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

Contents for January, 1946

Gardening

Catalog Gardening—Ideals for better gardens.................. 30-31
Garden Details—Complete the picture.......................... 32-33
Replant Now—from the Window—Suggestions for remodeling... 34-35
Emphasis on Petunias—By Prof. E. I. Wilde.................... 36
A Dozen Annuals—Photographed in color by Haanel Cassidy.. 37
Spring in Pink and White—The Nelson Doubledays' garden... 38-39
Three New Roses—Prize winners photographed in color........ 40
Quality First in Vegetables—By Francis C. Couler............ 41
Fruits from Espaliers—By P. J. McKenna....................... 42-43
Gardener's Guide—For the month of January.......................... 66

Decorating

Town House on a St. Louis Square—Home of Dr. Arthur Proetz... 44-47
"Are You with It?"—Decorative ideas from stage costumes... 48-49
Spendthrift on a Budget—Young decorating..................... 50-53
A Two Season Country House—At Southampton, Long Island... 54-55
Pull Up Tables—for entertaining.................................. 60-61

Building

* Awards in Architecture—4th in House & Garden's series of awards... 56-59
More Living Room—The trend towards more light and space..... 62-63
Two Houses by One Architect—Showing the use of simple materials... 64-65

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Future builders—save these pages!

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Soon 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 Many have been superseded by better sorts.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.
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. Hodson's garden, Greenwich, Conn.

ON A ROCKY SLOPE, PART SUN

On the same southeast slope in the Hodson garden, designer Marcel Le Piniee has used a charming combination of dwarf shrubs and perennials. The spot gets sun only half a day.
Replant 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 composition. Often there are chances to unify the plan or make the property more liveable.  

(Continued on page 96)
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

- 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, Cheeful 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)
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.
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-Schlesinger.
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
Goddleocks and miniature Hybrid-Tea Pink Bountiful. Other outstanding flowers
QUALITY BEFORE QUANTITY

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

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 specializer 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 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 hothed 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. Will-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

**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)
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 hack, 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.
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 marbleized 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.
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?"

"DO YOU KNOW THE SCORE?" IT IS ALSO THE TITLE OF A NEW MUSICAL WHOSE BRIGHT COSTUMES AND SETS

SUGGEST THESE MERRY DECORATING IDEAS

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 circustent 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!”
Pompon colors for chandelier shades in foyer or dining room.

For a valance—brand looped like this.

In a living room, try hot pink with:

- melon red accents

Striped walls

Straw broom carpet

In a library—melon red leather with kind green rug, Tete-de-niige walls.
Spendthrift on a budget

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

- 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.

\<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.

MORE ON THE NEXT PAGE
Spendthrift on a budget continued
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 greeness. The whole is distinguished, snug, feminine and without whimsy.
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 marbleized 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.
A collection of peppers and antiques backstage blends informally in the kitchen.
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 Tub
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 Bag
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)
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.

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**PLOT PLAN SHOWING LOCATION OF HOUSE AND OUTBUILDINGS, AND PLANT MATERIAL USED. STREET IS AT LEFT.**
HOUSE OPENS UP EXTENSIVELY ON THE GARDEN SIDE FACING WEST. GARAGE, NOT SHOWN, IS AT RIGHT.

SECTIONAL VIEW THROUGH LIVING ROOM SHOWING STONE CHIMNEY WALL.

SOUTH ELEVATION; LIVING ROOM AT LEFT, KITCHEN IN CENTER, SERVICE ENTRANCE AT RIGHT.
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.
A Quiet Space. An Intimate Corner is a pleasant part of today's home. It is the one in this disappointment house by F. E. Bogue, not the one in a California house by architect M. F. Mather, which was the first in a California house by architect M. F. Mather. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house. He felt the need to break the limits of the outside wall on his house.

The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror. The room can look big even when it isn't. Contributing to a sense of spaciousness is a wall mirror.
Two houses by one architect

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.
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
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 reordering 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 in bloom, 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?
the EKCO pressure cooker comes out of the kitchen and stays to dinner!

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.

The Ekco Pressure Cooker combines the magic of quick, easy, pressure cooking with the advantage of range-to-table service. See its amazingly efficient cooking features... just a twirl of the Fingertip Knob seals it, just a flick of the Pressure Control keeps pressure from exceeding the proper level. Then take another look at its distinctive serving style... the special serving cover. You'll be doubly glad you waited for an EKCO. At better stores.
No other rum possesses this rare and delicious "mountain flavor"

Distilled in the mountains high above the blue Caribbean, Ron Merito possesses a rare flavor, distinctive fragrance and delicate smoothness not found in any other rum. Tonight—try this taste-sensation from tropical Puerto Rico. You're making rum drinks at their finest when you make them with Ron Merito!

Ron MERITO

THE PUERTO RICAN MOUNTAIN RUM

For free colorful recipe booklet write National Distillers Prod. Corp., Dept. H-27, P. O. Box 12, Wall St. Sta., N. Y. • Ron Merito is available in both Gold Label and White Label • 86 Proof

HOUSEHOLD SHORT CUTS

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

Lilly white hands that must prove their dexterity by dipping into grime 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. Boomy palms permit free circulation. A satinated 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 Ebbonettes for 75c a pair.

A potting 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 furniture, 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. "Ashes ton," originally developed by the U. S. Rubber Company to protect our armor firefighters, is the asbestos-impregnated fabric now used for the Tex-Knit Burnproof Cover. A hot iron left standing a few minutes will discolo 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 tapered 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. Dep of Agriculture) and 3% pyrethrum combined to do a quick-killing job on 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)

Flowerfield

Tuberous-rooted BEGONIAS

Camellia-Flowered

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
Single Begonias, mixed colors, 3 for 1.00, Doz. $3.50
SPECIAL MIXTURE — All types — 10 Tubers $2.50

1946 SPRING CATALOGS

Send for your copy of Flowerfield's full color Bulb, Root, Plant and Seed Catalogs for Spring 1946. Please enclose 10c to cover mailing and handling costs.

Since 1874

FLOWERFIELD BULB FARM • DEPT. 20 • FLOWERFIELD, LONG ISLAND, N. Y.
Taste—not money—counts in choosing MARLBORO CIGARETTES
So little more...brings so much more distinction...richness...
conscious smoking pleasure!

Plain Ends
Ivory Tips
Beauty Tips (red)

Merely a Penny or Two More
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 Marques del Merito Inc., Department 3F, 120 Broadway, New York 5, N.Y.

**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 75¢ 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 & Gonger 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 woolens, 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 25c for a tube to Peerless Sals-Wells 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-slip bottle opener with a rubber cap protects you and the landscape from zinging, spouting beverages. The AF-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 & Gonger.

**GAINSBOURGH 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.
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.

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.

*for greater COMFORT
—even with less furnace fuel
this winter

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.
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.

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, 20½" wide, 14" deep, it's adaptable to any small-space 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 32.

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."


AMERICAN ART ALLOYS, INC., KOKOMO, IND.
1 WEST 34th ST. • NEW YORK

Streamline MODERN

"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.

HEYWOOD-WAKEFIELD

GARDNER, MASSACHUSETTS
FINE FURNITURE SINCE 1826

For Holiday Gifts... for Gracious Entertaining

deKuyper Cordials

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 Kuyper 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 Kuyper Cordials.

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

CREME DE MENTHE 60 PROOF • CREME DE CACAO 60 PROOF • BLACKBERRY 70 PROOF APRICOT 74 PROOF • TRIPLE SEC 70 PROOF • NATIONAL DISTILLERS PRODUCTS CORPORATION, DEPARTMENT HK5 • P. O. BOX 12, WALL STREET STATION, NEW YORK, N. Y.
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 property 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
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, results show 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 sulphamate used in seedbeds at the rate of two and one-half pounds to 1,000 square feet, destroyed many seed 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 1,5 dichloropropane 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 chloroprin, the second successful fumigant tried in the experiment. 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 ornerly 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.

Southern growers, 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

\[\text{(Continued on page 76)}\]
Get rid of that big, bulky birthday cake and serve instead this neat, 4-layered cake covered with red, white and blue frosting. Decorate with the inscription, "Happy 4th of July!"

---

**Instant Sweet-Air**

**The Original A.I. DEODORANT**

**Cold** eternity! It's just that simple! 180 days of freshness with no condensation. No more peeling decals from mugginess. No more breaking a sweat in a stuffy, humid place. No more hot, stuffy armpit odor. Just cool, sweet, refreshing sweet-Air. *No wetness or sweating!*

**The inventor:**

EKCO PRODUCTS

830 E. Chicago Ave., Chicago 29, Illinois

**(Pat. Offcs. Used Throughout the U.S.A.)**

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**FILNT**

**HOLLOW GROUND**

**FLINT** (the good knife)

**E(YE)CO PRODUCTS COMPANY**

A.F. C. House & Garden

---

Here's the secret to crisp, no-salt slices! A new knife from FLINT, the company that brought you the "Perfect Slicers" of products. FLINT knives are made of special, non-slip material and are designed to provide the perfect slice every time. Try FLINT knives today and experience the difference for yourself!
Look for this trade mark of Quality and Beauty in Cotton Rugs!

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.
DISTINGUISHED TREES

Donald Deerborn Wyman, one of America's leading plantmen, 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 from Eliot Street 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 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 Button-wood Trees (Platanus occidentalis). The largest of these were planted by Deacon King on his ground. 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 Beech (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 a hundred years ago; today they are beautiful specimens.
Castlewod....
America's most distinguished tables
by Morton

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
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. Listel 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 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 weekend or vacation trips it is small enough to carry along. Menasco Manufacturing Co., Burbank, Calif. (Continued on page 82)

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 handsome, sturdy, built and moderately priced. It is the kind you will be proud to have in your home.
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.

FOX MANUFACTURING COMPANY
ROME, GA.

Incomparable

Among the giant redwood trees of California, one, the General Sherman, tops them all. In runs, too, one is beyond comparison:

MYERS'S RUM!
The world's best is Jamaica Rum; Jamaica's best is Myers's Rum.
100% Pure Jamaica 97 Proof
A supply of free recipe books is now available.
For your copy, write to:
R. U. DELAPENNA & CO., Inc.
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97 Lighthouse Street, Dept. BH-4
New York 13, N. Y.
→ World's tallest tree
Height, 372.4 feet

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 it 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.

Kromex
ENDURINGLY BEAUTIFUL
Wherever housewares and gifts are sold
Cleveland 15, Ohio
These Glorious NEW
HOWARD Radios
in Your Own Home!
And, what beautiful models they are too—designed especially to welcome your favorite radio programs with such brilliant reception.

When you choose your new radio, be sure to compare Howard tone with other radios—at low as well as at regular volume. Through advanced design, the reserve power of Howard Radios gives you superb listening pleasure at any volume from a whisper on up.

Like the larger Howard models with FM and Acousticolour, Howard table radios are representative of the finest values on the market.

Be sure to see and hear these great new Howard Radios at your local dealer's display.

HOWARD RADIO COMPANY
CHICAGO 13, ILLINOIS

...a Symbol of Craftsmanship since the beginning of radio
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.

Send for attractive brochure with simple measuring chart. Designs and estimates submitted without charge.

**ELECTROMODES FILL THE BILL**

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.

Safety is also essentially important and Electromodes, with their exclusive cast aluminum heating element, are safe. There is no fire hazard. The heating element radiates heat so rapidly as to remain relatively cool and is completely enclosed in cabinet. A Safety Switch automatically shuts off heater in case of air flow stoppage from any cause.

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.
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 violas 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, Violacea and Violer Purple. Their color differences are not sufficient to warrant listing all. Violeracea and Violer Purple are synonymous and the color is violet, starkly 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 1957 and 1958 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)
Why a Concrete Home stays charming and worry-free

Here's the foundation and subfloor, both built of rugged, enduring concrete to make the house more firesafe and storm-resistant—contributing to long life and low upkeep expense.

Here's a completed house. Its concrete walls, firesafe roof and sturdy foundation, help the house keep its charm just as a good foundation garment helps retain the lovely lines of a fine dress. Because the house is structurally strong and rigid, plaster cracks are minimized; interior decorating costs are lower. The house is safeguarded against decay and termite damage. It keeps its loveliness.

Here's the proud housewife who is delighted because the concrete subfloors in her beautiful new home keep out dust, never squeak or sag, and are the perfect base for rugs, carpets, hardwood, or any other floor covering she wants. Here's the "man of the house"—enthusiastic because he has a clean, dry basement for workshop and game room, and because his heating bills and upkeep costs are low, thanks to concrete, the enduring, low-annual-cost construction material.

How to Get a Concrete House

Ask a local concrete products manufacturer (see 'phone book) for names of architects and builders experienced in concrete. Write us for free booklet of concrete house information. Free in United States or Canada.

PORTLAND CEMENT ASSOCIATION


NOW you can have COPPER!

Your old gutters and downspouts giving up to the ravages of rust, ing damage to your house and... here is good news! Copper, rustless Anaconda Copper is now coming available for repairs. Call your roofing con- or today and ask him to esti- on a new rain disposal system can never rust out. Because of ofing, trouble-free service, you'll that durable, dependable cop-costs less per year than rustable I... and today for free booklet, "How protect Your Home against Rust" crammed with valuable infor- on for home-owners and home-ers.

AMERICAN BRASS COMPANY
Waterbury 88, Connecticut

SHEPARD HOME LIFT

OMATIC ELECTRIC ELEVATOR
rates from ft Circuit

Home-LIFT designed by its who have s building thier pas- er elevators ours.

fer—dependable. Moder- price. Easily installed in w old homes.

its less to operate than radio. Extensively used rough- throughout the nation. Send r descriptive literature.

"How do you wrap a blueprint?"

During 1946, many families will lay the groundwork for years of happiness with the greatest gift of all—a new home. 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 home in several vital ways: (1) it is non-combustible and provides a definite fire stop; (2) it resists the pene- tration 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 advan- tages. Plan now for the extra protection and comfort that Ferro-Therm can give your home. Send today for complete in- formation. Just mail the coupon below.

Deliveries of Ferro-Therm Steel Insula- tion for the present require compliance with Federal Government Regulations

Ferro-Therm

STEEL INSULATION

American Flange & Manufacturing Co. Inc.
Ferro-Therm Div., 30 Rockefeller Plaza
New York 20, N. Y.

Please send me, without obligation, further information on Ferro-Therm Steel Insulation for homes. I am a home owner [ ]; renter (house [ ] apartment [ ]).

Name:

Street:

City: State:...
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

Tuts 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.

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.

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.

HOW TO READ LABELS

DDT preparations for use as general household sprays should contain 5 per cent DDT (dichlorodiphenyl trichloroethane). 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.

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 25 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.

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 as you may run into trouble.

J. W. HEUBERG

1946 Spring Catalogs

Flowerfield's new 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 10c to cover mailing and handling costs for both of the five catalogs.


FLOWERFIELD BULB FARM • DEPT. 20 • FLOWERFIELD, LONG ISLAND, N.Y.

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 and is certain to the evergreen planting. Each 50c, 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 50c ................. 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). Actually 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.

JOHN DAVEY  Founder of Tree Surgery
1846—1923

DAVEY TREE EXPERT COMPANY • KENT, OHIO

MARTIN L. DAVEY, PRESIDENT

V0 GENERATIONS OF TREE SAVING SERVICE
GARDEN GUIDE

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 25¢ 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 really hardy kinds. Sensational colors never before in really hardy plants.
Hinomisoura Azalea—Much improved, harder Hinomouri—sensational! 10 to 12 ft. B. & B., $3.00 each.

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.
Expansor Fruits—Dwarf fruits grown to fit against walls or trellises. $8.50 and up; all varieties.
Dwarf Fruits—They can be pruned, sprayed or planted without ladders. Groups should be selected for proper pollination, 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 (Ellerton). All 8 are 2-year size, fruit possible next fall, for $23.00.
Oder, already fruitful, we have a 5-year-old size in all but the peach. We offer five plants: 2 apples, 2 pears, 2 peaches. Also, 5-year-olds—for $17.50. You may add additional varieties to the above collections, which take care of all basic pollinating at the rate of $3.75 for each extra 2-yr., or $9 for each extra 5-year-old.

GROUNDCOVERS
Protect your banks from erosion with Vinca minor (low clumps $0.50 per 100). Phlox subulata 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 waste helplessly through thousands of meaningless catalog names. Read help here.

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

RHODODENDRONS
Rhododendrons for 25 cents!—Native speoies in the smallest grade (12-inches) that can be safely handled with the smallest earth-ball, from 25c to 50c each, depending on quantity ordered. Heavier grade, too; 2 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. Choicest, best, and bush-form. Sensationally easy to grow.

FLOWERING TREES
Franklinia, the only tree that blooms in fall. Sizes from $2.00 and up. Also Japanese flowering cherries, Chinese Crabbs, Magnolias, Tree Lilac, Tree Azaleas, etc.

FLOWERING VINES
A Wisteria that really blossoms!—New Wisteria praeclara 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.

FUTURE TREES

BLUEBERRIES
10 New Giant Blueberries—strong 4-year olds (bearing age) now 1½ feet high, assorted named varieties, our selection but all, $9.00.

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

EVERGREENS
Japanese Yew—upright "Cathcart" 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 Hedges—set 18 inches apart. 25 Upright Hedges will make 37 feet of insect-free hedge that takes care of itself. Plants now 12 to 15 inches high, twice transplanted, sturdily, $2.25.
Hicks Yew Hedges—Next, 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 Crabbs, Magnolias, Tree Lilac, Tree Azaleas, 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 love on a little longer than ordinary red berries.

FLOWERING VINES
A Wisteria that really blooms!—New Wisteria praeclara 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.

KELSEY NURSERY SERVICE
Established in 1878
Dept. 1A - 50 Church St., New York (7) N. Y.

HOUSE & GARDEN

GARDEN SCIENCE
Continued from page 76

it has been tried on many kinds of grasses without injury, according to manufacturers Puritized, 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 new melons #3 and #6 resistant to powdery mildew. The popular melons resulted from crossing favorite varieties with an incomelible but mildew-resistant melon from India.

Hybrid 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. Whitmire 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-Chloro phenoxycetic acid, which 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 foulbloom 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 thousands of varieties resistant to American foulbloom. 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 Shrinking of Rose double, there is a 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 choices and will soon beauty many gardens.

The American people are definitely flower conscious and they also recognize that advancements in plants are largely dependent on the seedsmen'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.

NEW COLORFUL CHRYSANTHEMUM

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

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 throat, above handsome leaves.

Since its discovery in Brazil in 1825 the original gloxinia (Sinningia spectabilis), 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 less hardy 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 year.

ESPALIERS

Continued from page 43

hosts 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 with 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.

beef 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 99)
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.

PETER HENDERSON & CO.
35 Cortlandt Street, New York 7, N.Y. Dept. 36-A

FREE
SEND for Your Copy NOW!

ESPALIERS
Continued from page 89

Burpee's GIANT ALLDUPLICATE
COLOSSAL Shades of Rose PETUNIA

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) $1.50

W. Atlee Burpee Co.
415 Burpee Building

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. 152; new Burpee Hybrid Vegetables on p. 3, 100 pages, all the best flowers and vegetables.

W. ATLEE BURPEE CO.
415 Burpee Bldg., (or Clinton, Iowa)
Send postpaid—Packets of Seeds of Burpee’s new Petunias
Colossal Shades of Rose
No. 2468.

Enclosed is $ . . . . . . . .
(name)

St. or R.D.

Zone

State

FREE

Send Burpee’s Seed Catalog FREE.
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, Duchess d’Anjou, Flemish Beauty, Clapp Favorite, Beurre Hardy, Lawrence, (Doyenne) Bossock, Louise Bonne de Jersey.

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

Nectarines—Newton, Boston, Surecrop, Napier.

Plums—Hall, Stanley, German prune, Imperial Epineuse, Opatia, Cline Claude.

Apricots—Hungarian, Perfection, Renheim, 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 to twelve inches out from the wall or fence. Drive (Continued on page 92)

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 to perfectly"—"the pink flush is something to see"—"massive plant"—"good foliage, sturdy stems"—"vigorous grower".

Judge PEACE for yourself in your garden. Plants $2.50 each; 3 for $6.25. Send for your FREE STAR ROSE CATALOG illustrating PEACE and many other roses and flowers in full color.

THE CONARD-PYLE CO., Robt. Pyle, Pres. WEST GROVE 320, PA.
American Introducers of the PEACE Rose

Flowerfield's FINE SEEDS for 1946

Flowerfield's fine quality seeds for annual flowers produce outstanding results, quite worthy of their place in the garden. They are the colorful all summer blooms to cover the ripening Tulip and Daffodil foliage. They fill in the between seasons lull in the perennial borders. Flowerfield's extraordinary selections offer many unusual varieties for edgings, Petunias for every purpose and hard to find selections for continuous cut flowers.

1946 Seed Catalog
Send for your copies of Flowerfield's spring catalogs for 1946. They contain full color illustrations and complete listings of the finest quality seeds (flower and vegetable) and Bulbs, Roots and Plants. Please enclose 10c to cover mailing and handling costs.

New Introductions from Flowerfield

DIANTHUS—WESTWOOD BEAUTY Truly worthy of its name Westwood beauty, a 1946 introduction, is a fiery red to an exceedingly deep velvety red variety. It grows ten to fifteen inches tall, is free flowering on long wirylike stems with deeply fringed blossoms two inches in diameter. Pkt. 25c

ASTER—PRINCESS BONNIE This very beautiful soft salmon-coral shade Aster blooms in mid August. It has flowers that are 3 to 5 inches across on stems 18 to 24 inches tall. Strong guard petals surround full crested centers. They are a delight to anyone who wants good cut flowers...Pkt. 25c

FLOWERFIELD BULB FARM
DEPT. 20
FLOWERFIELD, LONG ISLAND, N. Y.
Here is a rare
NEW, HARDY
easterlily
THE NEW ESTATE LILY

BEAUTIFUL WHITE—FRAGRANT
Easy-to-Grow
IN YOUR OWN GARDEN!

Here, at last, is a pure white EASTERN LILY so hardy, you can plant it outside or force indoors. Called the "Estate" Lily, planted this spring, it will bloom this summer. The bulb not only lasts, but actually multiplies, so that you get more plants each year. As each gets older, it becomes more beautiful and produces more flowers, too. Grows about 3½ to 3 feet tall with pure white, fragrant blossoms . . . just like the florists' Easter Lilies which cost from $2.50 to $5.00.

Today this HARDY EASTER LILY is new, rare, and scarce. Yet it promises to become the most popular Lily in all America. So be the first to grow your own Easter Lilies.

ORDER DIRECT
from ad. We will send you at planting time, fine bulbs grown in the field above. Each $1.00. Special, 3 for only $2.65. 6 for $5.00. 12 for only $9.50. All postpaid.

Today this HARDY EASTER LILY is new, rare, and scarce. Yet it promises to become the most popular Lily in all America. So be the first to grow your own Easter Lilies.

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GROWING GLOXINIAS
Continued from page 89

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

Seed Sowing

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

There are two other methods of care, by leaf cuttings and by tuber. As in the case of African Violet, leaf-cutting method is rather slow, but it a partly matured leaf and insert a sandy soil. Keep the soil a little dry side to promote rooting and 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 levels of superphosphate to each peck of the soil mixture. The tubers are placed in the mixture in which they grown 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 gloxenia plant grown in steam-sterilized compost had leaves measuring up to five inches across and ten inches long, and produced twenty-two flowers.

The gloxenia prefers temperature and light conditions very similar to those of the African Violet. Grow in a

NEW CHEMICAL MARVELS RID GARDEN OF WEEDS AND PESTS

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

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, chickweed, cinquefoil, foxtail, dandelion, dock, fleabane, black, knotweed, lespedea, lippia, moneywort, mustard, onion, pennycwort, peppergrass, plantain, pussytoes, shepherd's purse, thistle, white, etc.

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

PROTEXALL FOR ALL INSECTS AND DISEASES

Gardener will find in the new product—Protexall—action for nearly every garden pest and disease. This new product has a world-wide development, 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 checking disease without injuring delicate plants.

One-shot spray or dust combines in the product four materials: D.D.T., Rotenone, Fermate and Sulphur.

Rotenone controls most chewing insects and pests which defy pre-war sprays—leaf hoppers, flea beetles, grasshoppers and other garden pests

Ingredients are scientifically blended for maximum effect.

Protxall Spray: 1 oz., 55c, prepaid 40c; 4 oz., $1.00, prepaid $1.10; 1 lb., $5 prepaid; 5 lbs., $12, by ex-
press, charges collect.

Protxall Dust: 1 lb., 75c, prepaid 65c; 4 lbs., $2, prepaid $2.25; 50 lbs., $5, prepaid, by express, charges collect.

Protxall Dust. In its unique chemical side effects, together with 2250 different flowers, and table quality vegetables; 250 illustrated in full color. Mailed FREE on request.

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night temperature of 60 degrees Fahrenheit and a day temperature of 70. A temperature above 75 degrees is unsatisfactory, encouraging spindly growth. A 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 beheated 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 cause 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 three between the largest of the leaf veins. The leaves and flowers may have a silvery sheen. (Continued on page 95)
DDT SAVES POTATOES

SCIENTISTS have long sought for a chemical that would give good control of the potato leafflower.

During 1944 and 1945 scientists extensively tested DDT in the field on potatoes to see if it would control the potato leafflower. 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 leafflowers but practically eliminated them. Examinations of the plants showed little or no signs of leafflower damage. This was good news, but better still was the finding that plants sprayed with DDT were twice the size of those sprouted with Bordeaux mixture or those not sprayed at all and yielded twice as many potatoes.

Besides controlling the leafflowers, 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 Cuprocide and with the new organic fungicides such as Zerlate (zinc dimethyl dithiocarbamate) and Dithane plus zinc sulfide-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.  
L. C. GROVE

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

JANUARY, 1946

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REPLANT NOW

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, three or four shrubs or perennials would be the only worthy 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 location. 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 blue and touch 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 a few new ones instead of heeding 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 Astea alatissima, Forsythia Spring Glory and Hypericum Sunkiold.

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
**REPLANT NOW**

Continued from page 96

A permanent edging will eliminate hours with line, reed and edger, and will also give a sprucier appearance to the border. A double row of bricks is one solution—the inner row placed upright and tight against the outer row. It 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 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 interested in growing and trying new plants, from the most beautiful color gardens to the smallest and most informal,
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, 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.

MARGOLD BURPEE Gold Improved: bright orange carnation-like flowers, odorless foliage; 2½' plant.

MARGOLD 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 SHADERS OF ROSE: double flowers in shades of pink; 20"; All-America silver medal.

PETUNIA PEACH RED: flowers of unusual pink on compact plants to 13"; an All-America honorable mention.

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

TUTA SNAPS (Giant Ruffled Tetraplod Snapdragons): large flowers in many colors; leafy 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 Pope: reddish purple large informal decorative on heavy stems.

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

Lasiobede: medium size formal (Continued on page 99)

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98

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GENTIANA SYRIACA—purplish July-Oct.

FREE CATALOG:

Latona Nurseries, 420 W. 89th St., Chicago, III.
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 Ferenz: chrome yellow semi-cactus;

Jane Lauische: informal decorative, bicolor lavender with white tips.

Ogden Reid: deep pink formal decorative.

Clover: white pompon with lavender blush.

White Faun: miniature formal decorative.

Gladholus 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; 3'.

PERENNIALS

Buddleia Peace: pure white spikes of flowers to 18" long; this dieback shrub grows to 6' in height.

Chrysanthemum Chippewa: mallow-purple with incurved petals; 2' very hardy.

Chrysanthemum Elizabeth Gordon: one of the popular spoons, a garnet-red with gold center; midseason; to 3'.

Chrysanthemum Margaret Allen: salmon-bronze decorative; mid-season; 3'.

Chrysanthemum Princess: flowers of this baby aralégium vary from light orange to coral; 1' tall; 1½' across.

Int varieties—among the 1946 introductions (priced for collectors only) are: (Continued on page 100)
1946 PLANT CHECK LIST
Continued from page 99

Helen McGregor (azure blue), Cotillion (white), Thunderhead (white), Admiration (yellow). Many varieties now within the price range of home gardeners include: Lady Mohr (cream and lilac), Alpine Glow (pink blend), Bandmaster (powder blue), Chinalee (medium blue), Ola Kula (bright yellow), Extravaganza (cream-white and red-purple), Spinulia (coral pink), Lythrum Morse’x’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 Hydrangea 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.

Best Regards

Phlox Olympia: Borets 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.

China Doll


The Garden Chef Barbecue

- Made of all-steel metal construction and trimmed with California Redwood for added durability, the "GARDEN CHEF'S" BARBECUE is your answer to zestful outdoor eating.
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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)
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 Solution 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)
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 dies 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.
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-MM-115, $2.50.
- **Les Sylphides**—danced to Chopin's music played by London Philharmonic, Malcolm Sargent conducting on Victor's DM-305, $3.50.
- **Lilac Garden**—Chausson's "Poeeme" played by Symphony Orchestra of Paris with Yehudi Menuhin on Victor's records 793-7914, $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 by Boston Symphony, Koussevitzky conducting, on Victor's DM-556, $4.50. 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-MM-177, $2.50.
- **Pillar of Fire**—"Transfigured Night" by Schonberg played by St. Louis Symphony, Vladimir Golschmann conducting on Victor's new ADM-1005, $4.50.
- **Scheherazade**—danced to Rimsky-Korsakov'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 Tchaikowsky'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.


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 also inevitable to find yourself dreaming of a ballet even as you listen. It's the same sort of imagery that may make graphic in "Fantasia" those beautiful animals dancing Beethoven's "Pastoral", and the Sorcerer Apprentice working with time and a half in overtime.

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

**Till Eulenspiegel's Merry Pranks** by R. Strauss, the new red unbreakable plastic record by Victor with the Boston Symphony under Koussevitzky, DV-1 at $4.50.

**Symphonie Espagnole** by Lenox played by Symphony Orchestra Paris, Enesco conducting with Mislin, soloist, Victor DM-136, $4.50.

**Symphony #5**, from the New World, by Dvorak, Rochester Philharmonic with Jose 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-3 $5.50. (Try the 2nd and 3rd movements for that last excerpt.)

**Tapiola** by Sibelius, The Boston Symphony under Koussevitzky on Victor's DM-348, $2.50.

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

—Turntable