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Growing Annuals in South Dakota

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FS 322

ANNUAL FLOWERS

COOPERATIVE EXTENSION SERVICE SOUTH DAKOTA STATE UNIVERSITY U. S. DEPARTMENT OF AGRICULTURE

FS 322

growing ANNUALS in south dakota

by DEAN MARTIN, extension horticulturist

Annuals are plants which grow from seeds, attain maturity, flower, and produce seeds, all in one season or less, then die. They are different from perennials which grow and flower year after year, or biennials which grow vegetatively one year, flower the second season, then die. Some annuals appear to live over from year to year. Some hardy annuals may do this, but more often the plants which seemingly persist from season to season grow from seed which has wintered over in the soil.

As a group, annuals come from all parts of the world. There is no class more versatile. They are admirable for bedding, for edging, or for "fill-in" material in the spring bulb garden and perennial border. The length of the colorful garden display can be increased by several weeks if annuals are seeded in the garden from mid to late summer.

Keep these basic principles in mind when growing annual flowers:

• Procure seed from a reputable source. Investigate those varieties which have been tested and approved. Seedsmen are proud of their pure strains of annuals, and the desirability of using them can not be over-emphasized. Note which varieties have been awarded special citations. Most of them are truly superb.

• Keep annuals blooming and prolong the blooming season by picking faded flowers from the plants all summer long. If this is not done, the plants will bloom for only a short time and then die.

Annuals are listed under three classifications:

- 1. **Hardy**—withstand early spring frosts and can be seeded in the garden as soon as the ground can be worked.
- 2. Half-hardy—require a longer season in which to mature and bloom; should be started in-doors.
- 3. Tender—require a still earlier start in the greenhouse or hotbed; cannot be transplanted outdoors until all danger of frost is past.

Hardy Annuals

These may be sowed directly into the soil early in the spring. Dig the soil deeply, pulverize, and liberally enrich with well-rotted barnyard manure or other organic matter at the rate of about 5 bushels per 100 square feet of garden area. A 10-10-10 or similar commercial fertilizer—2 pounds used over the same area—may be incorporated during soil preparation. Hardy annuals include these . . .

> African Daisy (Arctotis and Dimorpotheca) Alyssum Annual Anchusa Annual Baby's Breath Bachelor's Button Calendula California Poppy (Escholtzia) Calliopsis Candytuft Celosia Clarkia Cosmos Annual Sweet William (Dianthus) Stock Gaillardia Larkspur Lupine Marigold (all types) Petunia Phlox Poppy (Shirley) Sunflower (Helianthus) Sweet Pea Verbena Zinnia

Half-Hardy Annuals

These may be started indoors or in the greenhouse about mid-March in shallow containers (3 to 4 inches deep). Sow the seeds in a light, friable soil containing 30 to 40 per cent sand. Sow very fine seeds on the surface of the soil, and press in—don't cover. Keep the containers in a warm place. Shade the container with a piece of paper and water sparingly until the new plants emerge above the soil. Then move gradually to full sunlight. There they may require more water, but be cautious not to overwater—this causes plants to grow rank and succulent, and predisposes them to attack by "damping-off" diseases.

The list of half-hardy annuals includes these ...

Annual Asters Annual Flax (blue and scarlet) Lobelia Painted Tongue (Salpiglossis) Pansy Petunia Phlox Salvia Snapdragon Sweet Sultan Torenia Verbena Wallflower



Tender Annuals

These must be started in the same way as halfhardy sorts, but earlier—in Februrary in the greenhouse or in hotbeds during March.

Tender annuals include ...

Balsam (Impatiens) Butterfly Flower (Schizanthus) Castor Bean Chrysanthemum (annual) Floss Flower (Ageratum) Gourd Mignonette Nasturtium Scarlet Runner Bean Everlastings

Annuals for Color

Not even among perennials can the brilliance and variety of colors match those of annuals. Annuals truly run the gamut of the spectrum. Individual tastes will determine the arrangement of colors in regard to pleasing combinations, but pay attention to harmony. Beautiful effects can be achieved by arranging single sorts or types or colors of flowers in masses or "drifts" rather than by using only a few of each type spaced far apart in the garden. The following combinations have been tried and found to give excellent results:

MAROON AND WHITE: Scabiosa and Nicotiana; Black Prince Snapdragon and Sweet Alyssum

BLUE AND YELLOW: Calliopsis and Bachelor Button; Zinnias and Larkspur

PINK AND YELLOW: Snapdragon and Marigold; Verbena and Calendula; Annual Phlox Drummondi and Snapdragon; Scabiosa and Marigold

PINK AND BLUE: Annual Phlox Drummondi as edging for Larkspur; pink and blue Larkspur; Sweet William and Ageratum

ORANGE AND RED: Calliopsis and Nasturtium; Marigold and Salvia; Zinnia and Marigold; Gaillardia and Marigold

Annuals for Cutting

Annuals planted in rows are a valuable addition to any vegetable garden. They may be cut and used for floral arrangements without ruining the display as they would if taken from the permanent border planting. Among the best annuals for the cutting garden are the following ...

African Daisy Annual Asters Annual Carnation Baby's Breath Bachelor's Button Chrysanthemum (annual) Cosmos Everlastings (ideal for dried arrangements) Grasses mual) Larks Love Mar Mig Nastu Painted Tongue (Salpiglossis) Pansy Pentunia Phlox Poppy Stocks Sweet Pea Sweet Sultan Verbena

Annuals for Shade

More often than not it is difficult to grow good, thrifty plants in shade. Plants grown with insufficient sunlight tend to grow tall and rank, have weak stems, and foliage and flowers lack good color. There are some sorts of annuals, however, which are shade tolerant. They include ...

> Annual Asters Bachelor's Button Pansy Butter[ly Flower (Schizanthus) Snapdragon Torenia

Annuals for the Rock Garden

The "backbone" of any good rock garden is a selection of low-growing evergreens and deciduous shrubs and perennial plants. Annuals are valuable here, too, because of their brilliant color display, especially at a time when other sorts have finished flowering. The best of the low-growing annuals for this purpose includes...

> Baby Blue-eyes (Nemophila) Baby's Breath (Gypsophila) Meadow Foam (native in wooded areas of the state) Pimpernal Stonecrop (Sedum species) Violet Cress Diamond-Flower

Annuals to Grow on Dry Soil

Browallia Candytuft Cosmos Cynoglossum (Blanche Burpee) Gaillardia California Poppies Calliopsis Zinnias Red Flax Portulaca

Annual Climbing Vines

Canary Creeper Cardinal Climber Cup and Saucer Vine Cypress Vine Gourds Hyacinth-bean Vine Moonflower Vine Nasturtium Scarlet Runner Bean Sweet Pea Wild Cucumber

Annuals for Fragrance

Alyssum Candytuft Dianthus (Sweet William) Stock Mignonette Petunia Snapdragon Sweet Pea Nicotiana Verbena Siberian Wallflower

Annuals for Edging

Alyssum varieties: Little Gem (white) Carpet of Snow (white) Royal Carpet (violet) Violet Queen (violet and white) Anagallis (Pimpernel, many colored) Brachycome Lobelia Dwarf Nasturtium Nemesia Nemophila Pansy

Annuals for Hanging Baskets and Window Boxes

Clock-Vine Kenilworth Ivy Alyssum Browallia Dusty Miller Dwarf Zinnias Floss Flower (Ageratum) Lobelia Perwinkle (Vinca) French Marigolds Tom Thumb Nasturtiums Pansy Petunia Phlox Portulaca Verbena

Annuals to Grow in a Damp Location

Annual Forget-me-nots (Myosotis) Pansy Phlox Sanvitalia Butterfly-flower (Schizanthus)

ANNUAL FLOWERS FOR SOUTH DAKOTA

Botanical Name	Common Name	Height	Color	Uses	Planting Time (*Best Method)	Planting Site Preference
 Ageratum Dwarf Intermediate Tall 	Floss flower	4-8 inches 9-12 inches 18-24 inches	Lavender Blue White	Edging Bedding	Inside*—March Outside—May	
2. Alyssum Compact Spreading	Sweet Alyssum	3-4 inches 6-10 inches	Lilac White	Edging Bedding	Inside—March Outside*—April	Sun
3. Antirrhinum Dwarf Intermediate Tall	Snapdragon	6 inches 18 inches 36 inches	Most colors except blue	Cut flowers	Inside*—March Outside—April	
4. Calendula	Pot Marigold	18-24 inches	Yellow Orange	Cut flowers	Outside—April	Sun or partial shade. Most soils.
5. Calliopsis Dwarf Tall	Calliopsis	9-15 inches 18-30 inches	Yellow Brownish-red	Cut flowers	Outside—April	Sun or Shade
6. Callistephus	Annual or China Asters	18-36 inches	White, Pink Scarlet, Blue Purple	Border Cut flowers	Inside—April Outside—May	Sun or Partial Shade
7. Celosia Cristata Plumosa	Crested Cockscomb Plume type Cockscomb	12-24 inches 24-36 inches	Bright yellow, Red	Bedding	Inside*—March Outside—May	Sun or shade. Prefer rich soil.
8. Centaurea Cyanus	Bachelor Button	24-36 inches	Blue, Pink Purple, White	Cut Flowers	Outside—March	Sup
9. Cosmos	Cosmos	2-5 ft. 3-4 ft. 6-3 ft.	White, Lilac Pink, Crimson Orange	Cut Flowers	Inside*—April Outside—May	Sun
10. Delphinium Ajacis	Larkspur	2 ft.	White, Pink, Blue, Scarlet Purple	Borders Cut flowers	Fall or Early Spring	Sun
 Dianthus Many species and varieties 	Annual Pinks	12-inches	Red and related tones	Bedding plants, cut flowers	Inside*—March Outside—April	Full Sun
12. Dianthus Caryophyl- Ius	Carnation	1-1½ ft.	Red, rose, Pink, White Yellow	Bedding Cut flowers	Outside—April (Cloth protection)	Full Sun
13. Impatiens Balsamina Dwarf Tall	Balsam, Touch-Me-Not	6-8 inches 2-2½ ft.	Orange Rose White, Pink	Bedding	Inside—March Outside—April	Sun or Shade
Sultani 14. Lathyrus odoratus Dwarf Tall	Sultana Sweet Pea	15 in. 8 inches 5-6 ft.	Rose Various	Border Arrangements Corsages	Outside—April Inside—Feb. or March Outside—April	Tolerates shade Sun
15. Mirabilis Jalopa	Four O'Clock	1½-3½ ft.	Crimson, Yellow White, Striped	Hedge Foundation	Inside*—March Outside—April	Sun
16. Molucella laevis	Bells of Ireland	2-3 ft.	Bell-like sheath is green, Small flowers white	Flower Arrangements Border	Inside*—March Outside—May	Sun
17. Nicotiana Alata Sanderae sylvestris	Flowering Tobacco	1-5 feet 1-3 feet 1-5 feet	White Red White	Bedding		Sun or partial shade. Most soils.

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Botanical Name	Common Name	Height	Color	Uses	Planting Time (*Best Method)	Planting Site Preference
18. Petunia	Petunia	6-12 inches 1-2 feet	White Rose Purple Yellow Pink	Bedding	Inside*—March Outside—May	Sun or Shade
19. Phlox Dwarf Tall	Annual Phlox	6 inches 1-1½ ft.	White, Magenta, Rose, Purple	Bedding Border	Inside*—March Outside—May	Full Sun Sandy Soil
20. Portulaca grandiflora	Moss Rose or Sun Plant	6 inches	Purplish- crimson, Yellow, White	Bedding	Outside– October or April	Hot, Sunny location
21. Salvia splendens	Salvia, Scarlet Sage	2-3 ft.	Scarlet	Foundation bedding Border	Inside*—March Outside—May	Sun
22. Scabiosa atropur- purea	Pincushion flower	2-3 ft.	Purple, Blue Mahogany, Rose, White	Cut flowers	Inside*—March Outside—April	rdalasana
23. Tagetes Dwarf (French) Tall (African)	Marigold	8-12 inches 2-3 ft.	Yellow Red, Orange	Edgings Cut flowers Bedding Background of Border	Inside*—March Outside—May	Sun Sandy soils
24. Tropaeolum Dwarf Medium Tall (Climbing)	Nasturtium	10 inches 1½ ft. 6 ft.	Yellow, Orange Scarlet	Bedding	Outside—April	Sun
25. Verbena Dwarf Tall	Verbena	6 inches 1 foot	White, Rose, Purple, Yellow	Ground cover Bedding Border Cut flowers	Inside*—March Outside—April	Sun
26. Viola tricolor	Pansy	8 inches	Purple, Blue, White Yellow	Bedding Small arrangement	Inside*— February	Partial Shade
27. Zinnia Dwarf Tall	Zinnia	1-1½ ft. 3 ft.	Various	Bedding Arrangements	Inside*—March Outside—May	Sun Rich Soils

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