

House & Garden

A Condé Nast Publication

Catalog
Gardening

Young
Decorating

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January 1916
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Burpee's Big Zinnias

**COLOSSAL AND
CHRYSANTHEMUM-
FLOWERED**

SPECIAL!
75¢ PKT. **10¢**

*All next summer you'll have the largest,
most colorful Zinnias you have ever seen!*

Be sure to grow this exclusive Burpee blend of unique and unusually pleasing colors, varying from lovely soft pastel tints to hues of striking brilliance—*apricot, rose, peach, salmon, pink, lavender, cream, buff, yellow, orange, scarlet, crimson, etc.* They are glorious in the garden, wonderful for long-lasting bouquets.

The unsurpassed giant blooms measure up to 6½ in. across, on sturdy vigorous plants 3 ft. tall, easy to grow. Some of the fascinating flowers have two or more tones; some have extremely curled and twisted petals like chrysanthemums. Grown on Burpee's Floradale Farms, the most famous flower seed farms in the world. You'll always want Burpee's Big Zinnias!

Please tell your friends, so they can
send for these special Burpee Seeds too.

**SPECIAL—For only 10c, we'll mail you
a 75c Super Packet of Seeds of Burpee's
Big Zinnias postpaid—Send Dime Today!**

The flowers grow
¼ larger than
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Burpee's Seed Catalog FREE

In natural color in this big 70th Anniversary edition, see the new creations of Burpee plant scientists—bigger and better flowers for beauty and fragrance, finer vegetables for delicious meals.

New Burpee Hybrid Vegetables will give greater yield, superb quality and disease-resistant plants—originated on Burpee's own Fordhook Farms.

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Send postpaid the 75c Super Packet of Burpee's
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*A Stunning
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... giving you brilliant styling and new tonal perfection.

Ask your piano dealer.



*Styled exclusively for Jesse French
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*Musical Qualities developed in collaboration
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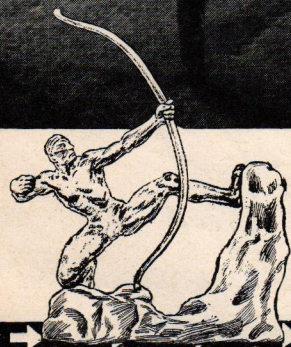
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creations...is emphasized by its beauty of design
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At Department and Better Furniture Stores.



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Silverplate in the Grand Manner!

Thrilling new

**Guildcraft*

MASTERPIECES OF SILVERPLATE

*REG. U. S. PAT. OFF. COPR. 1945, NATIONAL SILVER COMPANY, NEW YORK 16, N. Y.



From the inspired new Guildcraft collection . . . "Concerto"*—a period design interpreted with modern genius!

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As soon as conditions permit this masterly collection will be ready for your selection.

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Now YOU CAN HAVE KEEPSAKES MADE INTO ELECTRIC LAMPS!

Vases, urns, statuary, figurines, candle-sticks, sea-shells, pitchers, flasks, trophies, and other keepsakes—even violins and riding boots—converted into artistic table lamps. Oil lamps electrified.

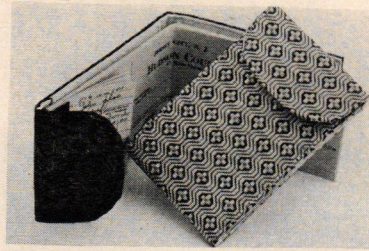
Just ship us the article by express or parcel post. Before making lamp, we will send you sketch and exact price quotation. If not satisfied, object will be returned upon request. No obligation. All objects fully insured while in our care.

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Lamps lengthened or shortened. Re-finished and metal parts re-plated. Broken glass and porcelain restored by original methods. Lamp shades cleaned or re-covered. All types of new shades custom-made. Moderate prices. Repair parts—send broken parts for duplication.

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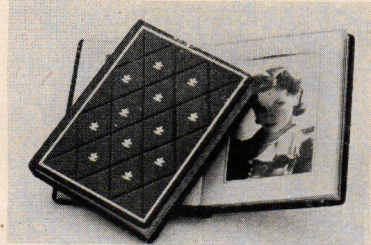
3201 W. Grand Ave. Detroit 6, Mich.



Evening dress for the most precious book you own . . . your check book. Brocade covers come in jewel-like colors, all aglitter with metallic threads. Designs are assorted and lining is pale apricot satin. A lovely present for \$4.95 ppd. from the Curio Nook, 107 Lincoln Ave., Cranford, N. J.



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Family album, snapshot size, is a tiny treasury in which to store favorite pictures of your family and friends. Beautifully bound in hand-tooled leather, brown or maroon. Holds 14 snaps in stiff gilt-edged frames. \$5 plus 10c postage. Mermod-Jaccard-King, 9th & Locust Sts., St. Louis, Mo.



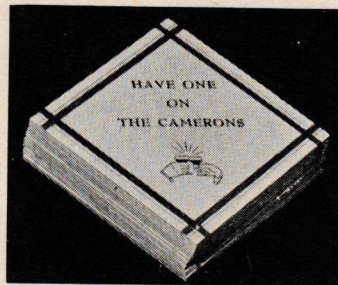
CLEAR LUCITE SWAY-TRAY

This beautiful, new one hand server can be handled with ease without fear of spilling a drop. Grasp free swinging lucite knob (on special cord—test weight 40 lbs.) and enjoy the Fifth Freedom—the freedom from spill.

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NEW BRUNSWICK, N. J.



"HAVE ONE" COASTERS

"Have One On the Hubbards"—or whatever name you tell us to print in gay block letters on these genial and colorful coasters. They're 3 1/2" square on 16-ply artboard with silversheen borders and your name (preceded by "Have One On") in red. Set of 50, gift boxed, \$1.

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CURRIER & IVES PLACE MATS

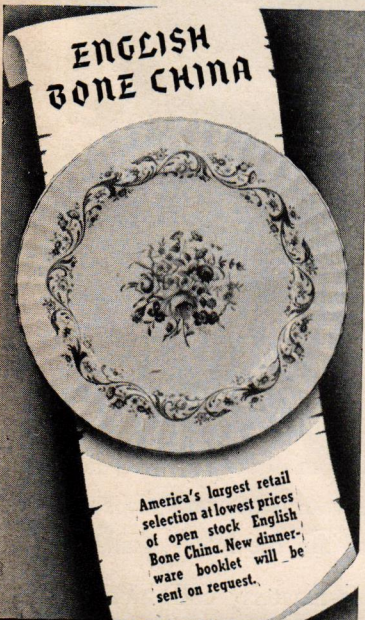
Full color reproductions of beloved Currier & Ives prints lithographed on durable place mats. Proven heat-resistant, washable, will not curl. Suitable for framing.

Gift boxed, set of 4, \$2.50

(Add 15c for postage and insurance)

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America's largest retail selection at lowest prices of open stock English Bone China. New dinnerware booklet will be sent on request.

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"Gertrude L. Thebaud"

Fully Assembled Model

Rich in sea lore—the "THEBAUD" combines the grace and speed of a racer with the seaworthy utility of a fisherman. America's entry in the International Fisherman's Races—with MacMillan in the Arctic—on submarine patrol with the U. S. Coast Guard. From stem to stern, hand fashioned by Yankee craftsmen. 13 1/2" overall x 12 1/4" high—black and red hull—maple base. Shipped completely assembled and finished.

\$6.50

Postpaid in U. S. A.

Satisfaction guaranteed or money refunded. Other models \$5.00 to \$50.00. Illustrated folder on request.

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It is a Handmade
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MAGIC TOP DOUBLES THE SIZE of Your Card Table!

T-Top is a light rigid top which slides easily over the surface of a card table, just doubling its size. It seats 7 persons comfortably—46" in diameter, 144" in circumference—it's perfect for luncheon, jig saw puzzles and card games. Can be tucked away in a closet or corner. Send for your T-Top now! Shipping weight approx. 16 lbs. Shipment made promptly, shipped by express. No C.O.D.'s, please. Specify Color Wanted. Dark Green, Rich Red, Dark Brown, Jet Black.

\$5.95

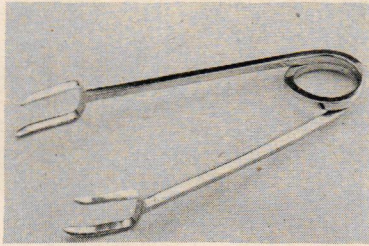
Unpainted T-Top \$4.95
F.O.B. Salem, Mass.

T-TOP COMPANY, Inc.
Dept. A Salem, Mass.

AROUND



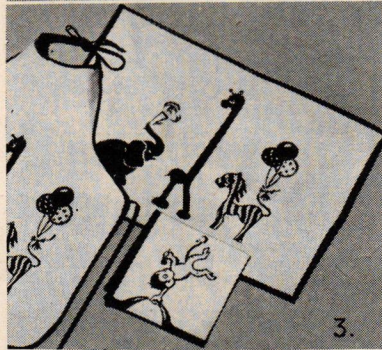
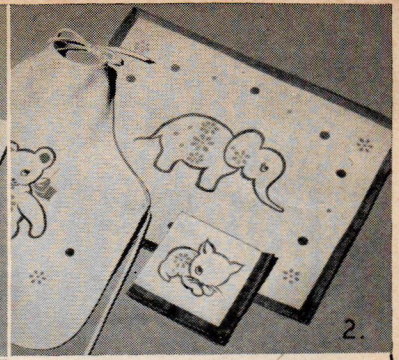
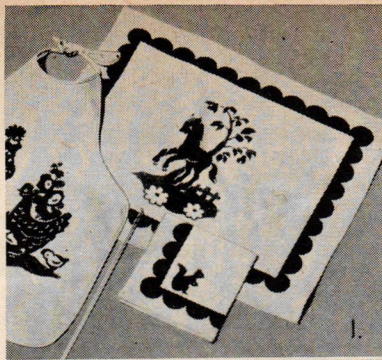
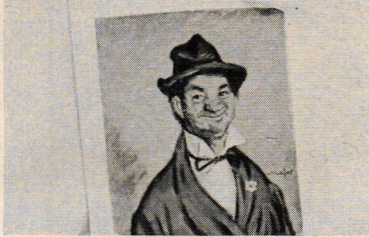
Do you take sugar? At tea or after dinner coffee any hostess, particularly a bride, will be pardonably proud of these simple, modern sugar tongs. Skillfully handmade of sterling silver, they are \$8.40 including tax and postage. From Leonore Doskow, Montrose, New York



Buoyant bubbles appear like magic with this amazing new liquid. Dip wand, wave it and presto! A cloud of multicolored bubbles soar skyward. A perfect gift for children or convalescents. Two jars and wands, gift boxed, \$1.25 ppd. Bendines, 3412 Greenmount Ave., Baltimore, Md.



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2. Sleepy Time
3. Circus

1.75 each

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Choice jumbo almonds gathered from sunny California orchards, toasted to a golden-brown perfection, and hand-dipped in rich, creamy, pure chocolate—a luscious confection!

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With this Bronze Sundial
14 1/4" in diameter

\$18. each, express collect. Write for circular describing others \$3.50 to \$125.

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Enchanting lead statue with the fine design and grace of famed masterpieces. 31" high. Piped for fountain.

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Period and Modern styles, color schemes, draperies, all fundamentals. Faculty of New York decorators. Personal instruction. Cultural or Vocational Courses. Longer courses in interior architecture.

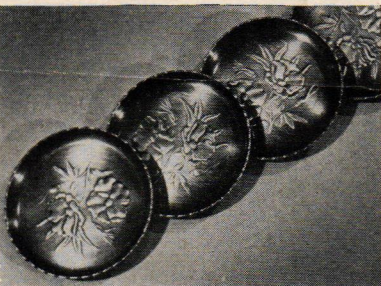
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Handsome Copper Coasters

Into your life again, all the pleasant accessories for a pretty home. Among them, antiqued copper coasters like these—coasters that double as ash trays! They're nicely hand-finished, and a set of eight is just \$6

Mail orders promptly filled.

Allen Creations

Dept. G, 505 Fifth Ave., New York 17, N. Y.



beautiful note-cards

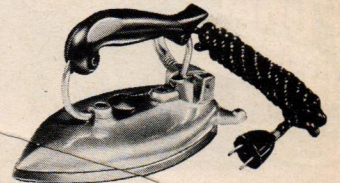
What a charming idea! Exquisitely lithographed cards, as fresh with flowers as a Spring meadow—and blank inside, all ready for your written message. Two boxes of these, 22 cards and envelopes in all... just \$2. (postpaid)

(Please, no C.O.D.'s)

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Tomorrow's Iron ... TODAY



A full-size Featherline iron, with fingertip control, evertight folding handle. Light in weight, it heats in a jiffy to just the temperature your fabric requires—and stays at that temperature as long as you need it. With carrying case, blue, brown, or green, ideal for traveling.

With automatic control—
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Quicier-Sweeter-Fresher

TREE-RIPENED FLORIDA ORANGES
TANGERINES AND GRAPEFRUIT

ORDER NOW

FOR GIFTS or
FOR YOUR OWN FAMILY'S USE
SHIPPING SEASON DECEMBER 1ST TO
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Only when you "bite into" these luscious juice-filled fruits, will you be able to appreciate the huge difference between these tree-ripened fruits and the ordinary commercial kind.

"Quality Selects" (as shown) selected fruit generously packed 55 lb. bushel . . . **\$5.25**
Half Bushel—27 lbs.—\$3.25

"De Luxe Gift Pack" selected fruit, 4 assorted pound marmalades, pound fruit cake, pound fancy pecans, 60 pound bushel . . . **\$10.00**
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"De Luxe SPECIAL Gift Pack," selected fruit, 6 assorted marmalades, 3 pounds large fancy pecans, pound fruit cake, 65 pound bushel . . . **\$15.00**
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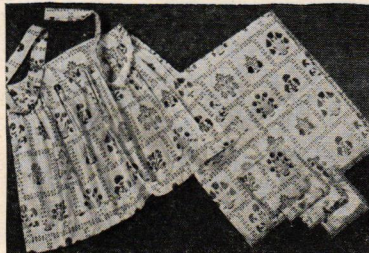
"Russet Sweets" Home Pack, good inside quality, firm, fresh sweet fruit, 50 pound bushel . . . **\$4.25**

DIRECT FROM OUR FLORIDA GROVES TO YOU

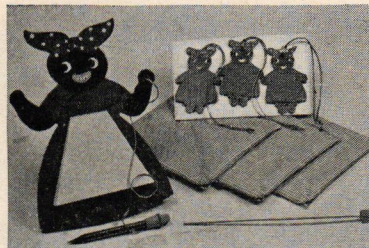
(Unless otherwise specified, all packs will contain assorted oranges, grapefruit and tangerines). PRICES INCLUDE PREPAID DELIVERY TO YOUR DOOR (East of the Mississippi River). WRITE FOR PRICE LIST. We also ship finest quality Marmalades . . . Jellies . . . Honey.

Bonded Packers of Individual Shipments Tree Ripened Fruit.

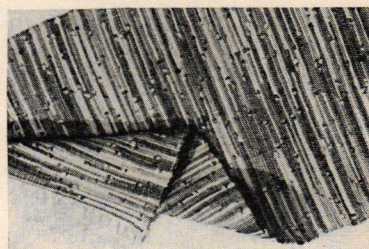
HADLOCK FRUIT COMPANY
Box 8-1, Mount Dora, Florida



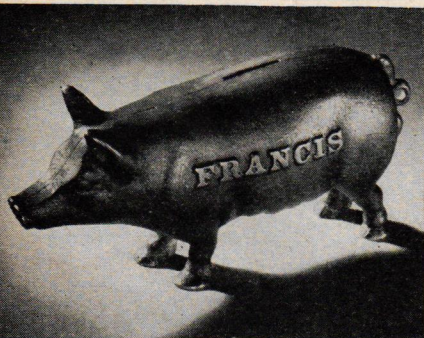
At-home ensemble. For afternoon tea or an evening of bridge, greet your guests in this gay hostess apron and set the table with matching cloth. Handmade of permanent glazed chintz in assorted floral patterns. Apron, \$2.95, cloth and 4 napkins, \$3.95 ppd. Reichardt's, Grand Haven, Michigan



Faithful servant. This cheerful mammy holds a pad and pencil for shopping reminders and three pot holders hang at the hem of her skirt. Three smaller mummies act as curtain or electric light pulls. In red or blue, the set is \$2. ppd. Afco Products Co., Lexington 73, Mass.



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\$6.95 with monogram or name
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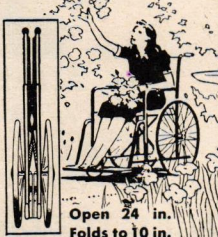
EUNICE NOVELTIES Dept. G-16
5th Floor Women's Exchange Bldg.
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with an **EVEREST & JENNINGS FOLDING WHEEL CHAIR**



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6 captivating sets of patterns for the discriminating home, all related subjects to a set. Sets 7" x 12" in size. At Neisner's, Walgreen's, paint, hardware, variety, department and chain stores. If not available in your neighborhood, will send postpaid, \$2.00. AMERICAN DECAL CO. - 4334 FIFTH AVE., CHICAGO

New INTERLOCKING Poker Chips
WITH YOUR 3 INITIALS on Every Chip

25 RED - 25 BLUE
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Particularly fine poker chips of gleaming, unbreakable plastic! Chips mesh for neat stacking, separate quickly for easy play. Perfect weight, pleasant "feel" . . . a joy to handle. State 3 initials desired. **Set of 100, Postpaid, \$4.85.**

Deluxe BANKER'S BOX
Luxurious Walnut Chest of Chips, Monogrammed Medalion inset in lid, 300 monogrammed chips (see above) in 3 removable trays, 11x11 inches. Space for 2 decks of cards. **Superb quality. \$24.50 Postpaid.**

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An IDEAL Gift
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EVERYTHING FOR FUN AT HOME
Headquarters for game room equipment . . . accessories for the home. Unusual games, barbecue supplies, etc. Write for "Successful Entertaining At Home." It's Free!

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At Moderate Prices

Also 300 Semi-Antique and New Orientals in old designs

For sale by America's foremost authority and expert. Write for descriptive list—then if you wish, I will ship selection on approval for your inspection. Prices on many are no higher than new rugs.

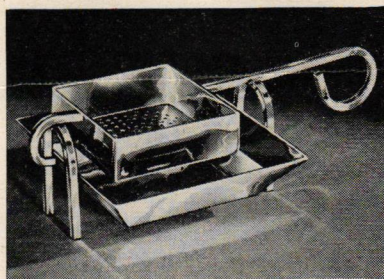
My Antique Rugs are not the worn out variety—but with most of their nap intact and will generally outwear most new rugs because they have better wool quality, better dyes and better workmanship.

150 Antiques \$90 to \$200.
100 Antiques \$200 and up.

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EXPRESS PREPAID NO OBLIGATION TO BUY

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Pouring for two—or twenty—becomes a gracious gesture when you use this beautiful Tea Caddy Set. Hand-wrought in Sterling Silver, it's practical as well as elegant! The Strainer will rest securely across a cup, while you pour. The Holder provides a handy catch-all for stray drops and used tea leaves. Ideal for a special-occasion gift . . . if you can bear to part with it!

Strainer—\$24.00

Complete Set—\$48.00

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New and Improved
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Quickly and securely nine skirts, slacks, shorts or trousers hang in a space less than 8 inches. Garments hang straight at full length for easy selection. Creases disappear—pressing lasts longer!

Multi-Kwik hangers are precision built of seasoned hardwoods, the hanger bars doweled-in to assure constant, correct tension. Easily installed with two screw nails in closet wall or doors. Thousands in daily use. Order two or more for each closet in your home. . . . Postpaid anywhere in America.

SEND CHECK, CASH, MONEY ORDER FOR ONLY \$2.00 TO MULTI-KWIK CO. P.O. BOX 2789, HOLLYWOOD 28, CALIF.

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touched by the smart, new
texture of BRAMBLE



A room with a future bright as your dreams, comes to life from the pages of Lees-Cochrane's new book "What Goes With What?" And what an off-with-flying-colors start *this* room ... any room ... gets with Bramble ... new as tomorrow, in smart, spirited colors—loomed to live with. Bramble is handsome, but *practical*, too. Footsteps just don't show—and its tight-curved texture gives that well-groomed but casual look that's so completely right. Bramble is a Lees-Cochrane broadloom, woven with sincerity and skill ... *and* with the famous "twist that won't come out"—*even after shampooing!* Only the finest stores have Lees-Cochrane carpets—see Bramble and other Lees-Cochrane originals (such as Duratwist) at *your* leading stores.

Send for "WHAT GOES WITH WHAT?" 32 pages—50 full-color illustrations! Here, at



last, is the book that makes decorating easy. Tells and shows how to color-relate everything in the room. Just send 25c to Anne Mason, Lees-Cochrane Co., Bridgeport, Montgomery Co., Pa.

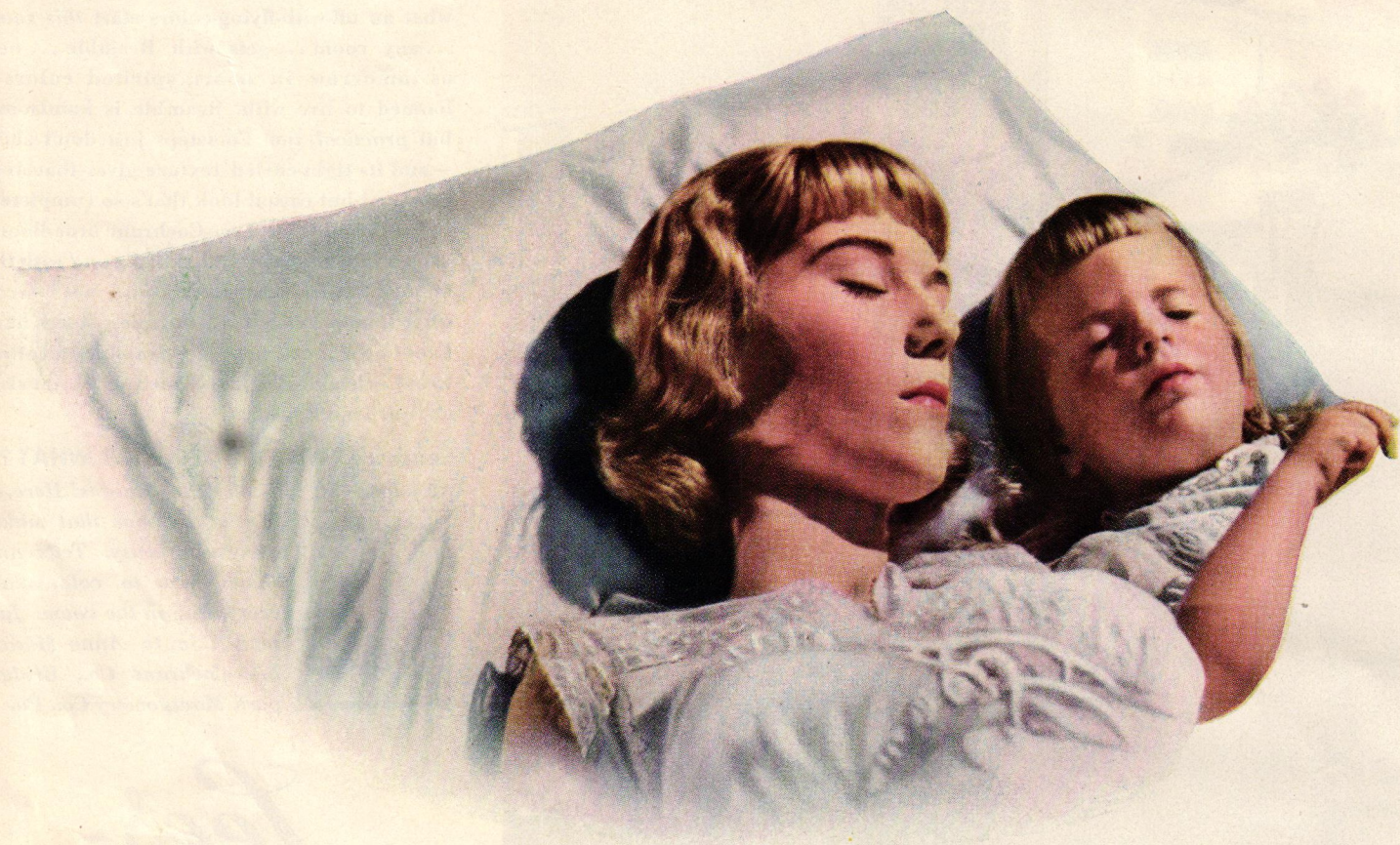
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COCHRANE
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CARPET MAKES IT HOME—
Bramble makes home charming

Other famous Lees products—
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Sleep well - and you'll look well



Chatham makes good blankets

 **HATHAM**
Blankets



Reach High!

Dunno why, Junior, but that's the way it is sometimes with the worthwhile things of life—they dangle enticingly just beyond your fingertips and you have to reach for them.

Take Pacific Sheets, now. Mommy's been treasuring her prewar supply for months, always hoping that soon they would be plentiful again. She could have had X

sheets or Y sheets, but no. Mommy reaches high, and nothing but fine Pacific Sheets will do.

We are glad to be able to report that soon they will be available in quantity again—the same strong, soft, snowy-white *balanced* sheets she bought before the war. At good stores everywhere, moderately priced.

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Made by the makers of Pacific Factag Fabrics — Cottons and Rayons

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PACIFIC
SHEETS

The Aristocrat of Bonds



When pleasure is the aim, Kentucky Tavern never misses. Truly the Aristocrat of Bonds, the quality of Kentucky Tavern has been the obligation of one family whose knowledge of fine whiskey making has been a tradition for 75 years.

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THERE'S ONLY ONE BETTER BUY IN BONDS...SAVINGS BONDS!



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**ALWAYS THE CENTER
OF ATTRACTION**

Heirloom Quality

When your dream house leaves the realm of dreams and becomes a furnishable reality, you'll want it representative of your own character and temperament. That's why you'll decorate with Weiman Tables. Ageless beauty and character combined with design based on convenience and utility make them the ideal choice for every home.

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Listen to Helen Hayes in your favorite plays on Textron Theatre every Saturday p.m. on your local Columbia Broadcasting Station.

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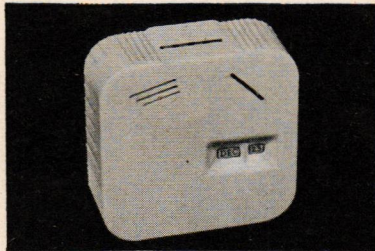
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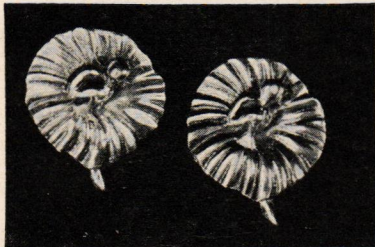
SHOPPING AROUND



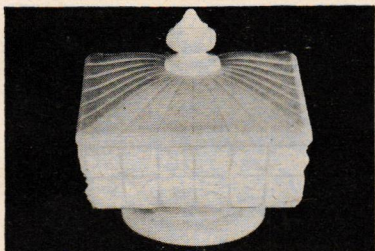
Pin money becomes big money when you stow it away in this calendar bank. Nickels, dimes and quarters change the day, a quarter changes the month and a conscience slot takes half-dollars and bills. Ivory plastic with pickproof lock. \$2.15 ppd. No c. o. d.'s. M. C. Flynn, 43 E. 59th St., N. Y. C. 22



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A "find" for window gardeners! 26" long, tapered to 3 1/2" wide at base, to fit any sill. Complete with 4 removable 3 1/2" flower pots, watered from single leak-proof metal tray. Ivory enamelled finish. Change your windows to beauty spots.

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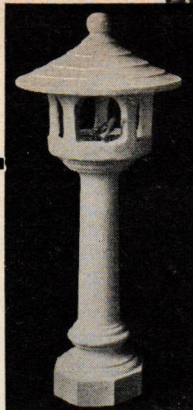
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Artcrete DeLuxe Bird Feeder

No. K-26—46" high x 21" wide

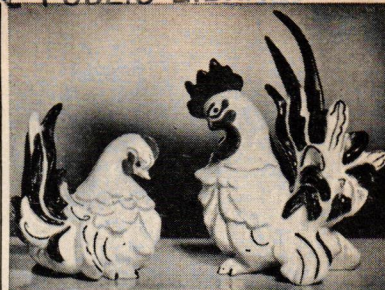
A real Christmas present for the Birds and You. A humane and attractive addition to the garden made of weather proof white cast stone. Holds a large supply of food, protected from the weather. Much of the natural habitat and food of our native Birds has been destroyed by man's activities. When snow covers the ground, we must feed our feathered friends, if we hope to enjoy them and have them with us.

Price \$17.50 freight collect.

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ARTCRETE PRODUCTS CO.

Established 1921
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"Biddy & Butch"

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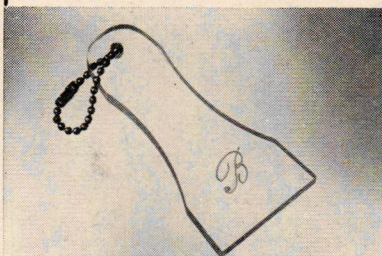
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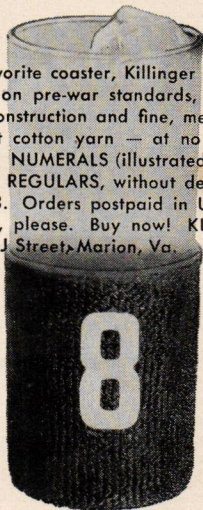
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we will ship C.O.D. plus postage.
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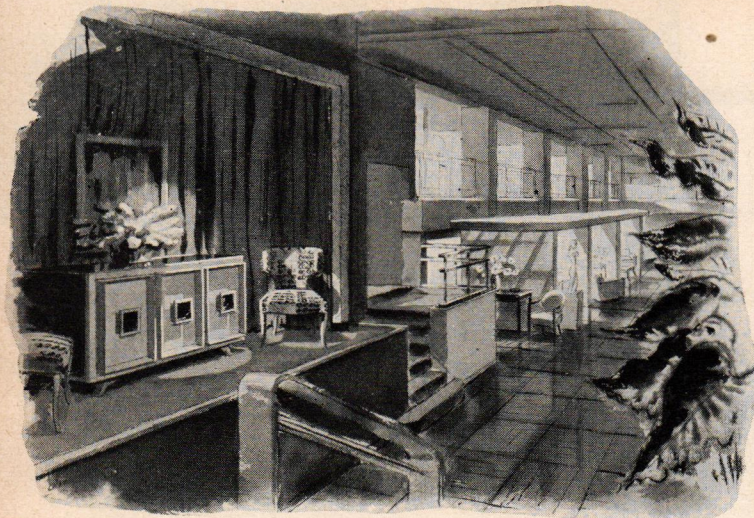
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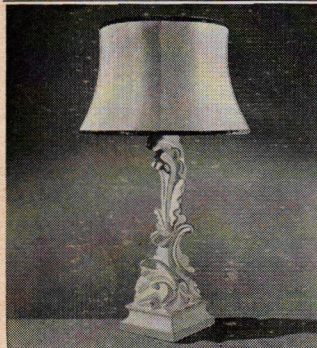
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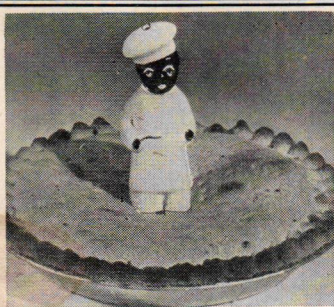
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PIE-AIRE, THE CHEF

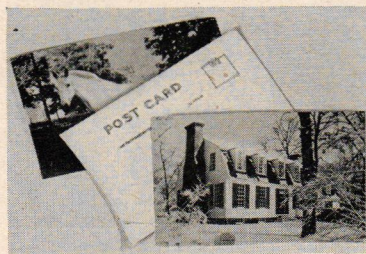
How did you ever bake a pie without him? But you won't ever let go of Pie-Aire now! He's a funny little fellow just 4 1/2" high, made of ceramic that resists oven heat. Plunk Pie-Aire (he pronounces it Pierre!) in the middle of your pie . . . he takes care of excess juices and lets off steam through the hole in his cap! And you bring your kitchen masterpiece to table with Pie-Aire right there to add pertness. He is hand-decorated, with his colors-fired under the glaze . . . like the finest porcelain. \$1.

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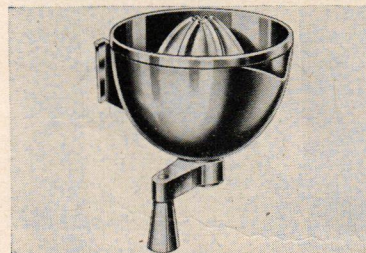
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Size 18" wide x 14" high
No. 243 Price \$12.50

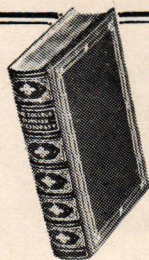
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in an attractive, unusual Bird Bath in light red Terra Cotta with its Bowl lined in Light Turquoise Blue Glaze. It will dress up your garden and its visitors will cheer up your outlook. It is high fired, strong and durable like all

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On display 40 W. 40th St., N. Y. C.



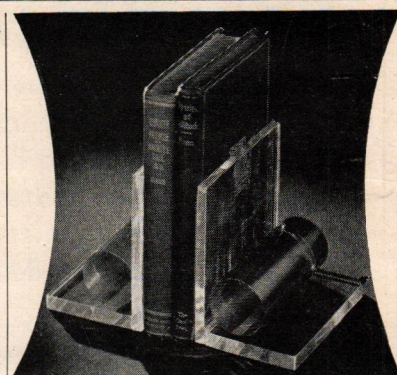
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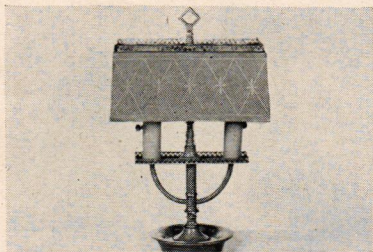
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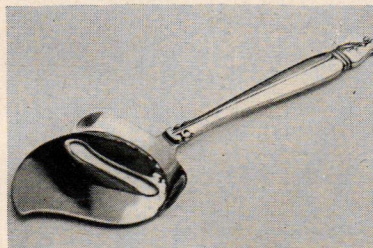
AROUND



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PATTERNS • Many Dutch designs, four sizes of each, for needlework and painting. Trace with carbon paper on cloth, wood, etc.—use repeatedly. Four large sheets with complete color guide, prepaid **\$1.00**



TONY SARG

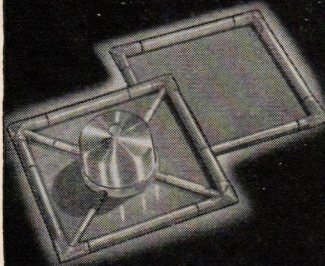
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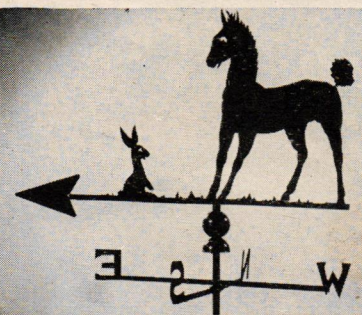
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UNUSUAL WEATHERVANE



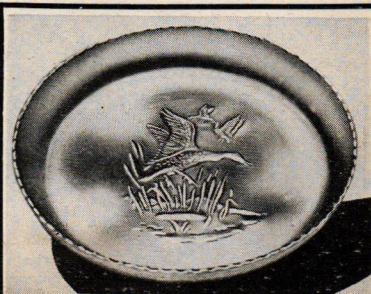
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They are good weight. Here's something to use and use—requires only soap and water to clean. Pop will bless you for these, they come under the heading of a good 5c cigar. Better have several sets.

Sorry, no C.O.D.'s—Add 15c for delivery

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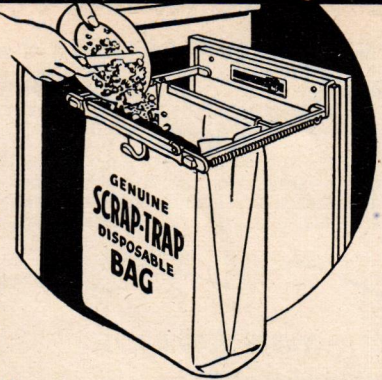
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Scrape scraps from plate to bag. No handling!

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Sturdy metal frame fastens to door under sink, cabinet drawer or wall.

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New! PATENTED SCRAP-TRAP

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GENUINE SCRAP-TRAP BAGS always available. Only 49c for big package of 30 wet-proof bags.

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Material. Wool cloth in exquisitely blended colors. Hooks, color charts and complete instructions. Period, Colonial and Modern Designs.

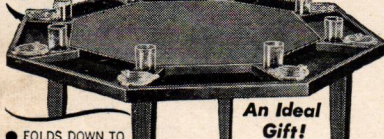
Flowers and Scrolls worked to order.

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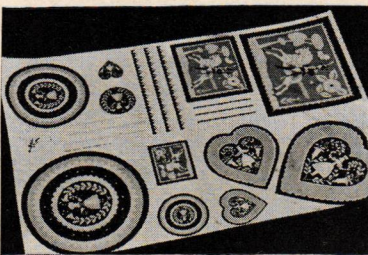
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Wet or dry, the Galosha-Bag takes care of your galoshes when you stop for lunch or go shopping. Just stow them in the bag and sling it over your arm. Of water-repellent dark blue cloth, it folds to slip in your purse. \$1 ppd. No c.o.d.'s. Moira's, 33 Highbrook Ave., Pelham 65, N. Y.



Highchair highlights. A tarnish-proof cup and porringer add a bright note to daily feeding. Made of aluminum with etched nursery rhyme designs, they're a joy to use as they require no polishing. Porringer, \$4.50; cup, \$3.50, post. 35c. Hammacher Schlemmer, 145 E. 57th St., N. Y. C. 22



Tony Sarg decals. Amusing designs, each having seven colors or more are a simple and inexpensive way to decorate nursery walls and furniture, playrooms and odd pieces like coffee tables, boxes and wastebaskets that just need something. Sheet of 21, \$1 ppd. R. W. Cummings, Lancaster, Pa.

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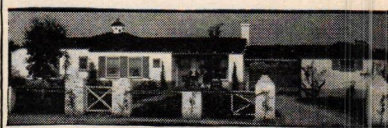
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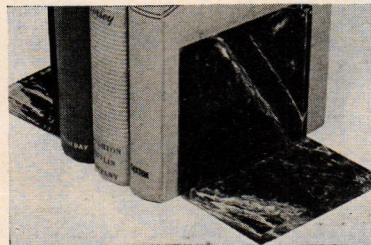
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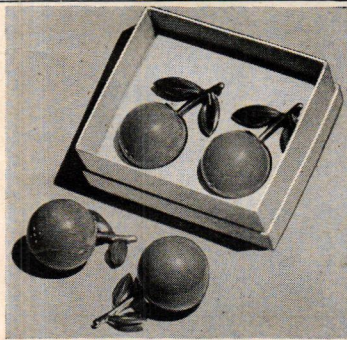


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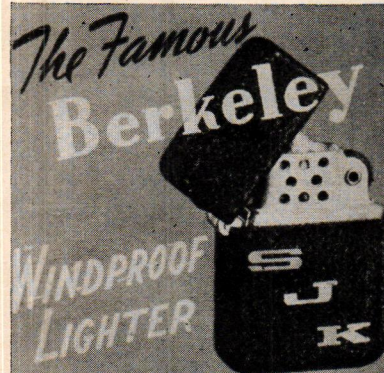
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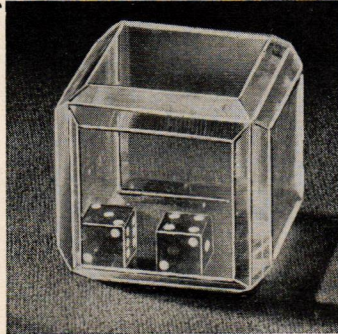
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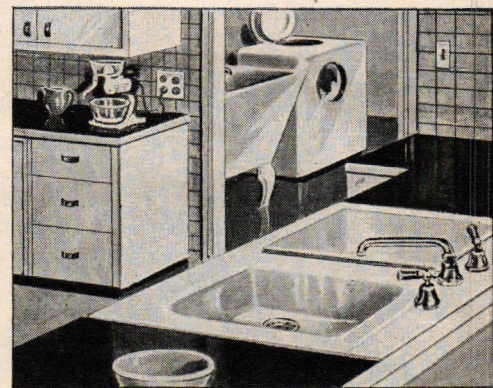
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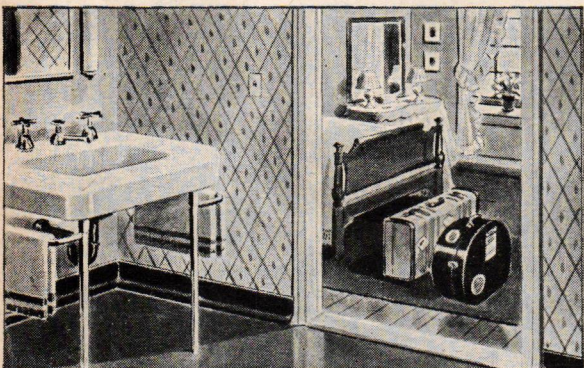
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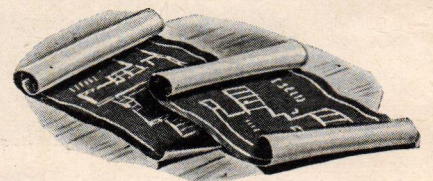


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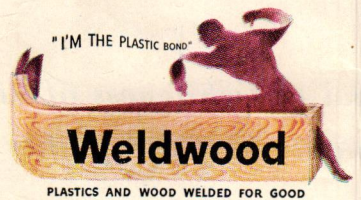
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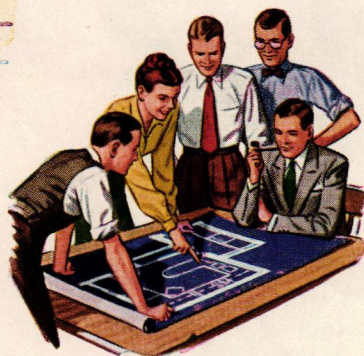
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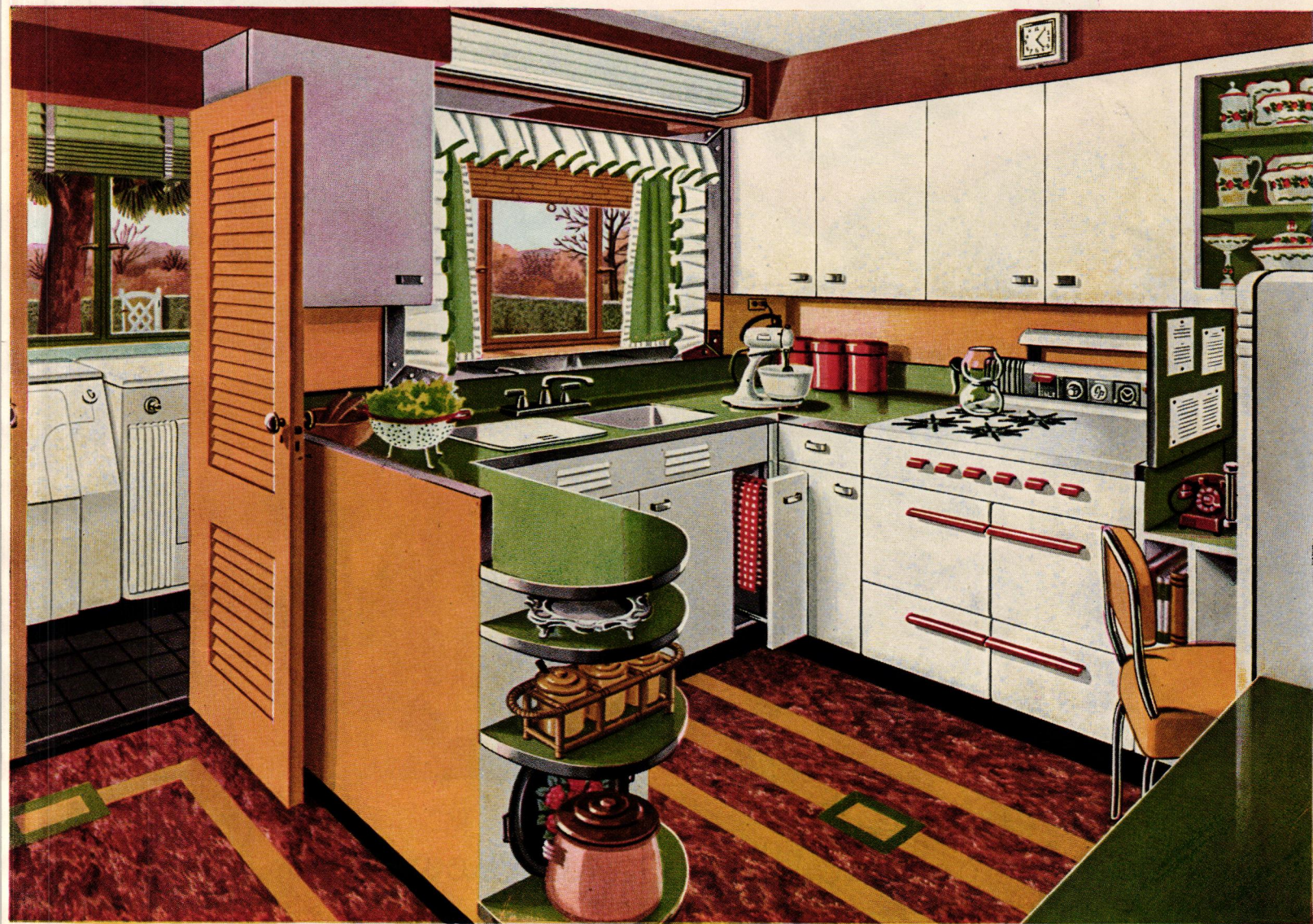


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A kitchen that takes the "irk" out of work

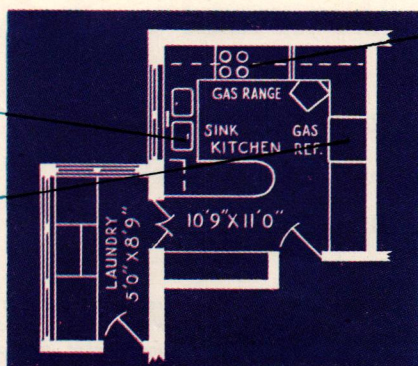


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GAS



THE WONDER FLAME
THAT COOLS
AS WELL AS HEATS

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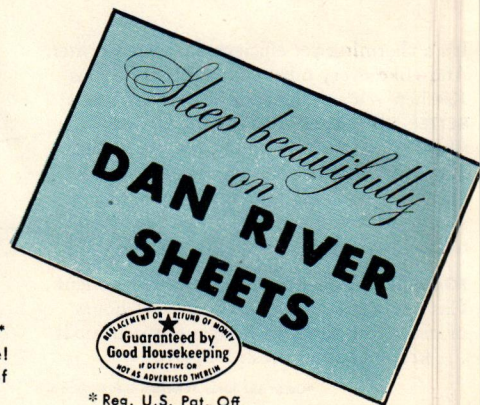


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If you *too* have worn fashions made of Dan River Fabrics, you share this precious secret of dressing beautifully. Know then, that you sleep just as beautifully when you choose Dan River Sheets. Fashion-wise in their own crisp way, they give your bed the right tailor-made look. And they have the lasting dependability so typical of everything labeled Dan River.

Dan River Mills, Danville, Va.

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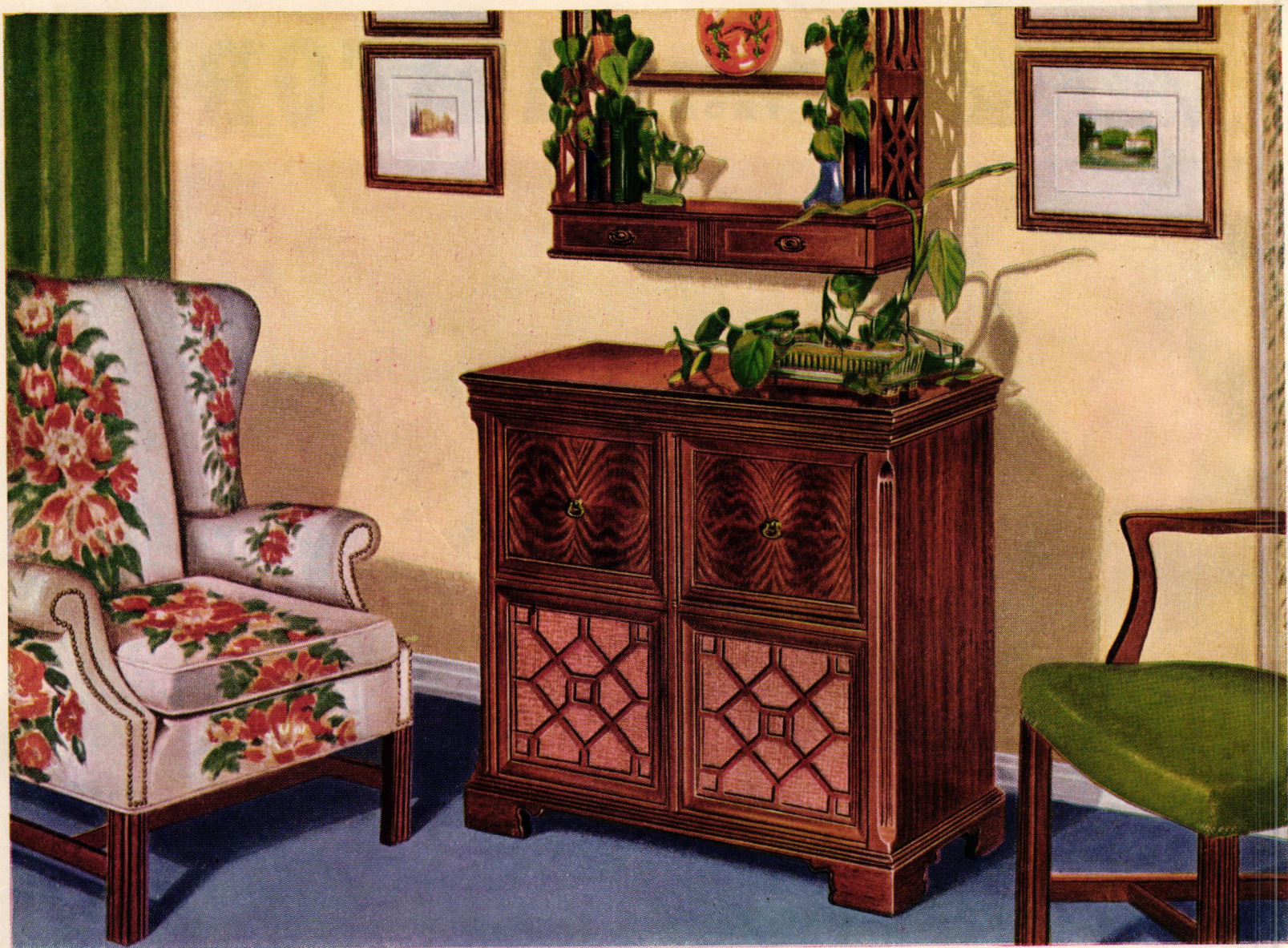
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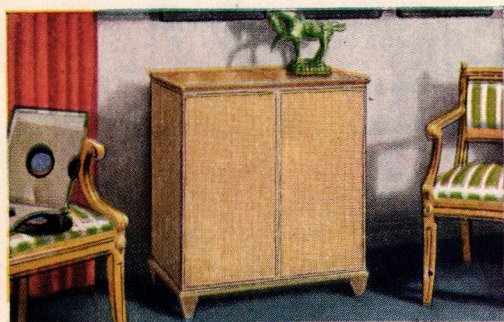
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House & Garden



COVER. Familiar to any gardener is this moment when a potted plant, held upside-down in the hand, is loosed from its root-bound captivity before being given larger quarters for further growth in the coming season. Photographed by Haanel Cassidy.

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Future builders—save these pages!

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CATALOG GARDENING

IDEALS FOR MAKING BETTER GARDENS IN THE FIRST PEACE YEAR

Sooner than we expect, the catalogs appear and gardeners enjoy their first upsurge of enthusiasm. Later the second will come, when crocuses dot the lawn and daffodils spill the Milky Way on earth and ferns unfold their furry crosiers. With catalog in hand, the dreaming, planning and ordering commence. All this should be decided in the light of what the garden already has. It is folly to order a shrub without knowing where it is to go, without being sure that the location suits its growth and best mature display. It is unfair to the plants and the men who produce them.

A close study of catalogs reveals that they offer good variety and better varieties. Some of the just good may be growing in our own gardens. Many have been superseded by better sorts. Gardens can become obsolete. The alert gardener replaces the just good by the better. And this applies all along, from the commonest annual flower and vegetable to the commonest shrub.

This year more than ever before, the necessity for ordering early is urgent. Phenomenally increased buying of plants and shortage of man-power have brought about a critical situation in many categories of the nursery trade. The seed industry is in a far more favorable position. Whether considering seeds or plants, order early.

That done, then comes the visualizing of how the garden can be changed, freshened, brought to sparkling flowery life after the neglect of war years. The vegetable patch, too, will enjoy freedom. The grim necessity for raising only subsistence vegetables has gone and we are able once more to experiment with what we'd long hoped to grow. So the first gardens of peace will show the grounds around the house stepping up with the times, just as the equipment and decoration indoors. Not alone will we be growing new and better plants, we will also be using new materials in combatting plant diseases and pests. The gardens of tomorrow will be better gardens.



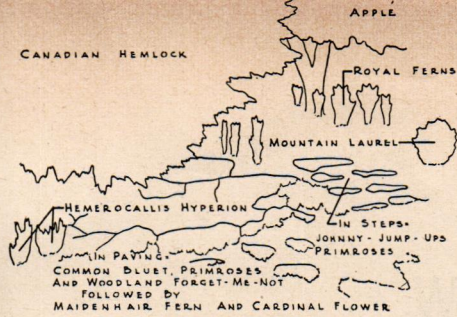
GOTTSCHO-SCHLEISNER

Garden details

THEY COMPLETE THE PICTURE.

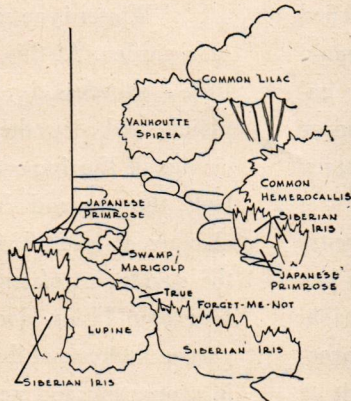
ADD A PERSONAL TOUCH

■ Like anything else, a garden is the sum of its parts, and the better those parts the better the garden. Some are unbroken flat stretches of lawn, restful to the eye and contrasting with the vertical beauty of trees and shrubs. Others develop around some particular feature—a pool or brook, a rocky outcropping or the dense shade of trees. In each of these different situations certain plants grow naturally, because of the dampness of the soil and the amount of light. Those that are companionable we group together, but the manner in which they are placed, the added touches of stone and the blending of colors can make even the smallest detail memorable. Here are four such garden features, with planting plans that can be adjusted and applied to like situations in other people's gardens. These particular features have to be related to the garden as a whole. They shouldn't be crammed together. Restful areas should lie between them and the more they are hidden and come upon unexpectedly, the greater the visitor's delight.



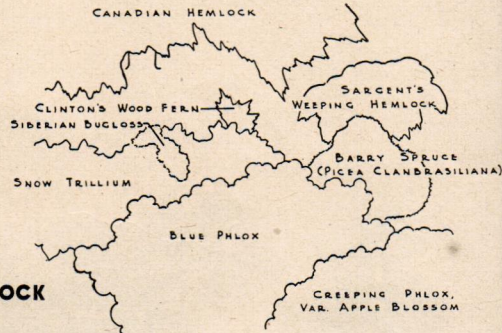
◁ **BESIDE A SHADOWED POOL**

Bluets, forget-me-nots and primroses self-sow between the stones near this spring-fed pool in the North Egremont, Mass., garden of the George O. Forbes.



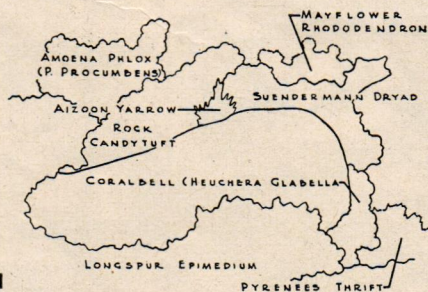
BY A TUMBLING BROOK

Fortunate owners of a brook, Mr. and Mrs. Albert H. Spahr of North Egremont encourage plants that like wet feet. Primroses sometimes wash out in thaws, replant downstream.



AT THE FOOT OF A HEMLOCK

The chaste whiteness of Trillium grandiflorum and the pastels of two phloxes stand out against green needles and gray rocks. The J. M. Hodsons' garden, Greenwich, Conn.



ON A ROCKY SLOPE, PART SUN

On the same southeast slope in the Hodson garden, designer Marcel Le Piniec has used a charming combination of dwarf shrubs and perennials. The spot gets sun only half a day.



R

eplant now—from the window

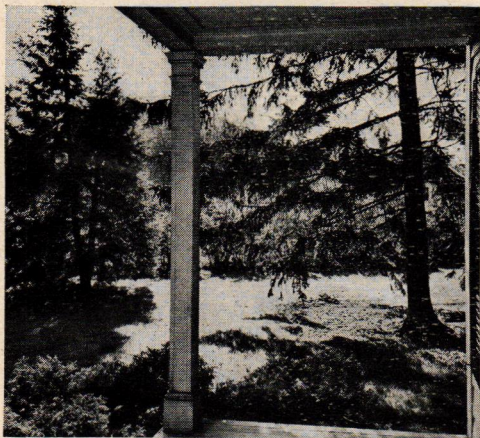
■ The gardener, like the artist, is never entirely satisfied with his achievements. Probably that is one of the main fascinations of gardening—there is always room for improvement whether it be in a complete change of plan or simply the shifting of blue iris beside its complementary early gold hemerocallis.

This year will see a burst of activity in ornamental gardening. Whether consciously or not, the gardener has been storing up ideas of beauty while tending his vegetable patch. His weedy rock garden, unedged borders and overgrown shrubs have been bearing down upon his spirit of neatness. He is anxious to reaffirm his leadership over the weeds and to make some of the improvements that wartime chores have kept him from carrying out.

It isn't necessary to wait until spring to satisfy some of these gardening impulses. But before the pruning shears are brought out or the old garden plan scrapped, it is well to check over the property.

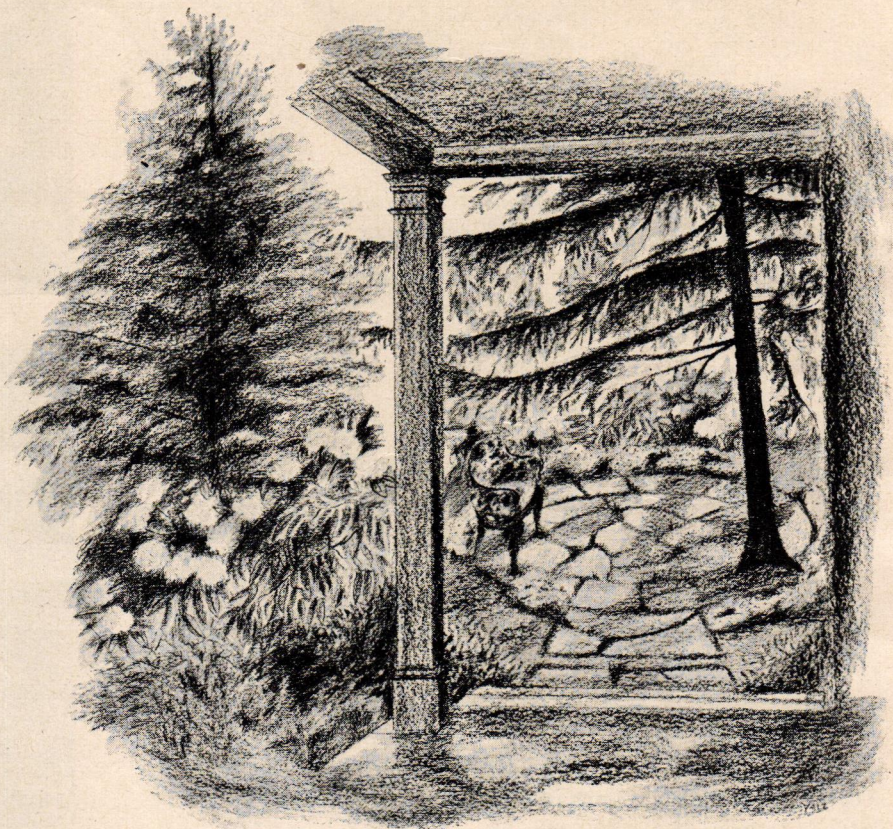
Winter is an excellent time to judge the proportions of a garden. At this season its backbone only is visible. Pick a snowless day when the ground pattern shows up plainly and view the garden from upper windows, criticizing all the important elements—the lawn, the empty beds, the tree and shrub specimens and groups, and the changes of level. First criticize the whole property from the standpoint of use. Considering the limitations of its four boundaries, does the garden satisfy the particular garden interests of the family? Next, are the various parts in proportion and well connected? Do the existing plants fill their spaces satisfactorily and do they have the health and vigor that indicate good site and soil? Finally, how can more attractive seasonal floral pictures be created?

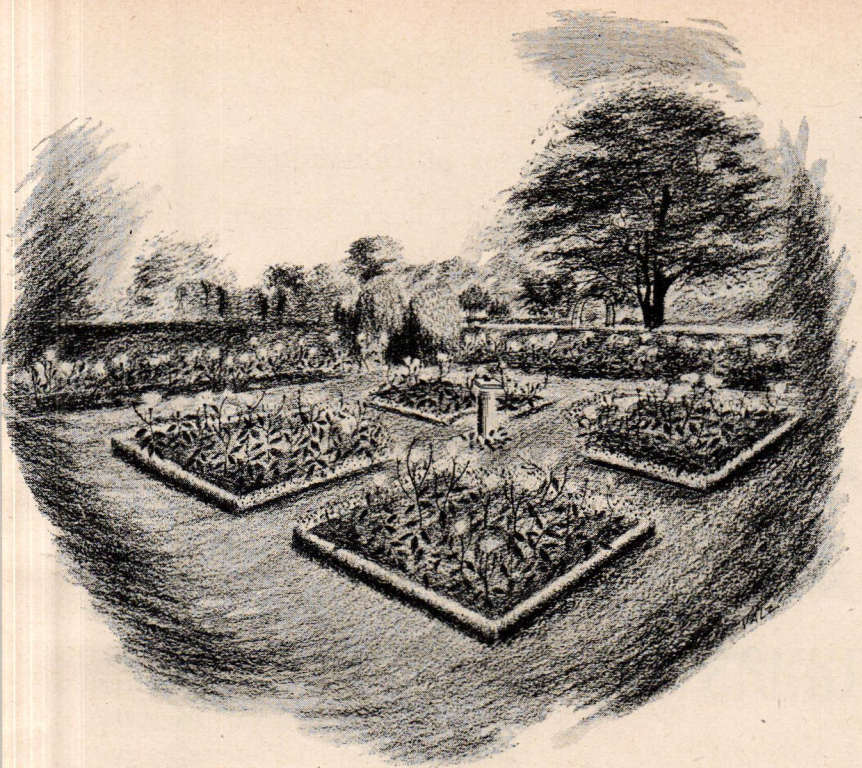
The first aim should be to work toward a simplified layout that eliminates clutter and gives a feeling of composure. Often there are chances to unify the plan or make the property more liveable (Continued on page 96)



SOME TREE TRIMMING

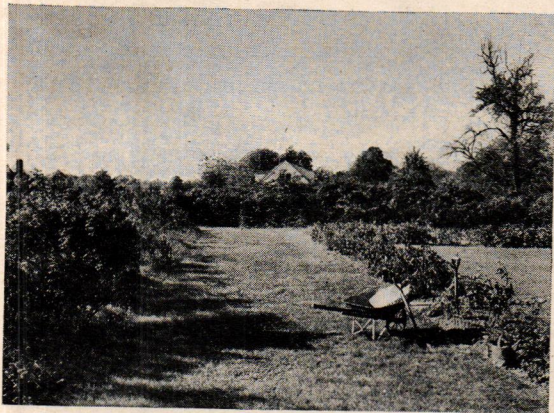
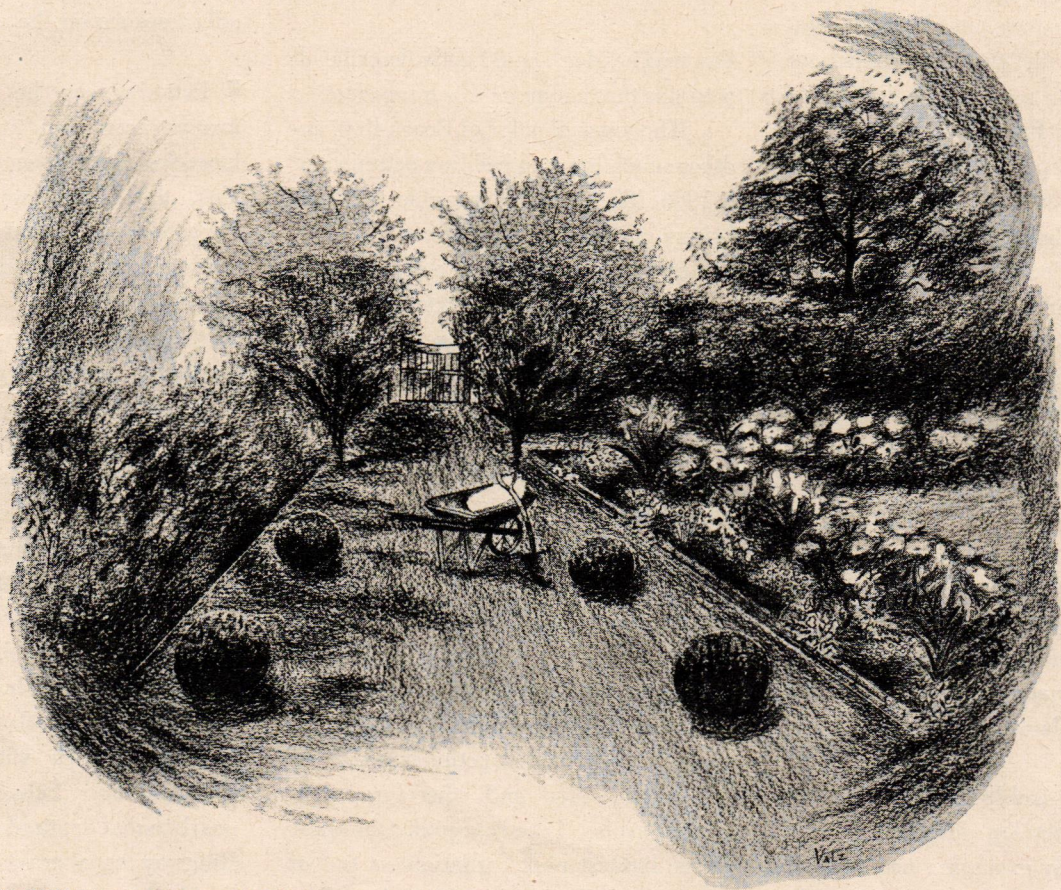
with the addition of background shrubs, paving and porch steps, makes a garden room of waste space. To fit the soil and shade beneath existing large Norway Spruce and Canadian Hemlock, owners plan to introduce hybrid rhododendrons, the dainty Glossy Abelia and Drooping Leucothoe. Foreground can be kept to wildflowers and ferns or livened up with gay spring bulbs.





A ROSE GARDEN

of all special gardens must be spruce. The replacement of poor bushes with new and better varieties, the edging of beds and manicuring of paths are all important in bringing a run-down garden back to the state that shows off the blooms to advantage.



A PERENNIAL BORDER

can be a fine feature if it is in good condition and well tied to the rest of the grounds. This one is to be treated to both phases of remodeling. The owners will sort out the hodgepodge of perennials and replant the narrow border to a background row of peonies, groups of iris and spring bulbs, to be followed by low annuals. Two flowering crabapples and two tree-form bush honeysuckles with a gate will be introduced at the end of the axis for background, screening and to "turn" the border. Boxwoods will line both sides of the wide grass panel to bring it into better proportion with the narrow border.

Clarity in seed catalogs is predicted by E. I. Wilde, Professor of Horticulture, Pennsylvania State College, who presents the petunia as a popular floral example

Emphasis on Petunias

■ Seed catalogs by the thousands will soon be in the mails. Gardeners who eagerly await them in every part of the country will find that 1946's catalogs show considerable improvement over their pre-war counterparts. The gay colors and enticing names are still there by the scores, but the compiler has shown more discrimination than usual in choosing varieties and in giving exact descriptions of the plants.

These improvements in seed catalogs started with the curtailment of qualified help on seed production farms during the war. Finding it necessary to cut down on production, the short-handed seedsmen took inventory and eliminated the less desirable flower and vegetable varieties. As a result the public both suffered and benefited—suffered the loss of diversity and quantity of material, but gained by the elimination of poor varieties. Many catalogs are now comparatively free from second-rate varieties, and this holds a good augury for the future.

This sweeping out of inferior and near-duplicate varieties began a housecleaning in catalogs. Seedsmen are trying to meet the demands for exact flower descriptions. There is still a long way to go but they have made a good start toward standardizing plants and descriptions.

■ Petunias admirably illustrate the past confusions in catalog descriptions, and they are a timely example since three of this year's four annuals to win All-America Selections awards are petunias.

Bright Eyes, a dwarf white-throated pink, winner of the bronze medal, is one of a valuable class of small-flowered bedding varieties, of both tall and dwarf heights. In the past this simple and descriptive class has been variously listed in catalogs as *hybrida*, *erecta*, *nana* and *compacta*, alone or in combination. The result is utter confusion for the average purchaser. The one phrase, "small-

flowered bedder", could aptly describe all petunias that comprise this large class.

The unusual color of Peach Red, another small-flowered bedding petunia and a 1946 All-America honorable mention, brings our attention to catalog discrepancies and synonyms in color descriptions. Peach Red is a departure from the blue-pink of most petunias. It is an indescribable color (a tint of 60 percent red and 40 percent orange, according to Ridgway's "Color Standards and Nomenclature") of such depth that it clashes with other pink petunias but will blend with strong yellows and even with yellow-reds.

With the exception of the varieties Peach Red, Cheerful and Salmon Supreme, the range of petunia colors is very narrow, from almost royal purple to amaranth-pink (74 percent red and 26 percent violet). Most petunias are 26 to 67 percent blue and, therefore, definitely purples. True rose-pink (the color of the lightest pink carnation—a tint of 90 percent red and 10 percent blue) does not exist in petunias. Yet catalogs in the past have used the terms deep rose, brilliant rose, rose pink, bright rose and clear rose for five separate varieties of petunias that are not rose pink at all and that vary so slightly in shade that their effect in the garden is approximately the same. The so-called blue petunias are really violet.

Most catalogs clearly describe flower forms, the reason being that they offer

little chance for confusion. There is no mistaking, for instance, that Colossal Shades of Rose, this year's winner of the All-America silver medal, is a double, and fully as double as the unobtainable Japanese strain of Victorious fringed doubles. Unfortunately the flowers' varying shades of pink are to a high percent true purples, the "magenta" shade that some gardeners avoid. However, by careful selection hybridists can undoubtedly improve on the color.

■ Petunias can be divided into five groups according to flower type—the large-flowered (*grandiflora*) plain petaled, the large-flowered (*grandiflora*) fringed, the Giants of California, the all-doubles and the small-flowered bedders mentioned.

The largest group and the most important for the home garden is the small-flowered bedder. The group breaks down into two types: the tall, vigorous growers, known as balconies, so called because they may be used for window boxes as well as in beds, and smaller, more compact plants suitable for close planting. Some of the best small-flowered varieties, grouped by color, follow:

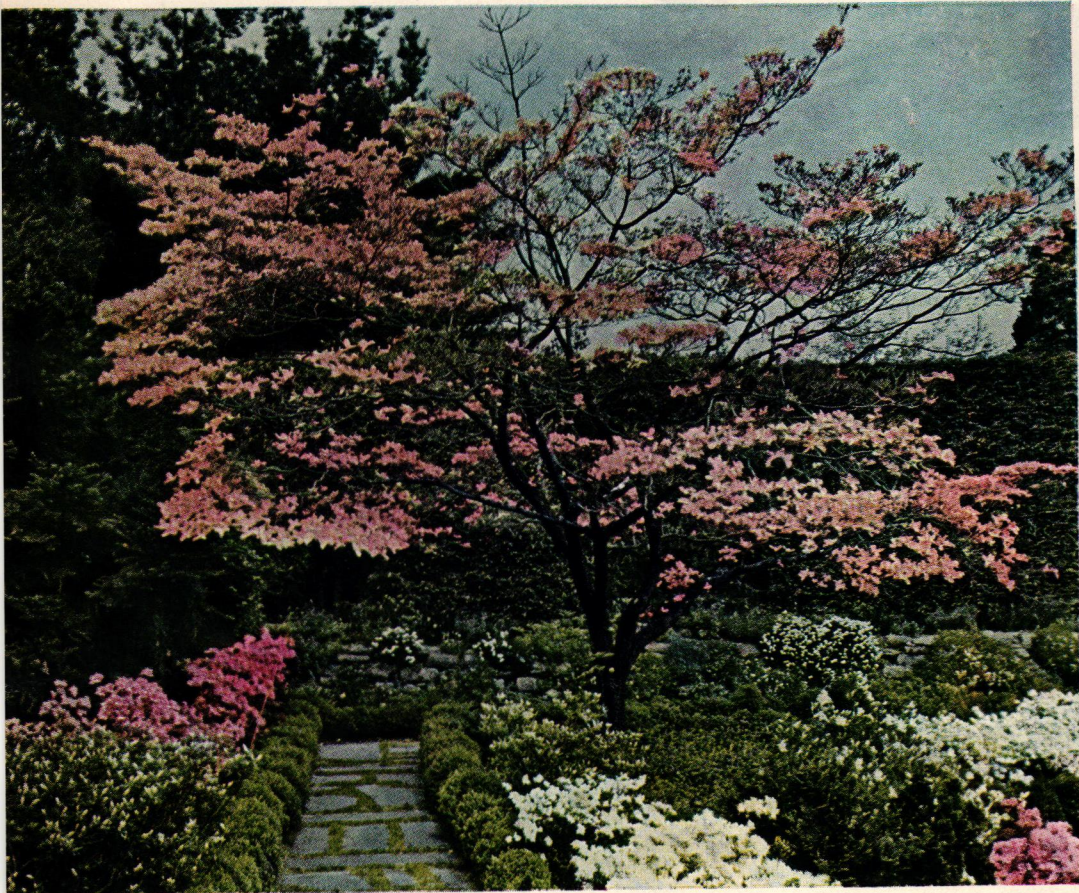
First Lady (Fair Lady) stands alone in the light pink class. It is dwarf and erect in growth with prolific bloom. Cheerful and Salmon Supreme have nearly equal depth of color, described by Ridgway as a grayish deep rose pink, decidedly not salmon. Cheerful is preferred because of its spreading habit, large flowers and dependability.

The next color is nearly the depth of the spectrum and includes many desirable varieties, especially Celestial Rose, Rose of Heaven and Rose Queen Improved. Celestial Rose is slightly deeper in shade and the plant is more compact than the other two, which are almost identical. Bright Eyes belongs in this group. (Cont'd on page 84)

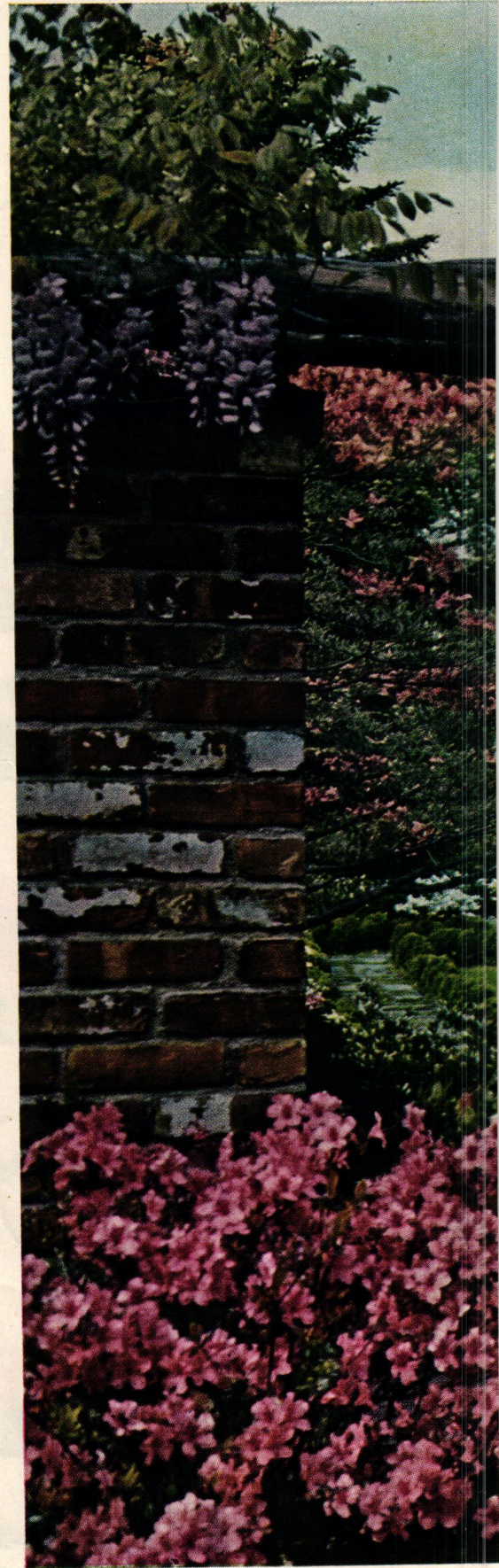
Adogen annuals, some new, some bred. 1. Breucalia Sapphire. Two new yellows. 2. Cosmos Yellow Ruffles and 3. Margold Victory. 4. Snapdragon Loveliness. 5. Snapdragon Blue Spire. 6. Lobelia Emperor William. Three petunias, all 1946 All-America Selections winners: 7. Colossal Shades of Rose, 8. Peach Red and 9. Bright Eyes. 10. Maritote Pink. 11. Verena Beauty of Oxford. 12. Helianthus Dwarf Maroon Prince.

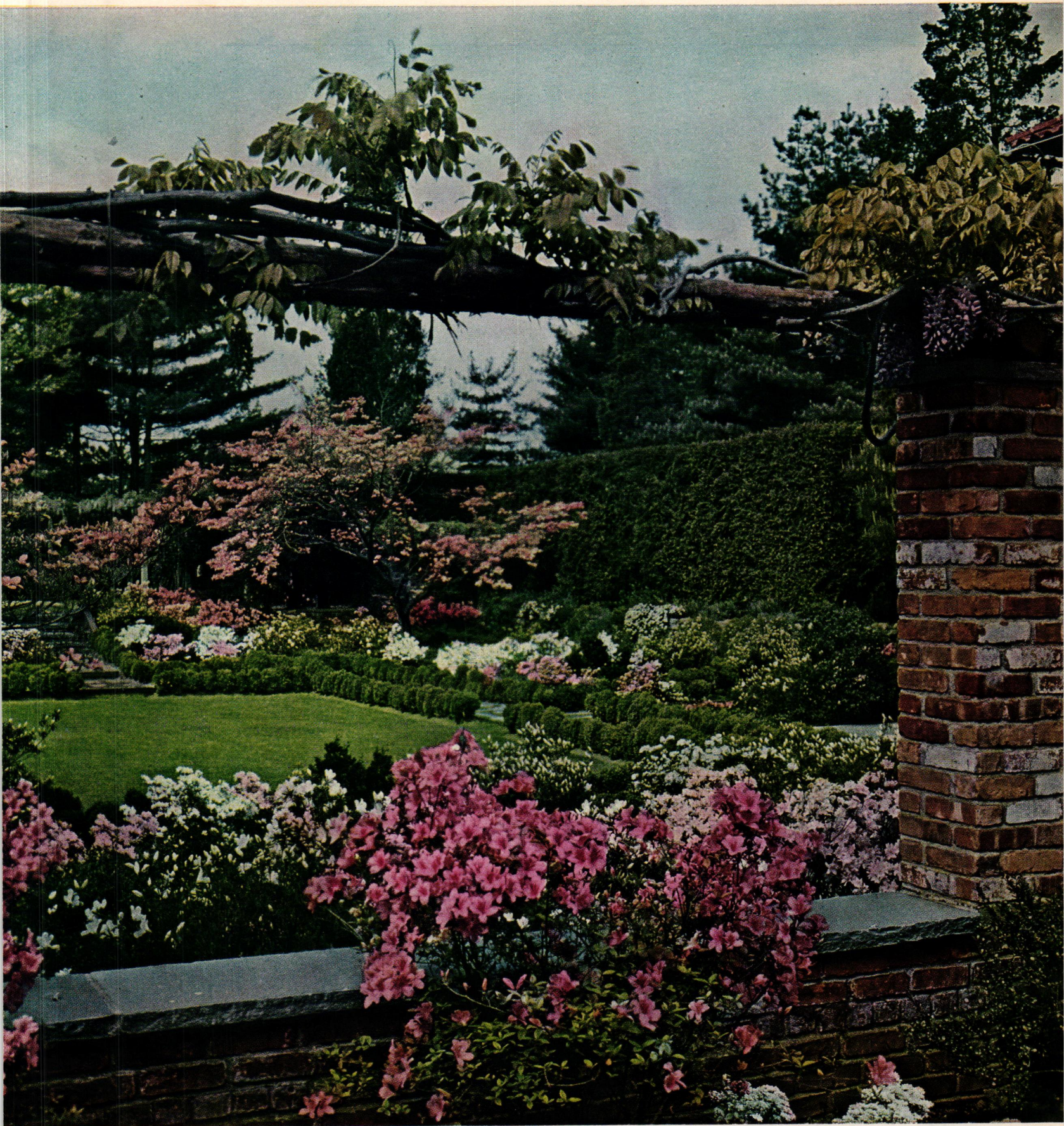


Spring in pink and white



A pink Flowering Dogwood tops the frothy bed of Snow, Indica and Maxwell Azaleas in this Long Island garden, designed by Umberto Innocenti and Richard K. Webel. Candytuft and pink and white tulips complement the shrubs and are later replaced by white petunias, creamy lantanas and heliotrope.

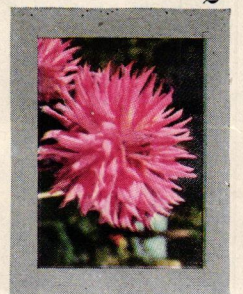




MILL NECK, NEW YORK

The garden through a wisteria-covered trellis. The plan centers in a grass panel that is surrounded by a boxwood-edged path and the azalea beds. The brick-piered enclosure permits vistas of the harbor and woods. Interrupting it on the north side, a hemlock hedge shelters the garden and, with rhododendrons and laurel, makes a deep green foil for the pastel blooms. One corner of the brick terrace adjoining the library can be seen at the right. The garden was planned over a period of time, permitting the owners to grow shrubs from small plants. Kodachromes by Gottscho-Schleisner.

HAANEL CASSIDY



Three New Roses are among this year's welcome prizes for the home garden:
 1. *Peace*, 1946 All-America Selections winner, at top, with the dainty *Floribunda Goldilocks* and miniature *Hybrid-Tea Pink Bountiful*. Other outstanding flowers are 2. *Dahlia Luzon*, 3. *Gladiolus Pioneer* and 4. *Helen McGregor*, a new blue iris.

QUALITY BEFORE QUANTITY

■ The overall picture of American gardening will be considerably modified, in this first year of peace, by the absence of the Victory Garden movement—to which, in passing, let us pay a word of tribute. It was a more important factor than has been generally recognized in maintaining the health, and therefore the morale, of the nation through the lean years of the war. What effect this will have on home vegetable gardening remains to be seen, but certain it is that many who have learned, through necessity, the superior sweetness and succulence of well-grown garden produce will now, from choice, continue to raise at least some of their own supplies.

■ The gardener no longer feels obliged to grow the gamut of vegetables to fill the family's needs. He can, if he chooses, grow only one or a half-dozen kinds that offer a challenge or that appeal particularly to the family's palate. Whether he is the specialist or the general grower, his aim in 1946 will be quality before quantity—though actually both factors are found in the best modern varieties—and some novel or unusual kinds not found in the stores.

Among the staple species of every garden, beans and tomatoes would probably tie for first place, both being necessities of the table and of easy culture. It is exasperating to find the term "string" beans still in common use and there is now no reason why any but the modern stringless varieties should be raised. Of these, the most generally popular bush type is Tendergreen, and for 1946 a new longer-podded strain, Longgreen, is announced with commendation from the All-America Selections. Of the pole type, the old Kentucky Wonder, noted for its fine beany flavor but also for its twists and tendency to strings, is being replaced by the medal-winning Potomac with nearly pencil-like pods, very meaty, and stringless at all stages.

■ In tomatoes, Rutgers holds the field as leader of the main-crop varieties, except in areas where the soil has become infected with the germs of fusarium wilt. To defy this disease the U. S. Department of Agriculture has introduced Pan America, fully resistant and yielding fruits of very fair size and quality. A newcomer is Burpee Hybrid, promising the advantages usually associated with the phenomenon of hybrid vigor: high yield and uniformity.

The other indispensable of every vegetable garden is lettuce. Among the several new varieties of the heading

Gardeners now aim for quality
first in vegetables,
says Francis C. Coulter, and
lists some top varieties.

type that have been announced in recent years, Great Lakes seems to be finding most general acceptance where summer weather usually leads to tipburn or worse. Among the standard loose-leaf varieties, such as Grand Rapids, improvement in size, hardihood and texture is being effected by breeders.

Slobolt is a new variety developed to withstand hot, dry weather without going to seed. The little butter-head Bibb is not finding so many new admirers now, but those recent gardeners who tried Oak Leaf and Mignonette are loud in praise of these old non-commercial favorites.

Among good carrots—best pulled at the little lady-finger stage—Nantes and the newly introduced Nancy are to be recommended for the home garden. There are also several distinctly dwarf types for the hotbed or greenhouse when it is desired to force the earliest carrots.

Peas and corn are the two vegetables that are enjoyed to the fullest only if the time between picking and boiling is limited to minutes so that the plant sugar shall not obviously be turning into starch. For mid-season, peas of the Thomas Laxton type continue in high popularity for eating fresh or frozen. Wilt-resistant kinds are available where necessary.

■ In sweet corn the old open-pollinated varieties have been nearly crowded out by the more vigorous and more prolific hybrids, but the little Golden Bantam, very flavorful, and the sweet Black Mexican (white at the eating stage), both of them slender eight-rowed ears, are still to be found in gardens where quantity is not a first condition. Recommendations for hybrids adapted to local conditions are available from seedsmen and state experiment stations.

Among the summer squashes, all at their best when eaten very young, Early Prolific is the finest of the yellow type, but the new Black Cocozelle and Black Zucchini, usually sliced and fried rather than boiled, are to be commended. The little autumn baking squash, Table Queen, is finding a strong competitor for popularity in Butternut, which seems to be Yellow Cushaw with the crook taken out of its neck, excellent in texture and flavor.

Among perennial vegetables, Mary Washington is the outstanding asparagus, and Macdonald is one of the much-improved rhubarb varieties. As rhubarb and asparagus beds yield for years, special care should be given to their preparation and to the choice of varieties.

Their culture is an art, says P. J. McKenna

who explains in detail how the experts get

Fruits from espaliers



THE espaliered dwarf fruit tree long ago was designed to produce crops in a limited space without casting shade. This adaptation has given it a place in the compact modern garden where standard size trees are out of the question because of their spread. By growing espaliers the owner of a small property can have enough varieties to insure good cross pollination and fruit set. Moreover, their small size allows him to control diseases and insect pests with ordinary hand equipment.

Espaliered trees, besides being comparatively easy to maintain, have adaptations unknown to standard trees. The horizontal forms, depending on their heights and number of arms (or leaders), are used to edge walks and drives and to cover low or medium-height walls. The U-forms are adaptable to high walls, fences and sides of buildings. The fan is used for broad wall areas. Planted in rows, espaliers make hedges and screens. Very dwarf ones can be grown in tubs on terraces. Besides yielding fruit of good quality and quantity, espaliers offer ornamental value in their spring flowers, colored autumn foliage and architectural effects.

The culture of espaliers is an art based on the application of a principle of plant growth known as sap flow control. This guides the nurseryman's choice of understock (roots or rootstock) and the fruit tree's later



GOTTSCHO-SCHLEISNER

SIDE SHOOTS OF PEAR—SUMMER

a. Stub of shoot pruned previous winter. b. Long summer growths summer-pruned (c) to three leaves. d. Points for further cut-backs the coming winter. e. Separate fruits here when harvesting to avoid damage to the spur (f) and to the fruit bud (g).

training. He picks a dwarfing rootstock, that of a type with a small root system. This limits the size of the tree that is grafted on it, slows its growth and encourages early bearing.

To obtain dwarf apple trees for training as espaliers the nurseryman selects one of the Malling roots as an understock. These are roots collected in Europe and classified by the Malling Research Station in England. They are numbered from one to sixteen, and each gives a different degree of dwarfing. Numbers eight and nine, the most dwarfing, give the lowest espaliers. Numbers one and two, semi-dwarfing, result in taller trees. The other Malling stocks range in vigor from semi-dwarfing to those approaching standard size.

Pears for dwarfing are grafted on the Angiers Quince. The understock for dwarf peaches and nectarines are the almond or the St. Julien Plum, which is also used for plums and apricots. Cherries are grafted on the Mahaleb Cherry. When ordering dwarf trees it is safest to specify the understock, although reputable nurseries recognize and use the correct ones.

The forms into which espaliers are fashioned are determined by the natural growth habit of the kind of fruit tree, even of the particular variety. Training, like the effect of rootstock, further slows sap flow. In untrained vertical growth sap flows to the outermost buds, leaving the lower ones inactive. The bending involved in training an espalier slows up the sap flow and gives it better distribution. This forces all the buds into vigorous growth. The next step, pruning, is perhaps the most important cultural practice. It serves not only to encourage fruit production, but to maintain the espalier form.

Espaliers should be pruned twice a year. Winter pruning, which can be done anytime before growth begins in spring, forces heavy vegetative growth. Summer pruning, done 90 to 110 days after spring growth begins (about July fifteenth in the New York area), is timed to the peak of sap flow. This pruning encourages the trend to fruit bud or fruit spur formation by checking the sap at the lower buds.

Apples, pears, plums and cherries are spur-bearing fruits. A fruit spur is a short, stubby growth with one or more fruit buds. In apples and pears the fruit buds (whose plumpness distinguishes them from the leaf buds) during the growing season are set in a rosette of leaves, with usually a blossom for every leaf; in plums and cherries the leaf buds are intermixed with the blossom buds. These four types of fruit can be given similar pruning treatment, with slight variations based on differences in growth rate.

In mid-summer spur-bearing fruit trees should have their summer wood pruned out to encourage formation of fruit buds. These long growths, developed the current season, are pruned to three leaves (or eyes). Shoots that subsequently appear during the summer from remaining leaf buds are pinched back (cut back) to two leaves before the first of September. The following winter the three-leaved (Continued on page 89)



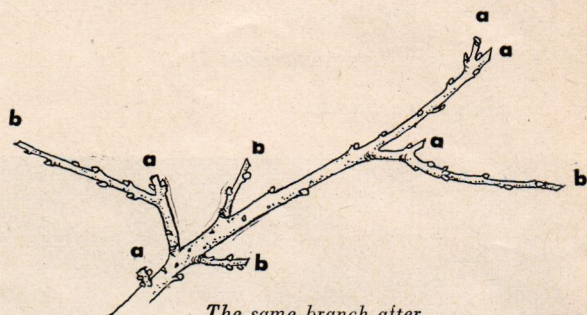
MAIN STEM OR LEADER OF PEAR—SUMMER

- a. Retain this shoot through summer. It is cut back (b) the following winter to one bud or eye.
- c. Pruned stub of shoot which had borne fruit.
- d. Fruit buds stimulated by removal of the shoot.

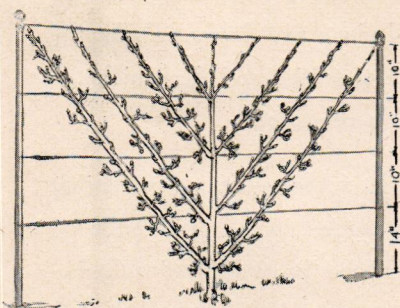


BRANCH OF PEACH WITH SUMMER GROWTHS

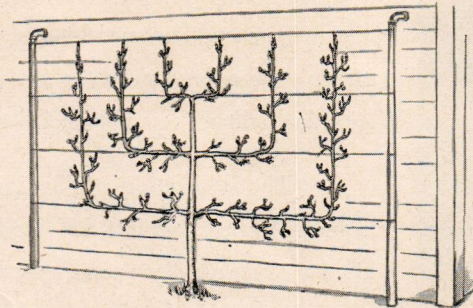
- a. Points to make cuts in winter to encourage replacements that will fruit the following year.
- b. Cut here on current fruiting growths to reduce number of fruits but increase size of remaining ones.



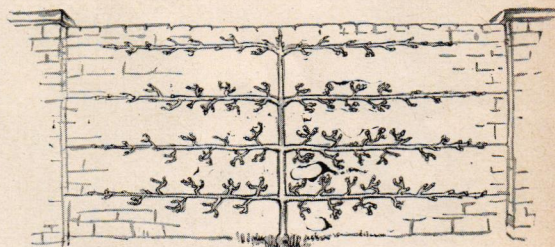
The same branch after winter pruning.



FAN ESPALIER



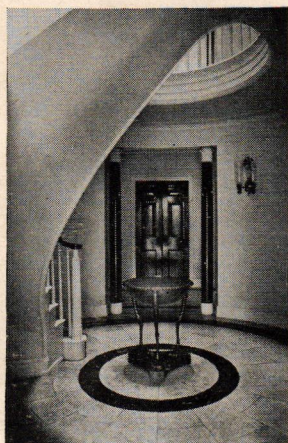
U-SHAPE



HORIZONTAL

Town house on a St. Louis square

PLANNED FOR MUSIC, FOR RESEARCH, FOR AVOCATIONS, FOR HOSPITALITY



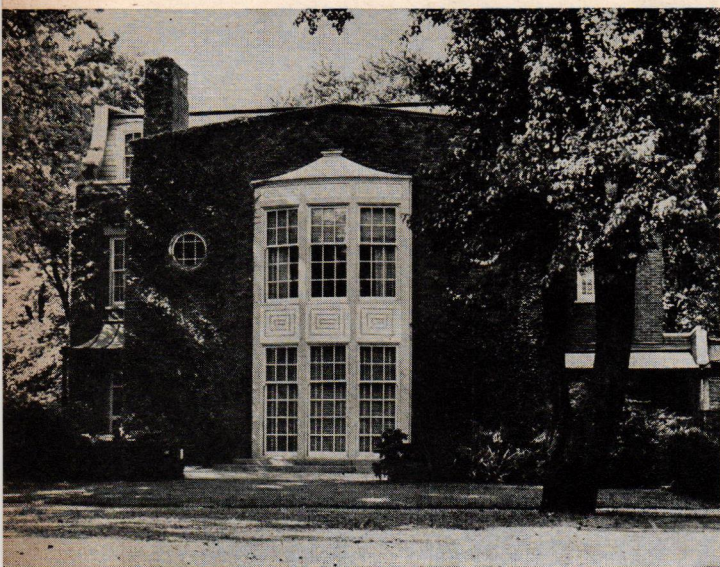
Severe as an etching, the classic black and white hall with its soaring staircase is illuminated by a skylight. Below, a two-story bay dominates the garden façade.

■ Secluded in a tree-lined private square, yet near the center of St. Louis, this house was designed by and for its owners. Dr. Arthur Proetz, a prominent doctor, amateur musician and photographer, and his late wife, nationally known in the advertising field, active in civic affairs and a famous hostess, planned their house to fit every function of their busy lives and to permit the entertaining at which they both excelled. Their architect was an old friend, Ralph Hall of St. Louis, the interiors and furniture were designed by Dr. Proetz' brother, Victor Proetz, and his partner, Mrs. Joshua Cosden of New York.

The plan is unusual: at street level, entrance and a central stair hall rising to the roof, with library and large powder room at the sides, dining room across the back, kitchen, pantry and small greenhouse in the wing; on the second floor, a large living room, two bedrooms and dressing rooms plus a tiny study; on the third floor, a guest suite; and, in the basement, servants' quarters and a fully equipped laboratory and darkroom where Dr. Proetz does research and makes illustrations for his own medical textbooks. The entire house is completely air-conditioned for comfort in a climate of great extremes.

Since entertaining was a vital factor, both dining room and living room are large and graciously proportioned; both overlook the flagstone terrace and badminton court in the garden which runs the full depth of a city block and borders on the lawns and trees of Forest Park. And since Dr. Proetz is not only active in such civic affairs as the symphony concerts, but is also a talented organist and musician, the living room contains both a grand piano and the console for the organ whose loud-speakers are above the door and for which the circular hallway was planned to act as a resonator.

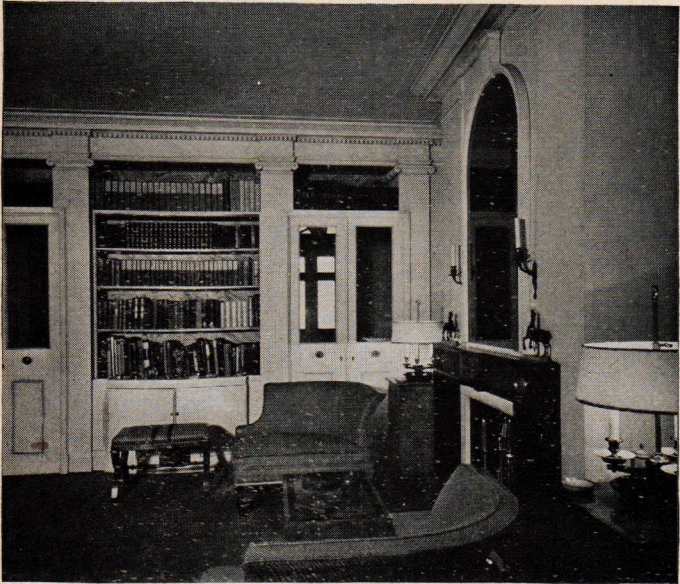
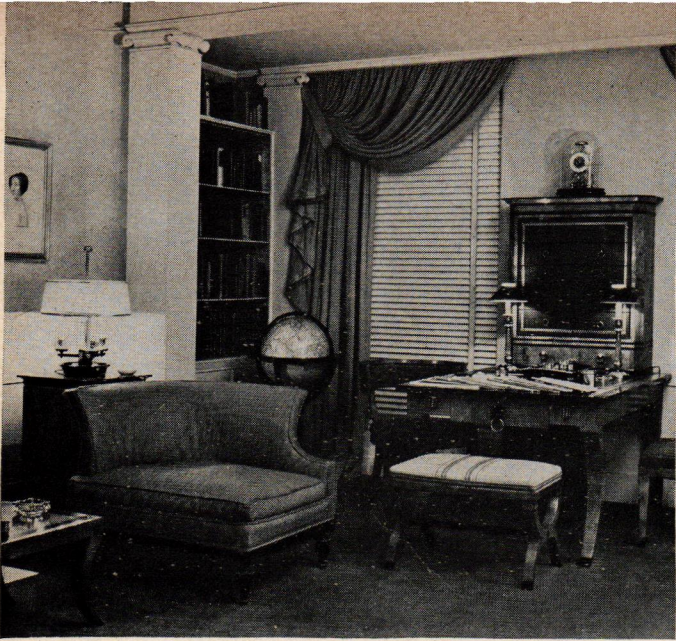
The decoration of the important rooms—elegant, somewhat severe—forms a perfect foil for large parties, is softened by the intimacy of the smaller rooms—the library and the study lined with photographs taken by Dr. Proetz on his many travels both here and abroad.





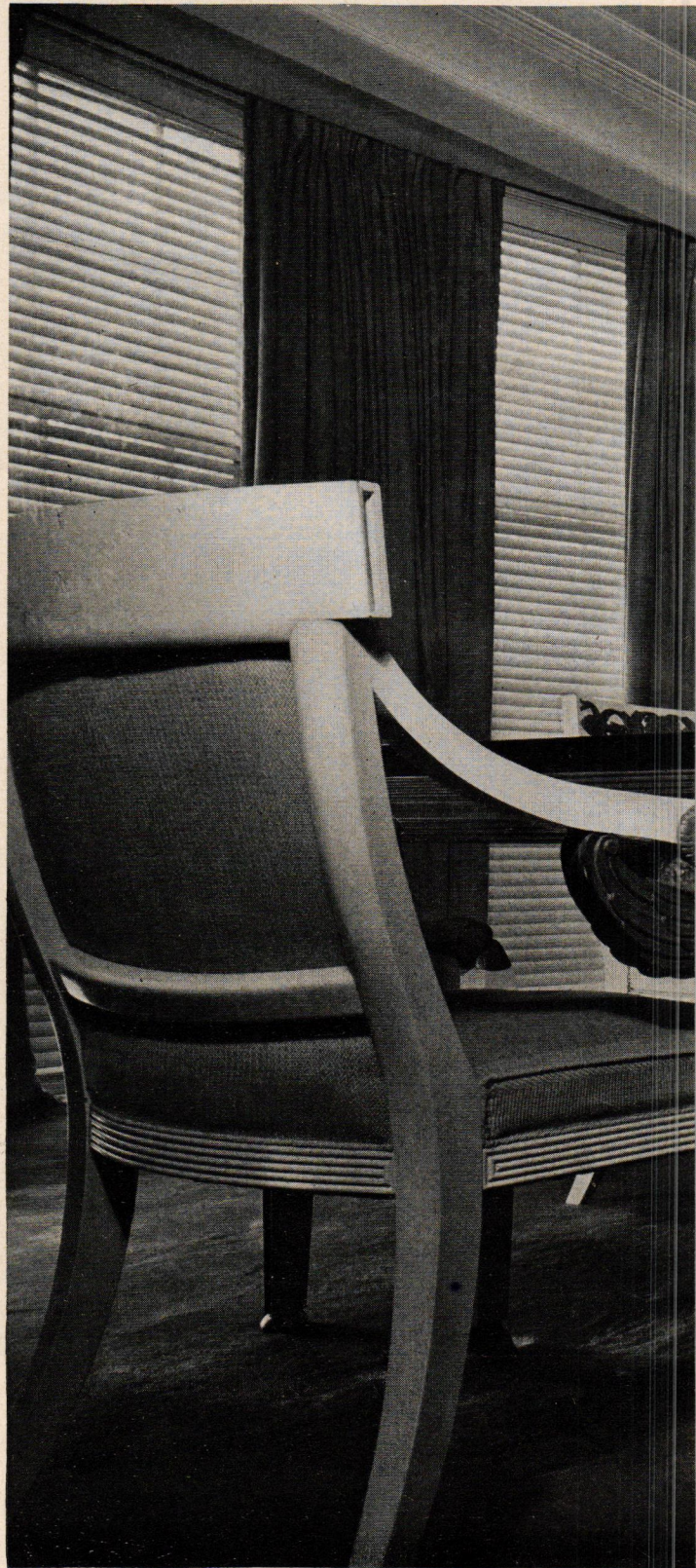
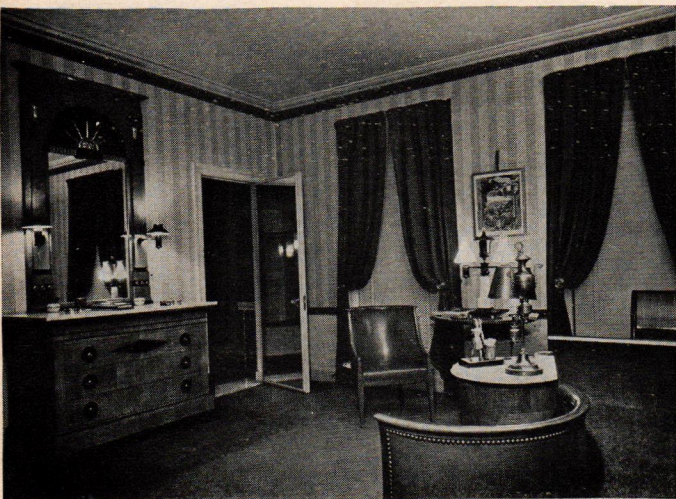
FOR MUSIC AND ENTERTAINING

Unusual in its placement, the large second floor living room runs across the garden side of the house and takes in its stride a grand piano and an organ console for evenings of music. Decorated in soft tans and beiges, its only color accent is the dull coral of the pillows on the curving couches which flank triple windows above the garden. A fireplace faces the tall cabinet.
CONTINUED ON NEXT PAGE



The mellow bindings of much-read books, housed on shelves lined with marbled book paper, give an air of intimacy to the library on the ground floor. Top, the double desk, set between the windows; below it, the fireplace grouping.

Essentially masculine with its massive Empire furniture, yellow and gray walls, red curtains, blue spread and gray rug, Dr. Proetz' bedroom has a strong Napoleonic flavor.



TOM LEONARD

FRAGILE GRAY AND YELLOW SCHEME.



OLD COMFORT IN THE DINING ROOM

Overlooking the garden, the downstairs dining room has walls of gray broken by white columns, niches and a wide fireplace. The modified Empire chairs, built for comfort, are white with soft yellow upholstery, its hue echoed in the duvetyn curtains with a gray motif. Crystal lustres flank an old family portrait.

"Are you with it?"

MANHATTAN'S LATEST CATCH PHRASE MEANS "ARE YOU ON THE BEAM?"

A NEW musical, highhearted and glittering as a sequin, brightens up the season. Its sets by George Jenkins and costumes by Raoul Pene du Bois (see their sketches, right) are so daffily gay that they're an unexpected source of decorating ideas. To wit:

Choose the liveliest red, let it glow against white walls in fabrics and lampshades, then complement the red with a rug like a carpet of green lawn. Have circus-tent white curtains broadly striped with great slats of the same green. Throw pillows of the same stripe on a sleek satin sofa of African brown. Lime will give tart, sharp flavor to accessories.

Combine spun sugar pink walls with a tête-de-nègre rug and accents of melon red for a living room, or reversed like a negative, try tête-de-nègre walls and melon red leather upholstery in a library.

A carpet, blond as the straw hat opposite, would be striking with rind green walls and curtains striped green on white. Upholstery in hot pinks and reds would add the proper dash.

Accents can bring carnival gaiety to any dull room, timid as a country mouse. For highlight, try chandelier shades as multicolored as clown's pompons. Drape swags of heavy white cotton rope like the animal trainer's aiguillettes over red curtains.

Go to gay sources for your decorating color schemes . . . the theater, paintings, a beautiful dress, and your rooms will say "you are with it!"

"DO YOU KNOW THE SCORE?" IT IS ALSO THE TITLE OF A NEW

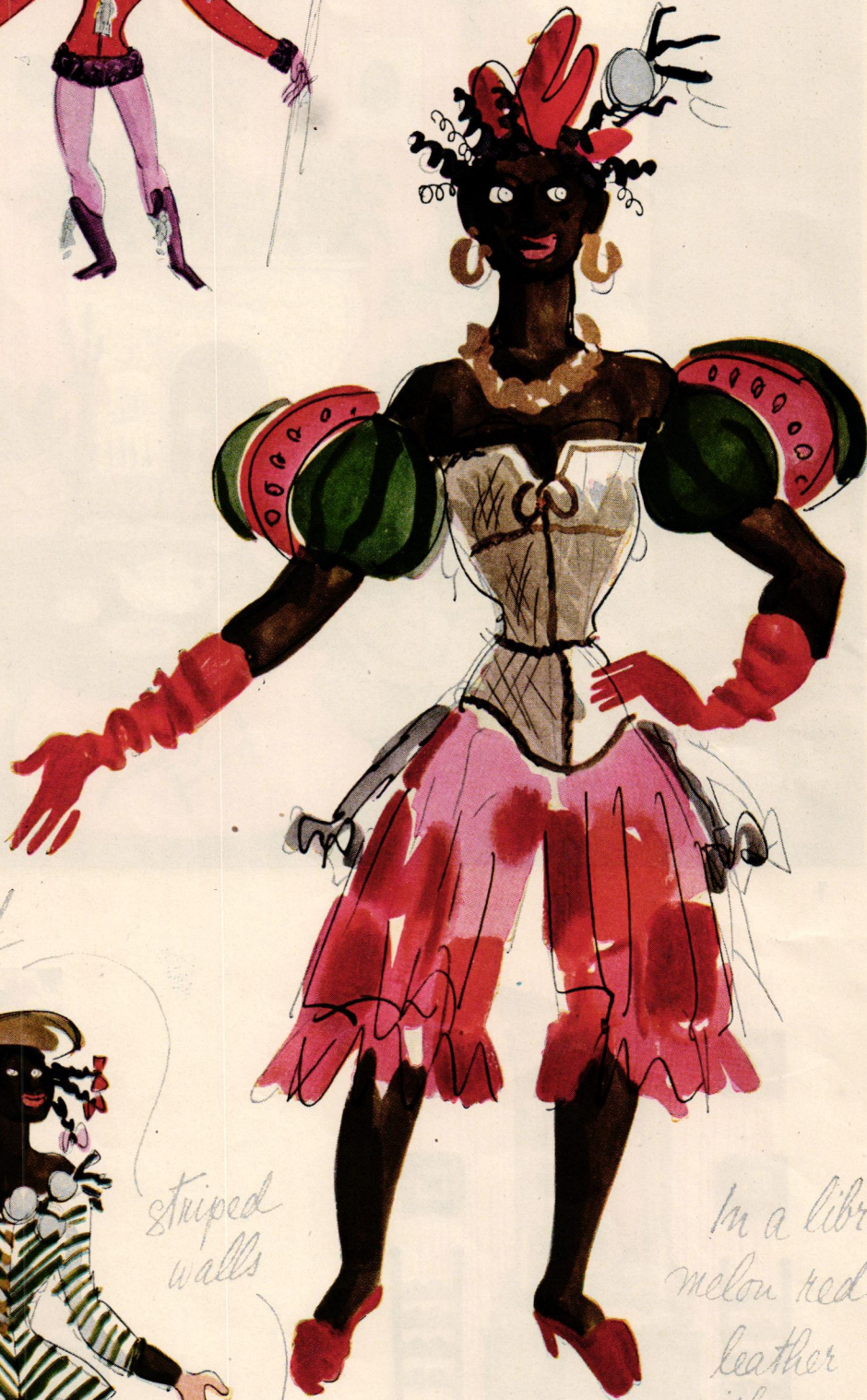
MUSICAL WHOSE BRIGHT COSTUMES AND SETS

SUGGEST THESE MERRY DECORATING IDEAS



Pompon colors for chandelier shades in foyer or dining room

For a valance - braid looped like this



In a living room try hot pink with

melon red accents



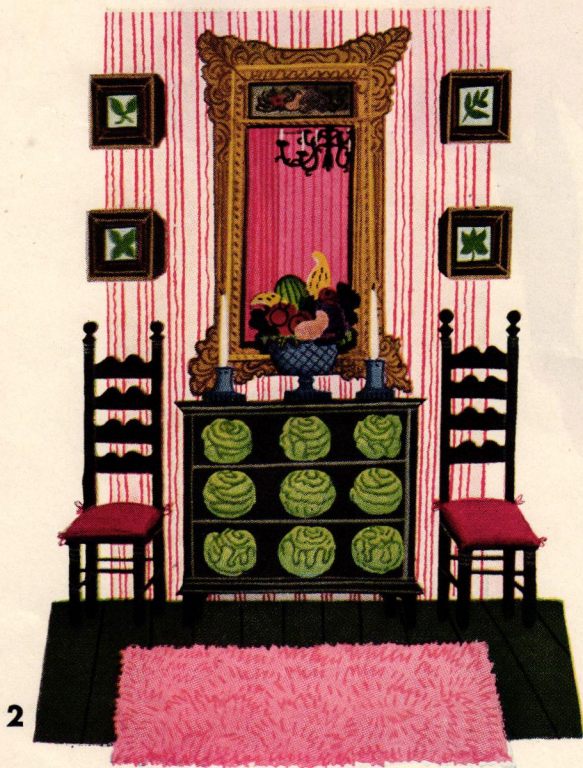
striped walls

straw blond carpet

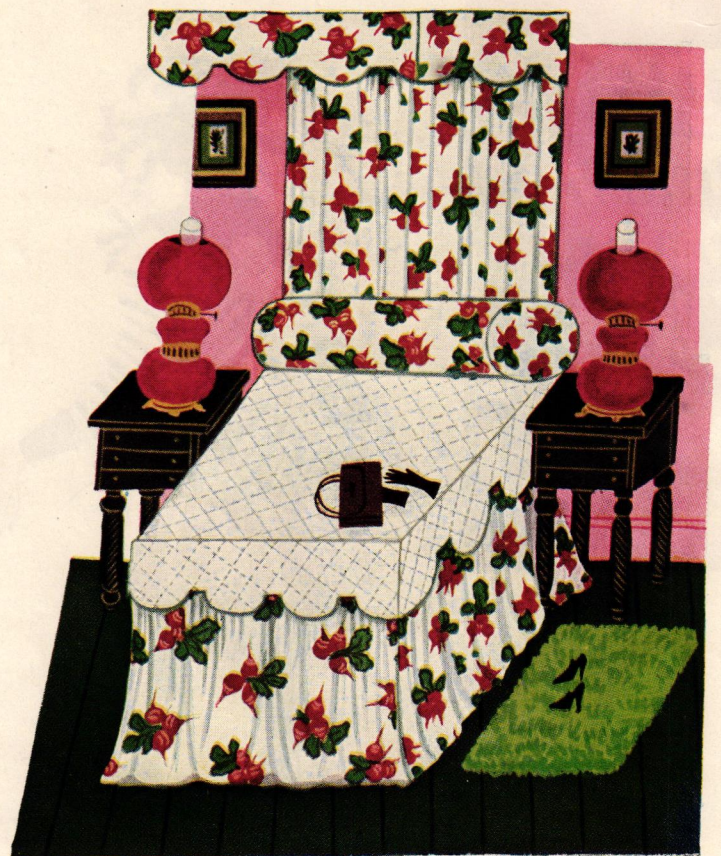
In a library - melon red leather with kind green rug, Tote-de-nigre walls



1



2



3

Spendthrift on a budget

YOUNG DECORATING—COLOR CAN GIVE THE COUTURE LOOK TO A HOME-MADE FLAT

◀ in hot pink with melon red

One room in three acts:

- 1 *Divided into two—by shutter screens, floor to ceiling. Neat trick for the small brownstone flat where one room is living-bedroom.*
- 2 *The chest, mainstay of your storage, old and totally undistinguished until given a coat of black lacquer, a seed catalog découpage and a high waxing.*
- 3 *A bolster tailored to the nines, a dust ruffle to match your ceiling canopy—all disguise the box spring-on-legs successfully.*

■ Budgeting is half fun and half frustration. There is no escaping the fact that the beautiful antique four poster costs five hundred dollars, and that to mirror a whole wall is frantically financial. But there is one shining gem in the budget box, that rises easily, airily above money, and that is color. A free element, born of a functioning retina and imagination. Red costs exactly the same as brown, and pale aqua, not a penny more than lime. If you're timid about color, copy from those who are sure and successful. (Reduce your favorite painting to its basic colors, you already have seen how well they go together. Watch the color combinations of the big couture houses.) Or, as we have in these pages, make a color raid on a top theatrical designer. Here are three bedrooms—not based on furniture, or architectural forms, but entirely on color—on costumes from the new musical, "Are you with it?"

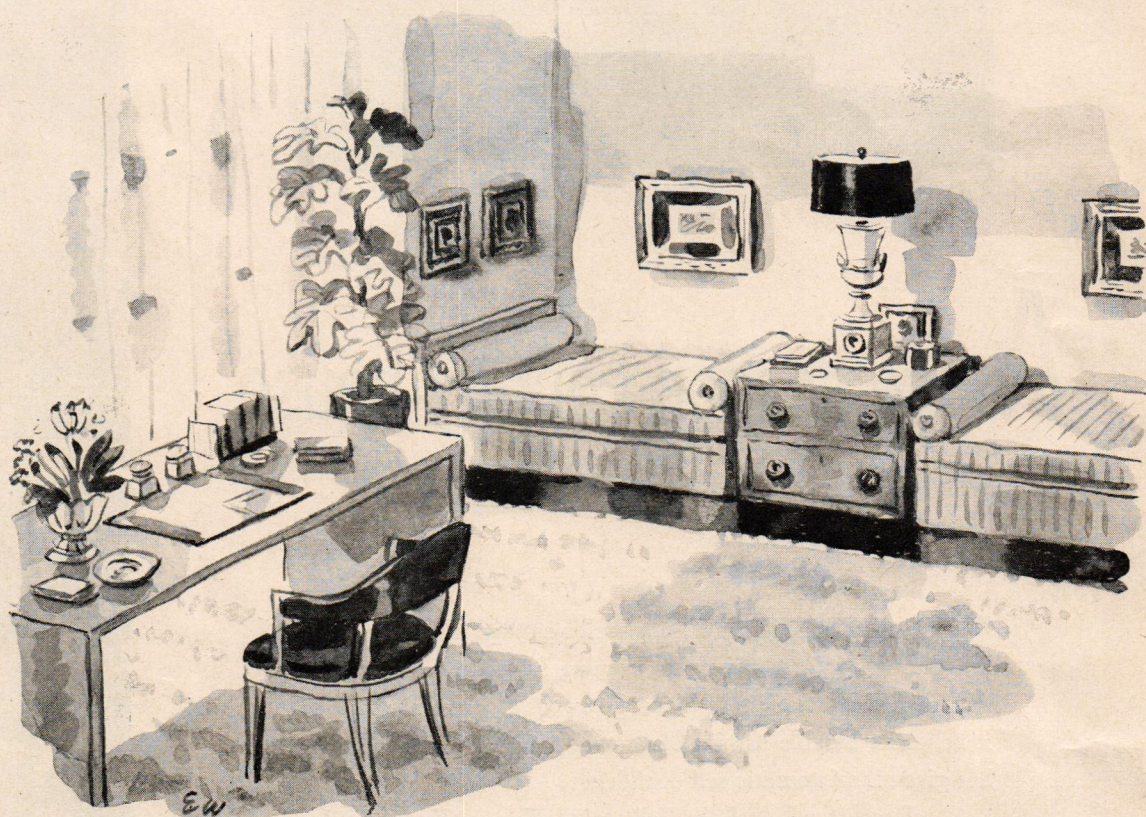
Basically there are three colors, hot pink, melon red, and rind green. Later you'll see them in the fashion world. They're exciting, but not fantastic. They are good in cramped quarters, which all colors are not. They give a couture look to a home-made flat. On the opposite page we show you how these colors give dignity and point to a frankly home-made room. How they help to establish the illusion of the now-I'm-a-bedroom, now-I'm-a-living-room problem, with the more matter-of-fact aid of the great folding wooden shutters that section off the sleeping quarters. The walls are played three ways, the mantel wall melon red and hot pink striped paper, the opposite wall, melon red on white, the bedroom wall, plain hot pink. Rind green floors, cool and articulate, are seasoned with small, shaggy, hot colored rugs, and any number of plants fall into the rind green category, (especially if you ever remember to water them, and wash their leaves occasionally). On the following pages we carry these colors further, but here are a few tricks we recommend for the small brownstone one-room flat. Box springs with extra high legs take away the studio couch look. A white mattress pad, seamed, scalloped and bound by you, looks made to order over a melon red and white dust ruffle and head draperies. Add prestige and price to simple botany prints with huge white mats. Remember the time-tested good fakery of the luggage rack, plus big tray. Including the bleak nakedness of the three days they are at the laundry, washable white curtains are an unfailing delight at a dark or sunny window. For mirrors, old picture frames are plentiful; so are the looking glasses from old bureaus. Something good over the fireplace is a gilt-edged investment. It may be something from home, or a thoughtful buy in the flea market, or a good reproduction. Our selection was a huge gilt barometer to lend elegance here and go on imposingly to larger quarters in the future.

MORE ON THE NEXT PAGE



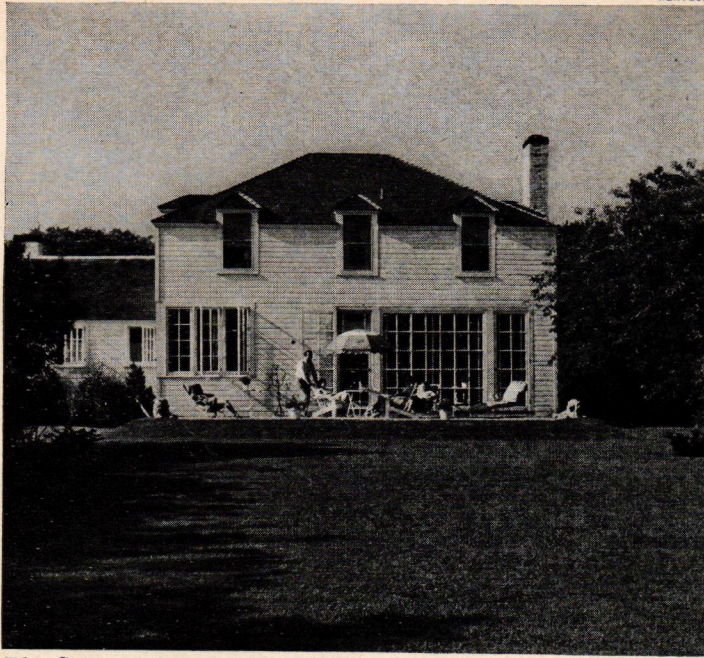
COLOR EXALTS THE DUAL ROOM

Nice, luxurious space is achieved by pushing the two beds (box springs and mattress again) against the rind green walls, to create a long, broken banquette, covered in melon red and white material. A black lacquered chest acts as light-giver and end table, and, to mellow the room, we chose a light waxed wood desk, ingenious white curtains, a taupe green carpet. And here you might try your hand with supplementary colors for lampshade and picture mats, say, cerulean blue patent leather paper, or lime or yellow or whatever takes you.



◀ BLAND WHITE, HIGHLY SEASONED WITH COLOR

Hot color is splashed and tumbled against cool white, all over the walls and ceilings of the bedroom on the left. Hot pink flowers and rind green leaves, needled with melon red accessories. Again the bed is built-up box springs, this time with a tufted white cotton taffeta headboard, swagged spread and dust ruffle. So is the dressing table, whose basic spaciousness could be accounted for by a carpenter, or could be an old knee-hole desk. The bedside table, handsome, formal, is really a new Bendix Radio (see details on p. 72). The chair and dressing table stool pick up the hot and cold colors and the carpet retaliates with a light airy greenness. The whole is distinguished, snug, feminine and without whimsy.



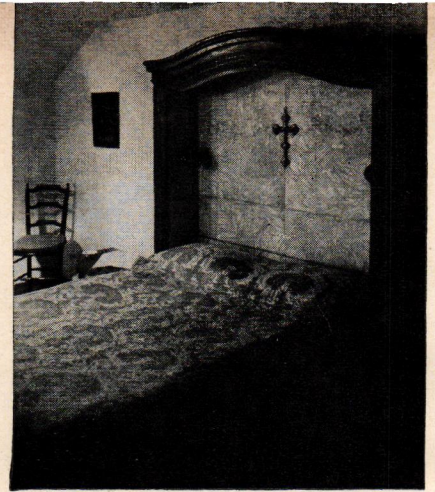
The Cogswells' white clapboard house.

A two season country house

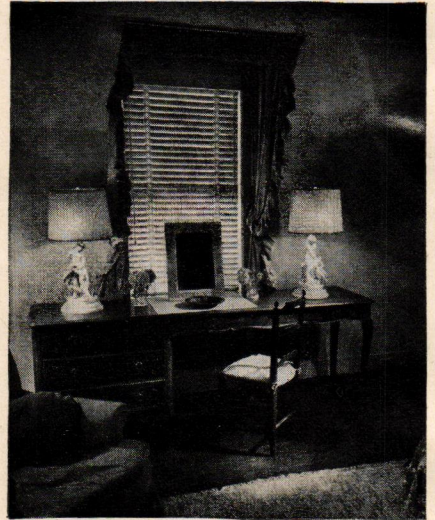
■ Mr. and Mrs. William F. Cogswell's cottage in Southampton has the easy informality of an evening in white dinner jacket. Although it started life as a garage on the Cogswells' property, it belies its humble origin. Clever use of color and accessories has given it aristocratic self-confidence.

Decorator L. T. Luke Kelly, of the Empire Exchange, has stretched a very small space into a living area for a family with two young daughters. He has enlarged the living room by the use of floor-to-ceiling windows and effectively combined an emerald green carpet with pale oyster gray walls. The emerald accent is reiterated in the slipcovers and blended with pink and chartreuse against a gray background. Collector's pieces act as accessories in many cases—for example, the three antique mortars on the mantelpiece which are filled with leaves.

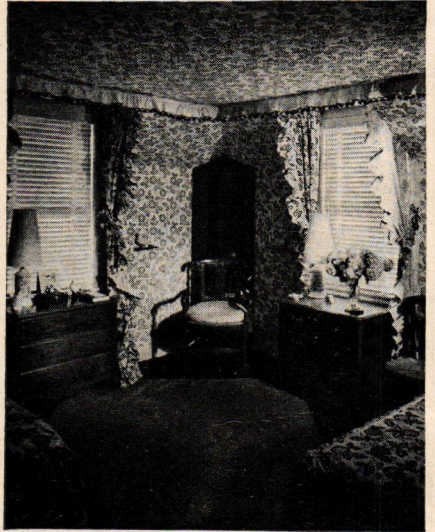
In the main bedroom imaginative sleight-of-hand has created a bed headboard out of an old armoire, lined with antique marbled paper—lamp bases from Meissen figurines. The dressing table is combined with a chest. The tiny guest room, patterned in fragile blue and white, uses space-thrifty French Provincial commodes to create elbow room within its confines. The Cogswells, by dint of skillful planning, have given their house a sophistication that denies its summer-only use.



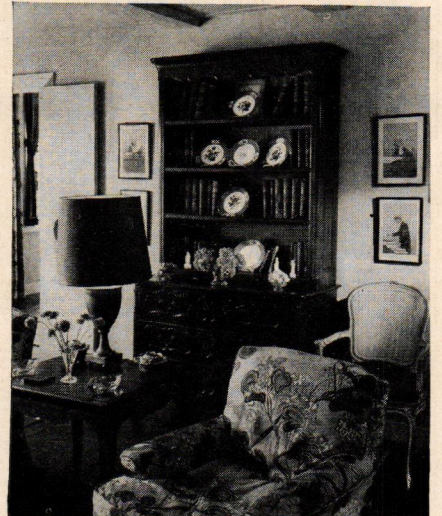
Headboard made of an old armoire.



French Provincial dressing table.



Gaily patterned upstairs guest room.



Walnut chest with handsome china.

A collection of pewter and antique bric-a-brac blends informally in the living room.

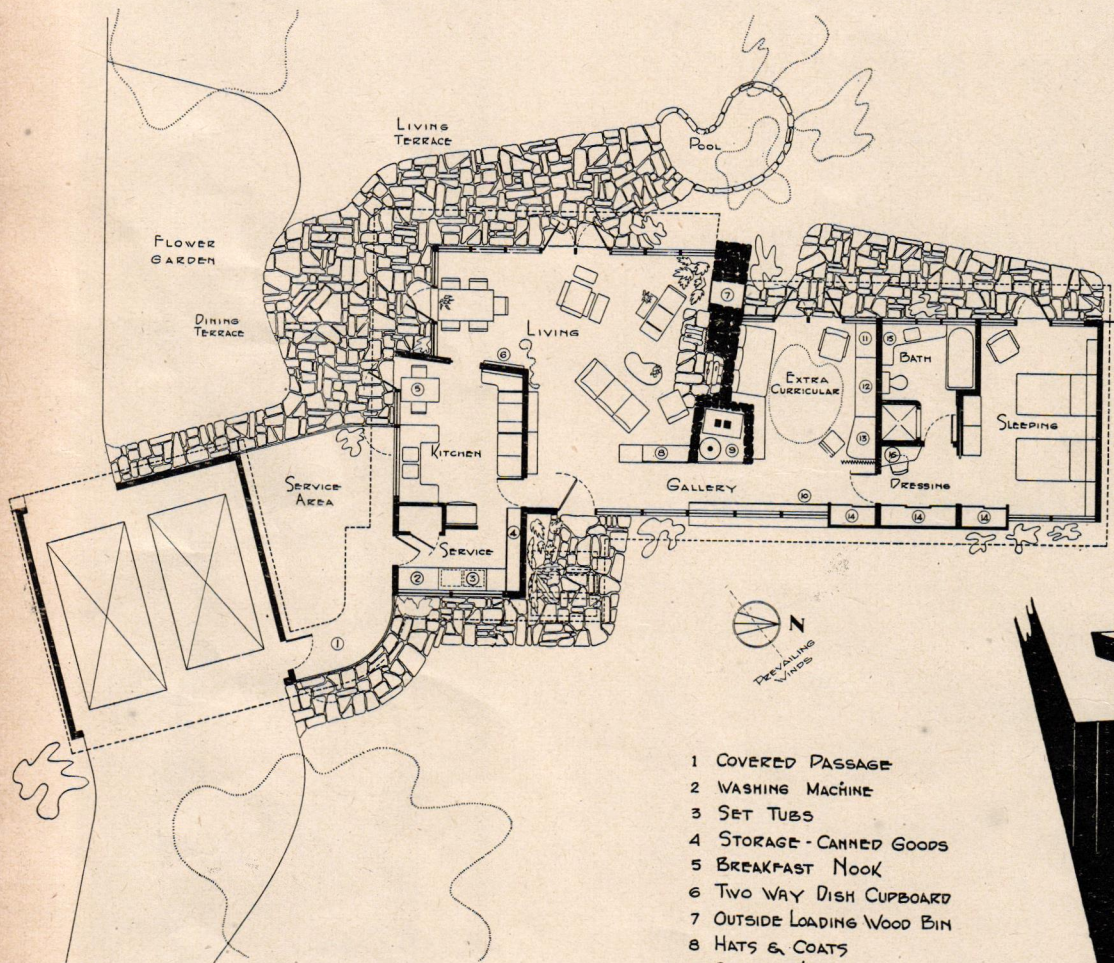




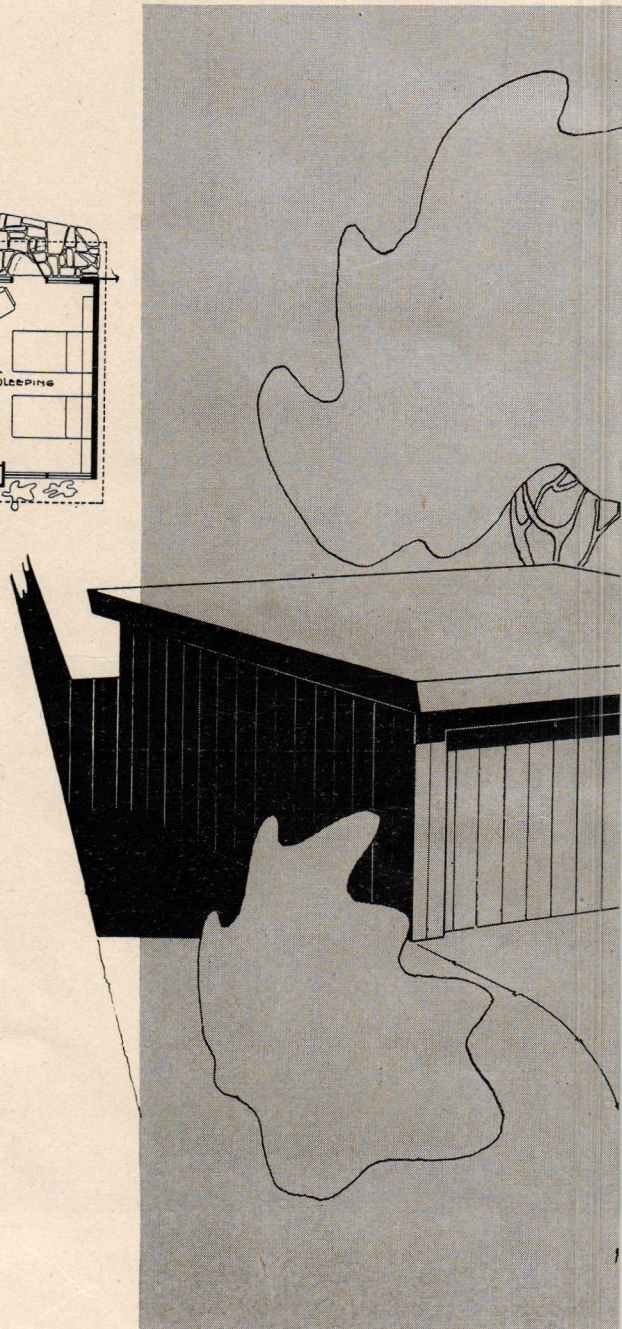
This article is the sixth in a series presenting the prize winning designs in HOUSE & GARDEN'S "Blueprints for Tomorrow" contest.

Awards in architecture

RESIDENCE FOR MR. AND MRS. M. P. SMART IN ARCADIA, CALIFORNIA;

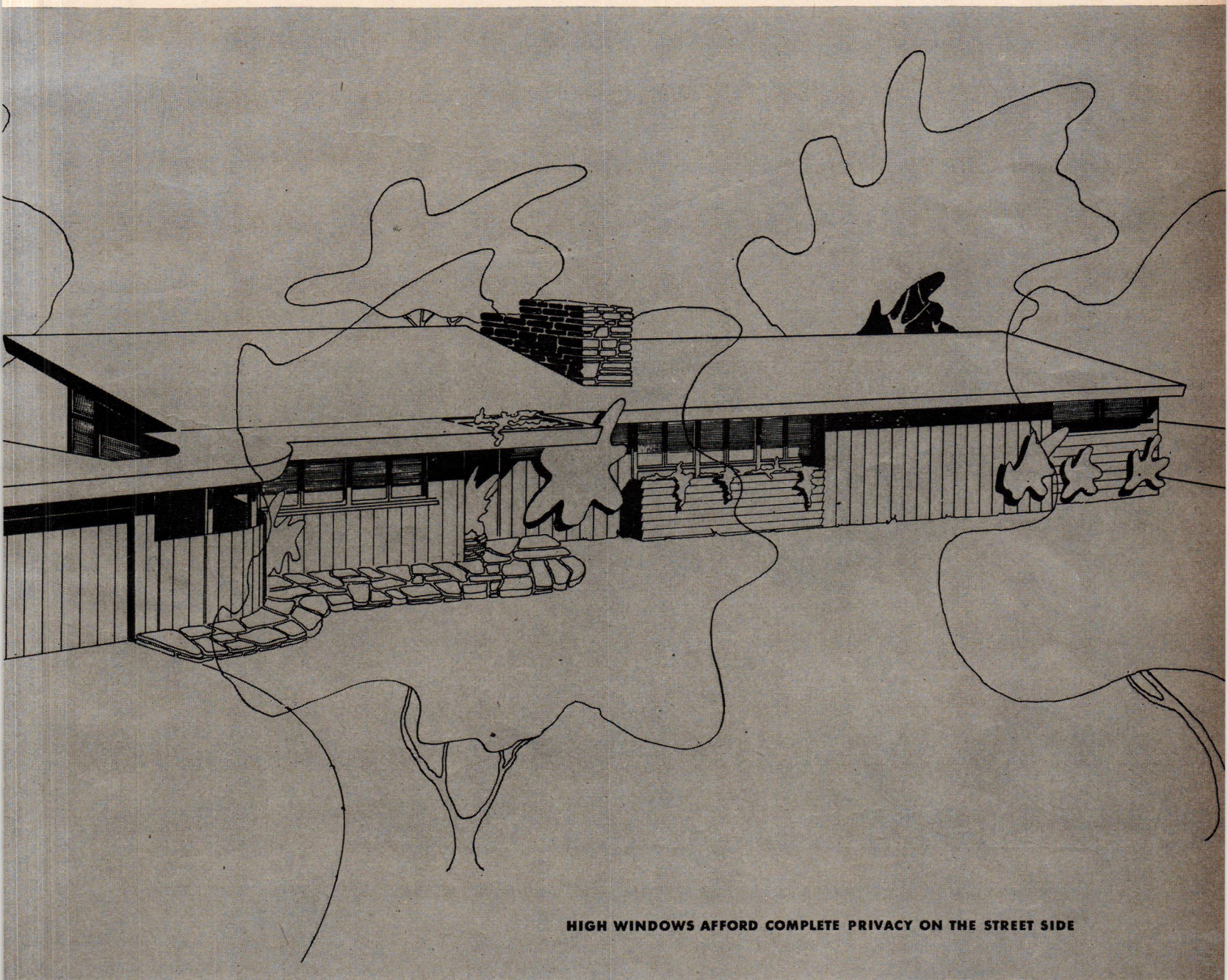


- 1 COVERED PASSAGE
- 2 WASHING MACHINE
- 3 SET TUBS
- 4 STORAGE - CANNED GOODS
- 5 BREAKFAST NOOK
- 6 TWO WAY DISH CUPBOARD
- 7 OUTSIDE LOADING WOOD BIN
- 8 HATS & COATS
- 9 CENTRAL HEATING
- 10 MISC. STORAGE
- 11 SEWING MACHINE
- 12 FOLDING SEWING TABLE
- 13 DESK
- 14 WARDROBES
- 15 PULLMAN BASIN
- 16 DRESSING TABLE



■ Here is a small house planned for two people who knew exactly what they wanted: (1) a pleasant country home that will be right to live in now and when they retire in a few years, and (2) a property which can be partly self-sufficient in the fruits and vegetables raised on the place. To accomplish both of these aims, they bought land in a small community near Los Angeles in a neighborhood of farms and orchards. The site for this house is flat and well-drained and offers no building problems. Since it will be extensively planted, the major design problem was to integrate this outdoor area with the indoors to give a feeling of openness in a small house. In order to provide privacy from the street for the gardens and terraces at the rear (see plot on page 58), the house runs (*Continued on next page*)

WILLIAM T. DREISS, DESIGNER

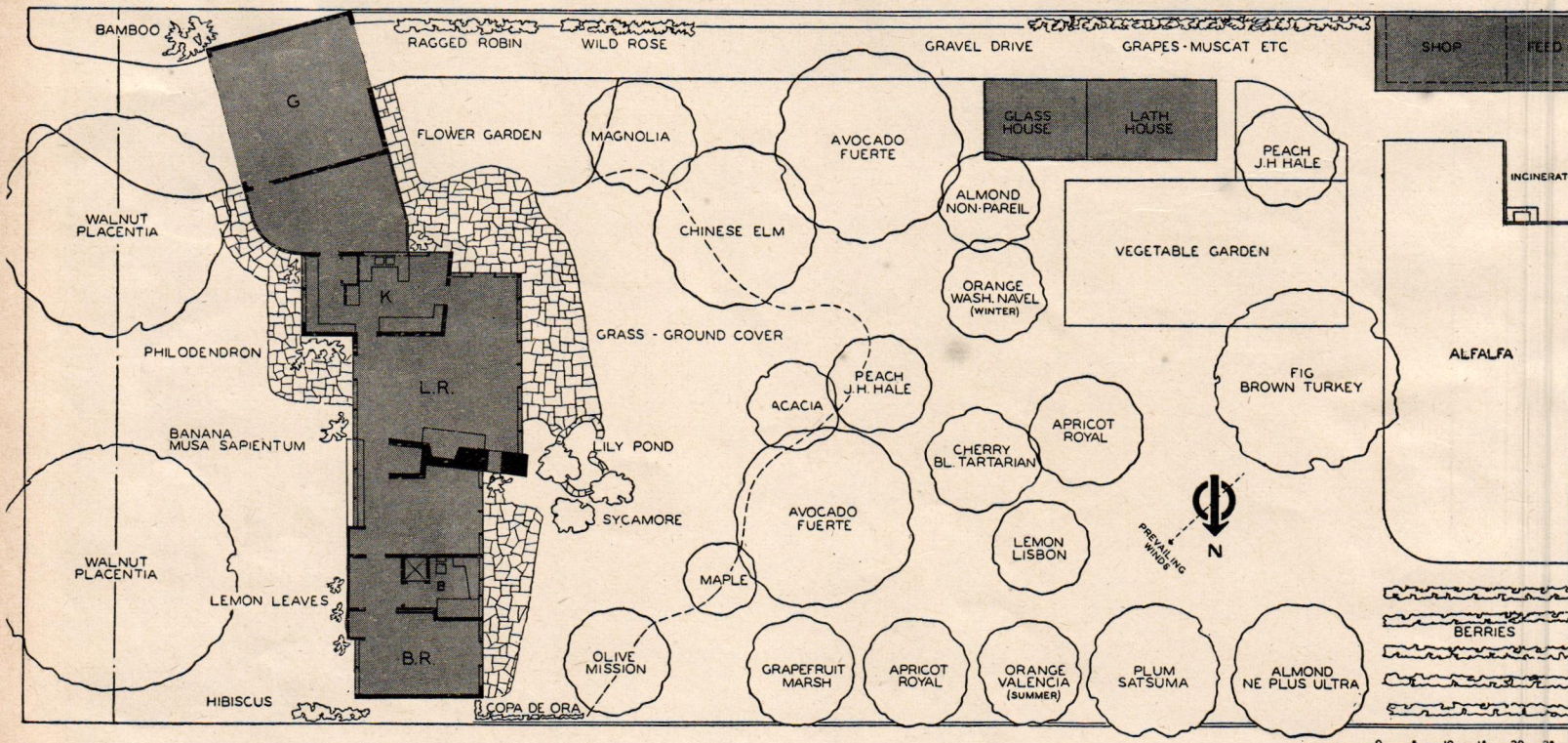


HIGH WINDOWS AFFORD COMPLETE PRIVACY ON THE STREET SIDE

parallel to the street, across the entire width of the lot. Special considerations in interior planning were a compact kitchen that still provided for the preparation and canning of garden and orchard produce; plenty of accessible storage space; and room for the occasional guest. See the floor plan on page 56.

The house is set on a waterproof concrete slab with no change in level between floor and terraces. Indirect illumination is provided in the living room area by lights set flush in the overhang outside the windows. As there is no reflection of these lights on the glass within the living room, the view across the illuminated terrace is preserved, even after dark.

Construction is of wood throughout. The glass wall, at the rear of the house, is made of 4 x 4 posts, grooved to take the glass directly. The ceiling over the gallery is dropped to provide room for air ducts from the forced warm air heating system. The exterior of the house is natural redwood siding with flagstone terraces.



PLOT PLAN SHOWING LOCATION OF HOUSE AND OUTBUILDINGS, AND PLANT MATERIAL USED. STREET IS AT LEFT.

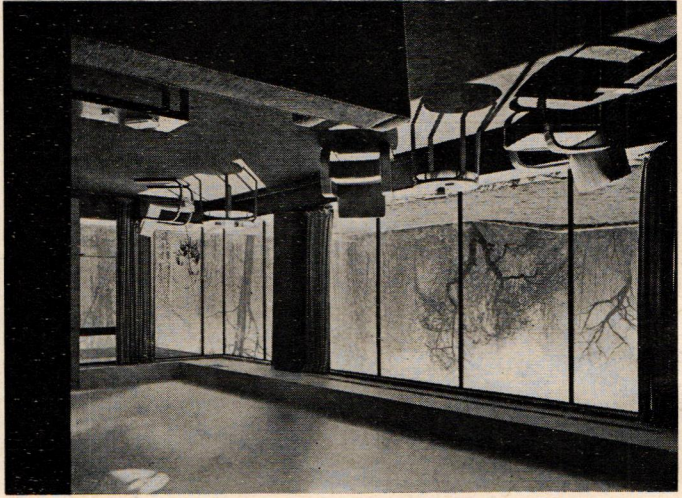


DRAWINGS BY MARTIN

PULL UP TABLE, LOW AND ROUND

This one belongs to the Palm Springs-Miami circuit, later you'll see it move north with the sun. It's light enough to lift easily into shine or shade, big enough to hold whatever you need in the way of ashtrays, drinks, refreshment. The top, glass; the skirt of many-hued raffia tassels. With it, Macy shows low-slung purple chairs, aqua-cushioned.

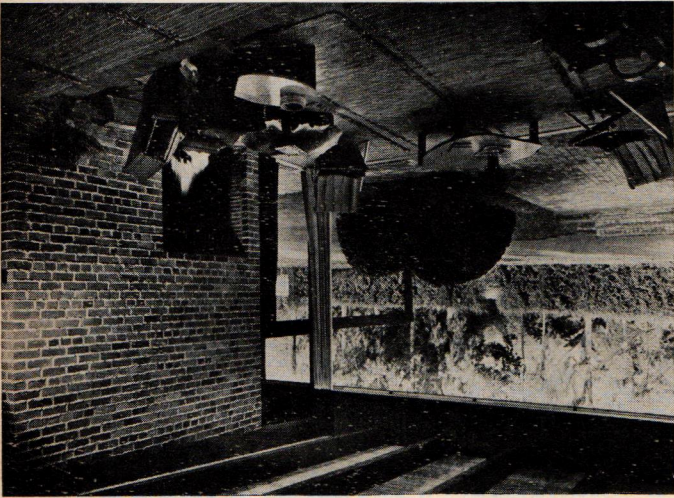
CLIMATE IS NOT AN IMPORTANT FACTOR. Hot or cold, the impression of continuity with the out-of-doors is an effect desired by many in both climates. The room above, designed by Paul Doering in a New York house, and above right by R. J. Neutra for California



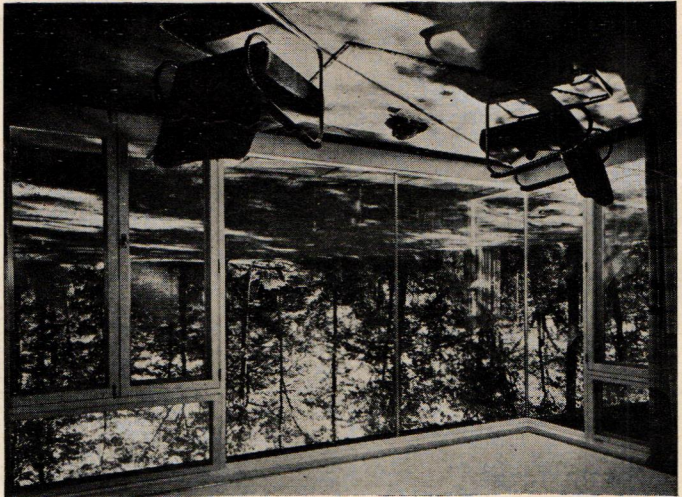
DAMORA

have this common denominator. Fixed sash, often integrally double glazed, makes such windows feasible even in regions with low temperatures. In more temperate climates sliding glass walls make it possible to enjoy almost complete openness.

SHULMAN



A QUIET SPACE, AN INTIMATE CORNER is a pleasant part of today's living rooms. It might be a part of the main room or an alcove off it, but it should be equipped with good light for reading; comfortable chairs for two or three people who want to talk; enjoy



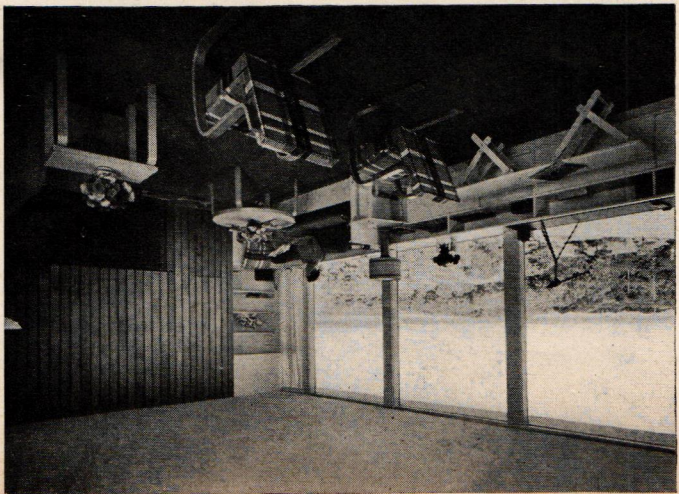
STALLER

like the one in this Massachusetts house by Walter F. Bognner, designed by Pomerance & Breines; or, it may be a fireplace alcove directed out-of-doors as in the Connecticut house, at left, designed by Pommerance & Breines. Such planned seclusion may be music, or a fireplace, or a view. Such planned seclusion may be

HASKELL



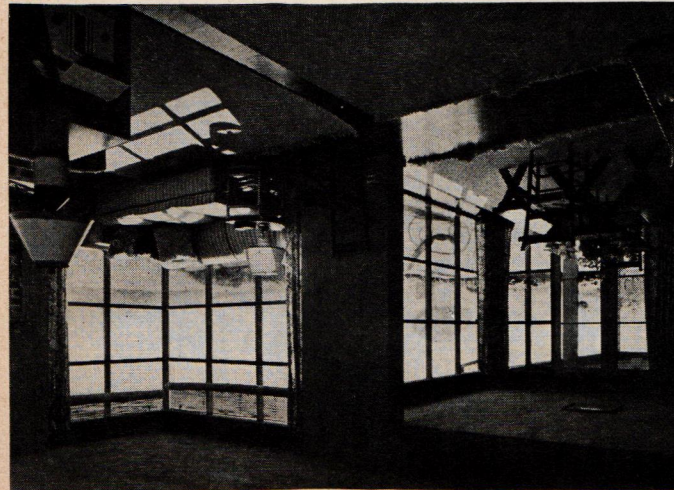
THE ROOM CAN LOOK BIG EVEN WHEN IT ISN'T. Contributing to a feeling of openness beyond the actual dimensions, the window wall, illustrated at the left in a house on Cape Cod by Carl Koch, lets the eye range far beyond the limits of the outside wall. An-



PAUL DAVIS

other reliable contributor to a free and spacious appearance is the open plan, which dispenses with a partition between close-by related areas, such as the living and dining rooms illustrated at the right in a California house by architect W. W. Wurster.

STURTEVANT



Two houses by one architect



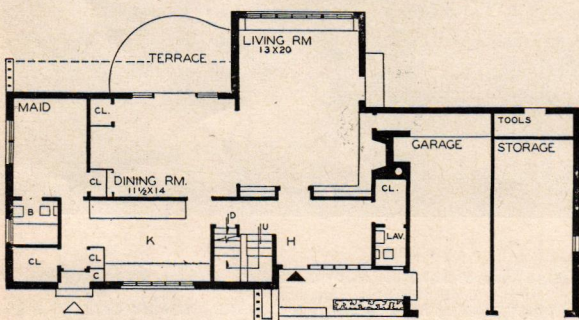
GOTTSCHO-SCHLEISNER



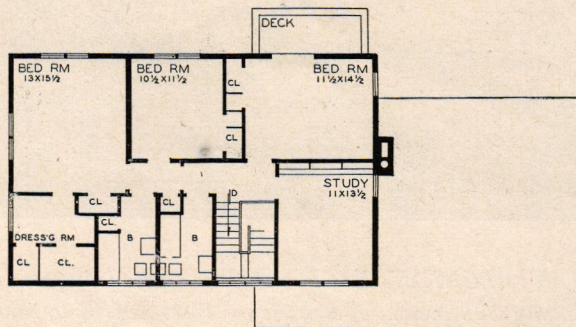
The entrance. Rear view is shown above

HOUSE FOR PROF. DONALD P. SMITH, PRINCETON, NEW JERSEY

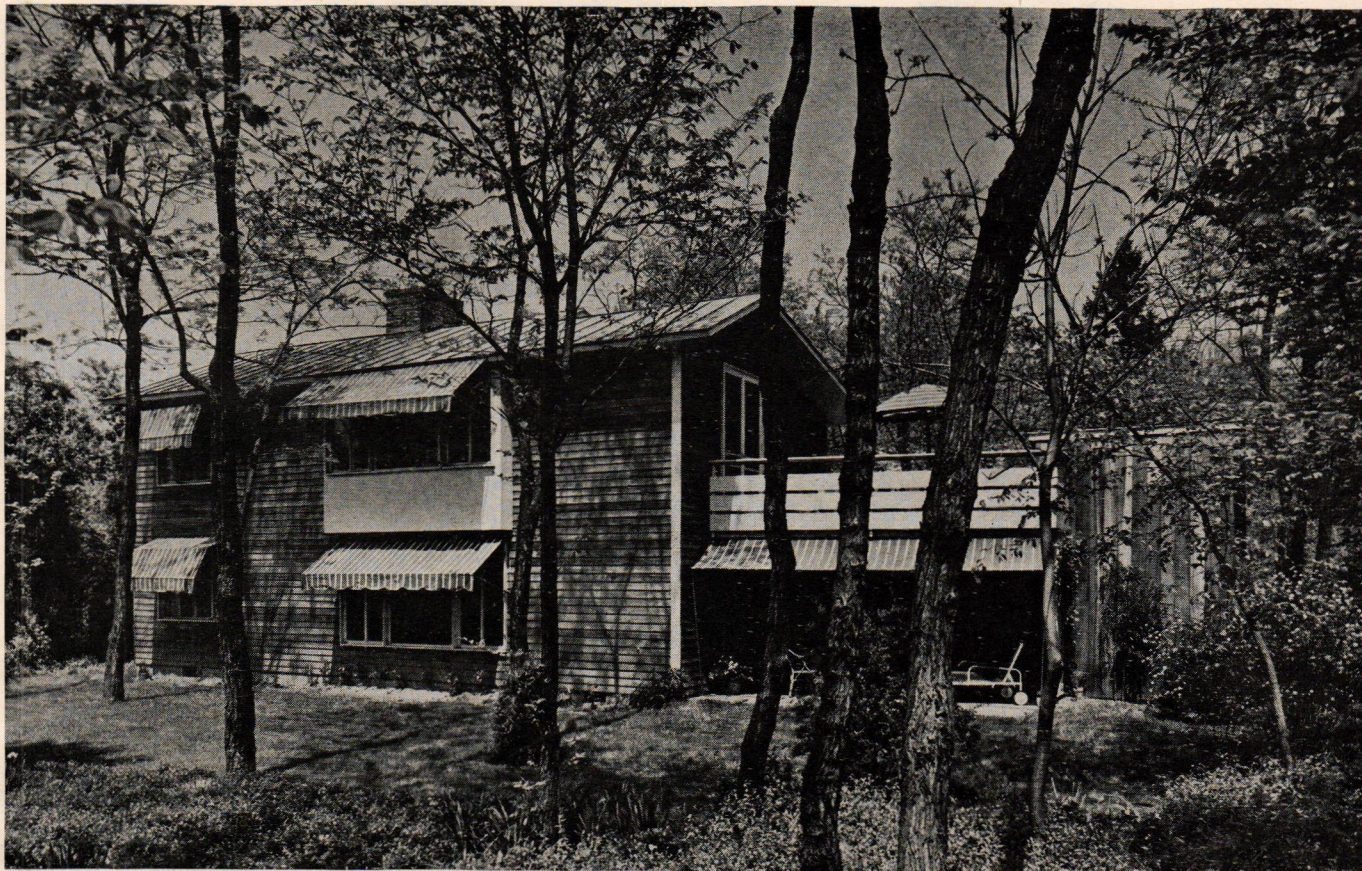
The two houses on these pages are the work of one architect, Rudolf Mock. Working with relatively inexpensive available materials, Mr. Mock has succeeded in solving two quite unusual problems in the best tradition of simple and clean-cut contemporary design. One of the interesting features of the Smith house is the division of space in what would appear to be a two-car garage to allow room for one car and devote the remainder of the space to readily accessible storage and to garden tools. One of the commonest complaints of the small house owner is that bulk storage space is usually inadequate. Another noteworthy feature, which was a requirement of the client, is the way the living room fireplace is located in a secluded part of the room remote from any windows.



FIRST FLOOR



SECOND FLOOR

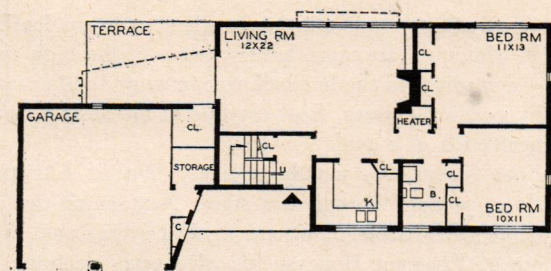


HOUSE FOR MRS. ALBERTA K. BAUER, PRINCETON, NEW JERSEY

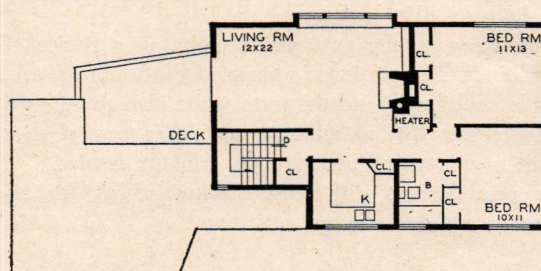
Also designed by Mr. Mock, the Bauer house, like the house on the preceding page, is a good example of the straightforward use of simple materials. The second floor is a replica of the first floor, complete with its own kitchen and heating unit. This feature, designed to meet certain family requirements, might well serve as a model for the reformation of the two-family house. By contrast with the usual design, which splits the house in the middle vertically, this house is divided horizontally and consequently is perfectly acceptable in a community of one-family houses. Also important are the obvious economies gained by superimposing all plumbing, heating and kitchen installations. The regional character of both houses derives from the use of familiar local materials.



Detail of terrace and upper deck



FIRST FLOOR



SECOND FLOOR

SCALE IN FT. 0 5 10 15 20



Gardener's guide for January

FIRST WEEK

Bird residents come in for their share of harvest bounty—sunflower seeds, popcorn, apple parings, bits of lettuce, also a bird-seed mixture. They will welcome this varied menu most in a sunny dining spot that is well protected by evergreens.

A few sprigs of Drooping Leucothoe, Mountain Laurel or yew make a handsome lasting bouquet and good background for a few florist flowers.

Woody plants—deciduous ones only—can be safely moved even now, to save precious spring days for other things. Use thawed soil as filler around the roots and mulch the ground well when job is done.

SECOND WEEK

The postman is more welcome than ever under his load of seed catalogs. These mid-winter stimuli, besides filling us with a million ideas for spring, offer constructive help on plant culture.

Reminiscing on the past season helps in a choice of new things. The gardener who tried Butternut squash, purple cauliflower and the pure white cleome will put these on his list, in addition to 1946's several new petunias, bi-colored snapdragon, Slobolt lettuce.

The past harvest will need checking, both for re-ordering and for storage conditions.

THIRD WEEK

Garden notes are of particular use in winter when orders are being placed. But their value doesn't end here. They remind us of points we intended looking up and lacked time for until now.

Plant terms, in spite of past botany courses, can be easily forgotten or confused. You may recognize a catkin, but how about a cyme, follicle, knaur (there's one for you!), involucre or raceme? They are all useful terms to review in inclement weather.

The book shelf, adequate as it is in the vegetable line, may fall down on ornamentals. A careful look through the local library will suggest additions.

FOURTH WEEK

If *forced bulbs* aren't abloom, there's still time to pot up amaryllis, callas, Soleil d'Or Narcissi.

House plants are at a low ebb in dull weather. Don't give them too much water, and make it tepid when you do. Withhold fertilizer until they start into more active growth. Spray tops or sponge leaves.

The problem of watering indoor plants will be simplified if pots can be plunged in soil or peat moss to retain moisture. Lacking waterproof boxes, painted loaf-cake tins or shallow bowls will hold collections of three to five small pots.

FIFTH WEEK

Open country is inviting even when trees are leafless. In winter we are more keenly aware of the high spots—a cardinal in the hemlock tree, a snow etching made by swaying grasses, frost crystals in the stream or the perfection of a bud.

First bloom this month is likely that of Christmas Rose, poking through the snow. Next come the oriental witch-hazels, handsome against evergreens. Flowers of Fragrant Honeysuckle give early perfume.

Forsythia is an old story in forced twigs. Have you tried Spicebush, flowering cherries or magnolias?

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A STAR IN THE KITCHEN . . .

SHINES AT THE TABLE

Watch the smiles go 'round your table when you cook and then *serve* in the Ekco Pressure Cooker. Food you cook in minutes brims with color and flavor (vitamins, too!) and the family enjoys it at its luscious best . . . served bubbling hot right in the Ekco Cooker.

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WITH THE FINGERTIP SEAL

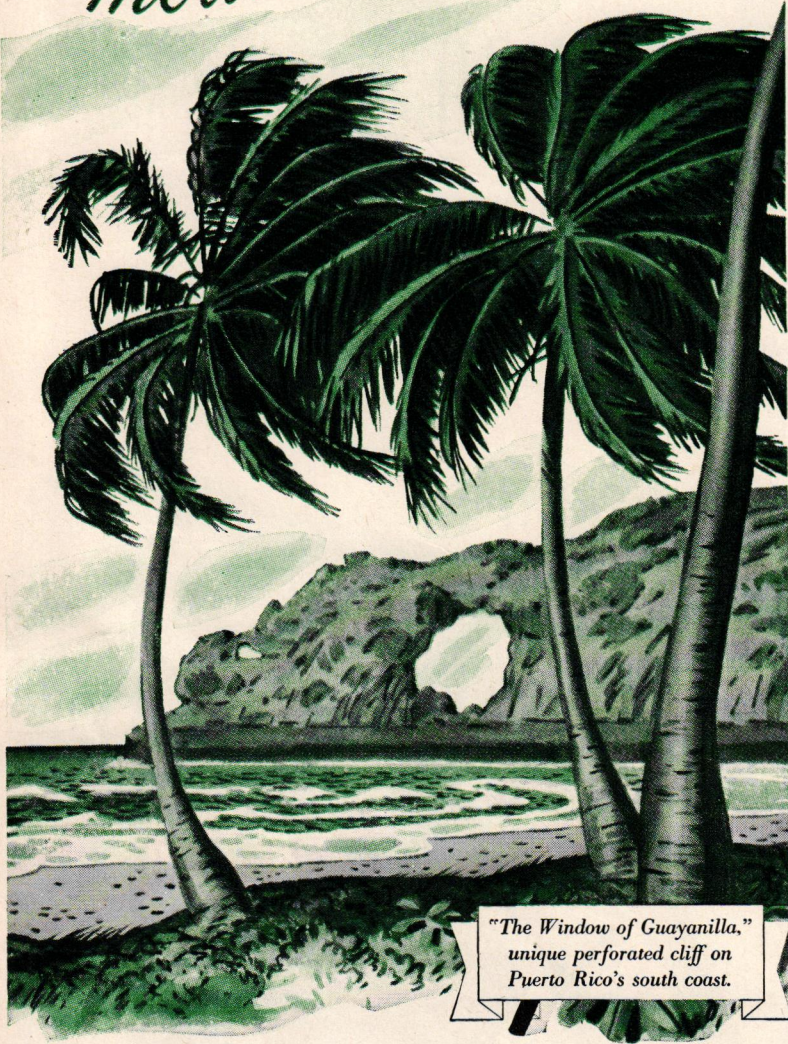
pressure cooker

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HOUSEHOLD SHORT CUTS

On the market now, these new products to minimize your labors and protect your possessions

Lily white hands that must prove their dexterity by dipping into grimy household and gardening chores can be protected by neoprene gloves. These practical beauty aids have staged a comeback with many an improved feature. Fingers are shorter and curved for better fit. Non-slip tips get a better grip on soapy dishes and other slippery objects. Roomy palms permit free circulation. A satinized inner lining makes them easy to slip on and off without tugging or dusting with talcum powder. Unlike old-fashioned rubber, neoprene gloves have a long life and are not affected by strong soaps, greasy water, polishes and cleaning fluids. B. Altman has the new *Ebonettes* for 75c a pair.

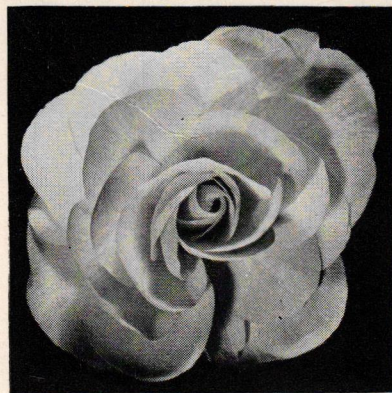
A patina finish on furniture generally comes with the constant use of a good wax and plenty of elbow grease. A brand new addition to a line of well-known polishes is a paste wax that claims a maximum long-lasting high gloss with a minimum of work. It's greaseless and smearproof, rubs on easily, smooths to a clear, hard finish and dries quickly. Especially recommended for those finger-printed surfaces: table tops, desks, dressers, pianos. Protects and preserves the finish of new furni-

ture, revitalizes the old. \$1.00 a pound can of *JNT Table-Top Paste Wax* at Lewis & Conger.

A burnproof cover for your ironing board puts a safety-proven wartime product into good civilian use. "Asbestos," originally developed by the U. S. Rubber Company to protect our armed firefighters, is the asbestos-impregnated fabric now used for the *Tex-Knit Burnproof Covers*. A hot iron left standing a few minutes will discolor the cloth but will not burn it. *Tex-Knit* is light in weight, smooth, and porous to permit rapid, uniform penetration of heat and steam for faster, easier ironing. A taped elastic edge assures a snug fit on all standard ironing boards. Washable, long-wearing. Complete with waffle-knit under-pad for \$3.98 at Macy's, N. Y.

Knockout drops for household pests. A new insecticide with 5% DDT (recommended strength by the U. S. Dept. of Agriculture) and 3% pyrethrum combined to do a quick-killing job of flies, mosquitoes, gnats, ants, silver fish, bedbugs and clothes moths. The pyrethrum content speeds the killing; the DDT backs it up with a delayed residual action that continues effective-

(Continued on page 70)



Camellia-Flowered

Flowerfield
Tuberous-rooted
BEGONIAS



Tuberous-rooted Begonias may be planted indoors now and enjoyed all year. In early Spring, set these profuse blooming plants outdoors where they will thrive and bloom until late Fall. Begonias are finest when planted in deep shade. They have beautiful foliage with huge flowers in every brilliant color imaginable from pure white to bright yellow, pink and deep crimson.

Camellia flowered, mixed colors, 3 for \$1.00, Doz. \$3.50
Carnation flowered, mixed colors, 3 for 1.00, Doz. 3.50
Crispa Begonias, mixed colors, 3 for 1.00, Doz. 3.50
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SPECIAL MIXTURE — All types — 10 Tubers \$2.50

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Sherry and Port

By MERITO



Where each detail of service expresses the fine art of living—Merito Wines are especially appreciated. Proud sherries from vineyards cultivated by the Marques del Merito's family for seven centuries! Noble ports, smoothed and mellowed in historic old-world wineries! When you dine out or entertain at home, let the wines be Merito.

*The Flower
of 700 Years
of Wine Making*

HOUSEHOLD SHORT CUTS

Continued from page 68

for 3-6 months. *DeeDeeTee Insect Killer*, made by the Feller-Jones Corp., well-known manufacturers of moth-proofing preparations, is recommended by Hammacher Schlemmer. Label instructions tell how and where to apply the solution to do the most good. As with most insecticides, precautions should be taken in using a DDT spray. It's toxic, so wear gloves, avoid inhaling and keep the spray away from food. Remember, too, it's combustible, so steer clear of flames and open pilots. *DeeDeeTee Insect Killer* is 75c a pint, \$1.25 a quart, \$4.00 a gallon bottle at Hammacher Schlemmer.

Good wool socks should be dried on stretchers if they are to keep their size and shape. Lewis & Conger have new plastic *Sok-Dryers & Stretchers* that are light in weight, unbreakable and won't warp or rust. They're long enough to shape leg tops as well as the feet and have a handy hook for hanging. \$1.29 a pair in men's sizes, from 10 to 13.

Rust stain remover: Lemon and salt, old-fashioned remedy for taking out iron rust stains, is often slow and not always successful. Quicker and more effective on new and old stains alike is *Peerless Iron Rust & Stain Remover*. For best results on cottons, the remover

should be used just before laundering. Apply by rubbing thoroughly into the fabric, let stand, then wash. Stubborn stains may take several treatments. Safe on whites, better test on color. On white washable silks and colored woollens, *Peerless Remover* should be thoroughly sponged out when stain disappears. The maker claims it works as well for removing rust from porcelain, marble and woodwork. Send 25¢ for a tube to *Peerless Sal-o-Well Company, Inc.*, 307 Genesee St., Buffalo, New York.

Bartending gadgets are back to help you mix drinks with a professional flair. Improve the flavor of martinis and other cocktails with a few drops of natural fruit oils from lemon, lime or orange peels. An ingenious little device to make the extracting easy is the *John Peel Press*, \$3.50 in aluminum. As handy as it's handsome is the five-in-one *Bar Caddy*, a combination bottle opener, measuring jigger, muddler, ice hammer and handle-concealed corkscrew. \$1.00 in chrome. A non-squeezing bottle opener with a rubber cap protects you and the landscape from flying, spouting beverages. The *Al-D Bottle Opener* is cheaper than a cleaner's bill, \$1.00 in aluminum, \$3.50 in chrome. All these items are available at Lewis & Conger.

GAINSBOROUGH *Playing Cards*

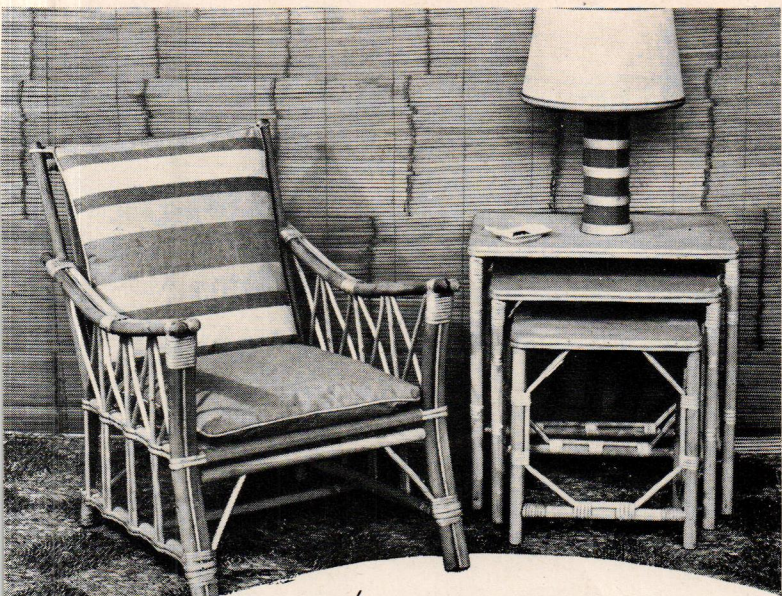


Time-mellowed by centuries. Art masterpieces in miniature... reproduced with exactness for leisure hour enjoyment. Smart as a finesse.

THE MOST BEAUTIFUL PLAYING CARDS IN THE WORLD
E. E. FAIRCHILD Corporation, Rochester, N. Y.

MERITO IMPORTED SHERRIES & PORTS

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WAND WILLOW Furniture

Woven sunshine designed to bring versatile year-round beauty to your recreation room. This grouping is one of many colorful, original designs.



Ficks Reed Co. Sold by better dealers everywhere. CINCINNATI-NEW YORK

OLD FITZGERALD

Bottled in Bond



OLD FASHIONED
but still in style

100 PROOF · KENTUCKY STRAIGHT BOURBON WHISKEY
STITZEL - WELLER DISTILLERY, INC., SHIVELY, KENTUCKY

★ SOME THINGS TO REMEMBER ★

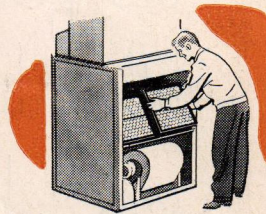
..for greater **COMFORT**

—even with
less furnace fuel
this winter



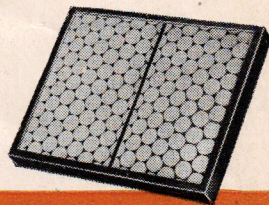
If the cold weather is getting you down—if you're not getting all the heat you think you should from the amount of fuel you are using—a checkup of your heating system may pay handsome dividends in *comfort, health, fuel and money.*

If yours is a modern forced-warm-air furnace, you probably need only *new air filters* to again get plenty of clean, thrifty heat. Remember! Dirt-clogged filters impair circulation, waste fuel. That's why efficient *replacement-type* filters are used.



By replacing dirty filters now with new **DUST-STOPS*** you will also be sure that only *clean, heated* air gets up into your living quarters. You'll save cleaning time and expense—also protect walls and furnishings from harmful dirt.

So, look at your air filters, *today!* You'll find them easy to get at, inside your blower cabinet. Then, if they need replacement, get efficient, new **DUST-STOPS**. Look in the Classified Telephone Directory for the name of your Dust-Stop Dealers, or order from local hardware or department store. **Owens-Corning Fiberglas Corporation, 1906 Nicholas Bldg., Toledo 1, Ohio.** In Canada, Fiberglas Canada Ltd., Oshawa, Ontario.



DUSTOP *Air Filters*
* U.S. PAT. OFF.

a FIBERGLAS product

STANDARD EQUIPMENT IN MOST FORCED-WARM-AIR FURNACES

ENTER—THE TALKING TABLE

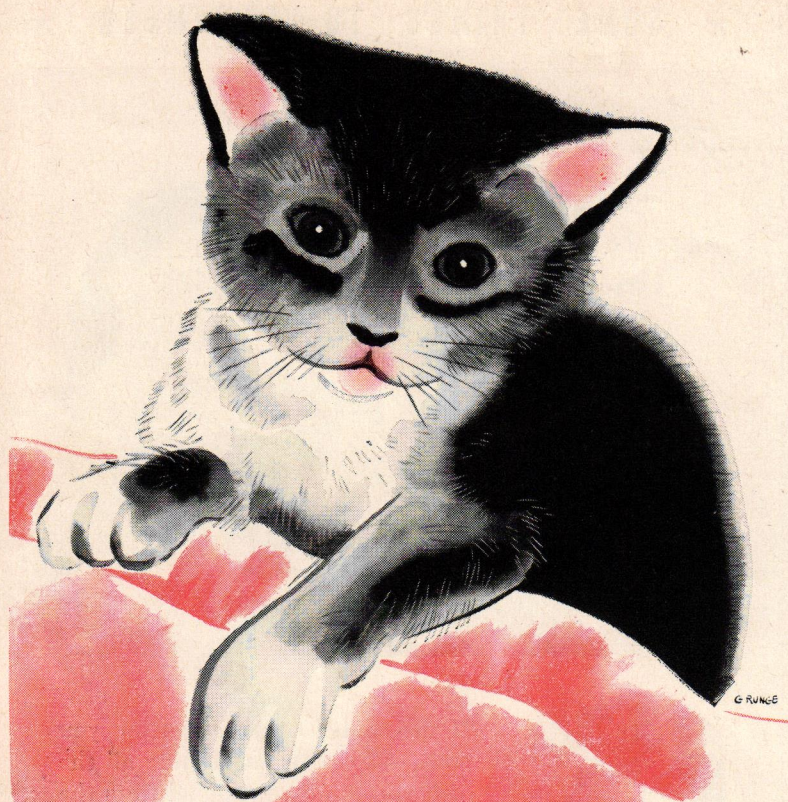


spot: beside the bed, in the dining room, at the foot of a sofa.

Exceptionally good are the workings of this little radio with 8 tube performance, a well designed baffle to give good tone qualities and a special feed back circuit to reduce distortion. Also equipped with phonograph, television connections. Note its two-purpose use in the bedroom illustrated on page 52.



It looks like an end table, sounds like a radio—actually is both. This new model by Bendix Radio is nicely made of mahogany in Sheraton design and contains a radio with a phantom dial that remains invisible behind a Di-Noc finish when not in use. A twist of the drawer knob turns on the control, lights up the dial. The Di-Noc finish has been carefully matched to the mahogany for a pleasant, uniform appearance. Measuring only 27½" high, 20¼" wide, 14" deep, it's adaptable to any small-space



as downy, as warm
as feather light a
blanket as you
ever had the pleasure
of sleeping under



FARIBO ALL WOOL BLANKETS
FARIBO WOOLEN MILLS • Faribault, Minn.

Sanger Bros.
Dallas Texas

Cherish your room! Capture its warmth and depth in the crystal clear surface of this beautiful mirror. Beveled plate glass gracefully framed in elaborately carved Bass wood, finished in antique silver leaf. Outside dimensions . . . 35½" x 45½".
Frame width . . . 3½". Find this treasure in Sanger's First Floor Picture Department. \$89.50.

Golden-hued Dirilyte

is on its way to your table!

Golden-hued Dirilyte . . . colorful, gay, in tune with the mood of peace . . . is being made again. Our present production is 2½ times greater than in any pre-war year . . . but demand is greater still, so please forgive us if your favorite store is temporarily sold out. There's more on the way.

Both in modern and period homes, Dirilyte is eagerly awaited. It's so lovely with gold-decorated china . . . with settings of every hue!



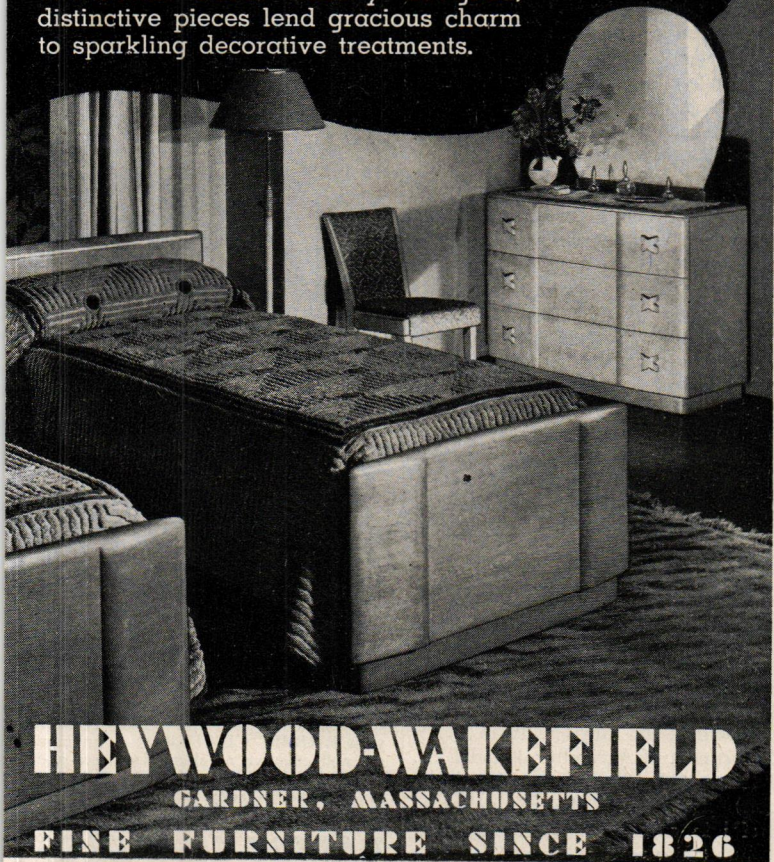
And it's so practical — harder than sterling, scratch-resistant, solid — yet costing no more than good plate. Look for it, plan for it . . . send 15c for our fascinating booklet of color schemes: "How To Set A Beautiful Table with Golden-hued Dirilyte."

Dirilyte, Reg. U. S. Pat. Off.

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"LOVELY and livable" is truly a modest description of Streamline Modern Furniture by Heywood-Wakefield! These smartly designed, distinctive pieces lend gracious charm to sparkling decorative treatments.



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FINE FURNITURE SINCE 1826



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Holiday Gifts...
for Gracious
Entertaining*

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Here is a gift both fine and distinctive. Here is a flattering treat for guests. Select these delectable, smooth liqueurs with a name world-famous for 250 years. Since 1934, de Kuypier Cordials have been made in America by the same methods followed in Holland for centuries. You and your friends will enjoy their taste and delightful aroma. This Christmas, give and serve delicious de Kuypier Cordials.



ANNO 1695

Send for this free
recipe booklet. Learn how
you can easily make
many delicious mixed drinks,
cocktails and desserts
with de Kuypier Cordials.



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GARDEN SCIENCE

Katherine Palmer Plumb, garden writer and former Editor of the Connecticut Agricultural Experiment Station in New Haven, sums up research that may tomorrow be everyday garden practice.

Good gardening has always been a science; but formal science has frequently ignored gardening. Not so today. Anything can happen with industrial and state laboratories driving full tilt to banish guess-work and discouragement from farming. DDT, aerosols, selective herbicide 2,4-D are only a hint of things to come. Good things are in the making. Some are still in the experimental stage. Others will soon be ready to serve alert gardeners.

The French discovered 6-6-6, known as **Gammexane**. It is rumored to be runner up for honors with insecticide DDT. Searching for material to kill turnip fleabeetles in 1942, British scientists began to explore the possibilities of hexachloro cyclohexane. They found that high toxicity of the chemical was due chiefly to the gamma isomer—hence the name—and that this isomer was more deadly to weevils than anything tested. Report has it that Gammexane is a contact agent, stomach poison and fumigant. It appears to be five times as toxic as DDT; it is certain death to locusts, weevils, mosquitoes and house-flies, among other pests; it is stable when heated. Like the more difficult-to-obtain rotenone and pyrethrum, it is relatively harmless to man but kills fish.

Also in the rival class is **RHothane D 3**, related to DDT and with comparable qualities, but safer for warm blooded animals. Pure, or combined with Lethane to speed action, it will be available this year in dust and wettable powder forms in time to curb insects such as onion thrips, cabbage worms and leafhoppers, fleabeetles and Colorado potato beetles on potatoes. Manufacturer states it is "highly superior to standard old-line materials on a great many species of insects." Like DDT, it may be used in aerosols or bug bombs, and experiments along this line are in progress.

Great strides have been made in the past few months to make the **bug bomb** practical for outdoor use. Advantages are that a minute quantity of material is required to cover plants when dispensed in a mist-like form. Bug bombs would eliminate the necessity for carrying heavy quantities of water sprays about orchard, field or garden. They are relatively light, compact and easy to handle. Handicaps are the cost and the fact that all materials cannot be used as aerosols. Regulation of size of droplets to make residue possible is also a problem that can be overcome.

Hormone aerosols have been used successfully in greenhouse and orchard experiments. Insecticide aerosols have been found worthwhile in routing bean beetles in fields of eastern Maryland. In preliminary experiments Lyle D. Goodhue and Floyd F. Smith (U. S. Department of Agriculture) and L. P. Ditmars (Maryland Experiment Station) have found the method very useful in covering dense foliage and

(Continued on page 75)



VIGORO Fed Early Goes to Work Quicker!

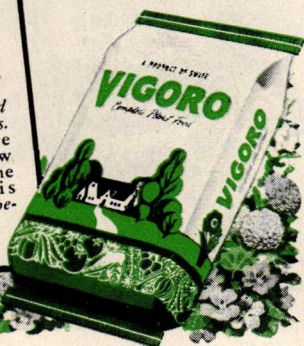
For a greener, more weed-free, earlier turf, apply Vigoro before the frost is gone!

Authorities agree that *now*, even while the frost is in the ground, is the time to feed your lawn. Time to feed it Vigoro! You see, alternate freezing and thawing of winter breaks up the surface soil naturally and thoroughly. Vigoro fed early, while the ground is still frozen, begins to nourish grass roots as soon as spring thawing starts.

Hungry, thirsty roots get the nourishment they need from Vigoro. And that's important because if your soil lacks just *one* essential element grass growth may fail miserably. So don't take chances! Feed Vigoro and feed it *early*. Your grass will come up velvety smooth, rich, deep-green in color and so thick it'll help choke out weeds! Get Vigoro right away. Feed it to everything you grow.

VIGORO adds humus to the soil!

Sections of properly fed and unfed grass taken from adjoining plots. Vigoro helps develop extensive root systems. Each year as new growth takes place, part of the old roots decay. Humus is formed in the soil where it belongs... rich, dark, fertile!



A Product of Swift & Company



SAYS
POWDER
CHAPERONE

Keeps your dog off chairs, rugs, beds, sofas, etc. To prevent damage—to keep your dog where he belongs—just sprinkle Powder Chaperone lightly on whatever you want to protect. This wonderful new powder is harmless. You don't see it—don't smell it—but your dog does and stays away. Helps train your dog. Protects females from male dog annoyance. **SEND NO MONEY**—Order Powder Chaperone, C.O.D. \$1 plus postal charges for generous package—several months' supply, (or send \$1 and we pay postage). Sudbury Laboratory, 477 Lab Bldg., South Sudbury, Mass.



A Dry Bath
for
your
dog

Avoid the fuss and muss of bathing your dog by cleaning quickly, efficiently and thoroughly with Sudbury Hygienic Cleaning powder. Recommended by authorities... chases fleas and lice... leaves coat soft and silky. Order by mail, C.O.D. \$1 plus postage for Giant size or send \$1, we pay postage. Sudbury Laboratory, 477 Lab. Bldg., South Sudbury, Mass.

SUDBURY HYGIENIC
DRY CLEANING
POWDER

DON'T LET DOGS
RUIN YOUR GARDEN



SPRAY
WITH
LIQUID

CHAPERONE Keep dogs away from flowers, shrubs, evergreens, etc. Works like magic. Harmless, odorless... but dogs don't like it and stay away. Won't dissolve in rain. **SEND NO MONEY... ORDER BY MAIL.** C.O.D. \$1. plus postage (or send \$1, we pay postage). Sudbury Laboratory, 477 Lab. Bldg., So. Sudbury, Mass.

STOP RABBIT DAMAGE IN YOUR GARDEN

Do Rabbits raid your garden, destroying tender vegetables and plants? Keep them away with **RABBIT CHAPERONE**, an immediate and effective repellent. Odorless and invisible. Won't dissolve in rain. Send \$1 for several months' supply. **SUDBURY LABORATORY**, 477 Lab. Bldg., So. Sudbury, Mass.

RABBIT CHAPERONE

Tricker's
Colorful
WATER LILIES

Enjoy a
WATER GARDEN THIS SUMMER

No garden is complete without the beauty and fragrance of a Water Lily Pool. Water Lilies are easiest of flowers to grow; no weeding—no watering—no hoeing. Certain to prove a delight for the whole family. Tricker is famous for Water Lilies, Aquatic Plants, and will give you all the information needed to build a water garden.

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- ★ FLOATING PLANTS
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- ★ FISH FOOD & Remedies



Beautiful NEW CATALOG now ready!

Profusely illustrated in natural colors. Helpful directions show how to succeed with aquatic plants. Tells all about Tricker's large, healthy plants. Guaranteed to bloom. Surprisingly low prices. Write for **FREE** copy today! (Canada 15 cents)

Wm. TRICKER Inc.

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Water Lily Specialists

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WISS "Hy-Power"
Pruners are famous for keen cutting power. They're tough, durable, work with a minimum of effort.



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Newark 7, N. J.

WISS
SCISSORS and PINKING SHEARS

GARDEN SCIENCE

Continued from page 74

for contact spraying. Most encouraging results were obtained with aster leafhoppers, eggplant lacebugs, onion thrips and potato aphids.

Sabadilla has held its own in far-flung tests in 1945 and appears to have made a place for itself as an insecticide, especially for plant bugs. According to Dr. T. C. Allen of Wisconsin, assets are that it is fast-acting and leaves no poisonous residue; it is non-injurious to plants and to beneficial insects such as bees and parasites. Many synthetic organic compounds lack these qualities. Sabadilla gives first-rate control of squash bugs, cabbage worms, potato leafhoppers on beans, red-legged grasshopper and the milkweed bug.

While 2,4-D type **weedicides** are now available under various trade names, there is much yet to be learned about this synthetic hormone, its effect on plants and soil, before it can be adopted for general garden use. Meanwhile researchers look for chemicals which, applied in autumn, will provide weed-free plots the following spring. Preliminary experiments at Rhode Island suggest that certain fertilizers have such properties. It is reported that ammonium thiocyanate and ammonium sulfamate used in seedbeds at the rate of two and one-half pounds to 1,000 square feet, destroyed many weed seeds including those of crabgrass. Treatments were made several weeks in advance of planting.

Another **double-dealing material** that looks to a future in gardening is D-D, a mixture of 1.3 dichloropropene and 1.2 dichloropropane. Used as a soil fumigant in pineapple fields of Hawaii, D-D destroyed weeds and so changed the soil pathogens that plants developed remarkable roots resulting in a fine crop. Entomologist Walter Carter states that D-D has certain advantages over chloropicrin, the second successful fumigant tried in his experiments. It is cheaper, easier to handle and gives results without a soil cover. D-D has been found toxic to root-knot nematodes, the rice weevil and soil inhabiting larvae.

Naphthenic dry cleaning fluids are also bad news to weeds. California and Idaho have tried oils to exterminate weeds for some time. Now Dr. R. D. Sweet of Cornell has used kerosene with a naphthenic base, certain dry cleaning fluids from the same crude oil, and paraffinic kerosene with aromatic solvent to eliminate hand weeding of carrot and turnip rows. One or two applications directly on the rows when weeds were two inches high and vegetables had at least two true leaves destroyed the ornery purslane, chickweed, pigweed, redroot and crab grass without injuring the crop. No applications should be made after carrots are the size of a pencil, or within six weeks of harvest.

Southerners, justly proud of their azalea plantings, are grateful to Plant Doctor Cynthia Westcott for finding materials that control **petal blight**. Striking at the height of the season, this fungous disease can ruin flowers in short order. For two years and in many

(Continued on page 76)



. . . at the dinner table . . . and good dining demands attractive appearance and superior flavor in vegetables, cooked or salad.

To have vegetables at their best, sweet and crisp, grow in your own garden the better, modern varieties. Grow them from Asgrow Seeds . . . clean, pure, high-germinating . . . fresh from our 75,000 acres of seed crops.



For growing satisfaction

SOLD THROUGH
LOCAL STORES



ASGROW SEEDS

Associated Seed Growers, Inc., New Haven, Conn.

GARDEN SCIENCE

(Continued from page 75)

gardens Dr. Westcott used two fungicides with good results. Dithane (disodium ethylene bionthiocarbamate) will soon be sold in a kit containing other ingredients necessary in making up the spray and full directions for use. Phygon (chemically, 2,3-dichloro-naphthoquinone-1,4) will be available in powder form ready to be mixed in water and applied according to instructions. Both chemicals gave "almost complete control with a minimum of unsightly residue and plant injury" writes Dr. Westcott. Approximately nine applications are necessary. Prompt recognition of the disease, timing of sprays and ability to follow the method exactly are top factors of success.

The uses of Dithane have been mentioned previously. **Phygon** also is extolled as a many-purpose fungicide. It is a powerful seed protectant and is said to control the various blights, as well as anthracnose and fruit rot, of tomatoes. It has also given excellent control of such diseases as downy mildew of grapes and beets; brown rot of cherries, plums and peaches and anthracnose of beans. On apples it acts to control and eradicate scab, eastern scourge in 1945, and is rated highest of materials tested in a recent U. S. Department of Agriculture program to check bitter rot in orchards of the Middle West. A slight flecking of the skin in no way injures the fruit.

Gather ye roses at 4:30 P. M. if you want them to last. Roses make sugar while the sun shines and sugar concentration increases longevity of the cut flowers. In experiments at Cornell University, roses cut at 4:30 outlasted morning-cut blooms from seven to twelve hours.

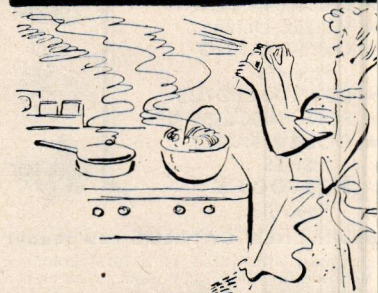
In case this holds for other plants, it might be an idea to pluck corn on sunny afternoons. At any rate ears harvested on dark days seem tasteless compared with those gathered in bright weather. Slow-loss of sugar as well as sweetness itself are inherited traits in corn and U. S. Department of Agriculture breeders are working to hasten the day when ears will not have to be rushed from garden to pot to preserve flavor.

Pie and "nuts" from your own vine will be possible when L. C. Curtis, Connecticut plant breeder, perfects hybrid squash containing **coatless seed**. Superior table and pie varieties have been crossed with European naked seed squash to make quality hybrids. Dried and salted, the tender seeds make a highly nutritious as well as delicious snack.

Diseases such as brown rot, dollar spot and the more recent copper spot are a perennial plague to keepers of fine lawns. Testing new organic compounds for curbing these diseases, H. L. Keil of the Rhode Island Experiment Station has found that phenyl mercuri triethanol ammonium lactate, now dubbed **puraturf**, gave outstanding control in the past three years and was the only material tested that left no injury on Creeping Bent turf. In fact,

(Continued on page 83)

Now...*instantly*
neutralize
kitchen odors
and make the
air fragrant...
fresh!



4-8-16 ozs.
Cedar Pine
or Oriental

No Wick! No Waiting!
Sprays away any odor!

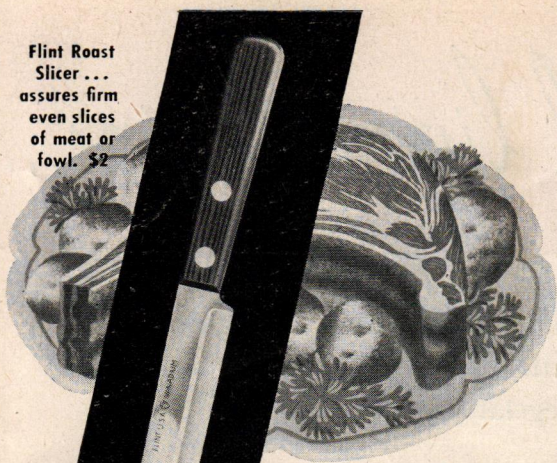
CLINGING, permeating kitchen odors vanish before Sweet-Aire's instant neutralizing action. Odors from food on the stove or in the oven... from cooking "accidents"... immediately give way to fragrant... freshness. A few quick sprays turn the trick... no waiting for results, no bothersome wick. Sweet-Aire is the *original* air deodorant. Odor-wise homemakers have used it for years as an all-through-the-house air deodorant, for it whisks away odors from kitchen, bath, living-room, nursery, closets, sickrooms, etc. Get Instant Sweet-Aire at drug, department, hardware stores... at beauty or gift shops. Miller Protecto Products Company, 1317 S. Westnedge Ave., Kalamazoo 41, Mich.



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Sweet-Aire
THE ORIGINAL AIR DEODORANT

*Reg. U. S. Pat. Office

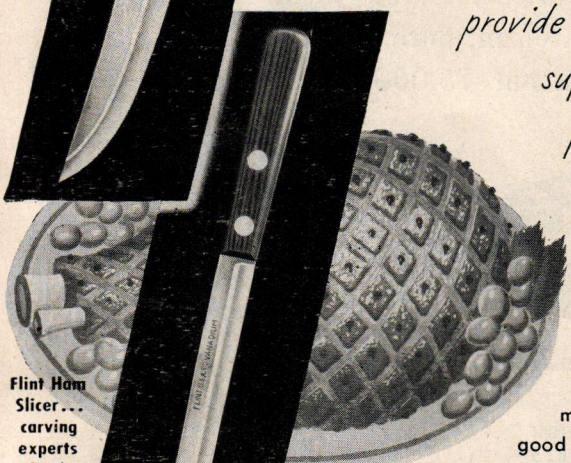
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Win his heart
all over again...

provide these
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FLINT blades
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Flint Ham Slicer... carving experts prize its rounded tip, perfect balance. \$1.75



Flint Hollow Ground Cutlery is a man's idea of what a good knife should be... handsome, easy to handle, and with an edge (the famous Flint edge!) that glides through roast or fowl as if it were butter. Men who have used Flint Slicers at the table... women who know the joy of Flint blades in the kitchen... won't be without them. There's a Flint Knife for each purpose... made of special chrome vanadium cutlery steel... hollow ground to have and hold a razor's sharpness. At all good stores.



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Flint Steak Slicer... slips through a sirloin as if it were butter. \$1.75



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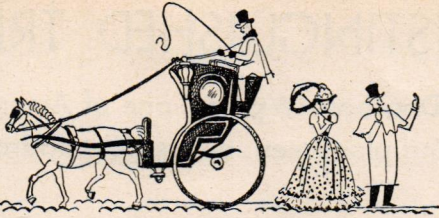
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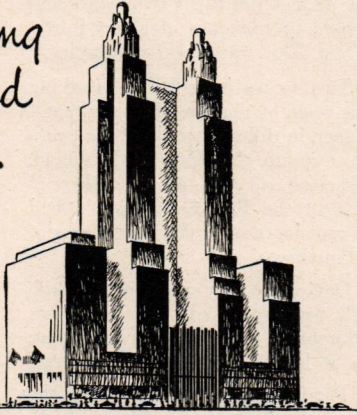
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Send your illustrated book "Edward Arnold Shows You How to Carve Meats and Poultry." I am enclosing 10c in coin.

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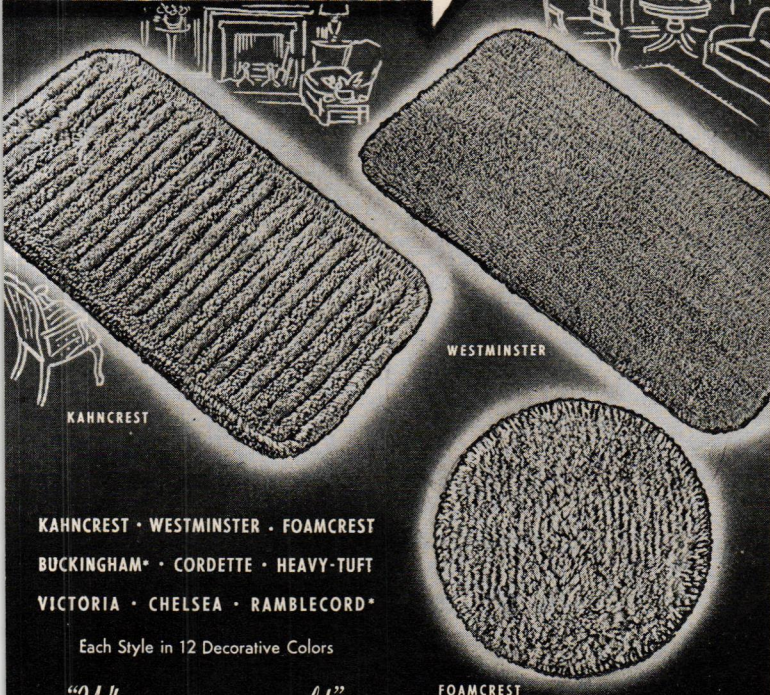
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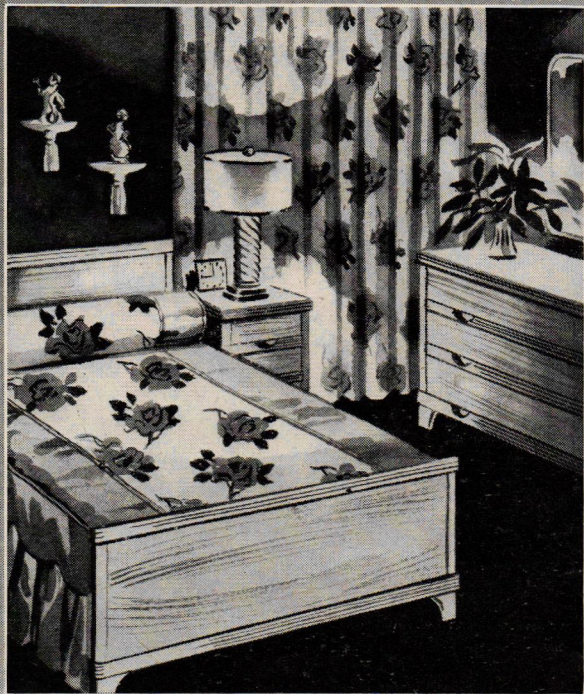
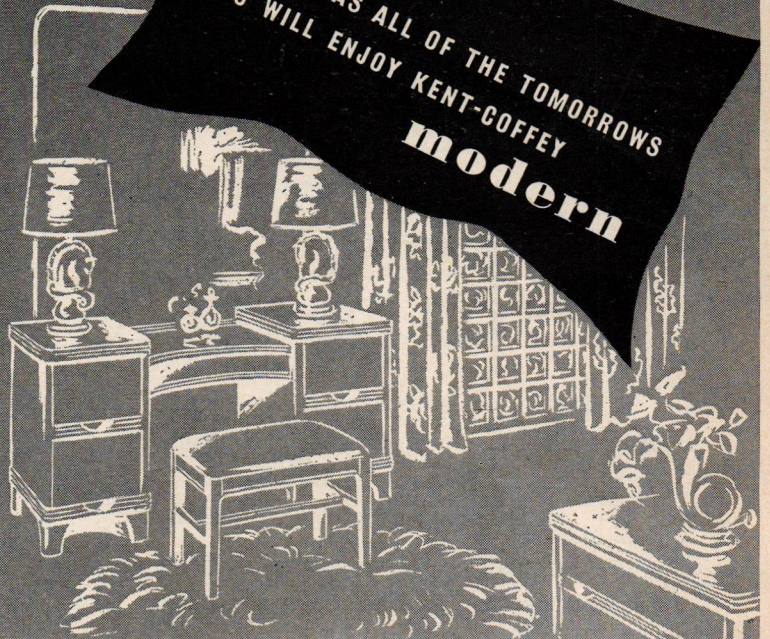
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Smartness that is not ultra-sophisticated is the charm of Kent-Coffey modern for your bedroom. It is the charm of beautiful woods, finished in the soft tones so favored by decorators. It is the charm of selecting just the individual pieces you desire for carrying out your ideas. Kent-Coffey are specialists in building beautiful bedroom furniture, in authentic traditional as well as modern designs. You will find charming Kent-Coffey bedroom furniture at many leading furniture and department stores from coast to coast.



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DISTINGUISHED TREES

Donald Dearborn Wyman, one of America's leading plantsmen, discusses patriarchs

ABOUT ten years ago when they were constructing the Mount Vernon Highway to the home of our first president, I had an opportunity to go over the project with Mr. Nye, the landscape architect. At one point just beyond an overhead bridge, Mr. Nye stopped his car, walked down across the field to examine a venerable Red Cedar (*Juniperus virginiana*). It had a trunk diameter of thirty-two inches and a spread of branches of about thirty-two feet. This was a real patriarch.

Two weeks later I was speaking about some of the fine old trees that I had seen in different parts of the country to a group of friends in Marshfield, Massachusetts, and among others I described the Red Cedar that I had seen growing not far from the banks of the Potomac.

One of the men spoke up and said, "Well, we have a Red Cedar right here in Marshfield that is bigger than that. It is at least three feet in diameter."

The next day we drove over to the spot where the tree was. Sure enough, the tree was thirty-seven inches in diameter and was bigger in every way than the one in Virginia. Curiously enough, the tree was growing on the north side of the cemetery at the rear of the Congregational Church in Marshfield, the same one which Daniel Webster used to attend when he was home from Washington. There is little doubt that that tree was standing when the Pilgrims came to Plymouth which is only a short distance from Marshfield.

This only goes to show that many times we see something at a distant place that is extremely desirable when there are equally choice and sometimes better examples in our own back yard that we haven't recognized.

Several years ago I spent some time visiting the National Cathedral at Washington. Bishop Freeman took me through the Bishop's garden where I saw many fine horticultural specimens and then he conducted me to the College of Preachers and showed me the small intimate garden there. The tree that perhaps I remember more vividly than any other was the Irish Yew (*Taxus hibernica*) which was on the grounds of the National Cathedral and which had been presented by the Garden Clubs of America. This was a magnificent specimen.

It was only a few months later while driving along through the town of Osterville on Cape Cod I looked into a garden and saw an Irish Yew every bit as fine as the one in Washington. It was a noble tree and later I was told that it was originally growing at Nantucket. It was dug with great care, loaded onto a barge, and brought across the Vineyard Sound to Osterville where it was planted and where it had grown beautifully. I have seen this tree many times since and it is not necessary for me to travel 500 miles to see a fine Irish Yew when there is one within 60 miles of where I live.

There is also a Black Walnut nearly three feet in diameter only a little more than a quarter of a mile from the City Hall and within an even shorter distance is an American Elm with a circumference of nearly eleven feet. Few people who see these trees realize just how remarkable they are and the history that lies behind them.

In the adjoining town of Weymouth, Massachusetts, there is an extraordinarily fine Katsura tree (*Cercidiphyllum japonicum*). This is on the grounds of a hospital at an intersection of two main streets where it is visible to all who pass by. My father planted the tree about fifty-five years ago and at all seasons of the year it is charming and expresses its own individuality.

Less than one hundred yards from the Katsura is one of the largest Japanese Umbrella Pines (*Sciadopitys verticillata*) that I have ever seen. Yet, when I was speaking to a group in that vicinity one time, few were aware of the significance of these two trees although they had passed them almost daily.

In the town of Norwell, Massachusetts, only a few hundred yards from the North River on which there were so many boat yards about a century ago, there is a White Oak (*Quercus alba*) that seems to be the grandfather of White Oaks. It is far from the road but deserves to be set apart, because this species of oak had a great economic significance in that town. For many decades the White Oak was used extensively in the construction of wooden sailing vessels.

In Hanover, Massachusetts, on King Street, there are several Buttonwood Trees (*Platanus occidentalis*). The largest of these were planted by Deacon King on his grounds. On the evening of the day in which he planted them, a messenger came down through the countryside announcing the news of the battle at Concord with the British. The trees are standing today for us to enjoy and admire long after the good Deacon passed on to his reward.

Are you familiar with the distinguished trees in your own community—trees of unusual size or beauty, of rare variety or species, of historical interest? It is a pity that such should go unnoticed by all but a few. Trees are valuable members of any community and it is only right that outstanding examples be not only recognized and preserved for succeeding generations but also appropriately marked so that they may be known for what they are.

One day I had to address a group of Rotarians in Quincy, Massachusetts. I called their attention to a number of distinguished trees in that city. There are a number of English Beeches (*Fagus sylvatica*) that were brought to this country by John Adams, second President of the United States. These trees came from England in a sailing vessel. They were planted more than one hundred years ago; today they are beautiful specimens.

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by the patented FIRM-FIT end that holds them proudly erect, secure against tipping and dripping.

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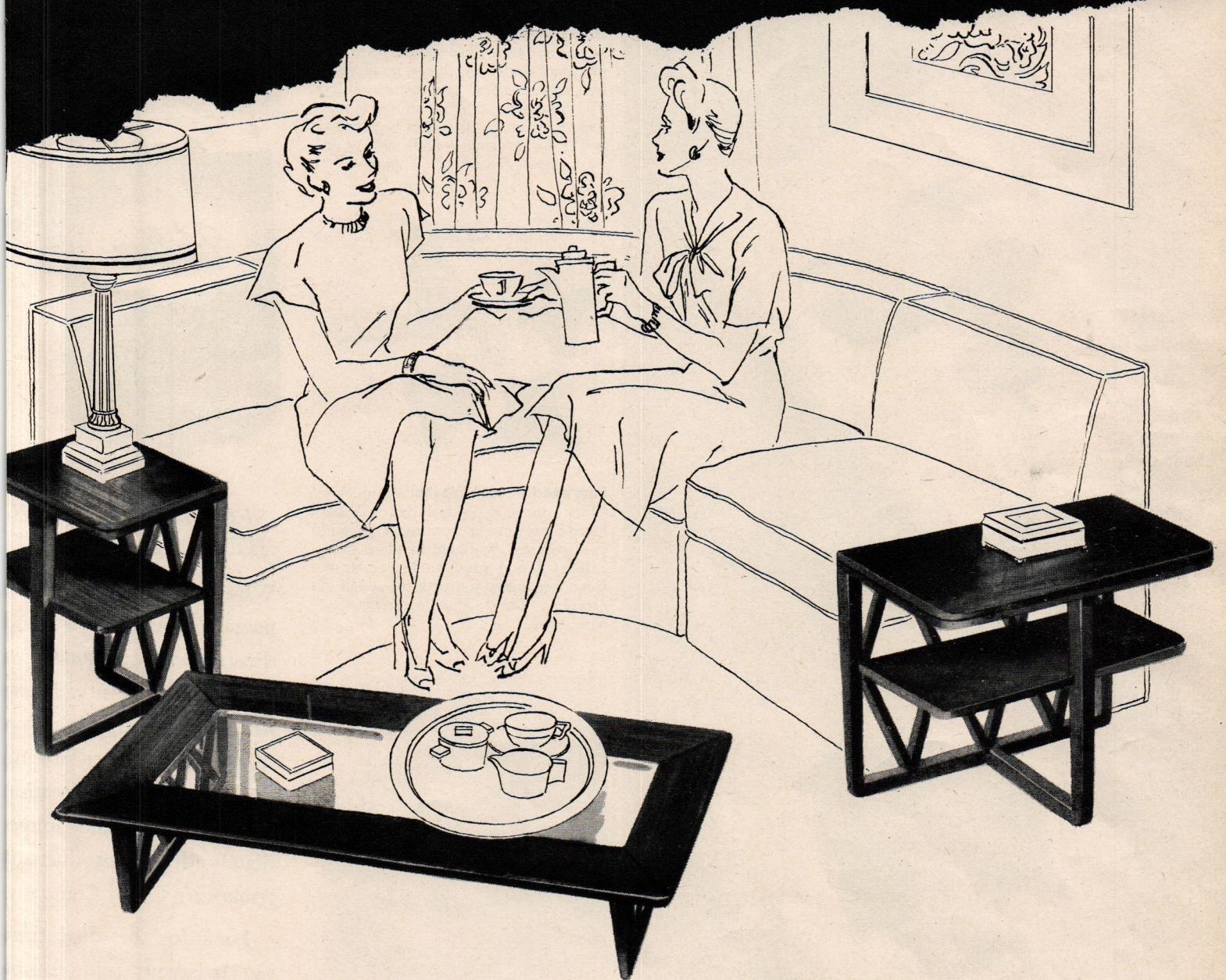
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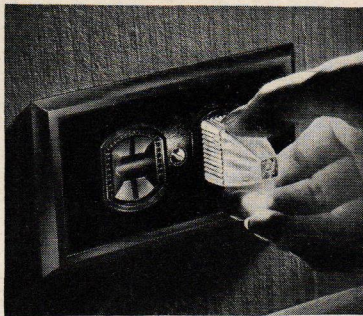
For gracious living, Tables *by Morton* reflect good taste and hospitality in the home. Inspired styles, woods of intrinsic quality, supremely careful workmanship and flawless

finish are perfectly blended to create tables of matchless beauty. Modern, Traditional and 18th Century styles are shown with pride by all better department and furniture stores.

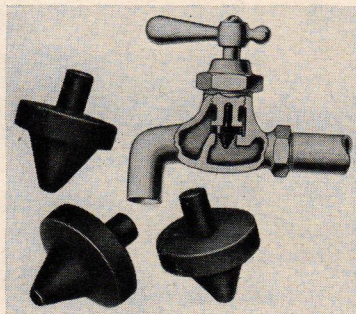
R. P. Morton Company

666 LAKE SHORE DRIVE * CHICAGO, ILLINOIS

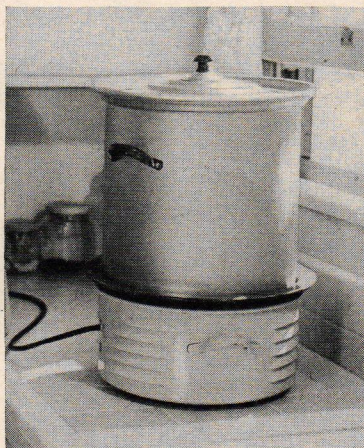
UP AND COMING



Night Light—A small gadget, but a handy one in pitch darkness, is a new electrical device which can be plugged into any electrical convenience outlet. The illumination is a subdued rosy glow and can be placed in bathrooms, bedrooms, nurseries, halls and stairways. *Littel Fuse Inc., Chicago.*

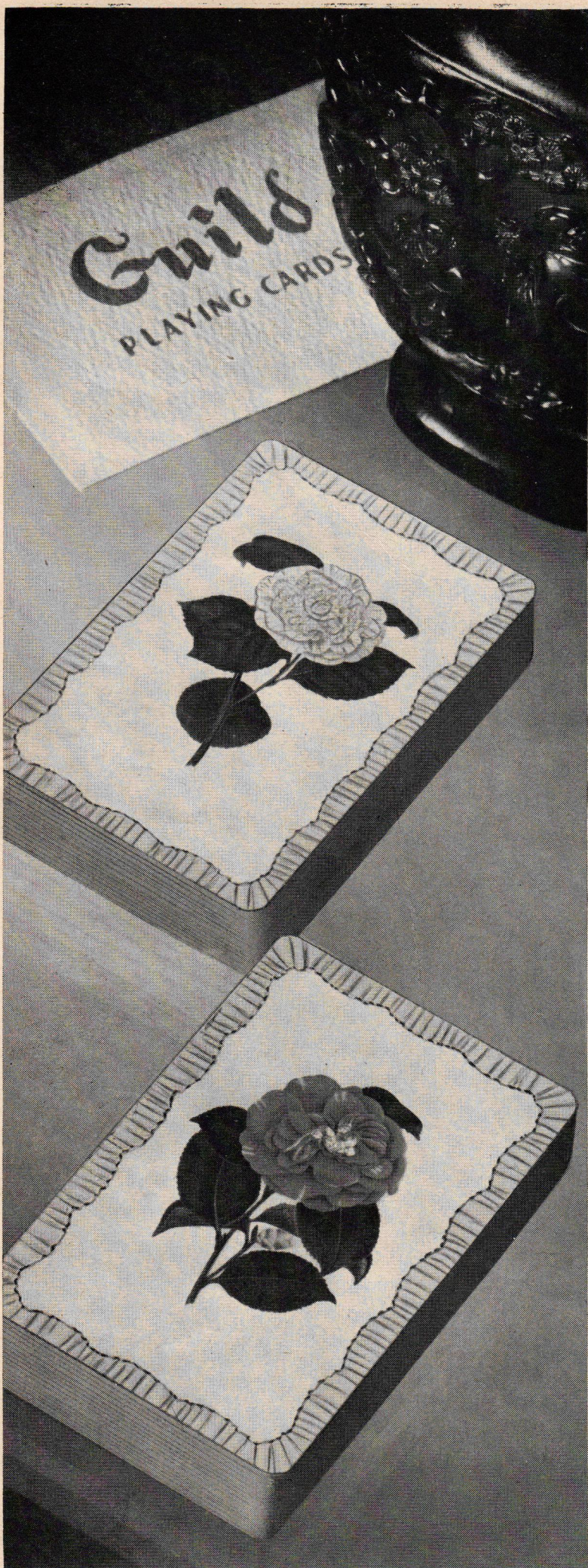


Improved Faucet Washer—A washer which can be easily installed with the fingers provides a permanent fit and positive grip. Available in three sizes, a leaky faucet need no longer waste water nor annoy you with the sound of dripping. *Durst Manufacturing Co., New York.*



Fast Pocket Laundry—A new electric portable washing machine does a tub full of delicate fabrics without danger or injury. The washer plugs into a light socket and can be stored in a small space since it is only twelve inches in diameter, seventeen inches tall and weighs less than fifteen pounds. A washing requires only fifteen minutes. The detachable tub of aluminum can be placed on the stove. For week end or vacation trips it is small enough to carry along. *Menasco Manufacturing Co., Burbank, Calif.*

(Continued on page 82)



Western Playing Card Co. • Racine, Wisconsin

Marks of FINE FURNITURE



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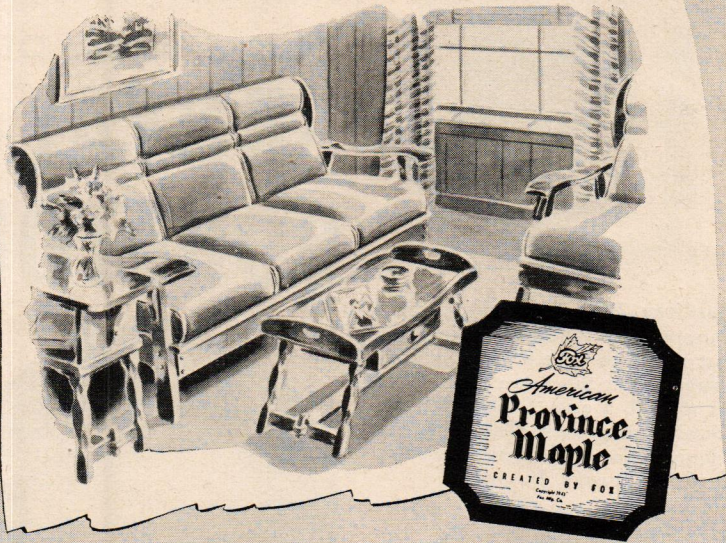
SEE THEM AT THE BETTER STORES

Whenever you see these names on living room and dinette furniture, you know it is good furniture. *Brewster Maple* for colonial, *Pace Maker* for modern styling and *Tropique* for recreation or sun room — they immediately identify products of American Chair Company

Look for this distinctive tag. It is your guide to fine furniture that is handsomely styled, sturdily built and moderately priced. It is the kind you will be proud to have in your home.

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American Province Maple by FOX, hewn out of heavy wood, combines the charm of authentic Early American styling with the sturdiness of construction that has made the name FOX famous for forty years. Yet, thanks to modern production methods, FOX quality furniture is unusually low in price. Ask to see FOX living room furniture at your dealers'—and look for the American Province Maple tag on every piece.

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Delightfully Served!*

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Just pop it full of good things to heat, into your oven or on top of the stove, wherever there's room. (The wire basket prevents burning!) Then march it straight to the table. You'll heat in it, serve in it, and have just one dish to wash.

The big and busy KROMEX Bun Warmer is handsomely styled in gleaming spun-finished aluminum with bakelite handles. A perfect gift for any home-maker. She'll put it right to work! Be sure to ask for KROMEX.

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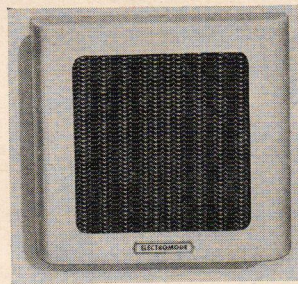
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Height, 272.4 feet

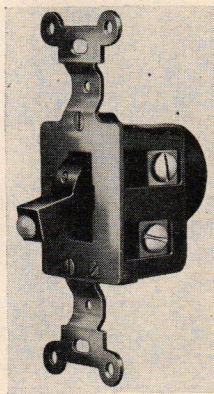


UP AND COMING

Continued from page 80



Auxiliary Wall Heater—Bathroom, nursery, or a cold corner in the breakfast nook can be heated quickly and thoroughly by this device which forces air through a grid of thoroughly protected electric wires. There is no dust, odor or radio interference. *Electromode Corp., Mishawaka, Indiana.*



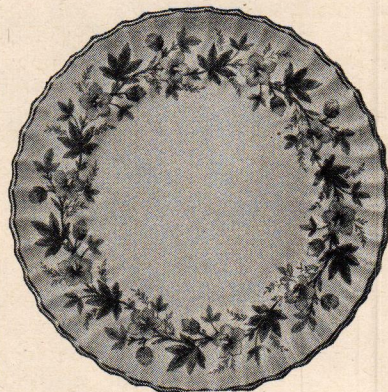
Delayed Light Switch—Here is a new switch for controlling electric lights which puts an end to the old joke about the man who was so quick he could turn off the lights and get into bed before the room got dark. A small adjustment sets the delayed action from zero to three minutes. For example, in the garage the light switch can be turned off and yet the lights themselves stay on until you have had time to walk into the house. Other applications readily suggest themselves. *T. J. Mudon Co., Chicago.*



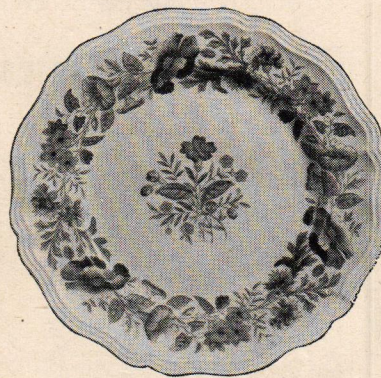
Look with pride and gratitude at the man or woman who wears this emblem, for it is the Honorable Service Emblem awarded to veterans of World War II. Recognize the emblem just as you used to recognize the uniform it has replaced. And give the wearer the respect and consideration he or she so richly deserves.



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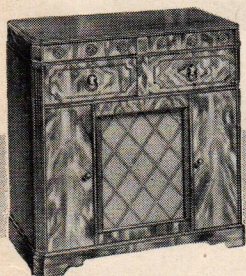
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Just imagine having a sparkling new dream kitchen you'll be forever happy in... an efficient, model kitchen in your own home! Skillfully planned, HARRISON Custom-Built steel Kitchen Cabinets are so designed to pamper you with step-saving, labor-reducing utility. Ample space for everything... easy to keep clean and bright. Enjoy shorter hours... easier tasks... gleaming beauty in a modern HARRISON "luxury" kitchen of your own!

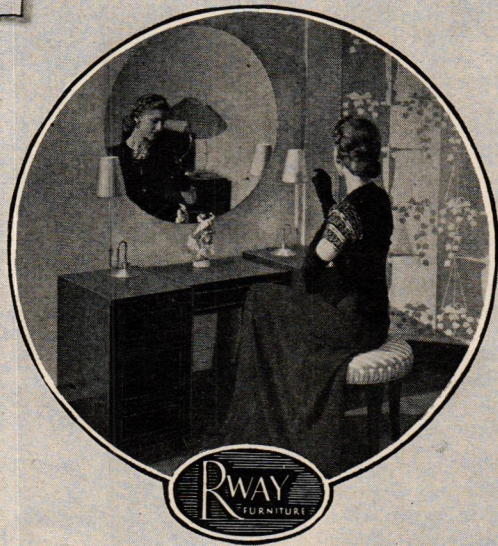
Mail sketch of your Kitchen. Give approximate dimensions. We will prepare design and furnish estimate without obligation.

Add beauty to every room with HARRISON Custom-Built steel Radiator Enclosures. Scientifically engineered, they protect furniture, draperies, walls from unsightly smudge. Concealed humidifier insures more healthful heat. Selection of modern designs and colors to complement any interior.

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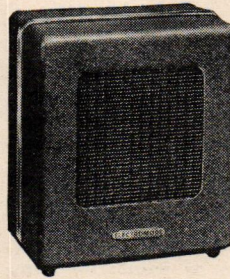
For local address consult telephone book and please note that purchases may be made only through authorized dealers

EVEN A PLAY HOUSE NEEDS HEAT



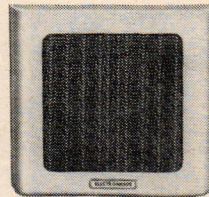
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Wherever there are children you will also find a "play house". Whether it is in the bedroom, living room, or nursery, proper heating is necessary. Electromode Portable Heaters eliminate drafty, cold floor areas and keep the warmed air circulated where it can produce the most comfort—in the living zone for adults, in the "play house" zone for children.



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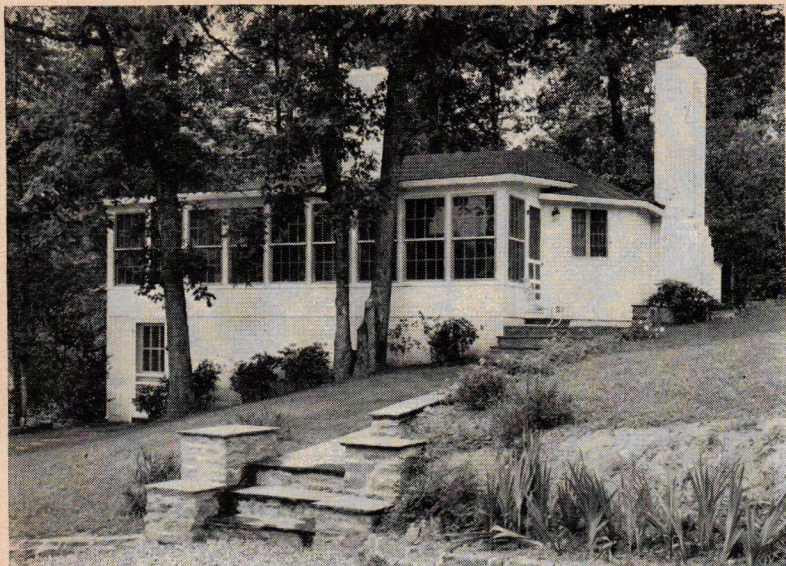
Model WJ-13: For those who prefer a Built-In-Wall Heater for bathroom, nursery, den or playroom, this Electromode requires no floor space and furnishes quick, clean, safe, odorless heat in-an-instant any time of the day or night.

Electromodes are quiet, clean, and efficient. The streamlined cabinet harmonizes attractively with other modern home furnishings. Our manufacturing quota is limited this season so we suggest placing your order with your electrical dealer at once. ELECTROMODE CORPORATION, Div. of American Foundry Equipment Co., 446 So. Byrkit Street, Mishawaka, Indiana.

ELECTROMODE Room Heaters



New illustrated Brochure 46-D, describing both Portable and Built-In-Wall models, sent promptly on request.



EMPHASIS ON PETUNIAS

Continued from page 36

Another class, which is deep rose to red slightly suffused with yellow, contains Glow, Radiance, Topaz Queen and Topaz Rose. All have prominent yellow throats. They are all excellent display varieties but Glow is preferred because of its dwarf, compact habit. In the velvety mahogany class is the small-flowered Flaming Velvet, which is rather a rampant grower.

The range of color among the violets is very limited. Heavenly Blue, Silver Blue and Silver Lilac are synonymous. They are lavender-violet and the tints vary greatly, to the disappointment of the grower. English Violet is a little deeper, an amethyst violet, pure and clear. Alderman is nearly a true violet and of pleasing conformation.

The reddish-royal purple class contains the greatest number of varieties, such as Blue Bedder, Blue Bee, Blue Bird, Violet Blue, Sutton's Blue, Viola cea and Violeteen. Their color differences are not sufficient to warrant listing all. Viola cea and Violeteen are synonymous and the color is variable and muddy. The others have more pleasing color, and the choice would probably be between Blue Bedder and Blue Bird.

Admiral is the deepest of all, nearly a true velvety royal purple. The plant is dwarf and its fascinating wavy pointed petals make it a "must" in our garden.

There are three excellent whites in Snow Queen, Snowball and Igloo. The first two are pure white, prolific and of good habit. Igloo forms a dwarf, compact plant covered the entire season with small white flowers tinted yellow at their centers. Cream Star is a rather disappointing dull yellow; its habit is straggly and its only redeeming feature is its star-shaped flower.

A selection of the large-flowered, plain-petaled type is comparatively easy because of the few existing varieties. The most desirable are White Queen and Snowstorm in white; Flaming Velvet, tall, and Velvet Ball, dwarf, in velvety mahogany; Burgundy, a vigorous grower with a rare color of the wine; and Elk's Pride, royal purple.

There are approximately a dozen varieties of the large-flowered, fringed type listed and all of them are sufficiently different to justify their existence. It must be borne in mind, however, that great variation may be expected both in color and conformation of the flowers. Frequently only half of the plants produce fringed flowers. Violet Beauty, Purple Beauty and Violet Blue are nearly synonymous.

Flowers of the Giants of California type are three to six inches in diameter artistically ruffled and veined and with wide-open throats. In tests conducted in 1937 and 1938 varieties came remarkably true to color. Since then the number of varieties has been reduced from twenty-five to less than a dozen, and some of the older varieties have been given new names. The range and combinations of color are excellent and

(Continued on page 88)

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Definitely a brandy for those who know and insist upon the best. From choicest San Joaquin Valley grapes, Croix Royale Brandy is made with painstaking care and precise knowledge by that best of old-world methods—the Pot Still. The result is a brandy, rich, mellow, and velvety smooth—a favorite of Americans who formerly bought only imports.

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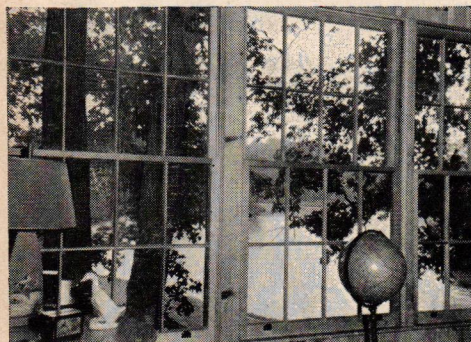
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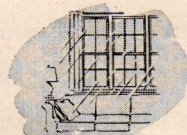
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Our old gutters and downspouts giving up to the ravages of rust, doing damage to your house and lands... here is good news!

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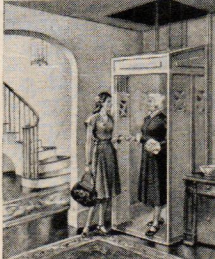
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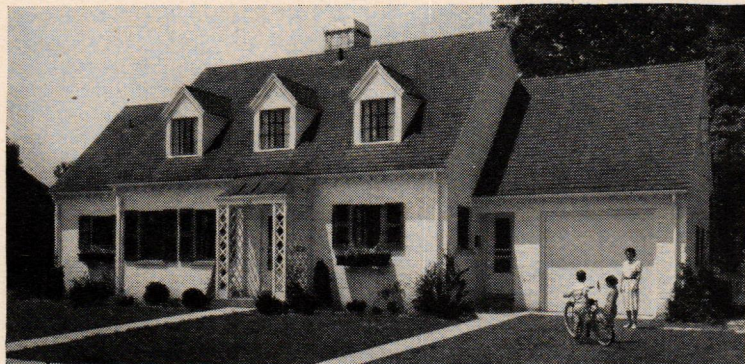
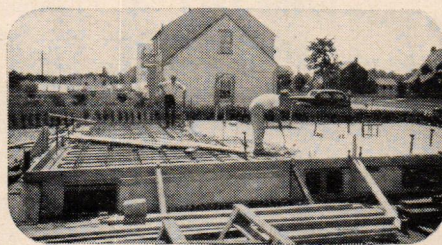
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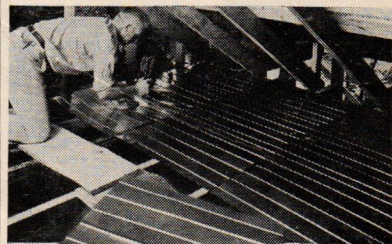
Those homes will be truly modern. They will have comforts and conveniences never dreamed of before. And they will have the protection—the permanent protection—of one of the greatest safeguards to health and comfort that can be built into a home—Ferro-Therm Steel Insulation.

Ferro-Therm is a sheet of special alloy-coated steel that reflects 95% of all radiated heat—makes heat literally "bounce" off from either side. During the winter, it keeps heat in—saving from 25% to 30% in fuel. During the summer, it keeps heat out—making the house 10° to 12° cooler.

And Ferro-Therm does far more than insulate. Because of its construction—all metal—it contributes to the comfort and safety of a house in several vital ways: (1) it is non-combustible and provides a definite fire stop; (2) it resists the penetration of termites, insects and rodents; (3) it does not absorb moisture or convey any wood-rotting moisture to framing members; (4) it does not settle or pack down; (5) it is absolutely permanent—100% efficient for the life of the building.

When you build—remember that only steel insulation can give you steel's advantages. Plan now for the extra protection and comfort that Ferro-Therm can give your home. Send today for complete information. Just mail the coupon below.

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HOW TO READ LABELS

THIS coming garden season many new sprays and dusts will be available to the gardener. To know what you are buying, read and study the label on the package for it gives the following information: trade name, chemical name of the active pesticide ingredient, percentage of inert material, uses of the material, instructions and cautions regarding its use. Materials poisonous to human beings are so stated on the label and antidotes are listed.

DDT preparations for use as general household sprays should contain 5 per cent DDT (dichloro diphenyl trichlorethane). The labels on some of these preparations contain the phrase "active ingredients 100 per cent." Do not be misled into thinking it is 100 per cent DDT. The phrase means the organic solvents for the DDT and the kerosene used as a carrier are considered to be active in control.

As many pesticides are formulated for specific purposes, it is always necessary to read the label to determine if the material can be used for the purpose you have in mind. For example, DDT preparations on the market that are formulated specifically for use as household sprays may be harmful when used in your garden as they contain organic solvents and kerosene; DDT preparations specifically prepared for use on plants may not be very effective when used as household sprays. Cautionary measures on the label should be carefully followed.

Powder preparations are put out in two forms, a straight dust and a wettable form. The straight dust, to be applied dry, should contain around 1 per cent DDT while the remainder of the material in the package is inert. This word inert covers a multitude of things ranging from talc to gypsum. These inert materials, in reality, are conditioning agents—things needed to improve the chemical and physical properties of the active pesticide ingredient so that it can be used in various ways.

DDT preparations may be in one of two forms—liquid or powder. A good general rule to keep in mind is that most liquid DDT preparations are usually formulated for use as household sprays for control of flies, mosquitoes, etc., whereas the powdered preparations are used for plant sprays, wall sprays and animal treatments.

Because it is diluted with water before application, the wettable dust preparation should have a higher concentration of DDT—from 25 to 50 per cent.

When using pesticide materials be sure to follow the directions on the label regarding their use. Never use them stronger than recommended or you may run into trouble.

J. W. HEUBERG



The All-America Rose selection for 1946 introduction. A beautiful variety. One of the loveliest individual flowers in cultivation, of great substance and changing in its various stages of opening from cerise to apple blossom pink and from lavender pink to alabaster white. A range of colors that has not been seen in any other Rose to date. The growth is unusually strong and healthy. Lovely, glossy, holly-like foliage which remains on the plant throughout the entire season. Its magnificent, strong growth is not the least of its many fine qualities.

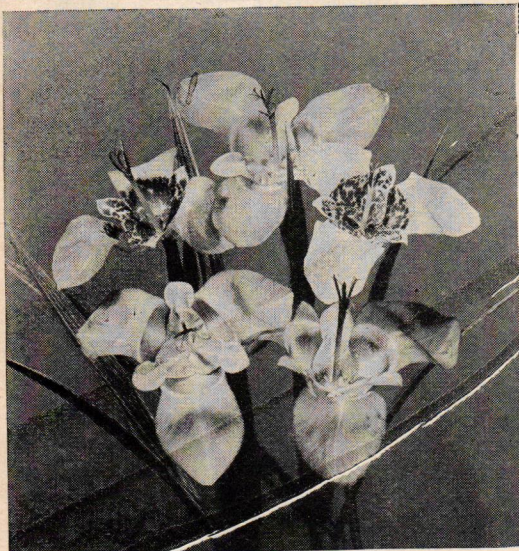
2 YEAR OLD PLANTS, \$2.50 EACH, \$25. PER DOZ.

Delivery at planting time in spring of 1946

All flower lovers will remember with pleasure and gratitude the donor of this lovely Rose.

Send for our new illustrated catalog. The 25c charge may be deducted from your first order.

BOX G MADISON, NEW JERSEY

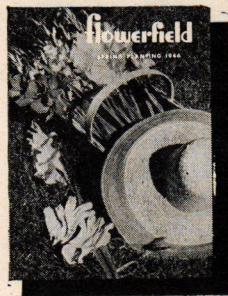


Tigridias (Tiger Flower)

Flowerfield's new and improved introduction brings the gorgeous splendor of the tropics to the American garden. Tigridias perfectly huge blossoms (6 to 7 inches across) bloom from mid-July until frost. Three silken petals, richly colored in various shades of scarlet, rose, yellow, orange or white surround plain or spotted cups. A red triple-spronged stamen darts several inches high from the very center of the cup.

- CARNARIENSIS Canary Yellow
 - GIANT RED Red
 - VIOLACEA Violet
 - GIANT ROSE Rose
 - WATKINSONI Mottled Orange
- Three 50¢, Doz. \$1.75
- MIXED SELECTION
Doz. \$1.50, 100 for \$10.00

Flowerfield's GARDEN SELECTIONS



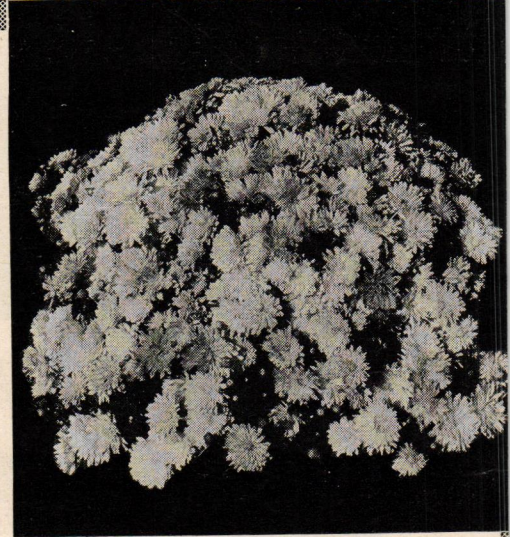
1946 Spring Catalogs

Flowerfield's new catalogs for 1946 Spring planting are full of fine color illustrations and complete listings of your favorite garden subjects. Two large Spring Catalogs, one for Seeds, the other for Bulbs, Roots and Plants, contain listings of the finest quality new introductions and old favorites for better gardens. Send for your copy of these instructive, easy to read, fully illustrated catalogs.

Please enclose 10¢ to cover mailing and handling costs for both of the fine catalogs.

Reg. U.S. Pat. Off.

Flowerfield



Cushion Mums

SANTA CLAUS This is the finest red Cushion Mum and by far the most popular. Plants are literally covered with brilliant flowers that completely hide the foliage of these compact plants approximately 15 inches high and 24 inches wide. Santa Claus is particularly beautiful in September if used as an accent to the evergreen planting. Each 50¢, Doz. \$5.00

ACE CUSHION The brilliant sun-yellow flowers bloom in great abundance on this sturdy variety. Ace may be used as a border, adding warmth to your Fall garden. As with all Flowerfield stock, it is the best quality obtainable and is guaranteed to grow and bloom. Each 50¢ Dozen, \$5.00



YOUR TREES...

Their friends are coming back



More than 700 Davey Tree Surgeons have been in the armed forces, (an normal percentage out of 1000 men). Gradually they are coming back. They are good men. Soon they will be able to render

expert healing service to thousands of fine trees, neglected during war years. The entire Davey organization is getting back to its pre-war stride. It will not be very long until *your* trees may once more have the reliable service of Davey Tree Surgeons.

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1846—1923

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MARTIN L. DAVEY, PRESIDENT

V O G E N E R A T I O N S O F T R E E S A V I N G S E R V I C E

GARDEN GUIDE

GARDEN SCIENCE

Continued from page 76

Here is a list of some of the things to be found in the new 1946 Short Guide of Kelsey Nursery Service. Copy free on request (except 25c west of Iowa). Will be ready in late February—but write NOW!

AZALEAS

70 Choice Varieties—mostly in small inexpensive sizes. Both evergreen and deciduous.

Gable's Hybrid Azaleas—a new race of real hardy kinds. Sensational colors never before in really hardy plants.

Hinocrimson Azalea—Much improved, hardier Hinodigiri—sensational! 10 to 12 in. B. & B., \$5.00 each.

BLUEBERRIES

10 New Giant Blueberries—strong 4-year olds (bearing age) now 1½ feet high, assorted named varieties, our selection but all good, \$19.00.

BERRY-TREES

3 Showy Berry-Trees—handsome blooms in spring, then a show of bright berries in fall that the birds love. One each Mountain Ash, 8 ft. Flowering Dogwood, 8 ft. and Holly, 4 to 5 ft. B. & B., 3 specimens for \$15.00.

EVERGREENS

Kelsey Berrybush Yew—dark green evergreen rather dwarf, bushy. Covered with brilliant red berries in autumn. 18 inch B. & B. plant for \$3.75.

Japanese Yew—upright "Capitata" form. By the hundred and by the thousand. Smallest size as low as 35c each in quantities.

Dwarf Evergreens—mostly grafted, rare and interesting shapes. Will never grow out of place in foundation plantings.

Yew Hedge—set 18 inches apart, 25 Upright Hardy Yew will make 37 feet of insect-free hedge that takes care of itself. Plants now 12 to 15 inches high, twice transplanted, sturdy. \$22.50.

Hicks Yew Hedge—Neat, upright growth for smaller hedges. 25 (also 37 ft. of hedge), 15 to 18 inches for \$30.00.

3 New Pyramidal Yews—Result of years of work, hardy yews (new 1946) narrower than Irish yew! New shapes, new colors!

FLOWERING TREES

Franklinia, the only tree that blooms in fall. Sizes from \$2.00 and up. Also Japanese Flowering cherries, Chinese Crabs, Magnolias, Tree Lilac, Tree Azalea, etc.

Rare Dogwood Varieties—not just the white-flowering, but pink as well. Also Double-flowering (like white roses); also a form with yellow berries that the birds leave on a little longer than ordinary red berries.

FLOWERING VINES

A Wisteria that Really Blooms!—New Wisteria praecox blooms at half the age of other named sorts. Long blue clusters, vigorous grower. Also named Japanese forms. Chinese, etc. Better sorts of Clematis, Climbing Roses, Bignonia, etc.

FRUIT TREES

Standard Size Trees. Honestly grown, healthy, absolutely true to name. Ordinary two-year sizes as well as older; low prices. All the best varieties.

Espalier Fruits—Dwarf fruits grown to fit flat against walls or trellis. \$8.50 and up; all varieties.

Dwarf Fruits—They can be pruned, sprayed or picked without ladders. Groups should be selected for proper pollenization, and we offer a minimum selection of six:—2 Apples (Wealthy and McIntosh), 2 Pears (Clapp Favorite and Bartlett), 1 Plum (German prune), 1 Peach (Elberta). All 6 are 2-year size, fruit possible next fall, for \$23.00.

Older, already fruiting, we have a 5-year-old size in all but the peach. We offer five plants: 2 apples, 2 pears and 1 plum as above,—5-year-olds—for \$47.50. You may add additional varieties to the above collections, which take care of all basic pollenizing at the rate of \$3.75 for each extra 2-yr. or \$9 for each extra 5-year-old.

GROUND COVERS

Protect your banks from erosion with Vinca minor (root clumps \$9.50 per 100). Pachysandra under trees where grass will not grow—\$7.50 per 100. Many others to choose from.

PEONIES AND IRIS

Specially prepared lists for the beginner to choose from intelligently—and economically. Don't wade helplessly through thousands of meaningless catalog names. Real help here.

HARDY PERENNIALS

The best of the old, the best of the new. Arranged so you can quickly select and know what you are doing. Priced lower than most for top-quality plants.

RHODODENDRONS

Rhododendrons for 25 cents!—Native species in the smallest grade (12-15 inches) that can be safely handled with the smallest earth-ball, from 25c to 55c each, depending on quantity ordered. Heavier grade, too: 5 assorted 18 to 24 in. B. & B. \$12.50.

BROWNELL ROSES

New race of hardy (sub-zero) roses guaranteed anywhere in U.S.A. All colors. Climbers and bush-form. Sensationally easy to grow.

YOUNG TREES & PLANTS

More than 900 different evergreen and deciduous trees and shrubs, plants, etc., in small seedling and transplant sizes by the hundred and thousand. As few as ten of a kind can be bought in many kinds. In a few years they are worth many times the few cents they cost now. Why not start your own nursery for future plantings?

it has been tried on many kinds of grasses without injury, according to manufacturers Puratized, Inc., who plan to put their product on the market this spring.

One way to curb plant disease is to develop **resistant strains**. U. S. Department of Agriculture breeders have delighted growers in California's Imperial Valley by introducing muskmelons #5 and #6 resistant to powdery mildew. The popular melons resulted from crossing favorite varieties with an inedible but mildew-resistant melon from India.

Hormone sprays are used to thin blossoms on fruit trees, to delay blossom opening until frost danger is over, to prevent premature drop and to produce seedless tomatoes. Now S. H. Whittwer of the Missouri Station reports that yields of beans were consistently increased (20 to 40 per cent) by the use of another hormone material, p. Chlorophenoxyacetic acid. He is working on a hormone-insecticidal dust that will kill bean beetles and make for more or larger pods at a stroke. Such treatments increase set of fruit supplements, not substitutes, for pollination.

Bees remain nature's best pollinators. Among their many enemies is disease, of which **American foulbrood** is the most destructive. Breeders are working to develop high producing, gentle, good tempered bees that are also immune to disease. Already the U. S. Department of Agriculture has distributed throughout the country queens resistant to American foulbrood. The project is unfinished, the report states, but the breeding program continues to work toward other objectives.

EMPHASIS ON PETUNIAS

Continued from page 84

a choice of variety could be left up to color preference.

In addition to the new Colossal Shades of Rose double, there is small double-flowered America, excellent for bedding because of its compact dwarf habit. Its color is a true purple. Other doubles are being developed. They offer new colors and will soon beautify many gardens.

The American people are definitely flower conscious and they also recognize that advancements in plants are largely dependent upon the seedsman's integrity. In turn, members of the seed trade are making a greater effort to eliminate inferior and out-moded varieties and to maintain the purity of strains now listed. Catalogs are gradually being revamped and synonyms are disappearing. The millennium may not arrive for a few years but the home gardener can gain some pleasure from anticipation.

TUBEROUS ROOTED Begonias from CALIFORNIA

LARGE 2-2½" BULBS

These are the pick of the crop from the world-famous BEGONIA farms of California, where the best tuberous rooted Begonias are grown. Do not confuse with the smaller infested bulbs; these large tubers will produce big blooms this year.

COLORS: rose, pink, yellow, red, white, apricot, salmon

Send for SPRING CATALOG • Bulbs, Seeds, etc.

F. LAGOMARSINI AND SONS • Box 1115 M • Sacramento, Calif.

60 VARIETIES OF Plums, Pears, Apples, Peaches, Apricots and Cherries

Here's a unique Swiss development has been brought to America. Gen. Espalier Fruit Trees grow like vine trellises or against the side of house, garage or fence. Bountiful of beautiful blossoms, large delicious fruit. Minimum space and care required.

Get genuine U. S. Espalier trees from your nurseryman or dealer. United States Espalier Nursery Co., Portland, Oregon

U. S. ESPALIER TREES

GORGEOUS PENSTEMONS

Special offer 3 gorgeous different Penstemons—FRIBIRD, cherry crimson; GARNET, rich glowing carmine; PINK BEAUTY, lovely shell pink. \$1.50 value for \$1.40 postpaid. Order from this ad. Will ship planting time.

COLE'S 1946 PLANTING GUIDE. Colors, Instructions, 500 offers. FREE. (None sent west Rockies or deep South). Write Today, COLE NURSERY CO. 4003 W. Jackson Painesville, Ohio

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Charming, gorgeous, fragrant flowers! This 66 page book is crammed from cover to cover with descriptions and hints for successful gardening—seed offerings, cultural information for both vegetable and flower gardens. New varieties and old favorites. Add beauty, joy and better yields to your flower and vegetable effort. Write today.

2 Pkts. for 10c EXCEPTIONAL 2 for 1 of GIANT INDIAN SUMMER ZINIAS—A super cut flower bulb with bright colors. LETTUCE CURLED—Produce crisp, brittle, frilled leaves. Write today for Garden Book. THE HOLMES SEED COMPANY Box M Canton 2, O

NEW COLORFUL CHRYSANTHEMUM

Producing hundreds of flowers the first year. Write for FREE CATALOG. STERN'S NURSERIES, Dept. E, Geneva, N. Y.

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● Garden Ideas from California! New Home Orchard Fruits, new Roses, new Ornamentals pictured in Full Color! Describes and illustrates the West's largest garden selection. Get this big new Garden Book... order plants and trees early for delivery when planting weather is satisfactory.

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DOUBLE FRENCH LILACS

Other lovely shrubs, trees and flowering vines. Write for FREE CATALOG.
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Kelly FRUIT TREES SEEDS, ROSES and SHRUBS

Kelly Fruit Trees and other nursery stock are noted for vigor and "livability". Protect your investment of time and money by planting KELLY FRUIT TREES, STRAWBERRIES, RASPBERRIES, GRAPES, BLUEBERRIES, ROSES, SHRUBS and GARDEN SEEDS this year. Send for NEW 1946 CATALOG listing all the best varieties. It's FREE. We GUARANTEE SATISFACTION. Order early to avoid disappointment. Free Planting Guide sent with each order. Our 66th year.

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Excellent plants for winter blooming in conservatories. Send for our illustrated catalog with complete cultural directions for growing these delightful flowers. Special offer—4 plants for \$2.50 ppd. FRUITLAND NURSERIES, Box 910-H, Augusta, Ga.

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FREE Northern Grown. Finest varieties. Heavy catalog producing. Priced right. Free catalog. AHELIN'S NURSERY, Box 78, Bridgman, Mich.

Burpee's Giant SWEET PEAS

Special! 6 Packets of 6 Favorite Colors Postpaid 25¢
Scarlet-Cerise, Rose, Lavender, Blue, White and Cream-Pink—largest flowers, exquisitely waved and frilled, mostly four on each stem. Grown on Burpee's Floradale Farms. All 6 Packets of seeds, 1 of each color, (value 95¢) for only 25¢! For a larger planting, 6 Half-Ounces, 1 of each color, (value \$2.35) for \$1.
W. Atlee Burpee Co.
408 Burpee Bldg. OR 408 Burpee Bldg. Philadelphia 32, Pa. Clinton, Iowa

GROWING GLOXINIAS

COMMON Gloxinia may be termed a glorified African Violet, to which house plant it is closely related. The large, bell-shaped blooms are borne upright, giving full view into the throats, above handsome leaves.

Since its discovery in Brazil in 1825 the original gloxinia (*Sinningia speciosa*), which is a rather uniform purple, has been greatly improved by hybridizing. The flowers range in color from blue and purple through crimson and pink. Some varieties are dotted; others have tinted edges. There are double forms but they are considered novelties and are not particularly useful. Good named varieties include: Blue Wonder, Queen Victoria (pure white), Prince Adalbert (violet, bordered in white), Emperor Frederick (scarlet bordered in white), Frederic Venary (bright red with white throat), Crimson Glow (red).

Gloxinias may be grown to flower almost any time of the year. However, they do best when handled to bloom during the summer, their natural time. As they flower from seed in six or seven months, seed should be sown this
(Continued on page 93)

ESPALIERS

Continued from page 43

stubs receive another cut back. This pruning is designed to encourage the development of the buds on the spurs. To protect the spurs and fruit buds when harvesting fruits, separate each fruit where its stem joins the spur proper.

When pruning in winter, the new growth on the tips of each leader (main stem) is cut back to one eye. These shoots had been kept all during the growing season on the theory that they draw the sap to the outermost buds, which might not otherwise receive enough nourishment because of the drastic pruning elsewhere. By winter-time they have fulfilled their purpose and are pruned back to keep the tree within bounds.

It is important to follow a careful pruning schedule for apples and pears. Slip-ups in pruning plums and cherries are of less consequence. Irrespective of how they are pruned, the latter trees will form fruit spurs. In fact they tend to overbear.

Peaches, nectarines and apricots have a different fruiting habit from the apple group. In the peach and nectarine, fruit is borne not on spurs, but on the young growth of the previous year, and this bears only once. The apricot bears on spurs as well as on young shoots. Pruning here is aimed at removing old fruiting growth, promoting a constant supply of young shoots, and regulating the number of fruits.

Peaches begin to bear at three years, when a quantity of young fruiting growth is to be found on the main branches. These one-year shoots
(Continued on page 90)

For Your Garden Beautiful... 3 of the World's Loveliest Roses



MME. CHIANG KAI-SHEK

DOUGLAS MACARTHUR

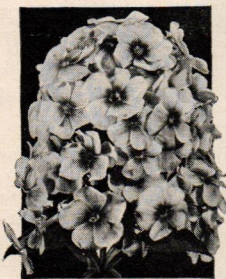
PEACE

"PEACE." Highest scored hybrid tea rose in the All-America Rose Competition for this year! The glorious creamy white blooms are of exhibition size—fully five inches across, with high-pointed centers and very double. The slowly opening buds of golden yellow pass through an enchanting range of delicate colors and culminate in great golden-hearted alabaster-like flowers edged in apple-blossom pink.

Flowers consistently throughout the season, each bloom borne singly on straight, strong stems above vigorous shining foliage. Hardy, disease-resistant. Plan to enjoy the sublime beauty of Rose "Peace" in your garden *this spring!* Price: \$2.50 each.

"DOUGLAS MACARTHUR" Very free-blooming hybrid tea rose; vigorous grower everywhere. Tulip-shaped buds open slowly into exquisitely proportioned flowers of blended rose, gold and salmon. Compact bushes; healthy dark green foliage. A true leader for your garden! Price: Each \$1.50—Dozen \$15.
"MME. CHIANG KAI-SHEK" For the place of honor in your garden: A superb yellow hybrid tea rose awarded All-America honors for 1944. Vigorous grower, perfectly proportioned blooms open slowly from long spiral buds; clear canary-yellow color, and distinctive perfume. Price: Each \$2.—Dozen \$20.

New Introduction—First Time Offered! SENSATIONAL GIANT PHLOX "OLYMPIA"



PHLOX "OLYMPIA"

Beautiful, bold, stately—Olympia Phlox is the forerunner of a completely new strain of Phlox! It grows up to 5 feet high and has stems 1/2 inch thick and rich green foliage entirely free of mildew.

The flower heads will enchant you. Big, open, airy, with white florets revealing deep, velvety, fiery red centers. As the bloom matures, the red coloring spreads over most of the flower, giving, at a distance, the effect of brilliant rose.

Plant this true American Hybrid Phlox this spring. Its distinctive size, complete hardiness and extraordinary beauty will bring you real joy and satisfaction.

Price: 3 for \$1.50—12 for \$5.

GET OUR NEW BOOK-CATALOG TODAY!

Newest and finest offerings in roses, flowering shrubs and plants—a great wealth of top-quality, pretested items of unusual interest. Nearly 200 pages with as many true-life color illustrations. Complete cultural instructions. To be sure of this outstanding book, it is necessary that you enclose with your request 25c, coin or stamps, to cover postage and handling costs.

Wayside Gardens
30 Mentor Ave. Mentor, Ohio
Reg. U. S. Pat. Off.

ESPALIERS

Continued from page 89

should be pruned during the winter. The purpose of this winter pruning is two-fold. About a third of the shoots are cut back sharply to induce replacement growth that will bear the following year. The majority are cut back half way to reduce the number of fruits that will form in the spring; this conserves the strength of the tree considerably and results in larger and better quality fruits.

Summer pruning is done soon after the peaches have formed and young shoots have sprouted—in late May or early June, depending on the locality. Remove all the young shoots below the fruits. Retain those above the fruits but cut their tops back about three inches. These top shoots are needed to draw up the sap to nourish the fruits. When the tree is pruned the following winter, the growths which have borne fruit, together with all their shoots, are cut back to two buds. The rest of the pruning is done as previously explained, to cut back replacement growths and reduce the fruiting ones. Space the fruiting growths about one foot apart on the main branches.

The same system of pruning is applied to the nectarine, which is really a peach without the fuzz. Apricot pruning, in the main, is fashioned after that of the peach, the difference being that

spurs, which form on the older wood are allowed to bear fruit. These spurs are short-lived (about three years) and are cut back to a strong bud, which, like the peach, will sprout replacement shoots.

Selection of kinds and varieties of fruits should be very carefully considered before an order is placed. Due to their mixed parentage, fruits may be resistant or susceptible to diseases and insects. For example, fire blight is a serious disease of pears. It can be avoided only by planting varieties resistant to it. Varieties Gorham, Secor, Kieffer and Clairgeau (Beurre Clairgeau) are quite resistant yet they may show different degrees of resistance according to the region in which they grow. Where the native Red Cedar (*Juniperus virginiana*) abounds, avoid planting Rome Beauty, Wealthy and other apples susceptible to cedar rust. The peach Rochester is subject to brown rot disease and should definitely be avoided where this trouble is prevalent.

And there is the matter of hardiness to consider. Peaches are tender in many regions; Marigold, Greenleaf and other relatively hardy types should be planted in cold regions where frosts are the rule.

The gardener will want to consider (Continued on page 91)

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Your Copy
NOW!**



HENDERSON'S 1946 SEED CATALOG VEGETABLES • FLOWERS • SUPPLIES

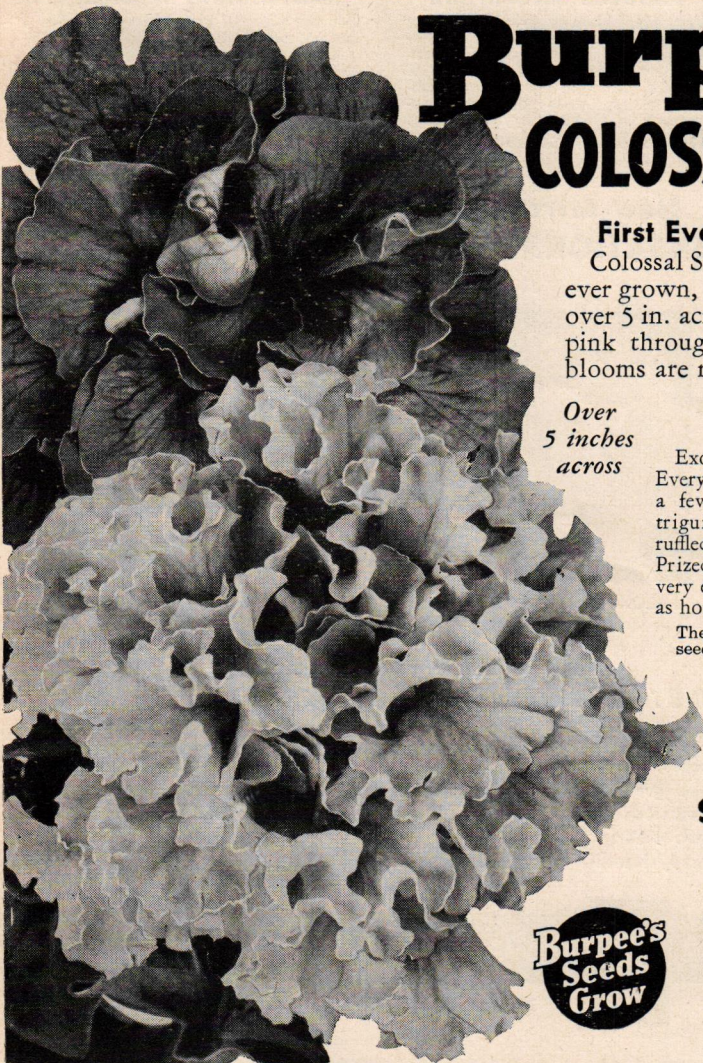
144 Pages—many in full color. Latest listings of the finest varieties of both flowers and vegetables. Valuable, down-to-earth information to help you get the most out of your garden. Make sure you get Henderson's selected, tested seeds—send for your free copy of our catalog now.



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35 Cortlandt Street, New York 7, N.Y. Dept. 36-A

Burpee's GIANT ALDOUBLE COLOSSAL Shades of Rose PETUNIA



Over 5 inches across

First Ever Created in America, Largest Ever Seen!

Colossal Shades of Rose are the largest Giant Alldouble Petunias ever grown, better than the prewar imported ones ever were, many over 5 in. across—in the loveliest pastels all the way from salmon-pink through rose-pink to deep rich rosy-mauve. The glorious blooms are radiant in the garden, enchanting in bouquets.

Exquisitely Ruffled and Fringed

Exotic as camellias and azaleas! Every flower is fully double. Even a few plants will supply an intriguing display—some pleasingly ruffled, others extremely fringed. Prized for beds and borders, also very effective in window boxes and as house plants.

The seed supply is limited, and very valuable. Order now to be sure, and get seeds started early for quicker blooms. **Packet (100 seeds) \$1.; 5 Packets \$4.50**

Very Profuse-Blooming

The vigorous plants grow 20 in. tall and nearly 3 ft. across, bearing their immense alldouble blooms in the greatest profusion and for a long season.

Lovely in Arrangements

Of all the flowers in your garden, none will win such admiration nor so richly adorn your home.

Winner of Highest All-America Award for 1946

In the nation-wide judging of new flower created for 1946, the All-America judges placed these marvelous Burpee Giant Alldouble Petunias above all others.



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70th Anniversary Seed Catalog **FREE**

In natural color on its front cover are Burpee's amazing new Giant Ruffled Snapdragons; more about Alldouble Petunias on p. 50; new Burpee Hybrid Vegetables on p. 3. 100 pages, all the best flowers and vegetables.



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415 Burpee Bldg. (Philadelphia 32, Pa. or Clinton, Iowa)
Send postpaid.....Packets of Seeds of Burpee's new Petunias Colossal Shades of Rose No. 2466. Enclosed is \$.....

Name

St. or R.D.

P.O. Zone if any State

Send Burpee's Seed Catalog **FREE.**

If now Burpee Custom please check here []

ESPALIERS

Continued from page 90

varieties from the standpoint of time of ripening, too, so he can have a succession of crops. Their suitability for canning is another point to keep in mind. New varieties are constantly appearing on the market, and their qualities should be compared with established favorites. For these and other questions the new fruit grower would do well to consult his state experiment station or a local authority before making a final choice.

Among the best varieties of fruits available in espaliered form are:

Apples—Alexander, Gravenstein, Red Astrachan, Jonathan, Yellow Transparent, Spitzenburg, Allington Pippin, Golden Renette.

Pears—Bartlett, Duchesse d'Angouleme, Flemish Beauty, Clapp Favorite, Beurre Hardy, Lawrence, (Doyenné) Boussock, Louise Bonne de Jersey.

Peaches—Elberta, Hale, Champion, Late Crawford, Vermont, Lady Susanne.

Nectarines—Newton, Boston, Surecrop, Napier.

Plums—Hall, Stanley, German Prune, Imperial Epineuse, Opata, Reine Claude.

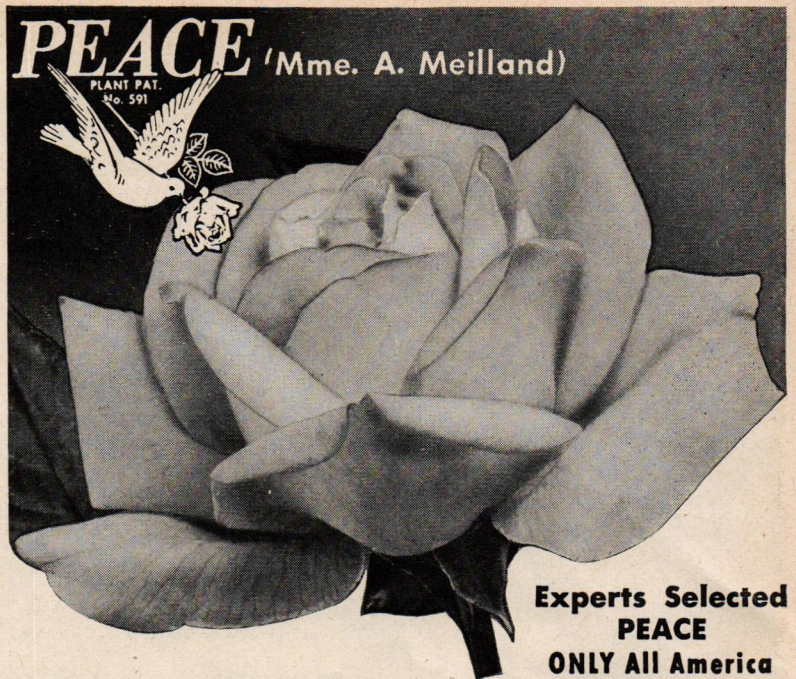
Apricots—Hungarian, Perfection, Blenheim, Moorpark.

Cherries—Seneca, Schmidt, Lambert.

Planting is successful in spring before growth begins, or in autumn after leaf-fall. To insure fruiting, pick locations in full sunshine. A rich soil is not needed: ordinary garden soil fortified with bone meal is suitable. What is important is that it be well drained.

In preparing the soil, dig a wide hole for the tree. Break up the subsoil and, if this is poor and of a clay texture, replace it with topsoil mixed with bone meal and firm it well. Set the tree so that the point where the graft was made (this is indicated by a swelling on the main stem) is well above soil level. If the graft is set below the soil, roots will grow from this point and defeat the dwarfing effect. If possible, select trees that have been grafted about four inches above the surface roots. Firm the soil well around the roots and give a good watering. In planting several trees in a row, set the horizontal and fan forms with a distance of two feet between the tips of the side leaders. The same spacing should be given between the upright leaders of the U-form.

An espalier should have a supporting framework built ten or twelve inches out from the wall or fence. Drive
(Continued on page 92)



Experts Selected PEACE ONLY All America Rose Selection 1946

Experts selected PEACE because it had the highest rating ever attained in the history of the A.A.R.S. Leading rosarians have made the following statements about PEACE—we quote: "exceptionally fine big blooms"—"kept blooming longer"—"buds unfolded so perfectly"—"the pink flush is something to see"—"massive plant"—"good foliage, sturdy stems"—"vigorous grower".

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Princess Aster—Princess Bonnie



Dianthus Westwood Beauty

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DEPT. 20

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easter lily
THE NEW ESTATE LILY



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INTER-STATE NURSERIES
3116 E. STREET **HAMBURG, IOWA**

ESPALIERS

Continued from page 91

spikes into the masonry or wood about a foot beyond the tips of the leader branches; or erect two posts of galvanized pipe and add a cross-piece attached by an L-nipple and flange. Fourteen-gauge wire can be stretched between the spikes or pipes at ten-inch intervals. Galvanized pipe or cedar poles, set ten feet apart, make end posts for trees planted in the open. The main leaders of the espaliers are attached to the supporting wires with raffia, tarred twine or insulated wire.

The foliage of espaliered trees is conveniently reached with sprays or dusts and therefore pest control is less of a problem than on standard-size trees. The amount of control necessary will depend on the locality and the kinds of fruit. Apples require more applications than pears to produce clean fruit; sweet cherries more than sour; nectarines more than peaches. The vigor of the trees and their general care will do much to influence their resistance to pests.

A program using a combination of spraying and dusting should keep the trees clean. Use the spray at critical periods and the dust in between, as necessary. As for a choice between methods of application, spraying is more thorough and lasting, but dusting is easier. Dusting is usually adequate for pears and may be for other

fruits as well if pests are comparatively low in the locality.

The following program is offered as a general guide to spraying espalier. The quantities of chemicals are for mixing enough water to make two gallons of spray. Apply immediately after mixing.

First or dormant spray, *all fruits*:

1 quart liquid lime-sulphur, or
10 ounces dry lime-sulphur powder

Second spray, *apples and pears* (after the blossom petals begin to fall, a proximately when about three-fourths have gone):

½ pint liquid lime-sulphur, or
4 ounces dry lime-sulphur powder
(about 4 tablespoonfuls to the ounce)
2 ounces arsenate of lead (for protection against wormy fruit)

Later applications of rotenone dust will discourage aphid and other insects.

Second spray, *peaches, apricots, plums and sweet cherries* (applied when the shucks fall from the tiny peaches):

2 ounces wettable sulphur
1 ounce arsenate of lead
1 ounce hydrated lime

Dust thereafter as for apples and pears.

NEW!

American Beauty
CARNATION!

HARDY—EVER-BLOOMING
LOADS OF GORGEOUS, SPICY
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 FRUIT

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GROWING GLOXINIAS

Continued from page 89

nth. Sphagnum moss is the best growing medium for the fine seeds and use avoids the damping-off disease. After sowing on moist sphagnum, the seed pan is covered with a sheet of glass to retain moisture. The glass must be raised slightly after germination to avoid overheating.

Seed Sowing

If sphagnum moss is unavailable, sterilized soil can be used instead. Make a mixture of equal parts garden soil, sand and leaf mold or peat moss. Bake the soil in the oven and bake in a medium-size potato. When the potato is baked, the soil should be free of any organisms that would harm the tender seedlings. Sow the seed and handle similarly to the sphagnum moss seed. The next step is to transplant the seedlings into a shallow box and space them several inches apart each way. When two or three leaves have formed, the seedlings may be potted up in four- or five-inch pots, in which they flower.

There are two other methods of propagation, by leaf cuttings and by tubers. As in the case of African Violet, the leaf-cutting method is rather slow. Cut a partly matured leaf and insert it in a sandy soil. Keep the soil a little on the dry side to promote rooting and the formation of tubers. When the

tubers have formed, plant the rooted cutting in a pot.

The tuber method of propagating gloxinias is the most practical for home gardeners because it involves the least work. Tubers should be planted this month or in February in an acid soil mixture composed of one part loam, one part peat or leaf mold, one part sand and one part well-rotted manure. Mix four level tablespoons of superphosphate to each peck of the soil mixture. This is the mixture in which to grow all gloxinias to maturity. In planting the tubers, set one-and-one-half or two-inch tubers with the crowns even with the soil surface.

Soil and Culture

This rich soil foundation eliminates the necessity of fertilizing gloxinias during the growing period. However, somewhat nicer blooms can be secured if plants are watered with manure water or fed with dried blood. A home gardener has reported that a gloxinia plant grown in steam-sterilized compost had leaves measuring up to five inches across and ten inches long, and produced twenty-two flowers.

The gloxinia prefers temperature and light conditions very similar to those of the African Violet. Grow in a
(Continued on page 94)

NEW CHEMICAL MARVELS RID GARDEN OF WEEDS AND PESTS



Apply in a fine spray; wet plant thoroughly

NOW, for the first time, Vaughan offers a remarkable new weed killer—Dandykill, which rids the average lawn of weeds without injuring grass. A form of 2,4D (growth regulating hormone), Dandykill acts as a selective weed killer when sprayed in proper strength on plants to be destroyed. Extensive experiments made last summer proved that, when used correctly, this new product is harmless to blue grass, red top and fescues.

Dandykill destroys weeds like poison ivy, bindweed, sumac, sheep sorrel, thistle, etc. Retards growth of white clover but is not effective against crab grass and may injure bent grasses. Fatal to buttercup, chaerophyllum, chickweed, cinquefoil, cress, dandelion, dock, fleabane, henbit, knotweed, lespedeza, lippia, moneywort, mustard, onion, pennywort, peppergrass, plantain, pussytoes, shepherd's purse, thistle, whitlow, etc.

Weeds should be sprayed when young and vigorous—dandelions just before they flower. U. S. government scientists say that weeds so treated die because food reserves are burned up. Thick dandelion roots become soft in three weeks and plant disintegrates entirely in about two months.

Dandykill is easy to prepare and use—suited to amateur use and ordinary spray equipment. Powder dissolves quickly in water, can be easily cleaned from spray equipment.

Full directions for using Dandykill on each package.

- 2 ounces (will treat 800 square feet) prepaid, 55c.
- 6 ounces (will treat 2,500 square feet) prepaid, \$1.
- 24 ounces (will treat 10,000 square feet) prepaid, \$3.
- 6 pounds (will treat 40,000 square feet) \$10.00, by express, charges collect.



Plants die in a few weeks, clear to the root tips

PROTEXALL FOR ALL INSECTS AND DISEASES

Every gardener will find in the new product—Protexall—protection for nearly every garden pest and disease. Thanks to new developments, which brought D.D.T., all gardeners in Protexall the sure help they have long needed. Extensive tests have proved that Protexall is valuable for check-disease without injuring delicate plants. Protexall is a one-shot spray or dust combines in one product four materials: D.D.T., Rotenone, Fermate and Sulphur. D.D.T. controls most chewing insects and many juice-suckers which defy pre-war sprays—leaf hoppers, fleas, European corn borers. Destroys with amazing

effectiveness Japanese beetles, cabbage worms, most caterpillars and beetles. Rotenone exterminates those pests unharmed by D.D.T.—Mexican bean beetle, aphids. Fermate has been used chiefly in greenhouses and garden experiments where it proved harmless to the most delicate plants. Reliable specific for black spot on roses, leaf spot on chrysanthemums, snapdragon rust, most scale insects, anthracnose of tomatoes and brown rot of cherries. Sulphur is added to take care of fungi and bacteria which Fermate will not touch. Use spray or dust, depending upon the equipment you have.

Ingredients are scientifically blended for maximum effect. Protexall Spray, 1 oz., 35c, prepaid 40c; 4 oz., \$1.00, prepaid \$1.10; 1 lb., \$3 prepaid; 5 lbs., \$12, by express, charges collect. Protexall Dust, 1 lb., 75c, prepaid 85c; 4 lbs., \$2, prepaid, \$2.25; 50 lbs., \$17.50, by express, charges collect. Vaughan's Gardening Illustrated, 1946, lists all the marvelous new chemical aids for gardeners, together with 2250 different flowers, and table quality vegetables; 250 illustrated in full color. Mailed FREE on request.

GROWING GLOXINIAS

Continued from page 93

night temperature of 60 degrees Fahrenheit and a day temperature of 70. A temperature above 75 degrees is unsatisfactory, encouraging spindly growth. An east window is a satisfactory location, but the gloxinia can be placed in a south or west window if it is set just out of direct sunlight. A plant set too far from the window gets long and spindly and generally doesn't bloom.

Since it is native to tropical America, the gloxinia needs fairly high humidity. This requirement may be difficult to fill in our heated homes, but plants may be set on wet pebbles or sand in a large container or tray to increase the humidity around them. Plants often grow well in the kitchen, generally more humid than other parts of the house.

Over watering is a common fault in the home care of gloxinias and causes them, like African Violets, to go to pieces. This can be avoided by placing ample drainage material in the container and by allowing the soil to dry out at the surface before giving more water. However, plants should never suffer from want of water. Continuous use of hard water may change an acid soil to an undesirable alkaline. Lukewarm rain water is the best to use.

Shortly after they are through flowering, gloxinias should be given a rest period. Water is gradually withheld in order to mature the leaves. When the foliage has turned a lighter green, the plants should be stored in their pots in a cool basement of about 40 or 45 degrees Fahrenheit. The following January or February the soil is removed from the roots, which can then be repotted in fresh soil.

Plants that are kept growing vigorously in the recommended environment are unlikely to be bothered by pests. However, there are three or four that are occasionally troublesome. Sometimes the leaves turn a shiny brown. A hand lens will disclose the presence of mites, tiny pests that stunt the young leaves and buds. A cure is extremely difficult under home conditions and it is best to discard infested plants.

Most common pest

Thrips are probably the most common pest on gloxinias. Slightly larger than mites, these slender insects can sometimes be detected by the naked eye. They cause rough, rusty spots, usually between the largest of the leaf veins. The leaves and flowers may have a sil-

(Continued on page 95)

1946 SEED ANNUAL

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With the renewed interest this year in more extensive decorative planting, here is the catalog you will want. 132 pages, 16 in full color, of the newest and finest Seeds, Bulbs and Plants, many introduced by us for the first time this year.

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During 1944 and 1945 scientists extensively tested DDT in the field on potatoes to see if it would control the potato leafhopper. They found that DDT, even when used at a concentration as low as three-quarters of a pound of actual DDT to 100 gallons of water, not only controlled the leafhoppers, but *practically eliminated them*. Examinations of the plants showed little or no signs of leafhopper damage. This was good news, but better still was the finding that plants sprayed with DDT were twice the size of those sprayed with Bordeaux mixture or those not sprayed at all and yielded *twice as many potatoes*.

Besides controlling the leafhoppers, DDT will control the Colorado potato beetle and will give partial control of aphids. Further, it is compatible with Bordeaux mixture and the fixed copper fungicides such as Compound A, Tribasic copper sulfate, and Cuproside and with the new organic fungicides such as Zerlate (zinc dimethyl dithiocarbamate) and Dithane plus zinc sulfate-lime.

The potato is one crop on which there is no danger to human beings from the use of DDT as the part eaten is not sprayed. J. W. H.

GLOXINIAS

Continued from page 94

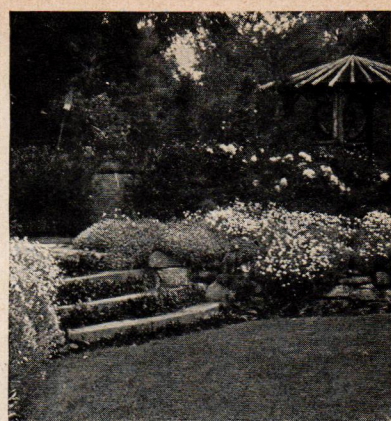
very cast and may appear deformed.

Rotenone should eliminate both thrips and aphids. Pyrethrum spray may be used for thrips provided the directions on the container are carefully followed; do not use it on seedlings or on plants ready to bloom. If neither insecticide is available locally, use the cold water method of eliminating thrips. This should be done in the morning. Hold the plant upside down and immerse the entire top in water. Move the plant gently around in the water to dislodge the thrips. Discard the water after use. Repeat this operation every seven days until the plants are clean.

Downy mildew sometimes is found on gloxinias. This disease causes the leaves to soften and turn dark brown, and the tubers may show rotted areas. Usually the plants collapse and quickly die. To avoid this trouble, grow the plants from seed or from healthy tubers. Avoid overwatering and never use cold water. Give plants ventilation without direct drafts.

Brown rings with green centers on leaves are the symptom of spotted wilt disease, which ultimately causes the leaves to die. Destroy all plants infected by this disease. Keep thrips under control as they are known to spread the disease.

L. C. GROVE



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Continued from page 34

without adding much to upkeep. An arbor connecting house and garage is one way to tie in parts of the design. Another useful addition might be a hedge or fence to give privacy to the terrace. Or the service area can be compacted, giving more space for lawn and flowers.

There may be an opportunity for utilizing waste space. A partly shaded area at the side of the house can be turned into a bird sanctuary, planted to evergreens and berried shrubs that make a nice composition when viewed from a window. To a vacant garden corner can be added a small shade tree and bench that will offer welcome refuge to weary gardener and to visitors. Getting down to plant details, Father Hugo's Rose will be far more attractive if the ground beneath it is planted to forget-me-nots and dwarf iris that bloom in company with its single yellow flowers.

Fortunate is the owner of a garden with a satisfactory basic plan. His main concern will be in the finishing touches. Viewed at this season two or three overgrown shrubs may be the only wry elements. In a small garden a Virginal Mockorange (valuable as it is in a large collection of shrubs) may be overbearing. Handsome as a specimen only when in bloom, it could well be replaced by a dwarf tree or one of

the viburnums, whose saucer flowers, fruits, fall color and structure give interest over a greater span of the year. If there is an overbalance of deciduous shrubs, evergreens can replace some of them to give more winter color.

Perhaps the shrubs themselves are desirable but they have outgrown their locations. The gardener will have to decide whether to prune them back or to replace them. Some shrubs make a remarkable recovery after heavy pruning, notably the lilac and tough shrubs like the forsythia. But many never fully recover and, considering the comparatively reasonable prices and rapidity of growth of young specimens, it may be better to invest in a few new ones instead of beheading old shrubs and waiting two or three years for them to make a comeback—if they ever do. Before placing an order make a final check on types desired and investigate improved varieties—such as Bristol Ruby Weigela, orange-yellow *Azalea atlaclarensis*, Forsythia Spring Glory and Hypericum Sungold.

Flower borders

The flower borders may be in a good location but out of proportion with the lawn and background planting. The most pleasing widths should be worked out and stakes driven at the

(Continued on page 97)



By Appointment
Seedsmen
to H.M. the King

SOW SUTTON'S RENOWNED SEEDS

Fill your garden with the same gorgeous blooms which have made England flower-famous. Our catalog describes hundreds of Sutton's flowers, known throughout the world for their sturdiness, magnificent size and brilliant color.

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'FESTIVAL' Only Red Hybrid Tea Rose Without Thorns

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SOIL HEATING CABLE for hot-beds—coldframes—unheated green-houses—plant benches. Will last for yrs. No failures. Money back guarantee. Operates from household current. Adjustable thermostat has pilot light.

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Bargain offer—three superb sweet violet Prince of Wales, (purple) Rosina, (p) Royal Robe, (violet) \$1.55 value, all 3 for \$1 postpaid. Order from this ad. Will ship at planting time.

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Lemons Weigh 1 to 3 lbs. Also Dwarf Orange Here, at last are two of the most unique and useful in plants ever offered. Both plants have large, beautiful, yellow, fragrant blossoms. Then, imagine it—the thrill of ing and using mammoth high quality Lemons, often weigh 1 to 3 lbs. One lemon enough for several pies. Dwarf Orange are delicious. More fully described in our catalog of 100 bargains in plants, trees, and shrubs. Write today your free copy.

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Order Now! Direct From This Ad. Plants sent, postpaid, at planting time.
2 Your choice from any one of the six color groups above, postpaid \$1.50
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Dept. H. Moorestown, N. J.

MAGNOLIA TREES

with flower buds to bloom for you this spring.
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REPLANT NOW

Continued from page 96

first opportunity to mark them. In connection with renovating the borders, plan ways to save time on routine work next season.

A permanent edging will eliminate hours with line, reel and edger, and will also give a sprucer appearance to the border. A double row of bricks is one solution—the inner row placed upright and tight against the outer row that is laid flat and flush with the lawn so the mower can go over it. Even a row of boxwood or other neat edging plant saves work, for it keeps the perennials within bounds and out of the way of the mower and hides any irregularities in the edge of the grass.

In a study of border combinations and other details, plant diaries and photographs, especially kodachromes, come in handy. All gardeners are prone to crowd plants and include too great variety from the years' accumulation. And, worse yet, they cling to old varieties, probably more from habit than from sentiment. At any rate, this is a good time to take an inventory of herbaceous plants in an effort to make the most of the finest kinds. If the border is very narrow, two or three main flowering periods may be all that can be satisfactorily squeezed out. The wider the border, the greater can be the variety of plants. With long-blooming,

relatively permanent perennials chosen as the mainstay of the border, the gardener can plan to give away the extras and discard poor types. Improved varieties with handsomer flowers, longer blooming periods and better habits of growth can be ordered for spring delivery.

New varieties

Even if a final choice of existing plants must wait until the plants bloom again, the gardener can study up on new varieties (see check list of new plants, page 98) during the winter. If other garden work precludes renovating all borders in the spring, he can remake at least a section. "Remake" is the word, because digging up and re-setting plants is actually easiest—and certainly the most satisfying—way to shape up a border where weeds have become discouragingly tangled with perennial roots.

Finally, the gardener can look over the architectural features of his garden, particularly the furniture. Even if it is good from the standpoint of use, a staining or coat of paint (not a raw green, but a soft earthy grey or brown that will recede and let the flowers carry the color) will doubtless be needed. This is another immediate chore for pent-up garden ambition.

AT LAST!

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KILLS DANDELIONS, PLANTAINS AND MOST OTHER LAWN WEEDS WITHOUT INJURING GRASS!

"DANDYKILL" is sold as a powder, which saves shipping weight. It is completely soluble in water, which makes it easier to prepare and use.

While most generally effective in one application against weeds—dandelions, chickweed, ragweed, pigweed, narrow-leaf and broad-leaf plantain, annual morning glory, Japanese honey-suckle, thistle and many others—it will not injure or even discolor blue grass, red top, or fescue, the principal lawn grasses. It will kill or seriously retard the growth of white clover.

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24 ounces (will treat 10,000 square feet) prepaid, \$3.
6 pounds (will treat 40,000 square feet) \$10.00, by express, charges collect.

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For control of most every plant insect and many species of plant fungi. Correctly and regularly used, it should efficiently protect the garden from cabbage worms, leaf rollers, cut worms and other chewing insects; thrips, tarnished plant bug and other sucking types, Jap and bean beetles; black spot of roses, septaria leaf spot of mums, rust of snapdragons, scale scab and fruit spot, brown rot, etc.
4 oz. \$1.00 32 oz. \$3.00 5 lbs. \$12.00

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Value \$3.70
Eugene A. Wander (Yellow) Burgundy (Red)
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Enclosed is \$..... Send postpaid plants checked in quantities indicated.
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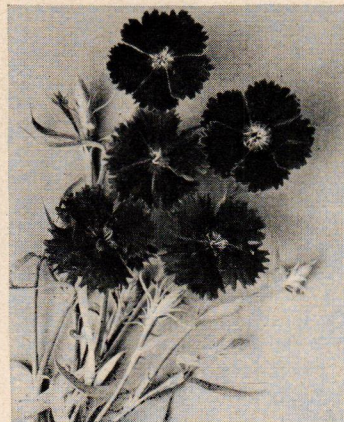
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World's Largest Rose Growers

1946 PLANT CHECK LIST

EVERY year seed and nursery catalogs feature novelties of the current year. Here is a summary, by type plant, of the things that make 1946 horticultural news. A postal addressed to our Reader Service will bring you information on their sources.

ANNUALS

COSMOS YELLOW RUFFLES: flower form similar to Orange Ruffles, with a double row of petals; early; 3' tall.
DIANTHUS WESTWOOD BEAUTY: fringed flowers to 2½" across in shades of crimson; 14" tall; winner of honorable mention, All-America Selections.



Dianthus Westwood Beauty

MARIGOLD BURPEE GOLD IMPROVED: bright orange carnation-like flowers, odorless foliage; 2½' plant.

MARIGOLD VICTORY: yellow-orange, frilled carnation flowers; 2' tall.

PETUNIA BRIGHT EYES: pink, white-throated flowers on compact 9" plant; All-America bronze medal.

PETUNIA COLOSSAL SHADES OF ROSE: fully double flowers in shades of pink; 20"; All-America silver medal.

PETUNIA PEACH RED: flowers of unusual pink on compact plants to 15"; an All-America honorable mention.

SNAPDRAGON IRISH MELODIES: new strain of unusual bi-colored flowers in many shades; plants vigorous.

TETRA SNAPS (Giant Ruffled Tetraploid Snapdragons): large flowers in many colors; leathery leaves; 2½' tall.

SWEET PEA WAVES: mid-blue ruffled flowers; plants resistant to mosaic.

BULBS AND TUBERS

DAHLIA novelties number among the dozens each year. Some of 1946's best are:

Ray Smith: large semi-cactus, lavender.

Mrs. Hester Pape: reddish purple large informal decorative on heavy stems.

Five Star General: large formal decorative, blend of pink and cream.

Lakeside Beauty: medium size formal

(Continued on page 99)

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77th Anniversary Planting Guide and 1946 Catalog

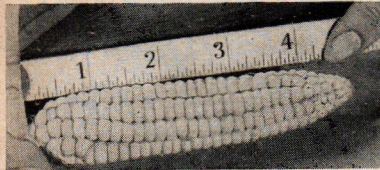
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A Kennedy Introduction



No Garden Too Small

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2½ Oz. Pkt., \$1.00 Postpaid

Enough for five 50 ft. rows

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Selected Vegetable and Flower Seeds

Fine clean stock. Moderate prices. Send for Free Catalog to

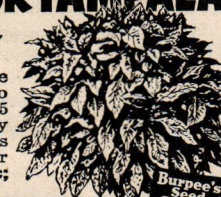
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Burpee's Seed Catalog FREE

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Bridal Wreath 12 1/8"
Roses, Evergreens, Fruit Trees, Hardy Flowers, Bulbs, Shade Trees, Quality Guaranteed

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A burglar's loose!—But while I'M here, My Toro's safe . . . what's there to fear?

TORO

POWER MOWERS

TORO MANUFACTURING CORP'N, MINNEAPOLIS, MINN.

GIANT PACIFIC HYBRID DELPHINIUMS

Heavy one year plants. Best mixed colors. Finest variety for cut flowers. Ten plants \$5.00 value for \$2.25 postpaid. Order today from this ad. Will ship planting time.

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the delight of European gardens, now available in America.

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For over a generation we have been supplying the leading landscape gardeners with peonies and this is our introductory retalloffer: For \$5.00 we will send postpaid anywhere in the United States, twelve peonies in red, white and pink, consisting of the world's best varieties, including such varieties as Festiva Maxima, Edulis Superba, Felix Crousse, Karl Rosefield and Sarah Bernhard. Peonies are perennial, fairly free of disease, bloom better as they age and require little attention. Just plant them and watch them bloom. Every garden should have some peonies.

PHIL LUTZ PEONY FARMS
BOONVILLE INDIANA

BEARING-AGE BLUEBERRIES

with fruit buds, ready to bear this summer

Write for FREE CATALOG.

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for Spring planting and Fall blooming

GENTIANA SINO-ORNATA—July-Oct. ea. \$1.00, 3 for \$2.50.
GENTIANA MACAULAYI—Well's variety July-Oct. ea. \$1.00, 3 for \$2.50.
GENTIANA SIKOKIANA—Sept. to end of Nov. ea. \$1.00, 3 for \$2.50.

These beautiful dwarf creeping gentians are easily grown in gritty acid soil, open shade and a bit of moisture. Catalog on request.

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ORNAMENTAL FRUITS

SCARFF'S Edible Fruits for ornamental planting— for Utility and Striking Beauty in your landscape planting. Large cultivated Blueberries, Juneberries, and Poorman Gooseberries, Large Red Lake Currants, Bush Cherries, Dwarf and Standard Fruit Trees. Also many NEW and RARE SHRUBS, Winter Flowering Witch Hazel, Everblooming Lilac, Red Oriental Maple. Complete List of Fruit Trees and Berry Plants for general planting. Catalog-Cultural Guide FREE.

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Bears heavily this year. Also smaller sizes. Full Line of Nursery Stock.

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6 Different colors—Yellow, Brick-Red, Bronze, Pink, White and 1 Blue Fall Aster. Thousands of blooms 1st year.

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FRUIT TREES ORNAMENTALS

Offered by Virginia's Largest Growers of Fruit Trees and Berry Plants. Write for Free Copy Low-Price Illustrated Catalogue listing the better varieties of Fruits and Ornamentals.

WAYNESBORO NURSERIES, Box 7, Waynesboro, Va.

1946 PLANT CHECK LIST

Continued from page 98

decorative, blend of rose and cream.
Chips: miniature semi-cactus, yellow tipped with red.

Favorites of the past two years include:
Joan Frenz: chrome yellow semi-cactus.

Jane Lausche: informal decorative, bi-color lavender with white tips.

Ogden Reid: deep pink formal decorative.

Clover: white pompon with lavender blush.

White Faun: miniature formal decorative.

GLADIOLUS varieties within the price range of home gardeners for the first time this year include: *Leading Lady* (cream white sport of Picardy), *Lantana* (orange); *Martha Deane* (yellow), *Elizabeth the Queen* (lavender), *Miss Wisconsin* (rose), *Connecticut Yankee* (pale pink), *King Click* (red), *Red Charm* and *Purple Supreme*.

ESTATE LILY: similar to the Croft strain of Easter Lily but will grow outdoors in most sections; to 3'.

PERENNIALS

Buddleia Peace: pure white spikes of flowers to 16" long; this dieback shrub grows to 6' in height.

CHRYSANTHEMUM CHIPPEWA: mallow-purple with incurved petals; 2'; very hardy.



Buddleia Peace

CHRYSANTHEMUM ELIZABETH GORDON: one of the popular spoons, a garnet-red with gold center; midseason; to 3'.

CHRYSANTHEMUM MARGARET ARLEN: salmon-bronze decorative; mid-season; 3'.

CHRYSANTHEMUM PRINCESS: flowers of this baby azaleam vary from light orange to coral; 1' tall; 1½' across.

IRIS varieties—among the 1946 introductions (priced for collectors only) are:

(Continued on page 100)

COOK'S Imperial AMERICAN CHAMPAGNE

Wines of Distinction

AMERICAN WINE CO., ST. LOUIS, MO., EST. 1859

CALIFORNIA Vernonware

Chintz

"I am the pride of an old California family, steeped in the colorful romance of the fiesta."

Chintz belongs to the aristocratic California Vernonware family—America's finest line of semi-porcelains.

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CLAY PIPE

IN FARGO, N. DAK.: 95% OF THE OIL-O-MATIC OIL BURNERS INSTALLED IN THE PAST 20 YEARS ARE STILL ON THE JOB

WILLIAMS OIL-O-MATIC HEATING BLOOMINGTON, ILLINOIS

1946 PLANT CHECK LIST

Continued from page 99

Helen McGregor (azure blue), *Cotillion* (white), *Thunderhead* (white), *Admiration* (yellow).

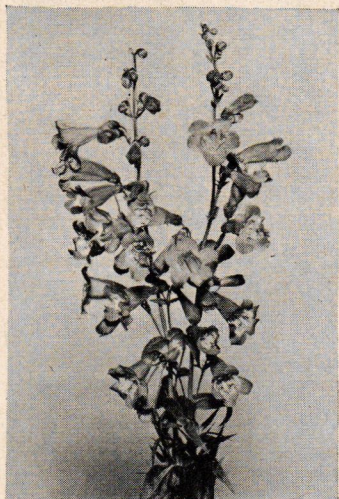
IRIS varieties now within the price range of home gardeners include: *Lady Mohr* (cream and lilac), *Alpine Glow* (pink blend), *Bandmaster* (powder blue), *Chivalry* (medium blue), *Ola Kala* (bright yellow), *Extravaganza* (cream-white and red-purple), *Spindrift* (coral pink).

LYTHRUM MORDEN'S PINK: a Purple Loosestrife of soft pink; 2½' tall.

PENSTEMON RUBY KING: ruby-red, white throated 2" flowers; to 2' tall.

Edith Willkie: pink, suffused yellow. *Ernie Pyle*: a warm rose-pink.

Festival: the first thornless red Hybrid Tea; large, double flowers slightly more vivid than the E. G. Hill, of which it is a sport. Has been tested through ten generations and shows no tendency to revert to the thorny type. Gives excellent September bloom; foliage dark green and resistant to leaf spot. Climbing Festival, also free of thorns, has been developed from the bush form.



Penstemon Ruby King



Festival



Best Regards



Phlox Olympia



China Doll

PHLOX OLYMPIA: florets white with bright red centers; gives rose effect; foliage without mildew; to 5'.

ROSES

Best Regards: red petals shading to yellow, with rose on reverse side.

Blue Horizon: very double blue-red.

China Doll: clusters of tiny bright pink roses; almost thornless; bushy. As many as 250 flowers at once; seldom without blooms during season.

City of York: climber with creamy white double flowers; can be grown as a hedge, without support. Gives almost solid mass of bloom, from tip to ground, in May and June.

Colleen Moore: deep red; to 2½' tall. *Debonair*: medium yellow; mildew-resistant.

Goldilocks: the first yellow with true Floribunda habit; fragrant.

Melody: pink, silver edged.

Peace: yellow to cream-white flowers, pink edged; All-America winner.

Pink Bountiful: buff pink; red buds.

Velvetier: deep red; very hardy.

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THE TURN OF THE WORM

This lowly plowman is a fine thing in the garden, says horticulturist Jean Hersey

WHEN someone told me that if you planted worms in your garden you'd have twice as many vegetables—that all crops would be earlier, lawns greener, flowers more abundant, and that the soil would be permanently improved, I didn't believe it either. A worm to me was a bit of wiggle that you curled onto a fish hook, something you saw plenty of after a rain and fed to the pool fish and that was all.

But the worm has come into its own. This humble creature that few of us thought much about has taken a foremost place in horticulture. You'll have to go out in the garden and eat something different when your spirits sink, for a worm is too valuable to waste.

If you put worms under your strawberry plants, you will harvest sixty quarts in a single season in the same space with the same number of plants where you now harvest thirty quarts. Take two identical small fruit trees and plant them on the same day. The one with the handful of worms among its roots will make two and a half times as much growth as the other. An elm tree planted on worms will grow three times as tall in a few years as one planted in the same soil and location

but without worms. I know all this can happen for you because records show it has already happened in a certain garden in Worthington, Ohio.

About seventy-five years ago a lad named Georgie Oliver began observing worms on his grandfather's farm in Ohio. These early observations convinced him that an earthworm was a fine thing in a garden. When he grew up he became vitally interested in the subject of earthworms and spent much of his life conducting experiments which proved their value in horticulture. Dr. George Sheffield Oliver (as he was then known) crossed the Brandling, the home-loving worm that eats compost and garbage, with the deep orchard worm that thrives on dirt. The resulting hybrid combines the best characteristics of both. He stays home and eats dirt. And a few thousand will send your garden into such a fury of growth and production as you never dreamed possible.

Bernice Warner, in Worthington, Ohio, took over where Dr. Oliver left off. By day she is a bookkeeper in a large paint factory, but at night and weekends she raises worms, experiments with them in her garden and

(Continued on page 102)



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Old Angus Brand Blended Scotch Whisky, 86 Proof
National Distillers Products Corporation, New York

THE TURN OF THE WORM

Continued from page 101

counts them out to mail to her customers. Counting worms may seem like a tremendous task but Miss Warner says not at all. She'd rather count worms in the evening (and she does this just as you and I would, by hand) than type the responses to the letters she gets about them from all over the world! Besides, they exude an oil which she says is very beneficial to the hands.

In 1938 Miss Warner invested one hundred dollars in the hybrid worms and began experimenting in her own garden. Her tomato crop has doubled with the same number of plants. All her vegetables produce incredible yields and the quality and unbelievably large numbers of flowers in her garden draw visitors from all over the country.

Since 1938 Miss Warner has shipped worms to all but three states. Twenty-five thousand were shipped out last month. Her largest single order was eighty-two thousand to one person.

These earthworms will eat practically anything from burlap to garbage or just plain dirt as they wander through the soil. For the most part they live on dead organic matter—old roots and leaves and vegetable matter. After being digested, these things are soluble and immediately available as

plant food. Thus they give back to the earth what grows in it. When they eat plain soil the digested grains of dirt are broken down and made available as food to nearby roots. Soil with worms in it can never be exhausted.

It's interesting how the Soilution worm works and lives. He progresses through the soil, sometimes eating his way and sometimes burrowing but never moving more than a couple of feet from where he was originally planted. If you have 50,000 worms in an acre (and it's not difficult to get this many in a few years as they multiply fast), the quantity of earth passing through their bodies would amount to ten tons—ten tons of perfect soil in the making.

Worms lead a lonely sort of existence. Only at night do they see life and commune with their compatriots. It is then they come up out of their runs, stretch incredible lengths in all directions.

A sensitive creature

A worm is a most sensitive creature. The least tremor of the ground frightens him back into his hole where he goes with a soft sucking sound. The reason he comes up in a rain is because he needs oxygen and the water is
(Continued on page 103)



PRACTICAL... AND SO SMART!

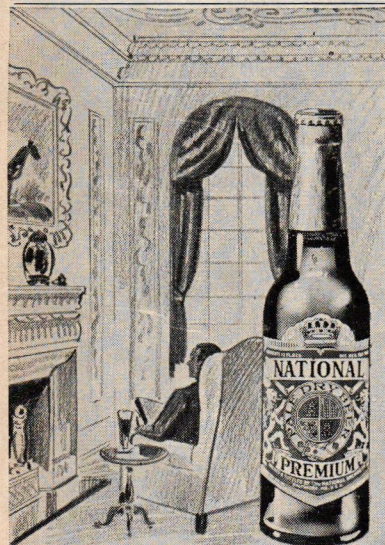
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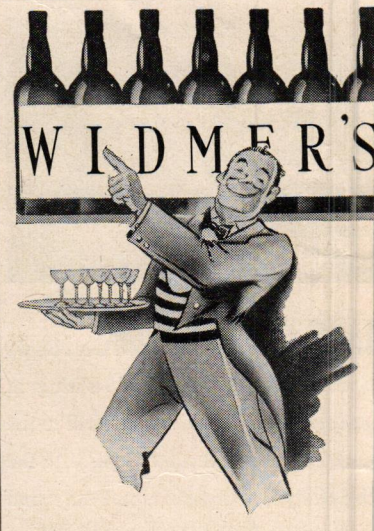
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THE TURN OF THE WORM

Continued from page 102

likely to flood his hole, cut off his supply and prove fatal.

You can't make two worms by cutting one worm in two as many people believe but if a fat robin dines on a worm tail, all else being equal, the worm is likely to generate a new tail but will never reproduce again. If you study a worm closely, you will see hook-like bristles all over his body. It is by means of these bristles as well as his highly developed muscular system that he moves along.

A worm is both male and female but still the individuals must fertilize each other. Up near the head is a thickened ring around the bodies of worms of reproducing age. Our hybrid worm is a prolific breeder, throwing off a capsule every four or five days from which hatch three to sixteen worms. The capsules are deposited under stones or chunks of manure. They take twenty-one days to hatch, and the young worms are completely independent and able to forage for their own food immediately. A worm matures in eighty to ninety days and lives about twelve years in the soil. Worms multiply so rapidly that if you buy a few hundred, you will soon have many thousands. One man bought 3,500 worms for \$25.00 and put them in his compost pit. Two years later he had 20,000 or more.

The best way to establish worms in your garden is to buy a few thousand and put them in your compost. From here shovel them out into the earth as you plant. You can also build a special compost for breeding them—a sort of master bedroom. Dig a hole about six feet across, three feet wide and three feet deep. Put about a foot of leaves, manure, or compost in the bottom. Set the worms in the box they come in in the center of the hole, surround it with dirt and cover it with more leaves and compost. There must be some animal manure in this hole to start. (Incidentally, you should leave the worms in the "master bedroom" a year at least if you start with 1,800. Of course, if you start with several thousand, you can begin taking them out in a few months.)

Worms breeding in the compost turn it rapidly into rich black loam. Anything from corn husks to piecrust is transformed in a mere couple of months.

If you start out with a few thousand hybrid worms in the garden, they will multiply rapidly year after year. Meanwhile, you will have living organisms thriving on decayed animal and vegetable matter, always working and keeping the root systems clean and chemically changing the soil for plant consumption.

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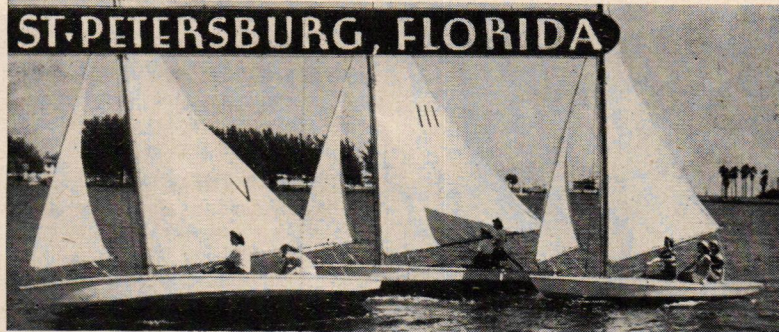
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CREAM CITY WARE Since 1880

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Warm Basement Rooms

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This FIREPLACE CIRCULATES HEAT

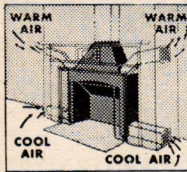
Build a Heatilator Fireplace in your basement room and enjoy healthful heat that quickly floods the entire room. That's because this fireplace actually circulates heat—draws cool air from the floor, heats it, and returns it to far corners, assuring

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HEATILATOR FIREPLACE

BALLET ON A PLATTER

Grown from a novelty to a national institution, the ballet inspires a host of good recordings

THE ballet is touring and taking the country, with both The Ballet Theatre and the Ballet Russe de Monte Carlo making the grand circuit from coast to coast. Pas de deux, entrechat, jeté and pointes are part of this winter's language and ballet music has a new and enthusiastic audience.

The music for many of the ballets in this season's repertoire has been recorded so that the balletomanes may catch and hold their enthusiasm in repeat performances at home. Following is a list of current good records with the ballets which are being danced to them:

FIREBIRD—Igor Stravinsky's "The Firebird" suite played by NBC Orchestra, Stokowski conducting on Victor's DM-933, \$3.50. Also by All-American Orchestra, with Stokowski on Columbia's M-MM-446, \$3.50.

GAITE PARISIENNE—danced to Offenbach's music. By London Philharmonic, Kurtz conducting on Columbia's X-MX-115, \$2.50.

LES SYLPHIDES—danced to Chopin's music played by London Philharmonic, Malcolm Sargent conducting on Victor's DM-306, \$3.50.

LILAC GARDEN—Chausson's "Poème" played by Symphony Orchestra of Paris with Yehudi Menuhin on Victor's records 7913-7914, \$1 each.

L'APRES-MIDI D'UN FAUNE—danced to Debussy's classic played by Philadelphia Orchestra, Stokowski conducting on Victor's Red Seal record 17700, \$1.

PETER AND THE WOLF—danced to Prokofiev's music played by Boston Symphony, Koussevitsky conducting, on Victor's DM-566, \$3.50. Also by All-American Orchestra, Stokowski conducting, Columbia's M-MM-477, \$3.50.

PETROUCHKA—danced to Stravinsky's music played by Philadelphia Orchestra, Stokowski conducting on Victor's DM-574, \$4.50. Also by New York Philharmonic, Stravinsky conducting, Columbia's X-MX-177, \$2.50.

PILLAR OF FIRE—"Transfigured Night" by Schönberg played by St. Louis Symphony, Vladimir Golschmann conducting on Victor's new ADM-1005, \$4.50.

SCHEHERAZADE—danced to Rimsky-Korsakoff's music played by Cleveland Orchestra under Rodzinski on Columbia's M-MM-398, \$5.50. Also by San Francisco Orchestra, Pierre Monteux conducting on Victor's DM-920, \$5.50.

SPECTRE DE LA ROSE—Weber's "Invitation to the Waltz" played by Philadelphia Orchestra with Stokowski on Victor's Red Seal 15189, \$1.

SWAN LAKE—danced to Tchaikovsky's Opus 20 music, excerpts of which are played by London Symphony, Dorati conducting on Columbia's M-MM-349, \$4.50. Victor has excerpts played by St. Louis Symphony under Golschmann, scheduled for release in February, 1946.



A first-album for new balletomanes is RCA Victor's C30 "Nights at the Ballet" which has excerpts from "Carnaval", "Les Sylphides", "Swan Lake", "Spectre de la Rose", "Prince Igor", "Tricorne", "Petrouchka", "Scheherazade" and others by the Light Symphony Orchestra under Walter Goehr, \$3.50.

Listening to this music at home will bring back all the colorful excitement of the staged ballet and it will also create in the listener a pattern of imagining. It's quite natural and almost inevitable to find yourself dreaming up new ballet variations while you listen. It's the same sort of imagery that Disney made graphic in "Fantasia" with those beautiful animals dancing Beethoven's "Pastoral", and the Sorcerer's Apprentice working time and a half overtime.

Once you get the habit of doing your own choreography to music you will find many passages which have never been danced but obviously make for ballet, and your imagination. Here are some fine recordings of such music waiting to be embroidered with the boy-girl-villain motifs of the ballet.

TILL EULENSPIEGEL'S MERKEL PRANKS by R. Strauss, the new red unbreakable plastic records on Victor with the Boston Symphony under Koussevitsky, DV-1 at \$4.50.

SYMPHONIE ESPAGNOLE by Lauro Oliva played by Symphony Orchestra of Paris, Enesco conducting with Merin, soloist, Victor DM-136, \$4.50.

SYMPHONY #5, from the New World, by Dvořák, Rochester Philharmonic with José Iturbi conducting, Victor's DM-899, \$5.50.

TOCCATA and FUGUE IN D MINOR by Bach, Stokowski and the Philadelphia Orchestra on Victor's 8697, \$1.

SYMPHONY #7 IN A by Beethoven, New York Philharmonic with Toscanini conducting on Victor's DM-349, \$5.50. (Try the 2nd and 3rd movements for ballet patterns.)

TAPIOLA by Sibelius, The Boston Symphony under Koussevitsky on Victor's DM-848, \$2.50.

All prices are exclusive of tax. If you are a balletomane, tyro or old hand, you'll find that listening captures much of the original enjoyment of your favorite ballet.

—TURNTABLE