showy, nodding					delicate bl	lossom	s. Ide	al as a c	ut flower.
Not too much heat, humidity or drought	t; easy nevertheles	ss. Prim	ulaceae	е.					
rimula vulgaris (Primrose)	yellow	4	5	3	8	5	5	5	CFRW
Stemless primrose of English folklore an		laceae.							
runella grandiflora 'Loveliness' (Self-Heal, Lov		5	7	10	18	6	7	7	R
Superior selection of shade-loving Self-F	Ieal. Lamiaceae.								
runella laciniata (Self-Heal, Cutleaf)	pink	5	7	12	12	6	7	7	R
Extremely tough, adaptable Prunella blo			eason.	Lamiac	eae.				
silostrophe bakeri (Paper Flower)	yellow	5	9	12	10	9	9	8	NRX
Silvery rosettes by everlasting flowers. C Self-sows; no insect or disease problems.		osette i	n fall. P	eriodic	deep wat	ering p	rolon	gs bloo	m period.

Pterocephalus parnassii (Mat Scabiosa)	purple	5	6	3	18	7	7	7	R
Short furry foliage, somewhat silver. Stemle									
Ptilotricum spinosum 'Purpureum' Shrub Alyssum)		5		10	15	7	7	7	R,X
Dense cushion shrub with heavenly bloom.		d easy.	Cruc	iferae.					
Pulmonaria angustifolia (Lungwort)	blue	4	5	8	12	6	6	6	R
Piercing blue bells over slowly spreading m	ats bloom mud	ch of sp	oring.	Great wi	th yellow	primro	ses. B	Soragir	aceae.
Pulmonaria longifolia 'E. B. Anderson' (Lungwort)	violet	4	5	10	12	6	6	5	R
Deep blue trumpet blooms and richly mottle		ves. Bo	ragin	aceae.					
Pulmonaria montana (rubra) (Red Lungwort, Red)	red	5	5	8	12	5	5	5	R
Spring flowering plants for shade. Hairy lea	ves. Red-orang	ge flow	ers. B	oraginac	eae.				
Pulmonaria saccharata 'Mrs Moon' (Soldiers and Sai		4	5	12	12	3	5	4	BRW
Unusual leaves. Pink flowers turn blue with		aceae.							
Pulsatilla patens (Pasqueflower)	lavender	3	5	8	4	7	6	6	RX
Does well in dry, sandy soils. Native to open	n forests and sa	agebru	sh. Pa	le flower	s with lay	vender	tones.	Delica	ite, finely
divided leaves. Wispy white seedheads. Rar		.0						201100	,
Pulsatilla vulgaris (Pasqueflower, European)	purple	3	5	6	8	6	6	6	BRWX
Easily grown. Spreads quickly; remove seed	1 1								
leaves and woolly buds. Ranunculaceae.	neads to com			aononea,	do not d	iotaro.	intery	car 61	ay green
Ranunculus gramineus (Buttercup)	yellow	5	7	10	6	7	7	7	R
Slender stalks bear sprays of 1 in. shining ye		Any or	ond so				,	,	10
Ranunculus montanus 'Molten Gold' (Buttercup)	yellow	5		6	10	6	7	7	CR
Abundant late spring blooms of large round						-			
flower. Ranunculaceae.	ied nowers. De	iik cut	TOTTAR	e. Dwaii	, won is	neau. c	nisur	passeu	as a cut
	yellow	6	7	1	10	8	6	5	R
Raoulia australis (Scabplant, New Zealand)							170		
Impossibly low silver mats are surprisingly	easy to grow.	I IIIy II	owers	. Haruy i	0 0,000 1	Tovide	dry w	inter c	onunions
(cover with a pane of glass). Asteraceae.	white	5	6	1	12	7	5	7	D
Raoulia glabra (Scabplant)		_	_	1		7	-	/	R
Fast spreading mat of light green rosettes ar									
KEY	Sun (1=full s								9=dry)
Type (A=Architectural interest, B=Border; C=good cu									•
	G= Groundco	ver; r=1	ock g	arden; W	=Woodlan	d plant	; X=gc	od for	dry areas

Produces many spikes of dusky pink flowers in Rosularia chrysantha (R. pallida) (Rosularia, Hairy) Hairy mounds of symmetrical rosettes. Straw-ye Rosularia muratdaghensis (Rosularia, Smooth) Rosettes of smooth, fleshy leaves. Creeper. Leav Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	yellow ellow stars p white yes are bright yellow e plant in xer white	5 roduc 5 t greer 6 riscape 5	ed in ea 6 6 6 a and tir 7 es and ro	6 rly sum 2 iged wi 10	10 amer. Cra 12 th russet. 10	8 ssulace 7 Crass 7	7 eae. 7 ulacea 7	7	R R
Rosularia chrysantha (R. pallida) (Rosularia, Hairy) Hairy mounds of symmetrical rosettes. Straw-ye Rosularia muratdaghensis (Rosularia, Smooth) Rosettes of smooth, fleshy leaves. Creeper. Leav Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	yellow ellow stars p white yes are bright yellow e plant in xer white starry tiny wl	5 roduc 5 t greer 6 riscape 5	6 ed in ea 6 and tir 7 es and ro	6 rly sum 2 iged wi 10	10 amer. Cra 12 th russet. 10	8 ssulace 7 Crass 7	7 eae. 7 ulacea 7	7 7 ie.	R R
Hairy mounds of symmetrical rosettes. Straw-ye Rosularia muratdaghensis (Rosularia, Smooth) Rosettes of smooth, fleshy leaves. Creeper. Leav Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	ellow stars p white ves are bright yellow e plant in xer white starry tiny wl	oroduc 5 t greer 6 riscape 5	ed in ea 6 a and tir 7 es and ro	rly sum 2 iged wi 10	mer. Cra 12 th russet. 10	ssulace 7 Crass 7	eae. 7 ulacea 7	7 ie.	R
Rosularia muratdaghensis (Rosularia, Smooth) Rosettes of smooth, fleshy leaves. Creeper. Leav Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	white yes are bright yellow e plant in xer white tarry tiny wl	5 t greer 6 riscape 5	6 and tir 7 es and ro	2 iged wi 10	12 th russet. 10	7 Crass	7 ulacea 7		
Rosettes of smooth, fleshy leaves. Creeper. Leav Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	ves are bright yellow e plant in xer white starry tiny wl	t greer 6 riscape 5	and tir 7 es and re	ged wi 10	th russet. 10	Crass	ulacea 7		
Ruta graveolens (Rue) The classic rue of herb gardens is a super foliage	yellow e plant in xer white starry tiny wl	6 riscape 5	7 es and ro	10	10	7	7		IIDV
The classic rue of herb gardens is a super foliage	e plant in xer white starry tiny wl	riscape 5	es and ro					7	TIDY
	white tarry tiny wl	5	es and ro	ock gar	dens as w	ell. Ru	to co-		H,R,X
Sagina subulata (Scotch Moss)	tarry tiny wl		1				itacea	е.	
				1	8	8	5	5	GR
Moss-like mats of leaves for moist part-shade. S	rubito	hite flo	wers in	early s	ummer. (Caryop	hylla	ceae.	
		6	7	1	8	8	5	5	EGR
Deep emerald green, dense, moss like evergreer	n foliage. Exc	cellent	between	n flagst	ones or as	s a gro	und c	over. Ti	ny white
flowers. Caryophyllaceae.									
(0.00)	white	5	6	36	18	7	7	6	R,X,H
Possibly the most dramatic foliage plant for tem			ephant e	ear If co	vered wi	th whi	te felt.	Lamia	
	deep violet		8	12	10	8	6	6	BR
Dense mounds of rich blue flowers last all seaso		eaded.	Labiata	e.					
Sanguinaria canadensis 'Multiplex' (Double Bloodroot)		4		8	10	4	4	5	R
Woodland groundcover with flowers like white	e water-lilies.	. Papa	veraceae	2.					
	cream	6	8	10	18	8	7	8	RX
Deep green mounds of attractive foliage. Brassy									
Saponaria ocymoides 'Splendens' (Soapwort, Meditrr.)		5	6	8	15	8	7	7	GR
Bright pink stars over neat mats of gray leaves. 3". Caryophyllaceae.	Thrives in su	unny r	ock gard	dens. C	ompact, t	railing	stems	s will co	ver up to
Saxifraga 'Garnet' (Saxifrage, Mossy Garnet)	red	5	6	10	12	5	4	4	R
Deep green leaved mossy Saxifrage with strawb	perry red flow	wers. S	Saxifrag	aceae.					
	red	4	6	7	15	5	5	5	R
Fast-spreading mat of mossy leaves for cool sha	de. Glorious	purp	le-red st	ars for	much of s	pring.	Saxif	ragacea	e.
	yellow	3	4	3	12	6	6	5	R

	6	6 6 , tiny 5	5 6 encrus	
ariety <i>brew</i> variant. 12	vifolia	, tiny	encru	sted
ariety <i>brew</i> variant. 12	vifolia	, tiny	encru	sted
variant. 12				
12	5	5	5	-
	5	5	5	-
			_	R
10				
10	8	7	7	R
8	8	6	4	R
arden. Ca	ryoph	yllace	eae.	
	8	7	6	R
6	7	6	6	RX
12	7	7	6	R
n. Labiata	ae.			
12	8	7	7	RX
id again ir	n fall.	Labia	tae.	
10	8	7	7	R
15	8	8	8	EGR
in poor so	oils, be	twee	n pavi	ng stones.
			-	
		-	8	R
stically to	keep	neat.	Crassi	ulaceae.
. Green in	winte	er.		
eat, 9=cla	y) Wat	ter (1=	wet, 9	=dry)
reen; F=Fi	ragran	t bloo	ms;	-
oodland p	lant; X	(=goo	d for d	ry areas
i	8 arden. Ca 8 6 12 on. Labiat 12 13 10 15 in poor so 10 stically to . Green ir beat, 9=cla green; F=F	8 8 arden. Caryoph 8 8 6 7 12 7 on. Labiatae. 12 8 1d again in fall. 10 8 15 8 in poor soils, be 10 8 stically to keep . Green in winter oeat, 9=clay) Watereen; F=Fragran	8 8 6 arden. Caryophyllace 8 8 7 6 7 6 12 7 7 on. Labiatae. 12 8 7 id again in fall. Labia 10 8 7 15 8 8 in poor soils, between 10 8 8 stically to keep neat. 6. Green in winter. 10 9 clay) Water (1= 10 19 creen; F=Fragrant bloo	10 8 7 7 8 8 6 4 arden. Caryophyllaceae. 8 8 7 6 6 7 6 6 12 7 7 6 on. Labiatae. 12 8 7 7 od again in fall. Labiatae. 10 8 7 7 15 8 8 8 in poor soils, between paving the solution of the

Scientific Name (Common Name)	Fl. Color	Bloon	n time	Ht.	Width	Sun	Soil 1	Water	Type
Sedum anacampseros (Sedum, Bigleaf)	pink	7	8	9	10	8	7	8	R
Bluegreen succulent for sun and well drain	ed soil. Crassu	ilaceae.							
Sedum brevifolium (Sedum, Stout-leaved)	white	7	7	2	6	8	8	8	R
Fat leaves in four columns flush red in win	ter. Very cute	trailing p	lant. No	ot aggr	essive. Ci	assula	ceae.		
Sedum dasyphyllum (Sedum, Chubby Blue)	pink	6	7	2	5	8	8	8	R
Chubby glaucous blue leaves for close-pact	ked clumps. Fo	oliage top	ped wi	th little	pink flo	wers. R	Restrair	ned. Cr	assulacea
Sedum ewersii (Sedum, Ewers')	pink	8	9	5	7	7	7	6	R
Upper leaves glaucous and flat, toothed. Fl Crassulaceae.	owers late in s	ummer.	Leaves	are de	iduous ir	winte	r. Goo	d late o	olor.
Sedum glaucum (hispanicum) (Sedum, Spanish)	pink	5	6	2	5	6	6	6	R
Tiny beaded rosettes with starry whitish flo	owers in early	summer.	Crassu	laceae					
Sedum hybridum (Sedum, Double-flowering)	yellow	5	9	3	10	8	8	8	GR
Extremely durable low groundcover. Bloor From Siberia and Mongolia. Deciduous. Cr		igust. Na	rrow gr	een lea	ives turn	red in	fall. M	oundec	l plant.
Sedum kamtschaticum (Sedum, Kamtschatka)	yellow	6	9	5	10	8	8	8	BGR
A bushy clump of toothed leaves, topped v	vith bright yell	low flow	ers. Bor	der pla	nt. Varie	gated f	orms.		
Sedum obtusatum (Sedum, Obtuse)	yellow	6	6	1	5	6	6	6	R
Flowers from pale yellow to orange, prefer		Basal lea	ves enc	ircle st	em. Crass	ulacea	e.		
Sedum pachyclados (Sedum, Pakistan Stonecrop)	white	6	7	3	8	7	6	6	R
Fine, clump-forming sedum with glaucous	foliage. Crass	ulaceae.							
Sedum reflexum 'Crested' (Sedum, Reflexed) Husky blue-green mounds. Crassulaceae.	yellow	7	7	12	12	8	8	7	R
Sedum spathulifolium 'Cape Blanco' (Sedum, Pacif Neat mats of gray foliage with contrasting		5 flowers	6 Crassul	3	7	5	6	5	R
Sedum spurium (Sedum, Dragon's Blood)	pink	7	8	4	12	8	8	7	GR
Invasive, with large, showy heads of pink Selection 'Dragon's Blood' with bronze ste	flowers in late	summer	. Severa	l flowe	er and foli	age co	lors. C	rassula	ceae.
autumn.									

Deep reddish foliage with rose flowers in	n late summer. C	rassula	ceae.						
Sempervivum arachnoideum (Hens-and-Chicks, S	piderweb)	pink	6	8	7	10	8	7	6
R Choice sempervivum with white cobw	ebs and bright p	ink flov	vers.	Crassulac	eae.				
Sempervivum tectorum (Hen-and-Chickens)	pink	6	7	12	10	8	7	6	R
Rosettes of bright green to red. Thousand	ds of worthy sele	ctions.	Crass	ulaceae.					
Sideritis taurica (Woolly Wand Mint)	yellow	7	8	10	12	8	7	6	BR
Woolly lambs ear mats and soft yellow v	vands of bloom ir	n June.	Labia	tae.					
Silene acaulis (Campion, Moss)	pink	4	5	1	8	7	6	5	R
High alpine requires scree. Choices form	from Oregon. A	n incred	dibly	tight-knit	bun. Tir	y brigh	t gree	n leave	s. Sessile
red-purple flowers. Excellent in troughs.									
'Pedunculata', one of the best free-flower				1	0				
Silene alpestris (Catchfly, Alpine)	white	4	5	10	10	6	5	5	R
Soft green mats of trim foliage. Clouds o	f starry white flow	wers in	early	summer.	Carvop	hvllacea	e.		
Silene californica (Catchfly, California)	red	5	6	10	8	7	6	6	R
Spectacular scarlet flowers. Caryophyllad	ceae.								
Silene glauca (Catchfly, Beach)	white	5	6	4	10	7	5	5	R
Silvery mounds of narrow leaves are cov	ered with swolle	n white	cups	s. Caryoph	vllaceae				
Silene hookeri (Campion)	red	4	4	3	10	7	6	7	R
Gray down foliage and deeply-cleft salm	on flowers. For p	oure, ro	cky s	cree. Has l	orittle ro	ot. Cary	ophy	llaceae	
Silene laciniata (Pink, Indian)	vermilion		9	10	5	7	7	6	RX
Orange stars through the summer month	s over dusty gra	y moun	d of	foliage. Ve	ersatile.	Carvoph	vllace	eae.	
Silene saxifraga (Catchfly, Rock)	white	5	7	8	8	6	6	6	R
Tiny leaved rock plant with starry flower	rs over much of t	he sum	mer.	Caryophy	llaceae.				
Silene virginica (Fire Pink)	red	5	6	10	8	7	6	5	R
Showy scarlet flowers over dark foliage.	Caryophyllaceae								
Sisyrinchium albiflos (Blue-eyed Grass)	white	5	6	10	6	7	6	5	R
Very long blooming. Rush-like foliage. P	rofusion of small	white f	flowe	rs with no	tched p	etals. Iri	dacea	e.	
Sisyrinchium angustifolium (Blue-eyed Grass, Co		blue	5	7	10	6	8	6	5
KEY	Sun (1=full s		=full	sun) Soil (1=peat. 9	=clay) V	Vater (1=wet.	9=drv)
Type (A=Architectural interest, B=Border; C=good									,
	G= Groundco								dry areas
			C		A)Aller Strategy	1	. 0		7.77.77.77

Scientific Name (Common Name)	Fl. Color	Bloom	m time	Ht.	Width	Sun	Soil Wate	er Type
R Deep blue stars over grassy clumps. Irida		- 11						etale.
Sisyrinchium bellum (Blue-eyed Grass)			7	10	10	7	6 5	BR
Bright blue yellow-eyed flowers. Great bord		eae.						
Sisyrinchium macounii v. alba (Blue-eyed Grass, Ma	coun's) v	vhite	5	6	4	6	7 6	5
R Large pure-white bloom over stout, everg	reen, miniature	Iris fo	oliage. Ir	idacea	e.			
Gisyrinchium macrocarpum (Yellow-eyed Grass)	yellow	5	6	8	4	8	6 5	R
Giant yellow stars over gray-green spears of	f foliage. Showy	y Patag	gonian v	vild flo	wer. Irida	ceae.		
Gisyrinchium montanum (Blue-eyed Grass)	blue	5		8	4	7	5 5	R
Grassy, glaucous tufts of leaves. For moist p	ockets. Vivid b	lue sta	rs in lat	e sprin	g. Iridace	ae.		
Solidago minutissima (Goldenrod)	yellow	8	9	3	6	7	7 7	R
Loaded with cluster of starry-yellow flower	s in late summe	er. Tin	y enoug	h for a	trough. A	sterace	eae.	
Solidago spathulata v. nana (Goldenrod)	yellow	8	9	5	8	7	7 7	R
A strong growing dwarf from the Wallowa	Mountains of C	regon	. Astera	ceae.				
Sphaeralcea coccinea (Cowboy's Delight)	orange	5	7	5	12	8	7 8	RX
Unusual orange flowers over silvery carpet	of deeply lobed	leave	s. Malva	iceae.				
Sphaeralcea munroana (Cowboy's Delight)	orange	6	8	8	12	7	8 8	RX
Silvery mounds of foliage and long season of	of luminous ora	nge cı	ip. Malv	aceae.				
Sphaeromeria capitata (Tansy, Rocky Mountain)	yellow	6	7	1	36	8	7 7	RX
Dense silver mats of foliage with yellow bal	1-shaped bloom	s. Xer	iscape g	em. As	teraceae.			
Stachys monieri (Lamb's Ear)	pink	6	7	10	8	7	7 7	R
Hairy green mats of foliage and hot pink po	kers in June an	d July	Labiata	e.				
Stachys nivea (Caucasian Stachys)	white	5	6	12	8	8	7 7	R
Large ivory clusters of white over neat gray	clumps of leav	es. Lal	oiatae.					
Synthyris missurica (Synthyris, Bigleaf)	blue	3	4	10	8	5	5 5	ER
True blue spires in early spring and glossy i	round evergree	n leav	es. Scrop	hulari	aceae.			
Synthyris reniformis (Synthyris, Small-leaf)	purple	3	4	4	6	5	5 5	R
First flower to bloom in spring. Easy to grow	w. Endures deep	p shad	e and ro	ot com	petition.	Scroph	ulariaceae	
Synthyris stellata (Synthyris, Roundleaf)	blue	3	5	8	7	5	4 5	R
Showy spires of blue flowers and shiny rou	nd evergreen le	aves.	Scrophu	lariace	ae.			

Talinum spinescens (Fameflower, Spiny) Cushions of succulent leaves with bright	pink oink stars. Portula	6 acacea	8 e.	6	8	9	8	7	R
Tanacetum densum var. amani (Partridge Feather,		llow		7	10	15	8	7	7
R White-hairy finely cut mats with yellow							- T. C.	rs. Pre	
Strongly aromatic. Asteraceae.	· · · · · · · · · · · · · · · · · · ·								
Teucrium aroanium (Germander, Styx)	lavender	6	10	3	7	8	7	6	R
Silvery mounds with spidery lavender flo		Labia	tae.						
Teucrium chamaedrys (Germander, Wall)	purple/wh		9	10	24	9	7	6	BGR
Lovely border plant. Leaves used for mild	l-flavored tea. Pal	e to d	еер р	urple flov	vers. Use	ed as ed	ging i	n knot	gardens.
Small woody evergreen shrub. Labiatae. S spreading.									
Teucrium orientale (Germander, Asian)	lavender	6	8	10	12	8	7	8	RX
Finely divided leaves form a clump. Cloud	ds of bright laven	der sp	oidery	flowers a	all sumn	ner. Lab	iatae.		
Teucrium polium 'Purpureum' (Germander, Med		ırple		9	5	8	8	7	8
R Very white woolly leaves. Small vivid p				son. Labia	tae.				
Teucrium syspirense (Germander, Low)	pink		8	6	10	8	7	8	R
Pale pink flowers over neat mounds. For it	ock gården or fro	nt of l	borde	er. Likes si	un and h	neat. Lab	iatae.		
Thymus doerfleri (Thyme, Hairy)	lilac	6	7	1	7	8	7	7	GR
Hairy mat for choice spot in hot rock gard	ens. Labiatae.								
Thymus glabrescens v. loevyanus (Thyme, Bigleaf M	Mat) lilac	6	7	2	18	8	7	8	GR
Fast spreading mound for groundcover. L	abiatae.								
Thymus latifolius (Thyme, Wideleaf)	lavender	6	7	1	8	8	8	8	R
Neat mat with pink flowers. Labiatae.									
Thymus necefii (Thyme, Crossleaf)	pink	4	5	2	10	8	7	7	R
Fabulous mats of intricate, overlapping gr		wing	rose	flowers in	early su	ımmer.	Labiat	ae.	
Thymus praecox (Thyme, Early)	pink	6	7	1	12	8	7	7	R
Neat creeping thyme with distinctive flow	ers and aroma. L	abiata	e. 'Pi	nk Chintz	' selection	on, , vivi	d pinl	k flow	ers.
Thymus pseudolanuginosus (Thyme, Woolly)	lavender	6	7	1	12	6	7	7	FGHRX
KEY	Sun (1=full sh	ade; 9	=full	sun) Soil (1	l=peat, 9	=clay) V	Vater (l=wet,	9=dry)
Type (A=Architectural interest, B=Border; C=good	cut flower; D=goo	d drie	d flov	wer; E= Ev	ergreen;	F=Fragr	ant blo	oms;	
	G= Groundcov	er; r=r	ock g	arden; W=	Woodla	nd plant	; X=go	od for	dry areas

Scientific Name (Common Name)	Fl. Color	Bloon	n time	Ht.	Width	Sun	Soil	Water	Type
Well-known carpeter for sunny warm sp	oots forms thick w								
light traffic. Seldom flowers. Labiatae.	ou formo tració vi	conj, o	8.0	.,,			corciu	c arrer	contamons,
Thymus serpyllum (Thyme, Creeping)	lavender	6	7	1	15	8	7	7	R
Low, fine-leaved mats. Labiatae. 'Albus'	, Pale green mats o	f foliage	e studde	ed with	white;		Gol	den Th	
Golden leaved variant; 'Minus' (Thyme,									* * * * * * * * * * * * * * * * * * * *
Thymus thracicus 'Lavender' (Thyme, Lavender			6	3	12	9	5	5	GOR
Fragrance reminds one of Lavender. Lab									
Thymus vulgaris 'Argenteus' (Thyme, Silver	lavender	6	7	8	10	8	7	7	BHR
Neat silver-edged leaves. Startling focus	in the sunny borde	er. Labi	atae.						
Tiarella cordifolia (Foamflower)	white			12	10	5	5	5	R W
Mat forming woodlander with Heucher	a-like leaves. Crear	ny spire	es of blo	om in	spring. Sa	axifrag	aceae.		
Tiarella wherryi (Foamflower, Wherry's)	rose/white	4	5	10	10	5	5	5	R
Toothed oval leaves in compact clump.		of crean	ny flowe	ers. Sax	cifragacea	ie.			
Townsendia alpigena (syn. montana, Mt. E. Daisy		4	.076	1	3	7	7	7	RX
Intensely colored fls and compact tufts a	re perfect for troug	ghs. Ast	eraceae.						
Townsendia exscapa (Daisy, Easter)	white	2	4	1	4	8	8	8	NRX
Early blooming native with silver moun									
Townsendia rothrockii (Daisy, Lavender Easter)				2	5	7	5	5	ENR
Mound of bluish purple daisies. Colorac						asy to	grow.	Astera	ceae.
Tradescantia longipes (Spiderwort)	blue	5		9	9	7	7	7	R
Dwarf perennial emerges in late spring.									
Trillium grandiflorum (Trillium, White)	white		5	12	8	5	5	5	R
Showy woodlander thrives in shade wit								-	_
Trillium luteum (Trillium, Yellow)		4	5	10	10	4	4	5	R
Soft yellow flowers over mottled foliage									
Vella spinosa (Spiny Golden Cress)				10	12	8	7	6	R
Very dense dwarf shrub with spiny sten							1722	120	
Verbascum dumulosum (Mullein, Shrubby)	yellow			10	12	8	7	7	R
Magnificent mound of woolly foliage. Sl	nowy flowers for w	vell drai	ined sun	ny cre	vice. Scro	phulai	riaceae	2.	

Verbena bipinnatifida (Verbena, Dakota)	purple	5	9	3	10	8	8	8	NRX
Native to prairies, mesas, uplands. Low-gr	rowing, rounded	cluste	ers; red	clining ste	ems root	in loose	e soil;	self-so	ws. Rose to
purple and maroon. Well-drained soil. Ve	rbenaceae.								
Verbena wrightii (Verbena, Wright's)	lavender		10	10	15	8	7	7	R
Lavender whorls of bloom through the sur	mmer months. Ve	erben	aceae.						
Veronica armena (Speedwell, Armenian)	blue	5	6	3	9	7	6	6	R
Easy plant for well drained sunny location	s. Forms a neat n	nat. S	crophi	ulariaceae					
Veronica bombycina (Speedwell, White-leaf)	blue	5	6	2	6	8	7	7	R
One of the most silver-leaved plants know	n. Avoid over-wa	aterin	g. Scro	ophularia	ceae.				
Veronica filiformis (Veronica, Bird's Eye)	blue	4	5	1	9	7	6	6	GR
Rampageous carpet of scalloped, pale-gree	en leaves. Irresist	ible b	aby bl	ue flower	s. Can e	asily be	come	a weed	ł.
Scrophulariaceae.			,			,			
Veronica incana (Veronica, Silver)	blue	6	7	12	10	7	7	7	BR
Silvery mats with spikes of pale blue in ea		for s	un or	part shad	e. Scrop	hulariac	eae.		
Veronica latifolia (Veronica, Wide Leaf)	blue		6	10	12	7	7	7	R
'Crater Lake' Startling blue mound of start		pring	. Scrot	ohulariac	eae. Sele	ction 'R	oval E	Blue', r	ich blue
flowers.	,	1 0	1				,	7	
Veronica liwanensis (Veronica, Turkish)	blue	4	6	1	15	8	7	8	GR
Outstanding mats of dark-green, succulen	t leaves, very low	. Cob	alt blo		y summ	er. Verv	hard	and v	versatile.
Either sun or shade. Scrophulariaceae.					5				
Veronica orientalis (Veronica, Oriental)	blue	5	6	5	12	8	7	7	R
Gray leaves obscured by cobalt blue flowe					garden.	Scrophu	lariac	eae.	
Veronica pectinata (Veronica, Woolly)	blue		6	3	12	8	7	7	GR
Choice, dark green feathered mats. Pure b	lue stars for a lon	g seas	son. So	rophular	iaceae. V	/ariety '	Rosea	', brigl	nt pink fls.
Veronica repens (Veronica, Creeping)	blue		5	3	10	8	7	7	GR
Tight mats of rounded foliage with pale sp	attering of stars.	Scror	hular	iaceae.					
Veronica tauricola (Veronica, Toros Mt.)	blue	4	6	3	12	8	7	7	GRX
Dense cushions of wavy If and intense blu-	e fls. Scrophulari	aceae							
KEY	Sun (1=full sh			un) Soil (1	=peat, 9	=clav) W	Vater (1=wet.	9=drv)
Type (A=Architectural interest, B=Border; C=good									
71 (G= Groundcov								dry areas
		- 2/	0			1	0		,

Scientific Name (Common Name)	Fl. Color	Bloo	m time	Ht.	Width	Sun	Soil	Water	Type
Veronica spicata '(Speedwell)	red	5	7	12	10	8	7	7	BR
'Red Fox', reddish-pink spires of bloo	m over neat mats for	r front	of borde	er. Scro	phulariac	eae. Se	lection	n 'Blue	Rug', com-
pact mats of trim foliage and blue spir					E				.70
Veronica thymoides var. pseudocinerea (Ver, T		5	6	1	7	8	7	7	R
Superlative white foliage plant with de	eep blue stars. Scrop	hulari	aceae.						
Vinca minor (Periwinkle, Myrtle)	blue	3	5	8	18	5	5	5	BGR
Well known carpeter for cool spots. A	pocynaceae.								
Viola adunca (Violet)	purple	4	6	3	4	7	7	7	R
Easily naturalizes. Violaceae.									
Viola bertolonii (Pansy, Wild)	lavender	3	5	3	8	6	6	5	R
Long blooming relative of pansies. Lo	oks appropriate in th	ne wild	garden	Viola	ceae.				
Viola cuneata (Violet, Wedgeleaf)	purple	3	5	5	5	8	7	8	RX
Needs little or no summer-fall water. I	Jpper petals are pur	ple; lo	wer are	blue. V	iolaceae.				
Viola variegata (Violet, Variegated)	pink	3	9	3	3	5	6	5	R
Round, mottled leaves resemble Cycla	men. Reseeds readil	y. Viol	aceae.						
Waldsteinia ternata (Barren Strawberry)	yellow		5	4	10	4	5	6	GR
Evergreen three-part leaves. Showy ye	ellow blooms. Outsta	inding	ground	cover.	Rosaceae.				
Zauschneria californica (Fire Chalice)	red	7	10	7	15	8	7	8	RX
Scarlet trumpets of fuchsia-like bloom									
birds. Transplant in spring. Onagracea	e. 'Solidarity Pink',	soft pi	nk flowe	ers. Vai	r. latifolia ,	scarlet	trum	pets ov	er silvery
mounds from midsummer to frost.									
Zauschneria garrettii (Rocky Mountain Fuchsi			9	10	20	7	6	6	RX
Profusion of brilliant red trumpet shap		iage is	leathery	, sharp	oly toothe	d. Attra	acts h	ummin	gbirds.
Transplant in spring. Earliest Zauschn									
Zauschneria septentrionalis (Fuchsia, California		. 7	9	8	18	8	7	6	R
Spreads by underground stems. Dwar	fed and tufted habit	. Form	s a neat,	non-ir	vasive m	ound. (Onagr	aceae.	

THE FIRST ONE HUNDRED:

RECOMMENDED PLANTS FOR BEGINNERS

by Geoffrey Charlesworth

When you finally arrive at rock gardening, there seems to be an overwhelming number of plants from which to choose. Do more expensive plants give more pleasure? Is it better to go for the inexpensive ones and get more plants for the same money? Shall I start with a color scheme in mind? Shall I collect a single genus? Shall I grow exactly what X or Y is growing? (The answer to all these questions is No). I started out by wanting a beautiful rocky outcrop with colorful mats flowing over the rocks and delightful buns tucked into pockets of soil between the rocks, with a few taller plants for variety. My ideal would start flowering in early April and continue nonstop through September at least. Maybe this is your aim too. How to do it? Without some experience, growing plants from seed is a lottery and hardly a viable way of filling a garden as quickly as an eager beginner would like. Then there are plant sales at the chapter meetings. You can get excellent bargains and excellent plants too, but it is not a swift and reliable way to fill a garden. You can't expect to find at a sale the particular plant you have just seen or read about and

have set your mind on growing. There is no point in taking your want list to a sale. The chance is too remote that anyone else knows what you want or could supply it if they did. The best way to get something you want is from a reliable mail-order nursery, but you still may have to adjust your want list to what is available. Of course you must visit local nurseries too, to find out what is available there. The plants you buy there will probably establish better than plants that have been subjected to the indignities of air travel. But once you open a mail-order catalog you realize that the world of plants is far bigger than your local nursery can handle.

Here follows a list of plants that are "easy." That is they will probably prosper if you give them reasonable care; they are also easy in the sense that they are obtainable. It is not a comprehensive plant list for beginners, I am recommending plants that I would recommend to a friend who was just starting out and wanted advice to follow or ignore. The virtue of these plants is that they were available recently and will probably be available for several years, as they all

have durable value. I ransacked all the catalogs that arrived in January and February to look for the plants that everybody should grow. Sometimes I give the description offered by the nursery and sometimes my own experience. There are many other plants other than rock garden plants offered, but I have included only plants suitable for a rock garden which has relatively good drainage, plenty of sun, and is free from the competition of shrub and tree roots and large perennials with big leaves. Some plants are woodlanders and will be described as shade plants. You can decide whether to have a special woodland area or whether to try them in the shadier spots in your rock garden. In any case, the soil for them would need to contain more humus and not drain as rapidly as for alpines.

Most of the plants we grow from seed are species; that is they are plants you would expect to find in the wild. If an observant gardener finds a plant with some unusual quality, such as larger than normal flowers, double flowers, or variegated leaves, he or she wants to spread it around. Plants grown from seed nearly always vary from each other and from their parents, so the only reliable way to propagate a special plant is vegetatively—by cuttings or division. Such a set of plants is called a clone. The best distributers of such clones are nurseries. They have the skills and equipment needed to produce the hundreds of plants of each good form or hybrid which will satisfy the nation's gardeners. Most forms and hybrids are given fancy names designatating them as having a special quality that most wild plants don't have. Not only beginners but more experienced gardeners are always on the lookout for new and good forms. I like to try out every new plant I can find and afford, to evaluate

it against my own idea of beauty and interest and to see whether it likes the conditions in my garden.

I shall not recommend many clones explicitly because to appreciate an unusual form you ought first to know what the standard wild form looks like. But don't be deterred from getting a named form-that may be all that is available. Besides visitors who know only the standard species will be fascinated to see an unusual color form or a dwarf form growing in your garden. There is one caveat: if every plant in your garden is a large-flowered form, a double-flowered form, or has variegated leaves, the garden will not look very alpine. It will lose its innocence and appear artificial. This may be the effect you want, and that is fine. But if what you really want is a natural mountain-top effect, sooner or later you will have to grow the species plants, and that probably means growing some plants from seed. Nurseries also propagate many alpines from seed, and the absence of a fancy name implies that even though the plant may have been propagated from cuttings it is a true species and not a manmade hybrid.

In the following descriptions of the plants I have quoted excerpts from some of the fine descriptions of the nurseries themselves. A quote from a particular nursery doesn't mean that the plant is only available there. Some nurseries don't write descriptions at all. A list of mail-order nurseries follows and you might want to do some comparison shopping, although there is no way of comparing quality and size without seeing the plants. There are also many good nurseries that I have never used. More importantly there are hundreds of plants a beginner could grow, and this list is meant to lead you on rather than limit your vision.

The authors of these affectionate puffs are unknown and will be designated by a letter showing the name of the nursery. But I imagine Baldassare, Betty Ann, Nancy, Evie, Dick, Rene, Eleanor, Marty, and all the other nursery operators will give credit to their writers. It is fascinating how different eyes notice different aspects of the same plant.

S.= Siskiyou Rare Plant Nursery; R.=Rice Creek*; M=Montrose*; NG.=Nature's Garden; C.=Cricklewood; W.=WeDu; Rk.=Rocknoll; WR.=Woodland Rockery; CA.=Colorado Alpines* [*no longer selling by mail—Ed.] Any remark not in quotes is my own opinion.

There are several other good nurseries selling these plants. The ones listed above have the best descriptions.

Achillea ageratifolia. "A permanent mat of little silvery lance-shaped leaves and numerous white-petalled flowers with off-white centers. The white-on-white effect is most appealing." S. "A cheerful plant." WR. There are a number of useful yarrows. This one is as large a plant as you would want in a small rock garden, and you could even use it at the front of a border. This has better flowers than most. This Achillea is often called Anthemis aizoon.

Actinea herbacea: "Large yellow daisies on a dwarf plant makes a bright accent in the spring garden" R. This plant is described as a form of *Hymenoxys acaulis* (see later), which is essentially a high mountain cushion but is also a plains plant about six inches high and takes up as much space as *Aster alpinus*. Could even be used as a front of the border plant.

Aethionema 'Warley Rose'. "Dwarf shrub for hot, dry positions. Tiny col-

orful blue-green leaves smothered in rose-pink. Daphne-like blossoms in May and June." S. "Evergreen bushlets with Daphne-pink rosebuds." Rk. This plant is probably a form of *A. armena*. Other aethionemas such as *A. pulchellum* are just as good, but you may have to start them from seed. They may then self-sow attractively in cracks and crannies. 'Warley Rose` is a good color but never produces seedlings for me.

Aethionema grandiflorum: "The steelblue, needle-like foliage is lovely all winter, and in spring heads of delicate pale pink flowers are produced. Give it sun." M.

Aethionema oppositifolia: "One of the tiniest woody shrubs known. A delightful plant that creates a flat even mat of gray, fleshy, round leaves less than an inch high. Short stems carry heads of pale lavender flowers in very early spring. A hardy plant from the mountains of Lebanon." S. It has lived for me through the harshest of winters without protection. The leaf-flower color combination is ravishing, and it blooms with the earliest drabas. It may be listed as Eunomia oppositifolia.

Ajuga: Don't plant ajugas in your rock garden. The only exception might be a form of Ajuga usually called 'Metallica Crispa'. "Curly bronze leaves. Nonspreading. Looks like red dwarf spinach." R. "Speckled silver and purple curled and shiny leaves." Rk. "A foxy specimen plant for a partially shady area. It's composed of congested crinkled leaves with a purplish sheen that emit short racemes of deepblue flowers." WR. There is also a form with redder leaves.

Alchemilla alpina: "Dark green foliage with silver edge and reverse." C. This is primarily a foliage plant. The flow-

ers are greeny yellow. At its most attractive after rain when drops of water sit in the upturned umbrellas. The leaves are quite large for a small rock garden. *A. mollis* is more often seen, but it is far too large and weedy for a rock garden. Both species merit space only if you are very fond of leafy landscapes.

Anacyclus depressus: "Wheel-like patterns of lacy, grayish-green foliage develop white, red backed, daisy-like blooms at their tips." Rk. There is a good reason to get this from a nursery; the seed you get from exchanges is very rarely viable. This beautiful daisy comes from North Africa and southern Spain, so you wouldn't expect it to be hardy in Massachusetts. It survives and self sows.

Androsace lanuginosa. "A vigorous, easy plant from the Himalayas with silvery trailing stems ending in clusters of lavender pink, white-eyed flowers. Valued for long summer bloom. Zone 4." S. "Easy Himalayan." CA. This is one of the few *Androsaces* that are perfectly happy outside. It is not a bun and not really a mat, but it needs a foot of room to sprawl around. The stems don't seem to root down.

Androsace sarmentosa: "Hardy Himalayan species with hairy, silver foliage rosettes that spread by stolons densely covered with light pink. Verbena-like blossoms in April and May. Zone 3." S. This is the first Androsace to plant and a never ending source of delight. You can move bits of it around when it roots down. There are a number of forms equally good. A. primuloides is the same or a very similar plant. "Makes a patch of furry buttons that sends up quantities of pink flowers in May. Even out of bloom the silvery rosettes are attractive." R. A. semper-

vivoides is neater but not so reliable. Anemone x lesseri: "Bright red flowers. Will grow to 12" in maturity. Likes a moist soil in sun or part shade." R. It doesn't actually need moisture. The color is unusual since most rock garden anemones are white.

Anemone multifida: "Full sun, good drainage. Elegant finely divided foliage; cream, red or yellow colored flowers on long stalks in late spring. Native to the rockies." W.

Anemone nemorosa: "An endearing early spring blooming wildflower which carpets woods and shady hill-sides of N. Europe to N.W. Asia. The species has lovely white flowers, light pink reverse. Plant the woody rhizomes horizontally, 2in. deep." S. There are several color forms from white to deep blue and red, also some doubles. A broad sheet of them in a woodland would be great, but the pretty forms look good singly in a shady part of the rock garden.

Anemonella thalictroides: "This native perennial is happy in a woodland setting or in a shaded rock garden. The blue-green foliage provides a collar for the delicate white to pink flowers. It grows from a tuberous root and occasionally reblooms in the fall; however it disappears during the summer. To 9" but usually much shorter. Zones 3-10." M. "Extremely delicate in appearance, but tough and long-lived in the garden. White or pinkish anemone-like flowers in earliest spring; often bloom sporadically through the season." W.

Antennaria dioica: "Dwarf carpeting, mountain plants, easy in full sun and well-drained soil." S. "Flat silverywhite mats." Rk. Pussy-toes is a spreader but easy to control. The flowers of some of the forms are worth

having, the usual species flower is a little dingy. It adds a gray patch to the green mats of summer.

Aquilegia bertolonii: "One of the smallest and finest. Large rich blue upturned flowers". S. There are a number of miniature aquilegias for a beginner. Taller ones also are at home in the rock garden, but there is a good deal of crossing goes on and the subsequent self-sowing will give you a mixed bag of sometimes uncontrollable seedlings. Some people want this effect, but once you have it, it is hard to change.

Aguilegia flabellata: is probably more permanent than A. bertolonii. "A wonderful Japanese native well suited to our climate. It grows to about 15" and blooms with blue and white flowers in early spring. The lovely, blue-green foliage is more resistant than most to leaf miner. Semi-shade. Zones 3-10." M. "Fleshy fringed foliage produces 3-4" stems of long-lasting deep blue and white flowers with recurved spurs. Blooms early summer. Prefers a cool position." CA. "Prefers a mostly sunny site." WR. Note the differences between advice from North Carolina. CO.,and Michigan. Massachusetts it doesn't mind sun. There are dwarf forms, some all white.

Arabis ferdinandi-coburgii 'Variegata': "A valuable foliage Arabis forming a mound of neat rosettes of 1in. creamywhite leaves, each with a narrow center zone of green. White flowers on 5 in. stems." S. Another Arabis you can get from any local nursery is A. caucasica. This is not to be despised but must be kept tidy by shearing and not allowed to ramp unchecked. There is a variegated form of this too but Arabis ferdinandi-coburgii is neater, though the flowers are not as good. Another name

for *A. caucasica* is *A. albida*, and there is a double form "which blooms all spring and makes an effect like popcorn. An old-fashioned plant that has become rare." R.

Arenaria montana: "Clouds of large pure white flowers smother the plant in early summer. Attractive dark green foliage year round. Alps. Zone 5, but grown in Zone 4 with winter mulch." S. "Myriads of white cup-shaped flowers. Foliage is deep green needle-like in mats. Classic rock plant." R. This is one of the best sandworts for flowers. I have found it impermanent without protection in the Berkshires, but I have seen it growing very happily in Hartford a little bit south of here. Arenarias on the whole are easy, but this one is worth a little extra trouble.

Armeria juniperifolia (= A. caespitosa): "Minute hummocks of leaves. Long lasting white flowers nestle right on the foliage. 2"." R. "Dense buns sprout short stems topped with papery, rosepink flower-heads. This little fellow prefers a mostly sunny area with a well-drained soil." WR. "Spherical pink flowers rise just above the foliage." CA. White and pink forms are first-rate plants. Perhaps the best of the thrifts. When it begins to look shabby after a few years you can easily propagate it by pressing tufts of foliage into sand.

Armeria maritima: This is a plant of wide distribution on both sides of the Atlantic. It has white, cherry-red, and pink forms. "Foliage makes a fine-textured grassy mat" R. "The fine, evergreen leaves will form a tight bun, and you will be rewarded with heads of mauve-pink flowers in spring." M.

Asarum hartwegii: "The cyclamenleafed ginger is doubtless one of our best native plants. Green leaves with conspicuous silver veining. Requires extra gritty, woodland soil. Succeeds even in Zone 4 though usually rated zone 6." S. Indeed it is hardy for us. This is a woodlander with large glossy leaves, but it might be happy in a shady, moist spot at the foot of a cliff.

Asperula gussonii: "Compact cushion of short, needle-like leaves which become covered with small, fragrant pink flowers." CA "A mini-mat of dark green leaves nearly hidden by the abundance of small, tubular, fleshpink blossoms in late spring." WR.

Asperula sintenisii (= A. nitida var. puberula): "Makes a light green cushion smothered in a sheet of pink tubular star flowers in spring. Zone 6" S. Actually both these asperulas seem to be OK in Zone 4-5 if they are planted in fast draining scree. Keep trying until you get one of them established. I have heard it said that hairy-leaved A. suberosa would also survive with proper care but I have only been successful with this in the alpine house.

Aster alpinus: "Daisies in spring above clustered leaves" R. Color forms vary from deep mauve, pink and white. At least one color should be found in everybody's garden. Note that most other asters bloom in the fall and this distinguishes them from *Erigeron*.

Astilbe chinensis 'Pumila': "A nearly flat mat of heavily dissected foliage and 10-12" spikes of fuzzy, shocking-pink blossoms. A dependable summer bloomer for a partially shady rock garden." WR. Or you can put it in a woodland setting where it is vigorous enough to fend for itself. Most of the Astilbe cultivars only look right in a border or formal woodland garden; this one has a natural look but gives

lots of color at a low point in the year. Aubrieta deltoidea: "Classic rock plants" S. The forms of this species are legion and splendid. Plant several to find out whether you like the reds or the lilacs and near blues. The one with variegated foliage was easier to establish for me than many of the hybrids from England. They are easy enough from seed, but you will get some of the less clear colors. If you succeed with growing this species from seed, go on to other species of Aubrieta which are less flashy but very good plants.

Aurinia saxatilis: Basket-of-Gold is obtainable at any local nursery. There are some color forms, pale yellow and even a buff color. Also double and compact forms. "Pale moonlight-gold flowers. Soft gray-green foliage." Rk.

Bolax glebaria: "Glossy green leaf rosettes make an intriguing armor-like pad. Little yellow flowers." S. "Tough, plastic-like, glossy green foliage produces a low, spreading mat." CA. True for both the normal size plant and the tiny leaf variety. In shade the "pad" is more lax but is a refined ground cover like an out-of-flower mossy saxifrage.

Callirhoe involucrata: "Full sun; good drainage. Midwestern native. Procumbent plant with long trailing stems, forming a loose mat. Beautiful, silky wine-colored flowers over a long period in midsummer." W. Winecups is the common name. It sprawls around the rock garden without doing much harm to its neighbors.

Campanula barbata: "Flat foliage rosette, pale blue fussy bell flowers." C. This is a short-lived perennial and may be biennial in your garden, but it seeds around sensibly.

Campanula carpatica: A very depend-

able campanula, a little on the large side but well within acceptable size for a rock garden or a wall garden. It will self sow quite readily and forms extensive colonies but also will sow itself charmingly in crevices that are otherwise unplantable. "It blooms all summer just like an annual". R. "Compact tufts of heart-shaped leaves." Rk. The white form is pretty, too.

Campanula cochlearifolia: "Fairy children of dusky blue on 2" stems. Spreads into a nice patch." R. "Profuse, dainty, bell-shaped light blue flowers. Needs well-drained soil." CA. In my experience it runs around at random invading but rarely harming other plants. It may die out so let it go where it thinks best. Some forms are difficult to establish.

Campanula kemulariae: "An easy, valuable groundcover and wall plant for shade, under shrubs, even in dryish soil. From a creeping rootstock rise tufts of shiny leaves and foot-long pendulous stems carrying many big open blue bells in June." S. "Showers of deep lavender bells just above attractive glossy leaves." R. "Toothed leaves and decumbent 10-12" stems of good- sized bluish-mauve bells. It is best grown in a sunny wall, or where it can cascade over rocks." WR. I have it growing and mingling with Geranium dalmaticum and both survive their close relationship. The blue is good and goes well with the pink of the Geranium, the color may depend on soil and exposure. In another raised bed it flows poetically over the sunny side but also tries to creep backwards into the drabas and other small fry. It has to be periodically restrained.

Chrysanthemum weyrichii: "Large pink daisies hug the shiny deep green carpeting foliage in late summer." R.

"Year round a neat spreading plant of cut shining green leaves and in summer 3" wide pink daisies on 4" stems. Ideal running through crevices of a sunny wall." S. "Darling pink daisies." Rk. "Leathery, glossy green foliage." CA. "a spattering of pink, daisy-like blossoms in late summer." WR. It always takes me by surprise in mid July. It hugs a large rock next to a path and runs along the base in a long line not trying to invade the path. The flowers are summery pink but the size of fall chrysanthemums, and it looks like a rock plant, not a bedding chrysanthemum.

Chrysogonum virginianum: "Yellow daisies above bright green foliage mats." R. "This is a splendid longblooming native plant which is happy in sun or shade. It produces bright yellow flowers from early spring through fall and is nearly evergreen with leaves disappearing only after extreme cold." M. "Six inch quarter sized gold buttons. April to frost." Rk. "Lavish clumps of hairy green leaves and bright-yellow flowers...well-drained soil that leans towards the acid end of the scale. It should do fairly well in a mostly sunny garden if it is not allowed to go bone-dry during the summer." WR. A composite with lots of character and a useful carpet-former at the edge of a wood. The low form is superior and more commonly found.

Claytonia virginica: "A delicate native plant, less than a foot high which thrives in shade or sun. Growing from a corm, it makes a brief appearance from winter into very early spring. The flowers which are pink or white with pink stripes are produced in racemes." M.

Cotoneaster apiculata: A good small shrub for a small garden. Plant it next

to a rock and watch it mould itself to cover the rock. 'Tom Thumb' is a good dwarf form; "An elfin form of the 'Cranberry Cotoneaster' with dainty near-oval leaves. Quite slow growing, but will root where its little branches touch the ground and form a small mat after a few years." WR.

Cyclamen hederifolium: "Makes colonies of marbled leaves." R. "This is one of the hardiest species. The beautiful leaves are infinitely variable even on a single plant and the white or pink flowers are produced occasionally during the summer and in abundance throughout the fall." M. You may have trouble with cyclamen if animals discover the corms. The wrong combination of cold and wet may decimate them, but grown in the right place there is nothing to compare with a sweep of *C. hederifolium* or in a warmer spot, *C. coum*.

Cytisus decumbens: "Low shrub, 6-10" tall by 3-4' wide. Bright yellow flowers." CA. There are a number of good rock garden brooms. Some will provide medium-sized shrubs for large accent. Some are spiny. A good hybrid which some catalogs have sometimes is C. x kewensis. Grow something near brooms that self- sows a little, such as Erinus alpinus or Chaenorrhinum oreganifolium, so that when the shrub expands you won't need to rescue anything precious.

Daphne cneorum: A lovely sweet scented low shrub. After *D. mezereum* this is the most often seen in gardens and therefore has less rarity value than the cult species that can be troublesome to grow and hard to find. But it is probably the best of them all. *Daphne mezereum* is one of the first plants to flower in the whole garden and therefore worth keeping in spite of its

slightly weedy habit. *Daphne cneorum* never misbehaves except to die off in patches without adequate explanation. "Covered with masses of intensely fragrant pink flowers." CA.

Delosperma nubigenum: "Full sun; good drainage. Very low-spreading; succulent, yellowish foliage; bright yelloworange flowers in June." W. "This succulent-leaved plant makes a fine ground cover in a sunny location. It is drought tolerant and non-invasive, producing bright yellow flowers in spring. The vivid green foliage turns red in the winter sun. It is 1" high and hardy enough to grow in the Denver Botanic Garden." M. Yes it is hardy for us, too. Other delospermas, South African natives, are not hardy here but are worth trying a little further south. Try for instance D. cooperi. "Hardy in Denver but not in Vail." CA.

Dianthus: Grow several of the alpine species, for instance D. freynii ("stiff, gray-green leaves." CA.) D. gratianopolitanus ("Tight cushions, fragrant" CA.), D. microlepis ("tight carpet, nearly stemless."R. "Green, curved, needle-like leaves." CA.) D. nitidus ("Bright green rosettes..shiny pink flowers..dark calyx" CA). D. petraeus ssp. noeanus ("spiny buns...reminiscent of shimmering fireworks."WR. "white fringed flowers." R.), D. simulans ("tufts like pincushions". R.). D. subacaulis ("gray-green..nice pink" CA) If you don't mind losing a plant soon after it blooms with only a sporting chance of having it a second year, grow D. alpinus. Also grow a few of the many dwarf hybrids such as 'Little Joe', 'Mars', 'Tiny Rubies' ("tiny double rosy carnations" R), but not the larger hybrids, unless you can find a place in the border for them. Anything that looks like a carnation looks wrong near rock plants. D. deltoides has some

good color forms but can become a nuisance when it produces endless seedlings of indifferent colors.

Dicentra cuccularia: "Dutchman's Breeches. Snowy flowers like little pantaloons hung out to dry in the April woods." R. "Racemes of nodding, 2-spurred white flowers." W. What you get are tiny rhizomes. Plant these, watch the leaves disappear and understand that you will have to wait until next April to see them. Meanwhile, they sit for most of the year just underground, so mark the spot and don't disturb or slice them inadvertently.

Dodecatheon meadia: "Delightful cyclamen-like white or pale pink flowers on a tall spike in May; basal rosette of narrow leaves." W. "Robust eastern species that retains the firm green leaves well into summer." S. You will need a location that retains some moisture for this. Everybody should grow some representative of the emblematic genus of NARGS, and this is one of the easier species in the East. D. pulchellum is OK, too.

Draba dedeana: "Pure white flowers on 2" stems. Small, wide bristle-tipped leaves. Spain and the Pyrenees. One of the best species. Zone 4." S. Most of the white drabas are rather dull plants, and the good drabas are nearly all yellow, so this has two advantages.

Draba lasiocarpa: "Forms a small hummock of most unique foliage. Stiff, green, pine needle leaves. Racemes of pale yellow. Eastern Europe mountains. Zone 5."S. Zone 4 is OK too. Draba oligosperma: "Small, rigid, graygreen leaves form tight rosettes which huddle together in a hard cushion." CA. These are just two of many species of draba blooming before the

crocus and into May. Get several species to compare the tight foliage of the buns and mats. If you succumb to Drabamania you will graduate to growing them from seed. Some need protection from winter wet, but most are hardy through the worst weather.

Draba sibirica: "is one of the easiest species to grow in a mostly sunny site."WR. And therefore needs a special mention, because it makes quite extensive mats and not just tiny buns.

Dryas octopetala: "Easy and beautiful. Large white flowers and silky seed heads. Most attractive dark, mottled foliage makes a neat ground cover." S. "Evergreen creeper with large white flowers like single roses. Leaves like miniature oak leaves." R. Probably best in a sandy scree in our climate. Some gardeners grow enormous mats of Dryas, but mine gets damaged each winter and takes time to revive in spring.

Edraianthus graminifolius: "A stunning crevice plant featuring especially thin grassy green foliage. The violet-blue flowers are abundant on prostrate stems." S. There are many subspecies of E. graminifolius from different geographic locations with small differences. All the kinds I have grown have been excellent, and the abundant self-sowing they do is welcome. E. pumilio is even prettier but not so amenable. "Beautiful violet-purple trumpets in late spring." CA.

Erica carnea: There are so many varieties of heathers that some nurseries specialize in Calluna and Erica, and devotees form societies to exchange cultivars and cultural information. Plant a few specimen plants at first to test your site for soil (it should be peaty and never dry out totally) and

climate (some member of the family will grow in most parts of the US and Canada). Collecting forms can be addictive.

Erigeron compositus: "Bright lavender flowers on dwarf downy foliaged plant an inch high." R. You can expect to get a plant of *E. compositus* at most plant sales. Since it is variable, a plant from a mail-order nursery is probably going to be a good form. In any case you should plant several forms of this western daisy.

Erigeron scopulinum: 'Rock crevices. Small white daisies. Excellent for troughs'. S. The small leaves make a tight mat, and the daisies are not very numerous but look just right.

Erinus alpinus: "Rose purple flowers". Rk. Will self sow into cracks and crannies, but it is small enough to be harmless to most of its neighbors. There are white and pink forms.

Eriogonum umbellatum: "An attractive mat of green, silver-backed leaves and tall stems of cream flowers in July." S. "Can form mats or sub-shrubs." CA. It is very variable with forms of differing size, color and habit. But it one of the easier buckwheats.

Erysimum kotschyanum: "This excellent plant soon forms carpets of yellow over tight foliage. An easy and valuable plant for any sunny position." S. Most erysimums are short lived, even biennial. This one is "permanent" and divides easily to spread around. I have never found seedlings though. Its disadvantage is that it resembles a draba, and one would like different genera to look different.

Genista delphinensis: "Short flattened stems make an interesting effect.

Yellow broom flowers. Zone 4." S. This plant makes a mat that is impossible to weed. If weeds get out of hand you will have to dig up pieces and replant them. But it is well worth having for its winged stems and cheerful color. Another good easy broom is *G. dalmatica*. The leaves are spiny, but not ferocious, complicating weeding.

Gentiana acaulis: "Gorgeous deep blue trumpets in late spring. Creeping evergreen mats of rosette foliage." S. "Royal blue trumpet flowers in early spring."CA. Several subspecies of *G. acaulis* exist with different sized leaves, usually from different locations in the Alps. Some people have had difficulty in finding the right place in the garden to produce the trumpets.

Gentiana scabra: "Usually producing procumbent stems with many large brilliant blue flowers in September and October. Wonderful draped over a rock." W. "An exquisite fall blooming gentian from Japan. Very late season, deep-blue flowers clustered at the stem tips making a striking scene set against fallen autumn leaves." S. "A fine October-blooming gentian with a somewhat candelabra-like pattern of growth. It should be allowed more than one season's growth to produce its lovely upturned flowers of blue." WR. All true, but in the Berkshires three factors must be reckoned with: leaves may cover the flowers; early frosts may damage them; deer are poised at the edge of the garden in search of G. scabra.

Gentiana septemfida: "Dark blue, late summer flowers in big clusters." S. "Narrow, bell-shaped, dark blue flowers form in terminal clusters." CA. There are gentians for all seasons, and this is about the best of the summer bloomers.

Geranium dalmaticum: "Mounds of shining green, aromatic leaves, tinted crimson in autumn, are smothered in clear-pink flowers in summer." S. "Plant this in a mostly sunny area with other mid-sized possessions." WR. There is also a white form. Give it plenty of space to make a carpet a yard across. Geraniums on the whole are overbearing in a rock garden, but this one is well behaved and lovely.

Geranium sanguineum is not to be let loose in a small garden, but there is a form 'Lancastriense` which is nearly allowable. "Pale pink flowers, 6" mat." C. "Light pink with darker veins."WR

Gypsophila cerastioides: "Low mounds of rounded velvety leaves. In summer large white cup-shaped flowers striped pink. Best in rich scree or trough." S.

Gypsophila repens: 'Creeping Baby's breath has multitudes of quarter-inch flowers and blooms for weeks in late spring" R. "Dainty pink flowers."Rk. Normally white, good forms are pink, but not often a very strong color. "Low haze of pink...effective in a cascading position."WR.

Helianthemum nummularium: "Delightful flowers display in sunny colors." S. Most of the species helianthemums are yellow. This species is very variable and scores of color forms are available. The leaves, too, can vary from green to gray. They also vary in hardiness, and you may want to take cuttings of the ones you are fond of. In any case a given plant is unlikely to last more than two seasons, but they are so colorful that it is worth trying to keep them. Allow at least one to two feet across for final size.

Hepatica: "Some of the most beautiful

and earliest of spring flowering plants for rich leaf mold soil in the woodland garden. Good drainage is a must." S. " Very early in spring the blue or white blossoms emerge and open in the sun." R. There are two North American species H. americana ("Leaves with rounded lobes often mottled." W.) and H. acutiloba (" Evergreen leaves with three sharply pointed lobes." W.) which seem to differ only in leaf shape. There are many variations in form. H. nobilis is the European species; it has bigger flowers and more varieties. Rarer is H. transylvanica and its hybrid H. x ballardii. Any one of them could be tried in a shady rock garden, even though a woodland setting is more like home.

Heuchera hallii: "A petite alpine from Pikes Peak in Colorado. Slender stems of tiny white bells above little 1" leaves." S. The border coral bells look wrong in a rock garden, and the larger species are better at the edge of a woodland garden, but there are a few suitable alpine species. It doesn't mind sun.

Hippocrepis comosa: "Heads of yellow pea-like blooms are generously produced on a flat mat of green pinnate foliage." WR.

Houstonia caerulea: "Sun or part shade; good soil. Tiny tufts of evergreen leaves; solitary rather large pale to medium blue flowers on long stalks; blooms primarily in April or May, but at least in the South, sporadically all year." W. For us it grows wild in full sun, grass meadow, poor soil. Bluets, or Quaker Ladies, is delightful. If you move a good color form into the garden it fades away, seeming to prefer the crowded meadow.

Hylomecon japonicum: "Early spring

yellow poppies. Elegant pinnate leaves. A beautiful herbaceous perennial native to Japanese woodlands." S. It resembles *Chelidonium majus*, the weedy celandine poppy, but is shorter, prettier, fewer flowers and not weedy.

Hymenoxys acaulis: "Rocky mountain native with dense tufts of silky, woolly leaves." CA. This lovely yellow composite is not always a "beginner's plant," there are so many forms from high alpine to tubby Great Plains kinds. If it lives and blooms through its first summer, collect seed and sow it next winter.

Hypoxis hirsuta: "Yellow Star Grass. Sun or part shade; ordinary loam." W. An iris relative like a small yellow Sisyrinchium.

Iberis saxatilis: "Dense mat 2-3" tall."CA. I like all the iberis I have ever grown.

Iberis sempervirens: "Mounds of white in spring and deep green masses the rest of the year are indispensable in the rock garden." R. Candytuft white is bright and clean, making this a very useful foil for too busy or too drab color schemes.

Iris cristata: "A woodland dwarf from eastern America. Running habit in loose humusy soil. Deciduous." S. "Sky-blue flowers on 4" stems." R. "Give it a little sun and well drained soil." M. "Should form nice little drifts in a hurry."WR Usually blue. Many color forms have been selected including a vigorous white. It will tolerate a rock garden but wants to run around and prefers the edge of the woodland. If it has good roots, plant it with the rhizome top showing above ground. If the root system is weak, plant it slightly covered to keep it stable. The rhi-

zome has to be horizontal.

Lavandula angustifolia: Lavenders are good shrub substitutes in a small rock garden, especially in their miniature forms. In time they grow too bulky, so keep them trimmed back and neatlooking during the spring clean-up.

Leontopodium alpinum: "Gray-green foliage covered with woolly hair bears thick, white woolly bracts on 10" stems. European classic." CA. Everybody has to grow edelweiss at least once to impress one's non-gardening friends. If you like it, go on to the more refined *L. nivale* and many other species.

Lewisia cotyledon: "Our glorious native is considered one of the best. Striking fleshy leaves often crinkled or notched. Numerous spring flowers in a rainbow of possible seedling colors (pink, white, orange, salmon) often candystriped. Needs perfect drainage, grit around the crown. Afternoon shade of rocks." S. "Grow in humus and grit. Likes part shade and acid soil."R. "Likes well-drained soil or scree. Avoid winter wet." CA. You must try out many places in your garden if at first you are unsuccessful. When you find the right spot, expect an unimagined burst of pride and pleasure.

Lilium pumilum: "The coral lily is a delightful, small plant suitable for a rock garden. It blooms in late spring with small, scarlet Turk's cap flowers and does well in sun or part shade. One-and-a-half-feet tall." M. This is one of the few lilies that look well in a rock garden, but you have to remember that even a small lily is a large plant compared with the mats and buns that predominate. Place it with this in mind.

Linum flavum: "Sunny yellow flowers

and lush broad-leaved foliage make this a notable plant in late spring." R. Another good yellow is *L. capitatum*.

Linum capitatum: "A robust and freeflowering species from the mountains of Bulgaria. Dense heads of sizable rich yellow flowers." S.

Lithodora oleifolia: "A splendid wanderer from the Pyrenees with tufts of hairy gray-green leaves spreading by underground stolons. Pink buds open to large opalescent blue flowers. Quite hardy in loose, rich, neutral to lime soil. Zone 5". S. When you first see L. diffusa 'Grace Ward` you will certainly want to grow it for its rich blue flowers. It is tender in my climate but occasionally worth a one-year stand. L. oleifolia is a more faithful companion.

Mentha requieni: "Purple, moss-like, aromatic. Moist soil or part-shade, half-hardy." NG. This is a tiny mint from Corsica with the most delicious smell when you crush the leaves or walk on it. It nearly always comes back each spring, even though not really hardy, either by self sowing or by stoloniferous roots which survive.

Mitchella repens: "This beautiful native plant is a wonderful ground cover in shaded rock gardens or woodland areas. It blooms in spring with pairs of small, white flowers followed by red berries. The dark green leaves are a delight throughout the year. Zones 3-8." M. "Small leather-like dark green leaves with a paler mid-vein; charming paired white flowers densely pubescent inside." W. "Partridgeberry is a wee creeper that slowly forms a flat-as-a-pancake patch in a woodsy, shady, slightly acid site."WR Wild in our woods.

Orostachys iwarenge: "Bouquet of gray

roses sitting flat on the ground."Rk Orostachys aggregatum: "Succulent rosettes somewhere between pea and jade green."WR.

Orostachys furusei: "Spreading blue rosettes that send up smokestacks of dusty rose flowers in October. It doesn't look hardy but it is. From Japan." R. Ohwi (Flora of Japan) says these plants are different and should be called sedums. Perhaps they look more like sempervivums. They get a lot of attention in flower, though you could hardly call them flamboyant.

Orostachys spinosum: "Intricately scaled, heavily spined globes, up to 2" across" R. The spines are not very frightening and the flower stem is phallic. Unlike O.furusei, this doesn't spread by stolons. The rosette that flowers will die, but usually there are offsets that grow to make a larger plant next season.

Papaver miyabeanum: "Japanese. Related to the Iceland poppy but more heat tolerant. Gray-green basal leaves; beautiful delicate white flowers." W. "Lemon yellow flowers over interesting compact foliage."CA This poppy is in the *nudicaule* group, usually a low growing plant.

Penstemon davidsonii: "Creeping evergreen mats. Small round leaves. Lavender to purple from the California sierras." S. The most permanent of the penstemons are the 'shrubby' group. The stems are woody and the leaves try to stay green all winter but often lose the battle to cold winds. Don't cut off the damaged stems until after flowering. The plants usually recover their good looks exactly at flowering time. A handkerchief of spun polyester spread over a plant and held down with stones helps with

the winter-kill problem.

Penstemon fruticosus: "Miniature evergreen shrublet". R. "6-12" tall with blue to lavender flowers." CA. Another shrubby penstemon with many forms. Some of them can be bushes two feet across. On the whole easier than most members of this group.

Penstemon hirsutus 'Pygmaeus': "Rosettes of summer green and winter bronze foliage as well as violet flowers in spring." M. "A little guy with smokey-mauve blossoms on compact 5-6" stems."WR. This is one of the eastern penstemons (non-woody). Seedlings are likely to appear and may yield plants which look like the tall form of *P. hirsutus*.

Phlox amoena: "This native phlox produces vivid, deep pink flowers in midspring. The decumbent stems are lined with somewhat hairy, slender leaves which turn a lovely purple red in winter. Sun or part shade. 6"." M.

Phlox bifida: "Dainty, starry flowers of palest blue. Native midwestern species is enchanting." R. "A dome covered in early summer by large lavender-blue flowers with deep-cut petals like perfect snowflakes. Zone 4." S. "8-10" mound of spiny foliage."CA. "A fantastic species."WR. This makes a mound or mat as big as *P. subulata* and can be treated in much the same way.

Phlox divaricata: "The eastern American woodland phlox. Branchlets spread and root to form colonies." S. "Woodland phlox makes running clumps of blue in streamside woods. Sweetly fragrant flowers in clusters for weeks in spring. Grow in rich soil in shade or sun." R. "Indispensable in the spring garden." M. You could have this in a rock garden but only for a

short time. It needs the full run of a woodland to seed and spread. Many color forms, but the ordinary blue is probably the best.

Phlox stolonifera: "The creeping wood-land phlox from the US east coast." S. "Abundant clusters of long-tubed blossoms adorning 6-8" stems." WR. Again best where it can spread in a woodland clearing. Choose one of the good color selections, the species has a duller color.

Phlox subulata: "Prostrate mats smothered in late April to May with showy flowers." Rk. My favorite species amongst the "common" phloxes. Go to town selecting good colors and leaf forms. The word subulata means prickly (actually awl-shaped), but some of the forms and crosses have gentler foliage. Some people allow seedlings to flourish in the lawn and gain a convincing wild look to that stretch of garden; this stands a certain amount of mowing and foot traffic. If you have a very tidy mind you may not want the garden to spill over in this way. We have this phlox with thymes, too, much nicer than weedy grass, and by now beyond control. Several hybrids of unknown parentage, but probably including P. subulata, go under the name P. douglasii.

Potentilla verna 'Nana': "Sun; rockery. Tight buns of lustrous bright green evergreen foliage. Bright yellow flowers in early spring." W. (=P. tabernaemontani)

Primula acaulis: "Flowers borne singly on 3" stems, keep succeeding one another for weeks." R. This is <u>the</u> primrose. Not as easy to keep as the showy polyanthas but much more elegant. Its correct name is now *P. vulgaris. Primula vulgaris:* "The English primrose. Pale

yellow, fragrant, early." C.

Primula denticulata: "The drumstick primrose. The early appearance of flower buds means that occasionally the very first ones are caught by late frosts. Put it in a protected position in shade in either a very wet or average garden soil." M. "Spherical heads of crowded purple flowers on stout 12" stems." CA. There are some strong violet-reds and pale lilac-blues and a good white. The first buds nestle low down amongst the leaves and gradually grow to as much as a foot high as the flowers open.

Primula japonica: "This is a beautiful, late spring-flowering species which has flower stalks to two and a half feet. It requires considerable moisture to bloom well with 1-6 superimposed, many-flowered umbels." M. You can use it in the woodland, but it likes to be near water. It is the easiest of the candelabra primroses. If your plants self-sow, they will produce all colors from red-on-the-blue-side to white. If they don't, they are probably not happy enough to stay very long at all.

Primula xpruhoniciana (former name is xjuliana): The julianas are hybrids of P. juliae and should display its stoloniferous habit. ("Relatively small plants with dark green crinkly foliage and good sized flowers." CA). The crosses can be with P. vulgaris, in which case there would be only one flower on a stem, or with P. elatior or P.veris (or P. polyantha), in which case there would be multiple heads. Give them a shady place rather than the rough and tumble of a woodland to get them established. Later you can move chunks to the woods. In any case, division after two or three years is needed to keep the plants flowering well. Primulas respond to fresh ground and feeding.

Ptilotrichum spinosum: "A shrubby alyssum relative. Densely branched and spiny shrub covered in a haze of rosy flowers in early summer." S. "Shrubby domes of wiry silver stems, just two or three inches high. Rosy pink flowers in summer." R. The word shrub needn't scare you—this is just a low mound only a foot across. The color you get from seed is off-white, and it pays to get a 'Roseum' form if you want a brighter color.

Pulsatilla vulgaris: "Pasque flowers usher in spring. Their huge purple goblets are furry on the outside and close at night. On bright April days, before the leaves are on the trees, their blossoms will amaze you with their determined insistence that spring is here!" R. "These anemone relatives emerge in late winter as furry buds that open to big satiny goblets with golden stamens. Then the leaves unfold and the flowers become longlasting fluffy seed heads which are quite showy." S. "Exquisite, chaliceshaped purple flowers. Decorative fluffy seed heads." W. All the rhapsodies about pulsatillas are warranted.

Sanguinaria canadensis: "Pure white single flowers in the spring. Woodland." C. "Ethereal 2-4" flowers, white with yellow centers; attractive broad-lobed leaves last all summer." W. "An early spring delight as the striking white blossoms appear on stems that are clasped in the unfurled leaf."WR. The lovely bloodroot only lasts a few days, but it is so exquisite that it should be in every garden. Besides, the leaves are elegant masterpieces.

Saponaria ocymoides: "Pink spreading flowers late May-June. Easy. Bright." Rk. Good mat-forming and easy going. Saponaria x olivana: "A crisp clump of bright green leaves, about 2-3" high, with showy bright pink flowers that lay out flat on the ground, tightly around the exterior of the plant." WR. Another reliable soapwort.

Saxifraga x apiculata: "Closely packed cushion made up of half inch rosettes. Yellow clustered flowers on three-inch stems. The easiest Kabschia saxifrage to grow in the garden." R. "Crisp foliage and an inflorescence of primrose yellow flowers on compact 2" stems."WR. Most of the porophylla section of Saxifraga (kabschias) flower too early, grow too slowly or display too much temperament to grow in the open garden. Give them container conditions with cold-frame protection. This one is quite reliable outside.

Saxifraga: Mossy section. These plants are common enough in England, but many gardeners in the Northeast find them troublesome. I feel they are worth trying, and if and when they produce the brown patches that disfigure the mats after blooming and after winter, you can root cuttings in a sandy mix quite easily. Some people step on them to get the stems in contact with the soil and claim they will root in place, but I have had no such experience. 'Peter Pan' is a good one: "Vivid crimson flowers in spring." S.

Saxifraga paniculata: The silver saxifrages are the easiest and most satisfying for permanence. This species covers many forms and subspecies. All are suitable for any rock garden but better if you can avoid full sun all day. "Clumping mounds of silvery green foliage with white to pale cream flowers." CA.

Sedum cauticola: "It has rounded succulent leaves, wants part shade and pro-

duces rosy-pink flowers several weeks before those of its cousin, *S. sieboldii.*" M. "Ascending stems with broad graygreen leaves; erect inflorescences of rose-purple flowers in early autumn." W. "Picturesque rock plants with deep grayish-blue leaves and near-ruby red flowers." WR.

Sedum pluricaule: A well-behaved and handsome sedum.

Sedum kamschaticum: Semi-evergreen mat-forming species from Northeast Asia; lax stems with rather thin, spatulate, bright green leaves; large, yellow flowers in midsummer." W.

Sedum spathulifolium: Some forms of this West Coast native are a bit tender for me, and they all get damaged by very cold, exposed conditions. It is probably OK in S. Connecticut though, and all forms are very beautiful.

Sempervivum arachnoideum: "Heavily webbed white in spring." Rk. "Compact button-like rosettes with a white web. The more sun you give them the stronger the webbing will be." WR.

Silene schafta: "Long blooming from May to September." Rk. This plant has the same "value" as Saponaria ocymoides and is a standard in everybody's garden. It may self-sow and need a little discipline.

Silene virginica: "Sun or light shade; good drainage. Spectacular plant; rosettes of evergreen leaves; branched stems bearing 1 1/2" to 2" flowers with brilliant scarlet, bi-lobed petals; blooms for long period in spring." W.

Thymus lanuginosus: Introduce thymes into your rock garden with great circumspection. This one is woolly and slower than most. If you love them, try

to clear a sunny bank just for their benefit and find companion plants that can compete.

Tiarella wherryi: "Pink flowered foam-flower that stays in a clump. Has more pointed, palmate leaves than *T. cordifolia*." R. Whether or not you lump these two species you may still want this form. Grow it in woodland or a very shady place.

Trillium grandiflorum: "Queen of the spring woodland all over the east. Large snowy flowers produced in abundance on a mature plant are breathtaking." R.

Veronica armena: "Small charming plant only 2" tall, with radiating stems. Produces small loose sprays of gentian-blue flowers in mid-summer." CA. "Deeply divided leaves and bright blue blooms." WR. Some veronicas are a bit weedy, but this is quite well-behaved

Veronica prostrata: "Makes a deep green carpet that bursts forth with cobalt blue flowers in early summer." S. "Beautiful patch of long lasting color in June." R. There are white, pink, and blue forms of this mat-forming plant.

Viola labradorica: "This native violet has beautiful dark purple leaves throughout most of the year and small violet flowers for much of the summer. It is compact and not invasive." M. It is difficult to recommend any easy violets, because they are all more or less invasive. This one produces such small plants that they are not too destructive, and you can pull them out if they are in the way. The only violets not to fear are the impossible-to-grow ones from the Rockies and the Alps.

Viola pedata." About the showiest violet and one of the showiest wildflowers; flattish inch-wide (or larger) blue purple flowers; dissected leaves. "W. Some people find this spreads around. We have found it a good violet.

Vitaliana primuliflora (syn. Douglasia vitaliana): Lovely mat of hard silver-green foliage with yellow flowers just after the drabas have gone over. "Clear yellow flowers on a carpet of gray-green leaves." R.

The nurseries mentioned are not the only sources for these plants. I want to thank them for allowing me to quote from their catalogs. Here is a list of nurseries quoted, in operation in 1994: Siskiyou Rare Plant Nursery, Dept 1,2825 Cummings Rd, Medford, OR 97501

Rice Creek Nursery no longer sells mail-order

Montrose Nursery has closed.

Cricklewood Nursery, 11907 Nevers Road, Snohomish, WA 98290

We-Du Nurseries, Rte.5, Box 724, Marion, NC 28752-9338.

Rocknoll Nursery in operation under new management.

Woodland Rockery, 6210 Klam Rd, Otter Lake, MI 48464.

Colorado Alpines,Inc., P.O.Box 2708, Avon, CO 81620; no longer sells mailorder.

Nature's Garden, 40611 HWY 226, Scio, Oregon 97374.

POSTSCRIPT: AFTERCARE

What do you do when the plants you have ordered by mail arrive? Here are a few suggestions. There are no fixed rules to follow because there are too many variables: the nursery of origin, the size of the plant, its state of health, and most of all your own facilities. However, you must assume that the plant that has travelled by air has

all the potential ills that you might have on your first flight; it could be dehydrated, hungry, travel-sick, jetlagged, and just plain tired. It also could be very young and possibly ill.

If you have nowhere to put it except in the garden then do something like the following. Bare root plants: for shrubs and trees half fill a bucket with water, and set the roots in water for several hours. For a small plant use a vase or a cup. Put the container outside in a shady spot if the weather is warm; if it is really cold try a porch or somewhere cool indoors. Plants must not freeze or boil or bake-common sense obviously-but you would be surprised how easy it is to forget that the sun moves, nights get cold, furnaces kick on, etc., etc. Overnight is not too long for a shrub or a wilted plant to sit in water, and since UPS arrives in the afternoon, overnight is a

good idea for most plants.

Treat alpines and small perennials as you would a transplant of your own seedlings. Have prepared a container of compost and several clean pots of different sizes. The compost should be a mix of "what works best for you": I would use fifty percent soilless peatbased compost and fifty percent coarse sand, with a good helping of slow release fertilizer. There would be nothing wrong with adding soil or leaf mold and varying the proportions. You must remember that the aim is to get the plant actively growing again, so the mix should be airy, moist but not soggy, and contain nutrients. Also, the plant will be planted out in the garden before long. This means the compost must be compatible with your soil. There is no point in coaxing a plant to start regrowth in a mixture heavily laced with perlite if you are then going to plant it out in a garden of heavy clay. Nor should you overdo the sand if the ultimate planting out

place is a leafy woodland.

Plants already in compost: Many plants arrive with something clinging to their roots which will be wrapped in foil, plastic, newspaper, or some other material that holds the whole together. You should shake off the loose material and find out whether the roots are actually growing in it, or whether the material is merely for protection. Protective material, usually peat, may hide the fact that the roots are folded over or bunched up in an unnatural way and need to be spread out before planting. Don't incorporate the dry peat with your own compost, as it may throw the texture out of balance and decrease wetability. If the roots are in fact growing in the medium, it is more than likely they were taken from a rootbound pot and are bunched up. Straiten out the root ends, trim off the broken pieces, use judgment about how much growing medium to retain, and plant on in an adequately large pot-one big enough to hold the roots comfortably spread out -but not so large that the plant "drowns" in soil. "Almost pot-bound" is about right. You may have to trim off an unusually long root, but this requires great discretion and even greater courage.

If the plant is still in its container: you could knock it out and discard loose compost from the rootball and replant it in a slightly larger pot if needed. If the plant looks perfectly happy (I mean not hopelessly potbound or loosely planted) in its pot,

leave it there.

When the plants have been repotted, stand them in an inch of water and leave them overnight. Next day take them outside into a shady place and leave them there for a week or so before you plant them in the garden. Even if you have to delay planting out they should be fine for weeks, but they may need more sun and water. I think it is a waste of time to plant out real invalids or plants that are too small, so find a protected home for these orphans. What is "big enough" and "healthy enough" to plant out is a matter of judgment accumulated over years of failures and successes. Don't expect a hundred percent success rate with any shipment.

If you have nowhere to put plants except in the garden (you may not have a holding place or even a work place; or the roots of a bare-root plant may be larger than you can accommodate in any of your store of used pots), it is imperative to cover them with an upturned pot or bucket to protect them from sun and harsh weather. Since these will be left in place until the plant shows signs of new life or dies, the pots will need a stone to hold them in place. By the end of the shipping season you will be thoroughly tired of looking at a garden full of upturned plant pots.

In general, discard as much imported soil or compost as is compatible with the health of the plant. It will be a different compost from the one you use and may carry pests, slug eggs, diseases (not likely but it has happened), and weed seeds, moss, liverwort, or other weeds (this very often happens). This advice is even more important if you are going to keep the plant in an alpine house, as the whole house could become infected. Be ruthless in destroying liverwort. Many gardens have been disfigured by this pest being inadvertently or carelessly introduced from a nursery. Remember that during their busiest season a nursery may not be able to weed every plant before shipping, so you have to be prepared for Good and Evil to arrive together by UPS and take necessary precautions.

STARTING A NURSERY

If you are thinking of going into the nursery business and have a strong interest in growing rock garden plants to sell, there are a few points to bear in mind. This is not a list of "basic plants" in the sense that every rock gardener should grow them. It is a selection of plants available through mail-order catalogs in 1994. Some of these plants will always be favorites, but most of them are available for only two or three years and then side-lined for a few years before being revived at a later date. A good list should have a strong element of change in order to keep customers happy. Gardeners want novelty, which sometimes implies rarity, and a list with unique offerings is very attractive.

The other danger in having a list that is too static is that gardeners, being generous people, share their plants with others, so a plant that is easy to propagate for you is going to saturate the market at a great rate. This happened with plants like Anemonella 'Shoaf's Double' and will probably happen with Corydalis flexuosa 'Blue Panther'. But the plants that "everybody seems to have" will be lost by the majority of gardeners, who are normal, busy, careless, unprofessionals, and they will eventually become collector's items again in the future. Now the Anemonella has become a rarity again. Difficult but growable plants like Porophyllum saxifrages or asiatic gentians will always be in demand. Especially popular are good clones or special forms, and rock gardeners are as susceptible to names like 'Beauty of Denver' or 'Panayoti's Pleasure' as any other gardener.

Modified with permission from "A Gardener Obsessed", David R. Godine: Boston. 1994.

SEED EXCHANGE 1996

- Seed listings will be accepted only until November 1, 1995. Mail before that date please. Later ripening seed will be accepted *only* if an alphabetical listing or disk has been received before that date. Overseas members please air-mail before October 15th.
- 2. **Any amount of seed is appreciated.** Less than 5 seeds will **not** be listed. To receive donor privileges (10 bonus packets) send a minimum of 5 different kinds of seed suitable for the rock garden.
- 3. **Send** *clean* **dry seed as early as possible.** We appreciate several mailings as the seed ripens. You will be issued a 1996 donor number with your first submission. Please include this number with subsequent mailings.
- 4. Use paper envelopes no larger than 2" x 4". Use separate envelopes for each kind of seed. One small envelope is usually sufficient, except for such large and frequently requested items as Arisaema sikokianum, A. backii, A. candidissimum, A. purpureogaleatum, Glaucidium palmatum or Trillium simile. Besides the preceding, the following smaller items are always in short supply: Campanula zoysii, Aquilegia jonesii, Eritrichium nanum, Dicentra peregrina, Lewisia tweedyi, Campanula piperi, Shortia soldanelloides, Shortia galacifolia, Paraquilegia sp., Jeffersonia dubia, Phlox hoodii, and Dionysia involuctrata.
- Mark, legibly, each envelope with the botanical name printed in block letters. If collected in the wild, state the location. Please include your name on each envelope.
- 6. On the Seed Donation Form provided (as an insert) list the botanical name in alphabetical order, followed by: the class, Annual, Biennial, Perennial, Bulb, Fern, Shrub, Tree; the approximate height, including flower, in metric; the flower color, red, blue, bi-color, mixed, etc.; the location if collected in the wild; the reference book or Flora if this is a new listing for the Seed Exchange. Be sure to fill out the donor name and address. If you are listing very many, you may send this information on a computer disk (3.5") instead.
- 7. Group envelopes alphabetically. Check that seed envelopes sent match the list. Secure the envelopes with a rubber band and enclose in a padded mailing envelope with the Seed Donation Form. Be sure your name and

address are clearly written on the outside of the mailing envelope. Ask the postmaster to *hand cancel* the envelope.

8. **All members of NARGS will receive a seed list**. After you receive the list, please return your order promptly. Remember, this is not a commercial operation.

Mail seed early to: Jane McGary, Phase I Chairperson Columbia-Willamette Chapter

33993 SE Doyle Rd. Estacada, OR USA (503) 630-3339

Seed will be packaged by: Andrew Pierce, Phase II Chairperson Rocky Mountain Chapter PO Box 2078 Evergreen, CO 80439-2078

Seed will be distributed by: Donna Maroni, Phase III Chairperson PO Box 1107 Carrboro, NC 27510

> Director of the 1996 NARGS Seed Exchange Carole Wilder 221 West Ninth St. Hatings, MN 55033

GARDENING TIPS

The Tuck

Most of us come to rock gardening after vegetables, annuals, perennials, and possibly house plants. In all these practices, new plants are planted in the center of the available space. This gives the plant the maximum root run on all sides and looks neat. In rock gardens, consider altering this method, however. I like to tuck the root ball of the plant right up against a rock. My reasoning? These plants *like* to grow with rocks...but what does that mean? Rocks change temperature more slowly than soil, rock surfaces carry water in a different way than soil. Who knows exactly why, but rock plants seem to grow better next to rocks.

Also, rock plants look more like they do in Nature when they grow up against the rock. This is because in Nature seeds blow into the soil next to the rock and germinate there. Your rock garden will look more natural with this placement than if you center each plant in the middle of the soil pockets.

The Scratch

In a new rock garden there will usually be quite a bit of weed seed in the soil used to build the garden. What with extra water given to establish newly planted treasures, weeds will have an exceptional opportunity to germinate. Combat these little invaders with a three-pronged cultivator, either one with a short handle for close-up work or a long handle, if you like to work from a standing position. If you put down a gravel mulch a quarter to three-quarters of an inch deep, scratch it every seven to ten days for the first year after planting. If you ruffle the mulch just enough to stir it up—not so much that the soil below is brought to the surface—you will kill newly germinated weeds, often before you even see them. We "cultivators" like to go on stirring up the gravel for years, as it is a very fast way to keep the rock garden weed-free. Others find cultivation repulsive, as it kills self-sown seedlings of choice plants right along with weed seedlings. The first year this self-sowing isn't likely to be an issue.

Do note that the larger you allow weeds to become before you dispatch them, the more odious, onerous, and obnoxious a task it becomes. Get rid of 'em while they are small!

Pot-Dropping, Rapid Burial, and Maintenance

Most rock gardeners kill many plants. It is almost unavoidable when you try to grow plants with special requirements and plants that are difficult to grow—and most rock gardeners do. To keep the garden looking nice, be sure to bring new plants home on a regular basis. And remove the dead! Don't just leave them lying there; it is only respectful to recycle these plants promptly.

When you add or remove a plant, be sure to repair the mulch. Add soil or gravel as necessary. Add mulch to the whole rock garden whenever the soil

starts to show, and use the scratcher to harmonize the mulch.

—Gwen Kelaidis



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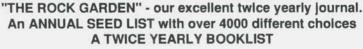
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