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1921
**MILLER'S
EXQUISITE**

DAHLIAS

Over 400 of the World's Finest Varieties, Including the Best Novelties
of Recent Introduction

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A view at my display garden. You can grow Dahlias as large and beautiful as these are by following cultural directions on inside of back cover page.

N. A. MILLER

P. O. Box 4125

DAHLIA SPECIALIST

Portland, Ore.

Display garden at 67th and Division Streets, on route to the Columbia Highway. Visitors always welcome. Take Hawthorne car to 61st and Division; walk 6 blocks east.

New Dahlias of Special Merit for 1921

NOTE—This collection supplied in Plants Only, at the prices quoted

These green growing plants are propagated from strong, healthy, field-grown roots and will give equally as good or better results than dormant tubers, if given a little more care in the early stage of their growth.

- Bertha Story.** New giant, decorative. A beautiful deep rose pink; very large and free flowering, \$1.00
- Dorothy Wooten.** New. A beautiful rose-pink of immense size. The large, massive blooms are borne gracefully on stems three feet long; exceptionally fine, \$2.00
- Garnet King.** New Oregon decorative. A beautiful flower of giant size. Color a rich shade of deep garnet-maroon; extra strong stems, often two feet long, \$1.50
- Jack London.** New. Giant blooms; color a dazzling vermillion-scarlet, deepening in the center; long, stout stems; free bloomer, \$1.00
- La Favorita.** H. C. New California variety. Color a beautiful brilliant salmon, shading from dark reddish-salmon in the center to salmon-pink at the twisted tips; extra long, strong stems. XXX cut flower, \$2.50
- Magnificent.** New California cactus of immense size, flowers often eight inches across; color a beautiful oriental buff, overlaid with a satiny rose-salmon; fine stems; very free bloomer, \$1.50
- Mary C. Burns.** New decorative. Wonderful color. The face of the petals are old gold and the reverse a dull red; excellent stems. Plants only, \$2.50
- Millionaire.** New. Giant blooms, often over nine inches across; color light lavender lighting to white center; strong stems. A prize-winner, \$2.00
- Mrs. Addison Pratt.** New. Decorative. Beautiful combination of delicate buff suffused a bronzy copper color; very large blooms; good stems; exceptionally fine, \$1.50
- Oregon Sunset.** New Peony. Color a rich golden yellow, heavily suffused and dusted orange-crimson; vigorous grower and free flowering; long, stout stems, \$1.50
- Osam Shudow.** Famous new California variety. Blooms often 9 to 11 inches across. Color a beautiful old rose, slightly suffused with lilac, and shading to yellow at base of petals. Extra strong stems. Without a doubt the largest and finest decorative of recent introduction, \$5.00
- Pride of Portland.** New. Giant Peony. Quite similar to Geisha in color, but the yellow is brighter, and the red is of a richer shade, flowers are more double and much larger, with stems in proportion, \$2.50
- Princess Pat.** Wonderful new California decorative. A beautiful soft old rose color; blooms very large and full, averaging 8 to 10 inches; long, stiff stems. Plants only, \$1.50
- The Grizzly.** New. It's a bear for size. Blooms 8 to 10 inches across and full to the center, with reflexed petals; stiff stems three feet long; color a dark velvety maroon red. Exceptionally fine decorative, \$2.00
- Washington City.** H. C. New California variety. Giant star-like flowers of purest white; long, strong stems, \$1.50

For Additional New and Rare Dahlias, See Page 12.

Cultural Directions will be found inside of Back Cover Page.

PLEASE READ BEFORE SENDING YOUR ORDER

Order Early. As orders are received stock will be reserved and sent out at the proper time—about the 15th of April or sooner if requested.

Terms. Cash with order. Send P. O. or Express Money Order, Registered Letter or Bank Draft. Stamps accepted on small orders.

Prepaid. All orders are sent with charges prepaid.

Guarantee. All dahlia tubers sent out to be true to name and in good growing condition. If any should prove otherwise please notify me and I will gladly replace the stock or refund your money.

Substitution. I never substitute unless asked to do so. But would suggest naming a few varieties as second choice, in case I should be sold out of the varieties ordered.

Name and Address. Write your name and address plainly and address all orders and correspondence to

N. A. MILLER, *Dahlia Specialist*
P. O. Box 4125, Portland, Ore.

CACTUS DAHLIAS

THE Cactus type will always be very popular because of its distinct and unique formation of petals, which gives the flowers a chrysanthemum-like appearance. Most varieties have long, narrow and gracefully incurved petals, while some are straight. The Hybrid Cactus have large, bold flowers with broad, fluted petals.

- Auburn Beauty.** Beautiful light bronze; red, passing to yellow center, 30c
- Attraction.** H. C. Flowers of largest size; clear rosy lilac; strong stems, 50c
- Britisher.** New. Immense crimson-scarlet; fine for exhibition, 75c
- Baslisk.** Orange-scarlet; one of the largest varieties, 50c
- Bianca.** H. C. Finest shade of delicate lavender-pink; long, stout stems, 50c
- Border King.** Deep, rich, glowing scarlet; the large incurved flowers are held erect on long, stiff stems; excellent for exhibition or cut flower, 50c
- Chas. Sherbrooke.** New. A very beautiful and unusual color, of rich scarlet, with reverse of petals old gold, 75c
- Conquest.** Deep crimson maroon; large flowers, with long, twisted petals; one of the best dark varieties, 50c
- Capt. Scott.** Large and fine, pure white, with long, incurved petals, 30c
- Crystal.** Silvery pink, white in center; every petal incurves, and shows the white reverse at tips; a very beautiful variety, 50c
- Centurian.** Rich crimson-scarlet, with long, interlacing petals, 30c
- Conway.** A good pure white, 20c
- Constance.** A large, creamy yellow, suffused rosy pink on outer petals; long, incurved florets. A first-class variety, 50c
- Cygnat.** Yellow, striped and spotted scarlet, 30c
- Dorothy Durnbaugh.** Attractive shade of old rose pink; very large flowers, 75c
- Diana New.** H. C. A giant; crimson shaded violet; broad, irregular petals, 50c
- Ethel.** Soft rose pink, with white center; very large flowers, 30c
- Eterndand de Lyon.** H. C. Rich carmine rose, almost magenta; large, full flowers, wavy petals; very good, 35c
- Edith Carter.** Yellow, heavily tipped with bright carmine, 30c
- Emblem.** Deep primrose; suffused rose pink at the tips, 30c
- Empress.** Tyrian rose; immense flowers of perfect cactus type, 30c
- Ephrian Gill.** New. H. C. Huge flowers, often 9 inches across; color deep amber, suffused orange-scarlet. Won sweepstakes at National Dahlia Show, 1915, \$1.00
- Esther.** Soft silvery rose; large, full flower; one of the best, 30c
- Francis Graham.** H. C. Beautiful gold color, shaded deep salmon rose; immense blooms, 50c
- Florence Nightingale.** Large, bright yellow, 30c
- Frederick Wenham.** Very large flowers; color fawn pink, with salmon center; petals long, whirled and twisted, 30c
- F. W. Fellows.** Pure orange-scarlet with long, straight petals; very large flowers, often 8 inches across, on strong stems, 50c
- Golden Crown.** Golden yellow; very large, incurved flowers, 30c
- Golden Gate.** H. C. Rich golden yellow, tinted bronze or russet, 30c
- Garibaldi.** H. C. Very large flowers; color a brilliant rich scarlet, shaded darker toward center, with reverse of petals shading lighter; a very beautiful and artistic flower, 75c
- Graphic.** Very dark purple, distinctly tipped white, 20c
- Gwendoline Tucker.** Immense flowers of a silvery flesh pink, shading to light center, 50c
- Gondola.** Fine rosy pink, 20c
- Gigantic.** Pure old gold color; huge blooms, with long interlacing petals, 50c
- Glory of Wilts.** Clear bright yellow; good habit of growth, 20c
- Great Western.** Large, bright purple, 30c

'JULIAN' (True Cactus type)

Geo. Walters.	H. C. A giant California variety of special merit; rich salmon pink, shaded gold in the center; one of the largest and best varieties to date,	75c
Helen Durnbaugh.	H. C. A wonderful new variety. Delicate blush, deepening toward the center to an intense, glowing tint of soft rosy pink. Extra large flowers, and excellent stems. Sure to become a great favorite,	\$1.50
Huffnung.	H. C. German variety of very large size and exquisite coloring; chamois rose with light center, tipped gold,	50c
Homer.	Bright maroon; very large incurved flowers; fine exhibition variety,	50c
H. Wearing.	Salmon shading to bright amber at base; free bloomer,	20c
Herbert Raby.	English Novelty. Deep wine crimson; huge flowers, composed of long, narrow, twisted petals; tall grower,	50c
Hugh Mc Niel.	Beautiful deep pink shades; free bloomer,	30c
H. L. Sillem.	Rich cardinal red; long, narrow, incurved petals; free bloomer,	30c
Indomitable.	Dark rosy mauve; free and constant bloomer; large flowers,	30c
Irene Satis.	Amber in the center, deepening to bronze on outer petals; very large slightly incurved flowers,	50c
Irresistible.	Yellow suffused with rose; very large flowers on stout stems,	30c
Ivory White.	Beautiful ivory white color, with long, straight petals; very large flowers, often eight inches across, on long, strong stems,	75c
Ivernia.	Art shades of salmon fawn; very large and beautiful,	30c
Julian.	New English variety. Beautiful flesh pink, fading to almost white center. Exceptionally large flowers; good stems,	\$1.00
Johanasburg.	Bright gold suffused with a glowing golden sheen, which is very distinct in the sunlight,	30c
John Woolman.	Bright scarlet, slightly shaded bronze,	30c
John Riding.	Huge deep rich crimson flowers with splendid incurved and interlaced petals; excellent for exhibition or cut flowers,	50c
Jupiter.	Very large fancy cactus; yellow at base shading to pink; the whole striped and splashed crimson,	35c
Juliet.	Rose tinted pink; very pretty,	20c
Kalif.	Giant H. C. Pure deep scarlet, blooms often 9 inches across, on erect stems; one of the best,	50c
Kingfisher.	A large, pure lilac, with lighter center; a fine variety,	30c
Lady Swathling.	Beautiful salmon pink, shading to pale yellow center,	30c
Lustre.	Rich vermilion-scarlet, shaded crimson to the center, extra free,	20c
Lady Fair.	Primrose tinted pink; long petals split nearly one-third their length, giving the flower a feathery or fluffy appearance,	20c
Mrs. W. E. Estes.	New H. C. Very large, pure snow white, blooms often 8 to 9 inches across; on long, strong stems. Without a doubt the largest and finest dahlia of its color to date,	\$1.50
Melody.	Very large, clear yellow, heavily tipped white; extra fine,	50c
Marguerite Bouchon.	An exquisite shade of brilliant yet soft rose pink, with a large, white center; long, straight needle-like petals,	50c
Mrs. Seale.	Deep maroon, tipped with pink; very attractive,	30c
Mrs. Edw. Drury.	Delicate purplish crimson; large flowers on good stems,	30c
Mon's.	Very beautiful soft rose; blooms of large size; good stems,	50c
Mrs. C. H. Breck.	H. C. Cream yellow, shaded and tipped a rosy carmine; a very beautiful variety,	30c
Mrs. Freeman Thomas.	Salmon pink; early and free flowering,	30c
Mrs. F. A. Monroe.	Amber and gold; fine stems and quite large,	30c
Mrs. Edna Spencer.	New H. C. Lavender, shading to white center; very large flowers of beautiful formation, and extra fine stems. Excellent cut flower,	\$1.00
Mad. E. Nagels.	Beautiful golden yellow; long, incurved petals; fine stems,	30c
Mrs. Douglas Fleming.	Large, pure white; the long, narrow petals are so numerous as to make it a massive flower; one of the best,	50c
Mrs. Warrner.	H. C. Massive creamy white, tinted lavender; a very beautiful Holland variety,	75c
Mrs. C. Cooper.	Very large; cream color, lightly tinted salmon; extra long, narrow petals; flowers often measure 8 inches or more; one of the best,	50c
Nibelingenhort.	H. C. Beautiful salmon-rose, with golden suffusion; large blooms,	30c
Narcissus.	Rich yellow; some of the flowers come tipped white,	30c

Norman.	New. Bright orange red; very large flowers; extra fine for exhibition; dwarf grower,	75c
Neptune.	Very large, incurved flowers of deep rose-pink, speckled and striped with carmine,	50c
Nerthus.	H. C. Rich bronzy-orange yellow, shading to carmine-rose tips,	30c
Olympic.	Extra large, deep crimson flowers, often 8 inches across; petals very much incurved; invaluable for exhibition,	75c
Perriot.	Extra large flowers; color a beautiful deep amber, shading to soft salmon center and distinct white tips; received a first-class certificate, R. H. S., London, Eng.,	50c
Phenomenal.	Cactus. Beautiful shades of pale salmon, with yellow base and decided yellow tips; florets so long and ribbon-like that they form a tangled mass of petals, making the flowers look more like huge chrysanthemums than dahlias,	50c
Pres de Aplaincourt.	Large, rich, deep pink; a free bloomer,	35c
Royalist.	Very large incurved flowers of a beautiful coral red shade,	50c
Rapiere.	H. C. Pure gold shade, tinted salmon; very large and attractive flowers,	50c
Rev. T. W. Jamison.	Soft mauve-pink, suffused salmon,	30c
Record.	Rich oriental red, shading to yellow center; very free bloomer,	30c
Rhienschcr Froschim.	Very beautiful flowers; lower half of petals creamy white, passing to a luminous carmine-rose at tips,	50c
Ruth C. Gleadell.	New H. C. A. beautiful shade of yellow, suffused pink on outer petals; flowers of great size, on long, stout stems,	\$1.00
Sir Gen. Douglas Haig.	English variety. Beautiful tints of pink shading to almost white at tips; fine stems. Award of Merit, R. H. S., London, Eng.,	75c
San Francisco.	New. H. C. Bright orange, shaded reddish bronze; petals broad and twisted; very large flowers,	75c
Sentinel.	Bright, light shade of tyrian rose; very large, incurved flowers,	50c
Southern Belle.	Deep garnet-maroon; long, incurved petals; large flowers,	30c
Sportsman.	Vivid scarlet-red,	30c
St. Leonard's.	H. C. Bright orange-yellow, with outer half of each petal a bright scarlet; very attractive flowers,	30c
Snowstorm.	Large snow-white flowers; good stems,	30c
Sherlock.	Bright orange-cinnamon; early and very free large flowers,	30c
Sulphur.	Fine sulphur yellow,	20c
Sweet Brier.	An exquisite pink; admired by all who have seen it,	30c
Sunray.	Bright yellow, shaded salmon pink,	20c
The Imp.	Very dark maroon; almost black; large flowers,	30c
T. G. Baker.	Pure yellow; large, incurved flowers,	20c
Turtle Dove.	Silvery flesh pink; lower half of petals edged with scarlet,	30c
The Quaker.	Delicate lavender blush; a very unusual shade; early and free,	30c
Tokio.	A beautiful golden yellow, shading to a delicate pinkish-salmon, the whole suffused a rosy-carmine,	30c
Tustu.	Pretty velvety maroon; very free blooming,	25c
Tom Lundy.	Giant California variety; rich velvety red; flowers often 9 inches across, on excellent stems,	75c
Vater Rhein.	H. C. Light salmon-rose, shading to golden yellow center; immense blooms,	30c
Vicar of Wasperton.	An exquisite shade of soft pink, passing to cream center; very large, incurved flowers; narrow petals,	75c
Vulcan.	New. Very large, velvety, maroon flowers, with a small secondary white floret at the base of each petal; flowers so much incurved as to make them look like huge dark chrysanthemums,	75c
Valiant.	New. Brilliant crimson; giant flowers with very long, incurved petals,	75c
Ville de Lyon.	H. C. White center, changing to lavender pink at tips,	30c
Victory.	New. Large coral red; a new and unusual color; good stems,	75c
Walkure.	H. C. Very large sulphur yellow, deepening to gold center,	75c
Washington.	Large, light crimson; tall grower,	50c
Wodan.	Salmon-rose, shaded with bright gold; immense flowers; good stems,	50c
Wolfgang Von Goethe.	H. C. Rich apricot shade overlaid bright carmine,	30c
Wacht un Rhine.	Pretty apple blossom pink, suffused white; splendid stems,	30c
Wm. Marshall.	Rich deep orange, yellow center; large flowers,	30c
W. H. Brouson.	Deep rich rose; white center; extremely long petals,	30c
Yellow King.	H. C. Immense Holland variety; color sulphur yellow, shading to lighter tips; extra long, strong stems,	50c

PEONY DAHLIAS

LARGE, semi-double flowers with long, broad and wavy petals, usually curled and twisted about the center in a very artistic manner. Are vigorous growers and free bloomers. Fine for a grand garden display. (See illustration of New Peony Flowered Dahlias on front cover.)

Peony-flowered Dahlia "M. McLaren"

- Black Beauty.** New California Peony. Very dark maroon, of immense size; fine, long stems; early and very free flowering; very fine variety, \$1.00
- Belladonna.** White shaded delicate lavender pink, 30c
- Berloiz.** Old gold, suffused salmon red; a large and very attractive flower, 50c
- Berne Jones.** Large pearly pink, suffused heliotrope, 30c
- Cour de la Paix.** Salmon rose tinted violet; large flowers on long stems, 30c
- Chamelian.** Deep ruby red, shaded purple and cerise; large flowers, 50c
- Cecelia.** Creamy white, shading to lemon at base, 30c
- Chatenay.** A beautiful salmon pink, with yellow reflex; color very similar to the rose of that name, 30c
- Chowchilla.** A bright, warm yellow; petals long and partly rolled; immense flowers, 50c
- Dr. Peary.** Large, dark mahogany red; the darkest and one of the best of this color, 30c
- Dr. H. H. Rusby.** Immense lemon-yellow, shading to primrose tips; profuse bloomer, 30c
- Dr. Kupher.** Distinct shade of bright orange; fine stems, 30c
- Duchess of Brunswick.** A rich shade of apricot, shaded orange; large flowers, 50c
- Edith Cavell.** English novelty; huge flowers of an entirely new and distinct color; orange suffused and shaded old gold; stout stems, \$1.50
- Eleoner.** A beautiful bright rose-pink of large size, 30c
- Elsa.** A large pure white; long, stout stems; excellent cut flower, 50c
- Fairy Maid.** Blush white, beautifully blended with delicate orchid pink or lilac, 30c
- Freda Newman.** Bright orange bronze, shaded to old gold at the edges, 30c
- Frau Anna Galster.** Large, amber-yellow, tinted red; dwarf habit of growth, 30c
- Fugi.** Large, white, with lemon-yellow center; fine, long stems; very attractive and distinct, 50c
- Geisha.** One of the most popular varieties grown; golden yellow, changing to red, with yellow tips; the immense fluffy blooms are often 8 to 10 inches across, 50c
- Glory of Nykerk.** Rich crimson-cerise, tinted violet; very large and attractive, 50c
- Gypsy Queen.** English variety. Very dark velvety crimson, almost black, 30c
- Glorious.** New. Beautiful tints of cinnamon, apricot and buff, making a fine autumn shade; immense flowers, often 8 inches across, 75c
- Goliath.** An intense rich scarlet; large, artistically-twisted flowers, 75c
- Hal Curtis.** New. An exquisite shade of old gold and salmon; large blooms and splendid stems, 75c
- Helianthus.** Bright citron yellow, tinted cream; immense blooms; long stems, 50c

Mrs. Helen Ladd Corbett.	A beautiful soft lavender-pink of large size and extra long stems,	30c
H. J. Lovink.	A dainty shade of lilac on white ground,	30c
Holman Hunt.	Very large flowers; color deep, rich crimson, shaded with maroon; plants tall and strong,	50c
Hope.	English variety. Beautiful mauve color; very large blooms; long stems,	\$1.00
Hi Gill.	Rich golden yellow, with reverse of petals a reddish copper; very large flowers on long, strong stems; tall and strong grower; awarded a Gold Medal, P.-P. I. Exp., San Francisco, 1915,	75c
John H. Slocombe.	Intense deep velvety red; very large artistically formed flowers; long stems; extra fine,	\$1.00
Kakadee.	A very beautiful lemon-yellow, changing to white tips; early and free,	30c
Landyke.	Rich golden buff; large flowers; strong, erect stems,	30c
Lady Lloyd.	A deep cardinal red; large, full petaled flower; one of the best,	50c
Lorley.	Large, pale yellow, with lighter tips; long stems,	50c
Libra.	New. Gigantic blooms of a peculiar rosy-cerise color, with broad curled and twisted petals,	75c
Liberty.	A new and magnificent shade of salmon-scarlet; large blooms on long, erect stems; one of the best,	50c
London.	Showy crimson-red; very free flowering,	20c
Lieut. Oreville A. Stevens.	New. A distinct shade of light orange-scarlet; blooms large, on good stems,	75c
Lord Milner.	Golden yellow blended with cream and crimson; a pleasing combination of color,	30c
Geo. L. Mastick.	H. Peony. Large flower with wavy petals; very full to the center; color blackish-maroon, with currant tips on outer petals,	\$2.00
Mauve Satin.	A distinct pure mauve; large, gracefully formed flowers on good stems; early and very free,	30c
Millias.	A soft, creamy yellow, suffused salmon-pink,	50c
M. McClarn.	A very large pink flower, suffused with salmon; strong grower and free bloomer,	75c
Mad. Von Bystein.	Pure lilac-lavender; fine form and good stems,	30c
Mad. Vard.	A striking shade of rich currant red, shading to yellow center,	50c
Mad. J. Coissard.	A fine blending of white with carmine, red and garnet,	30c
Mabel Ramsey.	Beautiful apple blossom pink; a mass of flowers all season,	30c
Mrs. J. C. Vaughn.	Clear, bright yellow; large, incurved flowers on long stems,	30c
Mrs. Jack Green.	A California variety of immense size and beautiful form; brilliant bright crimson; long, graceful stems; exceptionally fine,	75c
Mrs. Geo. Gordon.	An exquisite pure cream color,	30c
Mr. A. Schuttevaer.	Large white, shaded with lilac,	30c
Morning Star.	Large cherry red; some of the flowers sport to white petals,	50c
Monschibe.	Huge golden-yellow flowers, carried on long, stout stems,	50c
Miss Quick.	Large, clear yellow,	30c
Meyerbeer.	Holland variety of largest size; crimson, suffused and lined purple; extra long, strong stems; exceptionally fine,	75c
Minister Talma.	An exquisite shade of smoky mauve, with lighter shading; blooms of immense size; fine stems,	50c
Mrs. Jessie Seal.	New. A beautiful shade of salmon-rose, suffused with gold; large, full flowers; extra long, graceful stems,	\$1.00
Nora Lindsay.	Dove color, suffused chamois and pink; reverse of petals shaded mauve; exceptionally large and odd colored flower,	50c
Nogi.	Beautiful orange-scarlet; large blooms on excellent stems,	50c
Old Gold.	Large, massive blooms; deep golden yellow; a very fine variety,	75c
Oriana.	Giant flowers of pure rose shade; a variety that is sure to become popular,	75c
Orlando.	Brilliant vermilion red; large and very showy,	30c
Pvt. Byron Streeter.	New. A fascinating shade of lilac-purple, suffused a dark lilac	
Phenomenal—Peony.	A pleasing combination of salmon, orange and violet with salmon on outer petals; enormous and very double flowers; strong stem, prevailing,	75c
Pembroke.	Carmine-purple, shaded white; immense blooms,	30c
Philadelphia.	Rosy, purplish carmine, shaded with pink and white; one of the freest bloomers of all,	20c
Pacific Grove.	Soft scarlet; large, fluffy flowers;	30c

Queen Esther. Color, "Du Barry," a dazzling new shade of red; flowers of immense size,	\$1.00
Queen Vilhalmina. Large, fluffy flowers of purest white; early and free,	20c
Richard Kock. Orange shaded with red and amber; large, showy flowers,	50c
Reynolds. Deep velvety crimson, overlaid scarlet,	30c
Rhiengan. Large, brilliant scarlet red, with long, pointed petals,	20c
Samoset. Very large light yellow flowers, sometimes tinted pink, with small curly petals about the center; extra fine,	50c
Star of Syracuse. New. A fascinating shade of light violet rose, suffused with blush; giant blooms,	50c
Seraphine. Large, yellow flowers; long stems; fine for cutting,	30c
Salvator. New. Deep rose pink; large flowers on long, strong stems; excellent for cutting,	50c
Silver Tips. Large bright red, heavily tipped with clear white; very attractive,	50c
Souv de Massdyke. Very large salmon-pink flowers; long, strong stems; an extra fine variety,	50c
Sunstar. Bright rosy crimson, shading to yellow center; very large flowers of "Giesha" form; a variety that never fails to attract attention,	75c
Sweet Sixteen. White, shaded and marked with rosy carmine; very long stems; profuse bloomer,	30c
Stanley. Orange suffused scarlet and buff. Very large, fluffy flowers,	30c
Salome. Bright shade of orange and buff,	30c
Stella Marcie. Crimson-scarlet, tipped and edged with pure white; very showy flowers,	20c
Turner. A beautiful peach pink of immense size; flowers often 8 inches across; one of the best,	50c
Themse. Rich amber yellow of large size,	30c
Telramund. Carmine red, fading to pink tips; extra long stems,	50c
Titian. Bright rosy-cerise or petunia color; large, fluffy flowers on long, graceful stems,	30c
Van Dyke. Large, artistically formed flowers of a lively salmon-rose shade, tinted heliotrope; extra long stems,	50c
Wadawanock. Bright coral red, with broad, wavy petals; early and very free,	35c
White Flag. Pure snow white; large flowers on long, stiff stems; very free bloomer,	35c
Webber. A beautiful mauve-pink of very large size and fine stems; truly a fine dahlia,	50c
Z. L. Brunton. Soft salmon-rose suffusion, shaded with lemon-yellow at center,	50c

DECORATIVE DAHLIAS

FLOWERS are of immense size, double and full to the center. Some varieties often produce flowers 7 to 10 inches, with long, strong stems. Excellent cut flowers and very fine for garden decoration. (See illustration on back cover.)

Amphion. Large mauve-pink flowers, with artistically curled and twisted petals,	50c
Adia. New. Deep maroon; large flowers carried on long, rigid stems,	50c
America. Rich salmon pink,	30c
Avalanche. Immense, pure white; one of the best white decorative dahlias,	50c
Arthur Cramm. Clear apricot; large flowers on good stems,	30c
Ballon. Apricot shaded amber-gold; large, perfect flowers,	30c
Billie Burke. New California variety; very large, soft yellow flowers; the petals are long, narrow and very numerous, making a massive bloom of beautiful formation,	75c
Barranca. Large canary yellow flowers; excellent stems,	50c
Berch Von Heemstede. Pure yellow; large flowers; a first-class variety,	30c
Beloit. Rich deep crimson-violet; the large, massive blooms are borne gracefully on extra long, clean stems,	30c
Bernice Warden. Soft buff, shaded pink; flowers very full and double, of reflexed form,	50c
Bronze Douzon. Bronzy-orange color; very large flowers,	50c
Brentwood Yellow. Deep pure yellow; very free flowering,	30c
Cambria. Rich rose pink, toning to white center; very large, full flower,	\$1.00
Corrie. Beautiful shade of light heliotrope pink, with reflexed petals; large, artistically-formed flowers on long, strong stems; a distinct and novel variety,	50c
Copper. Color copper, shading to bronze; immense flower; fine stems,	75c

A VIEW AT MY DAHLIA FARM THIS LAST SEASON

This picture does not quite do justice to the free flowering habit of most of the varieties I grow, on account of cutting thousands of blooms for cut flowers.

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Cream King. Beautiful shade of cream, overlaid primrose; very large flowers; a prize-winner at National Dahlia Show, Portland, 1915,	75c
Carmencita. New. Clear yellow, distinctly penciled with bright scarlet; a very beautiful flower of immense size; fine stems,	\$1.00
Charminster. Beautiful shade of delicate salmon pink, tinted terra cotta; large, perfect flowers; early,	50c
Creation. New. Very beautiful shade of rich cherry pink; long, erect stems; exceptionally fine cut flowers,	50c
Challenge. New. Large and distinctly colored flowers; yellow at base; heavily marked deep garnet-crimson towards the tips; a very free bloomer,	50c
Dr. Henry Sewall. A fine combination of pinkish fawn and golden amber shades; blooms large and handsome; very early; free flowering,	50c
Dream. New Holland novelty. Exquisite shade of peach pink with an amber glow; extra fine cut flower,	\$1.00
Dr. Harry Tevis. New California variety; very large flowers; color old rose, suffused with gold and shaded amber; a prize winner wherever shown,	\$1.00
Delice. Beautiful pink; the most popular florist's variety for cut flowers,	30c
Delight. Pale pink shades with yellow tips,	30c
Eagle Rock. Large, massive flowers of creamy white, blended with apple blossom pink; good bloomer,	75c
Francis Burns, Jr. New. Huge blooms of a beautiful rose-pink, with creamy center,	\$1.00
Francis A. Butts. An immense blush white; extra long, clean stems,	50c
Futurity. New English variety; beautiful shrimp pink, shaded to salmon-rose; large flowers on long, strong stems; extra fine for any purpose,	75c
Forest Loma. New California variety; a very large full-petaled flower; color a combination of light yellow heavily shaded with deep, rosy cerise,	\$1.00
Fancy Free. Beautiful rosy pink; fine for cutting,	30c
Golden Tassle. Rich orange yellow, fringed petals; very pretty,	30c
Gen. Custer. New. Flowers often over eight inches across; color an interesting combination of yellow, white and coral red; no two blooms come alike; very free flowering,	75c
Harold. Salmon red with bronzy sheen; very free flowering,	50c
Hortilanus Fiet. Salmon-rose shaded with gold; very large flowers, often 7 to 9 inches across,	50c
H. G. Newman. Deep cherry red, with petals deeply lacerated at points,	30c

Immense.	White, marbled and streaked crimson lake; very large flowers,	30c
Insulinde.	New Holland variety; beautiful golden orange; very large flowers with broad, wavy petals; strong, erect stems,	\$1.00
Jane Selby.	New novelty; enormous flowers of perfect formation; color delicate mauve pink; highest awards, San Francisco, 1918,	\$1.00
Jonekeer Borell.	New Holland variety; clear bronzy buff yellow; a gigantic flower on long, strong stems; extra fine,	\$1.00
J. M. Goodrich.	New. A beautiful salmon pink, each petal effectively tipped primrose yellow; long stems and free flowering,	50c
King of Autumn.	New. A beautiful autumn shade; color burnt amber, deepening in center, slightly tinged rose; extra fine,	75c
King Albert.	New Holland variety. Pure violet purple; extra large, full flowers; strong stems; very early and free flowering,	\$1.00
La Luna.	Very large cream-colored flowers; extra fine,	75c
La Conner.	Beautiful shrimp pink, with a golden suffusion; received Silver Medal, P.-P. I. E., San Francisco, 1915,	50c
Le Grand Manitou.	Extra large variegated flowers; white striped and spotted violet-purple,	30c
Leo XIII.	Bright yellow; extra large flowers; early and free bloomer,	50c
Matador.	An exquisite shade of soft chamois rose; large, perfect flowers; early and free,	50c
Miss May Moor.	Large, pure white; extra fine stems; free bloomer,	75c
Marie M. Selma.	A beautiful pure rich pink shade with wavy reflexed petals, making a flower of fine artistic formation; long stems; exceptionally fine cut flower,	50c
Maman Rozain.	Pearly white, suffused rosy purple; very attractive,	30c
Maryan.	Orange buff, suffused flame color; very large flowers on stout stems,	50c
Mrs. Geo. Pope.	Pearly white, blending to yellow center; a large flower of perfect formation and good stem,	50c
Masterpiece.	Rich tango color; long stems,	30c
Meadow Gold.	Primrose yellow, tinted light pink,	30c
Mina Burgle.	A glowing deep scarlet; large size; a favorite florist's variety for cut flowers,	30c
Morocco.	Deep purple, tipped white; very attractive,	20c
Mrs. Jas. Lang.	Large reddish maroon; long stems,	30c
Mrs. A. Cobb.	Large, soft flesh pink; fine stems; free flowering,	30c
Madonna—The Bride.	Silvery white; flowers often 8 inches across; with wavy and slightly reflexed petals,	50c
Mons Caprion.	Rich, glowing crimson-lake, edged with almost invisible white,	50c
Mons Le Normand.	Yellow striped and speckled red; a large and striking flower,	75c
Marcella.	New. A beautiful, clear, soft pink; long, hard stems; a very early and free bloomer. Sure to become a favorite with florists on account of its beautiful color and extra fine keeping quality when cut. Plants only,	\$1.50
Nevada.	Large pure white flowers, on extra fine stems; excellent cut flower,	30c
Oregon Beauty.	Immense blooms; bright fiery scarlet, overlaid with a golden sheen,	30c
Pride of California.	New. Huge crimson red, shading darker to the center; very large blooms, carried on extra long, strong stems; awarded Gold Medal, San Francisco, 1918,	\$1.00
Perrie Le Bloud.	Large and attractive fancy maroon; petals evenly tipped white,	50c
Pa Fenton.	Beautiful clear shade of rosy-lilac; flowers not extra large, but a very early and free bloomer,	30c
Purple Mantou.	A lively royal purple; large flowers,	30c
Princess Mary.	New Holland variety. An exquisite rich pink shade, margined with blush; carries a mass of flowers on strong stems; extra fine cut flower,	75c
Polar Star.	The purest white; long narrow-rolled petals; blooms often eight inches across; extra long stems; very early and free bloomer; one of the best new varieties,	75c
Rowena.	New English decorative. Fawn, suffused salmon; reverse of petals and center of flowers tinted violet; very large and beautiful; long, rigid stems,	\$1.00
Reise Von Stuttgart.	A rich crimson-scarlet; one of the largest,	30c
Queen Mary.	An exquisite satiny pink; fine stems,	30c
Stunner.	New. Very large, canary yellow; strong stems,	75c
Startler.	English variety. Giant blooms, often 9 to 10 inches across, of a pleasing scarlet color; flowers produced freely on long, strong stems; one of the best,	\$1.00
Shasta.	A giant. Pure white petals split or serrated at the tips; good stems,	\$1.00

Seabright. Apricot buff; a color much in demand for cut flowers,	30c
Sabastopold. A real rich orange color; immense blooms; tall grower,	30c
Sonne Von Fellenback. Soft primrose yellow; very large flowers, often 8 inches across,	30c
Sulphureau. Clear sulphur yellow; long, narrow-rolled petals; extra large and beautifully formed flowers; fine for cutting; received first-class certificate, N. D. S., London, Eng.,	75c
Souv de Donzon. Pleasing shade of orange red; large size,	20c
Tango. Showy orange-bronze; very large double flower with pointed petals; long, strong stems,	50c
Tenor Alverz. Lilac-rose, variegated with crimson-purple; large flowers,	30c
Wopper. New. Buff yellow, shaded orange; very large flowers; tall grower,	\$1.00
Warneford. Pure snow white; large flowers and good stem,	50c
Yellow Colosse. Bright yellow; one of the best,	30c
Zeppelin. Soft shade of violet-mauve, changing to silvery blush,	30c

COLLARETTE DAHLIAS

Is a single flower with a collar of small petals around the yellow center, usually of different color. They have long, stiff stems and are the freest bloomers. Unequalled for a continuous garden display or cut flowers.

Carl Backstad. Bright oriental red, with yellow collar; very fine,	15c
Choche. Pure lilac with yellow collar; large flowers,	30c
Crown Princess Charlotte. Chestnut red, with yellow collar; extra large flowers,	30c
Garland. Vivid orange-scarlet with cream collar; very good,	30c
Giant de Lyon. Very large, rich velvety maroon; white collar; fine stems,	75c
Herald. Soft, rosy pink with deeper shadings; collar white; extra large and fine flowers,	30c
Islene. White flushed with cerise-pink; pure white collar; the best in the light shades,	30c
John Bull. Velvety crimson; white collar; very large,	50c
Katchen Von Schwarzatal. The finest of them all; color a vivid carmine-rose, edged and tipped white, with white collar; blooms often 5 to 6 inches across,	50c
Leon. Light, purplish magenta; shaded white collar,	30c

"Katchen Von Schwarzatal"

Leah. Deep crimson-maroon, with white and maroon collar; extra large,	30c
Frogmore. Orange-yellow, splashed vermillion, yellow collar; extra fine cut flower,	30c
Giant de Lyon. Very large rich velvety maroon, white collar; fine stems,	75c
Gissra. Deep rose, suffused white, with lighter collar; a very handsome variety,	30c
John Bull. Velvety crimson, white collar; very large,	50c
Marksman. Cream color, speckled and penciled crimson,	30c
Mt. Lassen. Fiery red with bright golden collar,	30c
Pierson Durbrow. New. Deep mahogany red with golden collar; extra large and fine,	50c
Crown Princess Charlotte. Chestnut red, with yellow collar; extra large flowers,	30c
Ruby. Glowing crimson, edged and tipped yellow; cream collar,	30c
Scarlet Queen. New. Bright scarlet, with yellow collar, and long, stems;	50c
Senator. Large, orange-scarlet, with yellow center and halo; very free,	30c
St. Blais. Ruby crimson, collar yellow and crimson; very odd and beautiful,	30c
Swallow. The finest pure white collarette; large flowers,	30c

SHOW OR BALL DAHLIAS

These are the old-fashioned type of our grandmothers' garden, with large, round quilled flowers.

Show Dahlia, "Dreer's White"

Anna Rehorst. New. Rich, deep shade of purple; extra large flowers,	50c
Black Diamond. Very dark maroon, almost black; large blooms; fine stems,	50c
Clara Seaton. New. A beautiful shade of rich golden bronze; enormous flowers,	50c
D. M. Moore. Rich maroon, almost black; flowers of immense size,	20c
Dreer's White. A clear snow white; beautifully quilled petals; large flowers,	30c
Dreer's Yellow. Very large blooms; resembles Dreer's White, except color,	50c
Dr. I. B. Perkins. Pure snow white; extra fine stems; excellent cut flower,	30c
Firestone. Bright, vivid red; extra fine stems,	30c
Gen. Miles. Very large flowers; color light violet pink, striped and splashed magenta; extra fine and one of the best,	50c
Helen Hollis. New. Deep scarlet; very large blooms; one of the best of this type to date,	50c
Grand Duch. Marie. Soft buff-orange; reverse shaded pink,	20c
J. K. Alexander. Rich violet purple; large flowers on good stems,	50c
Mrs. Roosevelt. Delicate silvery-rose of giant size,	30c
Mrs. Susan Wilson. Deep burnt orange; very large,	50c
Robert Mantell. New. Deep crimson-maroon; large and very fine,	50c
Vivan. White, effectively edged rose-pink,	20c
W. W. Rawson. White overlaid with lavender blush; large flowers;	20c

POMPON DAHLIAS

This class embraces the small and pretty miniature varieties. They have long, wiry stems and are very free bloomers. Excellent cut flowers.

Eelle of Springfield. The smallest dahlia grown; bright brick red; profuse bloomer,	15c
Catherine. Bright yellow,	15c
Darkest of All. Dark maroon, almost black,	15c
Dewdrop. White edged with lavender,	15c
Golden Queen. A beautiful bright yellow,	30c
Guiding Star. Best white pompon,	15c
Geo. Ireland. A dainty mauve color,	15c
Johnny. Intense shade of red,	15c
Little Belle. Beautiful clear mauve pink,	20c
Pride. New. Dark crimson-scarlet; very free flowering; extra fine,	30c
Spy. New. Bright shade of light scarlet; very showy,	30c
Sunset. A beautiful shade of orange; very attractive,	35c
San Toy. White, tipped with tyrian rose; very pretty,	15c
Vivid. Rich bright scarlet,	15c
Maid of all Work. A small pure white, miniature decorative Dahlia, excellent stems and a very free bloomer; splendid for decorative purposes,	20c

STAR DAHLIAS

A comparatively new race of dahlias that have become very popular for their beauty and fine artistic effect in bouquet and decorations.

Crawley's Star. Lovely shade of clear rosy pink, with crimson base,	25c
White Star. Pure white with rich orange-yellow center,	25c
Worth Star. Pleasing shade of rose,	30c
Yellow Star. Pretty shade of primrose yellow,	30c

SINGLE OR CENTURY DAHLIAS

Have but one row of petals and show a large golden center, which makes them quite attractive.

Cream Century. A beautiful pure cream color; resembles dogwood blossoms;	20c
Eckford Century. Large white spotted pink and penciled crimson,	20c
Firestar. Bright scarlet-red; a mass of flowers all season; fine for hedge,	30c
Golden Century. Large bright yellow,	20c
Rose Pink Century. Large rose pink,	20c
Spanish Century. Yellow, striped with red; very free,	20c
Unic Jack. Clear, vivid red and white stripes; never fails to attract attention,	30c
Winona. New. Unique little midget variety. Very dark maroon, almost black, with large orange yellow center; blooms $1\frac{1}{4}$ inches across; extra long, clean stems; will keep for days when cut; extra fine,	50c

GLADIOLI

THERE is scarcely another summer flower more beautiful and easily grown than the Gladioli: together with their exquisite coloring and long, graceful spikes, make them a most valuable flower for cutting or garden decoration.

Gladioli make a wonderful display when planted in large beds on the lawn, and charming effects can be had when planted in the border or in front of roses or shrubbery, especially when some suitable subject is grown among them, like trailing alyssum, candy-tuft or dwarf nasturtiums, to hide the bare surface of the ground.

An abundance of these handsome flowers can be had all summer and until frost by planting at intervals of every two weeks from the middle of April up until the latter part of June.

Plant in an open, sunny situation, three to five inches deep, depending on the size of the bulbs, in well cultivated soil that has been liberally enriched with some kind of fertilizer. Dry blood and bonemeal mixed in equal parts, is an excellent fertilizer for Gladioli.

No further attention is required after planting, except to keep the beds clear of weeds and give support to some of the heavier spikes when in bloom. Water freely the whole season, even after the plants are through blooming. This will develop the bulbs and make them stronger for next year's growth.

Late in the fall, after the tops begin to wither, and before hard frosts, dig the bulbs, cut off the tops, and store in a cool, dry, frost-proof place.

Cut Flowers. Cut the spikes when the first flower buds open and put in water. Every morning remove the wilted blossoms, cut off about one inch of the stems and replace in fresh water. Treated in this way they keep fine for a week or ten days, especially if kept in a cool place at night.

This year I have an exceptionally fine stock of young, healthy Gladioli bulbs to offer, grown the first and second year from bulblets. These bulbs are round, full, and plump. The kind that is full of pep, easy to grow, and sure to give the very best results in the flower garden.

NOTE.—WILL SELL MEDIUM SIZE GLADIOLI BULBS AT HALF OF CATALOGUE PRICE. THESE SMALLER BULBS WILL GIVE EQUALLY AS LARGE AND FINE FLOWERS AS THE LARGER SIZE IF GIVEN GOOD CULTIVATION AND PLENTY OF WATER IN THE EARLY PART OF THEIR GROWTH.

"PANAMA"

America. Beautiful soft shell-pink; large open flowers. A favorite for bedding and cut flowers,	5c each, 50c doz.
Blue Jay. Beautiful porcelain blue with white blotch,	35c each, \$3.50 doz.
Chicago White. Fine white with lavender stripes on lower petals,	5c each, 50c doz.
Dawn (Tracy's). Large, beautiful coral pink; exceptionally fine,	20c each, \$2.00 doz.
Empress of India. A rich dark red-maroon; a rare and beautiful color,	10c each, \$1.00 doz.
Glory of Holland. A beautiful white, slightly tinted pink; blossoms large and gracefully set on a tall spike,	10c each, \$1.00 doz.
Gov. Hanley. A glowing rich cardinal red, shaded deeper; tall, graceful spike; early and very fine,	15c each, \$1.50 doz.
*Halley. Beautiful salmon-pink; large, open flower; fine spike,	10c each, \$1.00 doz.

(Gladioli continued on the next page)

GLADIOLI Continued

Independence. Light flame scarlet, with dark red throat; long spike; early,	5c each, 50c doz.
Faust (Geo. Paul.) Very large crimson maroon, or Harvard crimson shade; tall, strong spike,	5c each, 50c doz.
Mrs. Watts. Glowing American Beauty shade, a royal red-rose color; very beautiful,	15c each, \$1.50 doz.
Mrs. Francis King. A delightful shade of light scarlet or flame color; large blooms,	5c each, 50c doz.
Mrs. Frank Pendleton, Jr. Beautiful light rose-pink, large red blotch on lower petals; immense flowers; very attractive,	15c each, \$1.50 doz.
Niagara. Soft creamy yellow, slightly tinted rose; very large, open flowers on long spike,	10c each, \$1.00 doz.
Panama. Beautiful clear pink; large wax-like flowers,	10c each, \$1.00 doz.
Peace. Pure white, with lilac mark in throat; giant flowers correctly placed on tall, graceful spike,	10c each, \$1.00 doz.
President Taft. Large pink, red blotch on lower petals,	5c each, 50c doz.
Victory. Dainty yellow, with lower petals a deeper tone; considered a good yellow,	5c each, 50c doz.
War. Large open flower, well arranged on long, strong spike; color deep blood red; extra fine,	15c each, \$1.50 doz.
Willy Wigman. Creamy white, flushed soft pink; large crimson blotch on lower petals; very pretty,	10c each, \$1.00 doz.
Wilbrink. New. Lovely flesh-pink, with creamy yellow blotch on lower petals; immense blooms, well arranged on long, graceful spikes; very beautiful,	20c each, \$2.00 doz.
White Giants. Large white seedlings; some are extra fine,	5c each, 50c doz.
Primulanus Hybs. A beautiful new race of Gladioli; dainty and graceful flowers, in various brilliant shades of orange, salmonpink and yellow; very fine,	5c each, 50c doz.
Fine Mixture. Contains all colors and types,	35c doz., \$2.50 per 100

New Dahlias of Special Merit for 1921

Continued from
inside front cover.

NOTE—This collection supplied in Plants Only, at the prices quoted

Peony-flowered Type

CITY OF PORTLAND—One of the grandest dahlias ever offered. The blooms are often 8 and 9 inches in diameter of very artistic form. Color is a clear, rich, deep yellow. An ideal cut-flower, having long, strong stems and good keeping qualities. Strong, vigorous growing plants produce flowers very freely. Each, \$2.50

HAIDA—An enormous flower of soft, creamy peach pink of beautiful form, with many small, curly petals around the center. Free bloomer; unequaled for exhibits, M.e.g. \$1.00

NIAGARA—Lovely, odd shade of soft winered. Immense flowers are produced freely and erectly on ideal, upright stems through the entire season. Formation of the blooms is unique, the tiny, curling petals around the center being very numerous, M.e.g.c. \$1.00

Hybrid Cactus Type

COLOSSAL PEACE—A most attractive shade of deep rose pink with light center and tips. Immense flower of massive form. Sometimes blooms with a slightly open center. Each, \$1.00

GLADYS SHERWOOD—A new pure white variety that is a real giant among dahlias; flowers 9 inches in diameter, without budding. In addition to this it is free flowering and the stems are long, strong and erect. Each, \$3.00

Giant Decorative Type

PATRICK O'MARA—The sensation of the Dahlia Show of the American Dahlia Society held in New York City last September. The flowers are 8 inches in diameter and borne on long, strong, erect stems. They are firmly set at right angles to the stems. The color is an unusually soft and pleasing shade of orange-buff, slightly tinged with rose. One of the most lasting cut-flower dahlias. Received American Dahlia Society's Gold Medal for best new variety for 1920. Each, \$5.00

RAINBOW—Old gold, heavily suffused with oriental red. An immense, well formed flower held perfectly erect on incomparable stems. Good bloomer; without doubt one of the best dahlias in cultivation, M. e. g. c. \$1.25

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3. Author(s): *Water Resources Division, National Center for Water Research*

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10. Location of project: *Water Resources Division, National Center for Water Research*

DAHLIAS and their CULTURE.

DAHLIAS are of such easy culture and so exquisitely beautiful that everyone should grow them, and they are rapidly becoming one of our most popular flowers.

There is no flowering plant which at so little cost will produce such abundance of large and beautiful flowers as the Dahlia, and in the different varieties you will find almost every shade, tint and color imaginable.

They are at home and will grow and bloom to perfection in almost any soil or climate.

Dahlias make a beautiful hedge, planted along a walk or drive, and a most gorgeous and effective display when massed in large beds on the lawn or herbaceous border, and they are equally as desirable when planted as single plants, in any position.

Preparation of Soil. Dahlias will grow and produce fine blooms in almost any kind of soil. But grow and do their best in a rather light sandy loam that has been well worked by spading to a depth of 10 or 12 inches and thoroughly pulverized.

Planting. Dahlias may be planted any time after danger of frost is over, but for the best results plant from May 1st to the first of June. Late plantings always produce the largest and finest flowers.

Plant, if possible, in an open, sunny situation. Dig holes six inches deep, then lay in the tuber on a slight angle, or almost flat position, with the eye or sprout uppermost; cover about 2 inches, and pour in some water to settle the soil about the tuber; then cover again about 2 inches, leaving the rest of the soil to be filled in later, when the plants have come up above the ground.

Cultivation. Cultivate deep and thoroughly with a hoe or garden hook about once a week until the first flower buds appear, then deep tillage should cease and only the surface of the soil lightly stirred, as deep cultivation at this time is fatal to the small feeding roots and the free production of flowers.

Watering. Good cultivation is more important than water in the early stage of a dahlia plant's growth. But in dry weather water is quite necessary to keep up a strong and continuous growth of the plants, especially when dahlias are planted near trees or on the lawn and near walks with a grass border.

When the plants start to show flower buds that is when water should be applied freely in large quantities about once or twice a week. This will force a greater quantity of flowers with long stems and the largest sized blooms. A good method is to make a trench or basin-shaped mound of earth around the plant three or four inches deep and about two feet in diameter, filling this with water and pulling the earth back to the plant after the water has soaked into the ground.

Fertilizer. Dahlias don't require very rich soil to produce fine flowers. But to get extra good exhibition blooms a liberal amount of well rotted manure or commercial fertilizer should be applied and thoroughly worked in the soil about a month or six weeks after planting. A light top dressing of air-slacked lime is also recommended.

Disbudding. When extra fine cut flowers or exhibition blooms are wanted it is always best to disbud the small side buds and pinch out the first set of side shoots and leave only one bloom to develop on a stem.

Disbudding will not be necessary where the plants are grown for garden decoration, as a large number of good sized flowers are of more value for a fine garden display than only a few highly developed blooms. Always keep the old, withered flowers picked off and your plants will bloom better.

Staking. Dahlias, when well grown, usually make such large, heavy plants that a support of some kind becomes quite necessary to keep the strong fall winds and heavy rains from breaking down the plants and sometimes ruining them entirely.

A strong stake driven firmly into the ground at each plant and the stalk of the plant loosely tied to it will prevent a disaster of this kind.

Digging, and Care of the Tubers in Winter. Late in the fall, after the frost has killed the foliage, the clumps should be carefully dug and left to dry in the sun for a few hours; then cut off the stalks about two inches above the tubers and store in a frost-proof cellar or basement, away from furnace heat, if heated by a furnace. The clumps should be packed in boxes with the stem end down and covered with moss, sawdust or dry sand to prevent them from shriveling up.

Dividing. In the spring when the tubers commence to sprout the clumps should be divided with a sharp knife to single tubers, with one strong eye or sprout to each tuber.

In writing this article on Dahlia Culture I have endeavored to explain how I grow my large and beautiful Dahlias, and I am sure that anyone who will read and follow these cultural directions will have equally as great a success as I have had in growing these wonderful flowers.

Sincerely yours,

N. A. MILLER

A partial view of "Decorative Dahlia" section of my display garden.