**NEW GIANT ASTER AMERICAN BEAUTY**

The finest type of branching Aster with immense bright, rosy crimson flowers, on two foot stems. It has the widest petals, largest double flowers, largest stems and best color among Astera. 10c per pkt.

**SPECIAL OFFER—**25c—These are the four greatest Flowers Seed Novelties and we will mail one packet of each for 25c (just one-half regular price) together with our little booklet "How to Grow Flowers for Garden or Window," and our big catalogue with a dozen large colored plates.

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PERFECT MARVELS IN SIZE AND BEAUTY

These Pansies have a robust vigor unknown in other strains. Flowers larger than the Trimardeau, with the substance and rounded form of the German strains, a touch of the Master of the artistic curves of the larger than the Trimardeau, with artistic and rounded form of the

**AME>RICAN MASTODON PANSIES**

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**ICE-PROOF MASTODON PANSY PLANTS**

Have a Beautiful Bed of Pansies at Small Cost

We grow young, vigorous plants of the Mastodon Pansy in open ground from September-sown seed that are ready for delivery from January to May. For the Southern and Pacific States we can ship now. For colder latitudes shipments are made as early in spring as the plants can be put out. They are hardened by the snow and ice of winter, and in spring are ready to jump into vigorous growth and bloom.

Price—Mixed colors, postpaid, 25 for 60c; 100 for $1.00; 500 for $9.00

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A collection of 12 distinct Giant Childsii Gladioli, named, all extra fine sorts and some are new. All colors represented, white, yellow, blue, pink, scarlet, violet, variegated, etc., and are shipped in the fall. We reserve that this New Kochia is one of the most valuable, rivaling the palm and the fern for decorative effect, beauty and usefulness up to the holidays. It is easily grown from seed indoors or out.

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All colors mixed. Fine Garden Iris for 50c postpaid.

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OWNERS of large estates and municipalities with large parks—where there is a need for a wide expanse of lawn to be kept in condition—have long realized the resulting economies of using power driven machines for that purpose.

Some five years ago we put on the market the first walking power driven mowers ever built, and of those first Ideal machines are still in daily use.

After five years of careful and practical study, engineers finally conceived the idea of building a walking power driven mower—which only has been done away with the idea of trying to drive the cutting blades directly from the engine, but one has also simplified the construction throughout.

The ideal Tractor Lawn Mower is so simple that any machine may be operated, you can always keep a set of sharpened knives on hand, so one of its great advantages is that it is so simple one can always keep a set of knives on hand, so one of its great advantages is that it is so simple and easy to handle that you can run it practically anywhere and any place where there is grass to be cut.

The Ideal is so simple and easy to handle that you can run it practically anywhere and any place where there is grass to be cut.

Use It for Rolling the Grass

With the Ideal is also furnished a small portable lawn roller, which can be substituted for the cutting knives, and the machine is then ready to be used as a lawn roller. The weight of the machine when used as a roller is approximately 500 pounds. When heavier rolling is needed, more weight can easily be placed in the machine.

R. E. OLDS, Chairman,

The Same Principle as the Hand Mower

The advantage of pushing the mower ahead of the machine instead of connecting the power to the mower is quite obvious and eliminates the possibility of damage, should the knives suddenly strike some obstruction.

In fact, the real test of a power driven machine comes when a mower suddenly strikes a stick, a bone, a piece of cloth or any obstruction that will occasionally find its way into the yard kept laws. This obstruction may stop the machine entirely—or the engine is connected direct to the cutting knives, it is this sudden stop which causes trouble by injuring and possibly breaking some part.

Cuts Close to Walks, Flower Beds and Shrubbery

One man with an Ideal Power Lawn Mower can do as much work as five or six men with hand machines. This is most important when labor is scarce. At a very nominal expense, the Ideal will keep your grass cut, rolled and in the nick of time.

The Test That Tells

The advantage of pushing the mower ahead of the machine instead of connecting the power to the mower is quite obvious and eliminates the possibility of damage, should the knives suddenly strike some obstruction.

One man with an Ideal Power Lawn Mower can do as much work as five or six men with hand machines. This is most important when labor is scarce. At a very nominal expense, the Ideal will keep your grass cut, rolled and in the nick of time.

Cuts Four to Five Acres a Day

Cuts Four to Five Acres a Day

The Ideal Tractor Lawn Mower has a 30-inch cut. A man with one of these machines can move from four to five acres a day on an operating expense of about fifty cents for fuel and oil.

The operator practically nothing to do except to guide the machine. At the operator's left hand is located a lever for stopping and starting. The lever works a belt, as the machine is operated by a belt driven from the engine to the roller. This method does away with the necessity for a complicated clutch—it is simple, safe and sure.

The Truth About Power Lawn Mowers

Simplified Construction

The design of this Ideal Tractor Lawn Mower is so simple —it is so free from all unnecessary complications—the principle employed is so obviously correct, that it can safely be called a machine that is not only fool-proof but practically accident-proof. We have done away with all necessary of complicated devices to wear and get out of adjustment. The single cylinder engine is of very simple construction, with hit and miss governor and jump spark ignition. It is, in fact, an engine designed especially for the work.

Extra Set of Blades

We furnish with every machine, an extra cutting mower. This eliminates any possible excuse for endeavoring to do a good job for cutting with a dull set of knives. No matter how constantly a machine may be operated, you can always keep a set of sharpened knives on hand, so one of its great advantages is that it is so simple and easy to handle that you can run it practically anywhere and any place where there is grass to be cut.

Very Economical

The operator has practically nothing to do except to guide the machine. At the operator's left hand is located a lever for stopping and starting. The lever works a belt, as the machine is operated by a belt driven from the engine to the roller. This method does away with the necessity for a complicated clutch—it is simple, safe and sure.

Order Early

Order Early

On account of traffic conditions, it is advisable to place your order early as possible, to ensure having the machine ready for the early spring work.

The Ideal Tractor Lawn Mower will be shipped direct to your house. It is equipped with five casters and is designed to be pulled around any place that a hand mower can be operated. You can buy the Ideal through your local dealer, or where there is no dealer near you, we will ship direct. Write today for complete literature and name of nearest dealer.

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House & Garden

that will tell you not only what to buy for your house and where to buy it, but how to get the good out of the things you have, and how to add the little touches that change them from hand-me-downs to heirlooms.

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It isn't money that makes the house beautiful—it's knowing how. Read the April House & Garden and you'll see why.

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Home Attractiveness

The building of a home is an important event in any life, but there is an element of uncertainty in house building. Some houses never seem to work out right. Some subtle atmosphere which could not be detected in the drawings changed the whole complexion. “It looks so different on paper when beautified in perspective by the expert Architect.”

All of which goes to show that perhaps you have said like some owners—“Never mind the exterior, I want a good interior. I live inside—not outside. Give me a beautiful home inside, and my neighbors must put up with the outside.” This is not true! We owe a duty to our neighbors; we do care what our neighbors think of the appearance of our home, and the ideal home is a well-balanced structure, harmonious in detail and attractive outside as well as inside.

Those houses which have that “indescribable something” are, after all, an expression of the owner’s individuality, a sincere development of his needs and manner of life, and a blending of all that Nature has given, with the character of the design in structural integrity, honesty of expression, right proportions and simplicity of outline.

In no place has the “home atmosphere” been more perfectly portrayed than in the simple village house of England, and that which has helped most has been the quaint thatched roof of straw. In these days of “modern building,” in no better way than with Thatched “CREO-DIPT” Stained Shingles can the “atmosphere” be obtained, for the roof crowns the house, and gives it that nice adjustment of height, breadth and thickness that make up that quality of “home attractiveness indescribable.”

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We are tempted to say that the Improved English Delphiniums are the most beautiful hardy plants in cultivation, but we are also tempted to say this of a score of other things, and, of course, it is impossible to say which is the most beautiful of hardy plants, for they have such an immense variety of beauty that the wonder grows that people continue to plant, by the millions, bedding plants which have little or no beauty, are an annual expense, and cost quite as much as hardy plants whose first cost is their only cost, and which increase in size, in beauty, and often in quantity, year after year. These Delphiniums may not be the most beautiful hardy plants, but they are among the most beautiful, and nothing can be more distinct and satisfactory. They are stately and picturesque, some varieties growing 8 feet high in rich soil; they have immense spikes of most beautiful flowers of every imaginable shade of blue, and their season is a long one; in fact, they will bloom from spring till fall if properly treated.

CULTURE OF DELPHINIUMS.—The culture of Delphiniums is exceedingly simple, and the results out of all proportion to the slight amount of care necessary. They thrive in almost any position. The soil may be a rich, friable loam, which suits them finely; but any soil, even hot and sandy, if well watered and manured will give excellent results. Dig deeply — trenching is better, — add plenty of well-rotted manure, and plant about 2½ feet apart. Placed in lines, as a background to a border, or in groups of, say, three plants at intervals, the effect of the Delphinium is exceedingly fine. They look well in beds, also, arranged at the same distance apart each way. They are grand grown in masses of large groups of separate colors, and may be associated with shrubs with great advantage, succeeding well in shrubberies because of their robustness. They are most effective planted with white flowers, especially with Miss Luigard Phlox or Candidum or Annunciation Lilies. A succession of flowers may be expected from spring to late autumn, especially if the spikes which have done flowering early be cut off; fresh growth will then be produced which will give blossom. Copious watering in summer will be attended by increased size of spike and flower; in fact, in seasons of prolonged drought, water is absolutely a necessity on many soils if the varieties are to exhibit themselves in their true size and beauty of flower and spike. Top-dressing is greatly recommended on certain soils, instead of the bare surface of the ground being left exposed to the sun. Some of the neater dwarf alpine and other hardy plants may be utilized to plant between and around Delphiniums. Coal ashes strewn over the crowns will protect the plants from slugs through winter and spring. As we have intimated, any garden soil suits the Delphiniums; it is, however, necessary to secure sorts such as are offered below in order to obtain an effect superior to that afforded by the old smaller-flowered varieties. No amount of liberal treatment will cause the smaller-flowered kinds of a few years back to develop into the gorgeous hybrids of today.

Special Offer of Improved English Delphiniums

Delphiniums have been a great specialty with us for twenty-five years and our stock is by far the finest in America.

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<tr>
<th>Sorts Offered</th>
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<th>Per 100</th>
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<tr>
<td>Fine Mixed English, grown from seed of famous named sorts</td>
<td>$2.00</td>
<td>$14.00</td>
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<tr>
<td>Selected Varieties, selected from thousands of seedlings grown from choicest named sorts</td>
<td>3.00</td>
<td>20.00</td>
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<tr>
<td>Extra-selected Varieties</td>
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Splendid cherry to mahogany rich glowing red, thoroughbred, hen hatched, free range, open-front colony house, hardy stock. Scientifically raised from accepted stock and for heaviest winter laying, on a strictly sanitary plant. Heaviest laying Reds in existence, setting highest records 211 to 281 eggs. HATCHING EGGS from magnificent, large, hardy, glowing red hens, not pullets, mated to splendid, large, vigorous breeders, great stamina; long backs, low tails, short legs well spread; brilliant rich glowing red and out of trap-nested line bred away from broodiness and for heaviest winter laying, on a strictly sanitary plant. Heaviest laying Reds in existence, setting highest records 211 to 281 eggs. HATCHING EGGS from magnificent, large, hardy, glowing red hens, not pullets, mated to splendid, large, vigorous breeders, great stamina; long backs, low tails, short legs well spread; brilliant rich glowing red and out of trap-nested.

Due to increased cost in manufacture on account of advance in labor and material it will become necessary for us to withdraw all former prices on the “BUFFALO” Portable Poultry System on April 1st.

Place your order now at the old prices and we will ship any time you may specify.

Remember the use of the “BUFFALO” Portable Poultry System enables you to fence in young chickens or ducklings and can also be used for growing chicks, ducks, geese, etc., permitting you to make any size yard you wish and enabling you to move it to other locations at will.

Send in your order now, don’t wait until April 1st. Freight conditions are bad and you may be disappointed.

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Do you want fertile eggs next Spring buy now.

For Silver, Golden, Ringneck, Formovan, Lady China, White, Mongolian, Reeves, Swithin, Silver, Elliott, Imperial, Ringneck, Mulard, Black, Chinese Teal and over 30 different colors. Send your order now, don’t wait until April 1st. Freight conditions are bad and you may be disappointed.

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TIMES change—and interior finish has changed with time.

Today, the first requirement of a wall is that it stay in the background—it must be quiet. Quiet, in order that the beauty and proportion of a room be enhanced. Quiet, so that the furniture, hangings, rugs, pictures, all the "makeup" of the home's personality may be allowed expression.

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If you can’t fight—don’t gloom.

Read

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The most cheerful and stimulating of all the magazines. A season of it will keep you in touch with everything in the war and out of it that tends towards a cheerful viewpoint—the high lights of camp life, the humours of the trenches, the social, literary, dramatic and artistic skirmishes of the non-combatant.

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In thousands of the Famous Kitchens of the United States—
in the Restaurants of the Senate and House of Representatives at Washington—in the U. S. Pure Food Testing Laboratories—in Hotels, Clubs, Public Institutions, Hospitals, Colleges, Restaurants and Private Residences—wherever efficient refrigeration is demanded the McCRAY is used.

The superiority of the McCRAY is not accidental. It is the result of over 30 years’ experience in building high grade refrigerators.

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prevent waste and spoilage of perishable foods by keeping them fresh and healthful. The McCRAY Patented System of Refrigeration gives a constant circulation of cold, dry air, which prevents tainting or odors.

Any McCRAY Refrigerator can be arranged with outside icing door for icing from the side or rear porch. This permits the milkman to put the milk on the ice immediately—it also keeps the ice man with his pail and his muddy tracks outside your kitchen and relieves you entirely of this annoyance.

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The superiority of the McCRAY is not accidental. It is the result of over 30 years’ experience in building high grade refrigerators.
SOON IT WILL BE GARDEN TIME

Yes, soon there will be a touch of Spring in the air and—how about the garden? This year, more than ever, it must be a war garden. The crops from the big farms must go to feed the boys "over there"—the home garden must do its bit in a bigger way than ever before. It must be planted with a certainty as to results.

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Pakro Seedsgame will help you have a better garden. It is the scientific way of planting. The seeds are evenly and accurately spaced in a thin paper tape. And a whole row is planted at a time, resulting in straight rows of evenly spaced plants. Thinning out is practically eliminated.

Pakro loose seeds are the same quality Seeds that are in the tapes. A Pakro garden, either Pakro Seedsgame or Pakro Loose Seeds, is a successful gardener. Pakro, in fact, has 18 varieties of Pakro Seedsgame and seeds. Order your seeds today.

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Write today for the beautiful full color catalog. The illustrations are from actual gardens and gardens. It will help you to plan your garden. This catalog will be sent free with your order regardless of order amount. Without charge and postpaid.

A WAR TIME ECONOMY

For one Dollar

Besides your Vegetable Garden plant these bulbs. They are cheap, effective, and increase yearly, with no flowers the season through. There is no flower more American than the Gladiolus. It is the grand flower. We circulate this at $1.50 and $2.25.

Vogel's Gladiolus Gladiolus

Gladiolus and by repeated plantings, a continuous bloom may be had all summer long. The large-colored flowers are graceful and Terrifying in their great array of brilliant colors. If you want the first flower Jones and placed in water, the flowers develop for a week, even to two weeks, lovely looking, and in color of other flowers. It is absolutely burglar proof. The locks automatically and protects the side of the building from coal smudge and marling. It is absolutely burlar proof.

The glass door can only be unlocked from the inside and gives am­

Make Your Property More Valuable

lock automatically and protects the side of the building from coal smudge and marling. It is absolutely burlar proof.

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The door beautiful—a book of valuable suggestions for interiors sent free.

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Dept. A-10

Chicago, Ill.
Are Flowers Non-Essentials?

DECIDEDLY NOT. They are essential as messages of love and sympathy to the sick or sorrowful who need their cheery companionship: they are essential for the table and for room decoration, to brighten somber days; they are essential on all festal occasions; and growing them is essential as a means of mental relaxation and healthful exercise. Resolve therefore to "Grow Flowers as Usual" this year.

Heatherhome Flower Seeds have proved a revelation to American Gardeners. We have in past years developed many wonderful creations that have never yet been equalled. This year we again have several marvelous novelties that all Garden Lovers should grow and enjoy. Among them are a new Midsummer-blooming Cosmos, with Mammoth Flowers of a rich, glowing crimson, the new American Beauty Aster, a rose-pink window-box Petunia that is a wonder, the latest development in Sweet Peas, and many others.

SPECIAL OFFER DURING MARCH ONLY
For 25 cents—we will mail post-paid one large packet each of Heatherhome Branching Asters and Midsummer Giant Cosmos and one ounce of "Heatherhome Beauties" Sweet Peas. These are not ordinary mixtures, but well-proportioned Blends of the newest and choicest strains and colors, grown separately.

Our 1918 Catalog is Ready
We have called it "The War-Time Flower Garden." It lists nothing that is not well-worth growing; all undesirable have been discarded. Yet it covers everything in Seeds, Plants and Bulbs, that is essential to the perfect garden. Shall we mail you a copy?

Heatherhome Seed & Nursery Co.
258 Fifth Ave. New York City

Roses and Gladioli

THese arc two of the finest garden flowers known. My home grown stock has demonstrated its superiority in thousands of gardens. Try them in yours,

My new catalogue tells a very interesting story about the function of roots. It will interest you. It will help you to greater gardening success. Send for it.

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Write for my descriptive list
ROBT. A. GIBLIN
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OLD FASHIONED FLOWERS
Field grown plants. Will bloom for Decoration Day. Also Hardy China Pinks.
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SUITABLE and SUGGESTIVE
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When writing, enclose the name and address for Perplo Catalogue "P.30"

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CONVENIENT—ODORLESS
A postal to us today will bring an interesting catalogue to you tomorrow.

KERNER INCINERATOR COMPANY
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ARE YOU SATISFIED?

Do you continue to use garbage and rubbish cans because you are satisfied? Or do you tolerate them because you think they are necessary evils?

The KERNERATOR
Has at last emancipated the home from these evils.

The door shown is located in the kitchen. Into it is put everything that is not wanted—tin cans, garbage, broken crockery, paper, sweepings, bottles, cardboard boxes—in fact all those things that accumulate in the home from day to day and are a continuous nuisance and dangerous health hazard. The material deposited falls down the regular house chimney flue to the incinerator built into the base of the chimney in the basement. From time to time a match is touched to it and it burns itself up. The material deposited is the only fuel required. Not one penny for operating cost and yet you have abolished garbage and refuse cans forever.

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594 Clinton Street
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Office in all the Larger Cities
Glass Enclose Your Pool
Use It All The Glad Year 'Round

WHY be content with a few brief months' pleasure from your outdoor pool, when by glass enclosing it, you can have every day a Palm Beach day, the entire year through!

Not only does the glass enclosed swimming pool remove the time limit of use; but at all times, adds to the comforts and delights of its use.

Adds to them, by furnishing you with a pool as free from surface dust, leaves or insects as the finest of bath rooms.

The temperature of both the air and the water are under your absolute control.

In the summer, with the glass roof dulled with our special shading material; and the ample ventilators thrown open, it can be as cool and shady a place as "the old swimming hole" used to be.

The light, graceful U-Bar construction, with its proven endurance, makes it a particularly fortunate one for pool enclosures.

To photographs of our various enclosures, you are indeed welcome. A representative will call only by appointment, at your request.

U-BAR GREENHOUSES
PIERSON U-BAR CO
ONE MADISON AVE. NEW YORK.
We hear a lot these days about balanced diet. Did you ever hear of balanced reading? And balanced magazines? Well, then, the April House & Garden—that Interior Decoration Number—is an example. There are three ingredients—good pictures, informative text, good arrangement and a rapidly presented variety of topics.

Start off with "The Country House Living Room"—a variety of types for various kinds of houses, together with color schemes. Then follows a country house—not too big, but big enough for the architect to produce striking results. Following on the editorial comes a collector's article on couches and sets. The scene quickly changes to the house of Joseph Crban, the artist of the Metropolitan stage settings, and shows what he did with the interior of an old-fashioned house. At this point the garden enthusiast gets two pages of pictures and text showing complete operations in making a war garden. Then back to decoration again, with an article on "Getting the Good Out of the Victorian"—every one of us has some Victorian furniture, and it has returned to popularity of late. The next two pages show a house in California, and—this is a fact—some new evidence on George Washington which proves that the father of his country was an amateur decorator as well as architect. Then comes new paper, the revival of the cornice and the Little Portfolio. McCollom writes of melons and the shoppers present a page of benches and stools. The gardener next finds two pages of garden sketches—remarkable pieces of black and white work. Then the last of the articles on Spanish furniture. In the following four pages are articles on the use of the torchere, on built-in bookcases, a house in Virginia, how to grow ivy, and a new brand of pottery. The Shoppers this month have specialized on lamps and shades—those necessary accessories to the completion of a room. And after the shopping pages are an article on what fabrics combine successfully in decoration, the War Garden Department and the Gardener's Kalendar.

Altogether this number promises to be the star issue of the Spring. It is both practical and inspirational, a fine example of balanced magazine reading.
One of the most picturesque gardens in the vicinity of that picturesque city Stockholm is owned by the young Swedish sculptor, Carl Milles. It was designed by him to give setting for some of his works and was made, in the main, from odd bits of architectural details picked up here and there. The column came from the old Royal Opera House. Other views of this garden are to be found on pages 22 and 23.
A sense of repose and dignity is lent this living room fireplace grouping by the mirrors that flank the chimney breast with consoles and alabaster lamps beneath. These views are from the apartment of Mrs. George Moffett in New York City. Mrs. Emott Buel, decorator

On the opposite side of the living room is a large davenport with a beautiful fanlight mirror over it and flower paintings in the adjoining panels. The walls are peacock blue with dull gold molding, the furniture mulberry and the carpet taupe. Bright peacock cushions and small black lacquer tables enliven the color scheme.

In the dining room the dull north light is dispelled by a large mirror set in the French fashion of small squares held in place by gold rosettes. This reflects the two crystal lustres and an alabaster vase on the black marble-topped console. Under curtains are thin gold silk and the hangings green and gold striped damask.

Through the Looking Glass

The Dozen and One Uses for Mirrors in Decoration

NANCY ASHTON

We have all enjoyed strolling merrily hand in hand with the immortal “Alice” through the mysterious realms of the other side of the looking glass. But how many of us have realized the possibilities of the adventures on this side—the adventures with the mirrors themselves? How one may make a small room, large; a dark room, light; a dull room, gay. All this and much more may be accomplished if one happens to know how.

There are several things to bear in mind. One must choose the right mirror. It must have suitability, as well as utility and beauty. One would hardly welcome an ornate reproduction of a Louis XV design in a simple English living room. Nor would an austere Colonial mirror be at home in a French drawing room. In these days of beautiful reproductions and new designs there should be no difficulty in making a wise selection.

Then one must know where and how to hang it. Very few of us would be guilty of placing a mirror where it would be practically useless, but it is well to remember that they should be hung on the eye level. There is great decorative value in a pair of mirrors flanking a fireplace. A sense of repose and dignity is invariably the result.

The New York apartment of which photographs are here shown illustrates the effectiveness of skillfully managed reflections. The living room with its plain walls broken into panels by narrow dull gold molding has the arrangement of mirrors of which we just spoke. The sense of balance has been carried out in the consoles under the mirrors and the alabaster lamps. It is a friendly, reposeful room in consequence. The added beauty of the color scheme (peacock blue walls, mulberry furniture, taupe carpet) is not to be overlooked.

On the opposite side of the room there is another equally well planned arrangement. A large davenport forms the nucleus of a group with a beautiful fanlight mirror over it and flower paintings as companion pieces. There are small black lacquer tables conveniently placed and bright peacock cushions give a touch of gayety.

The dining room is a particularly happy example of the wonders accomplished by a mirror. Here you have a medium sized room with a dull drab north light and nothing but an unfriendly city wall as an outlook. Then the transformation. A large mirror in the French fashion, that is, cut in squares and held in place by gold molding, the furniture mulberry and the carpet taupe. Bright peacock cushions and small black lacquer tables enliven the color scheme.

In this room the dull north light is dispelled by a large mirror set in the French fashion of small squares held in place by gold rosettes. This reflects the two crystal lustres and an alabaster vase on the black marble-topped console. Under curtains are thin gold silk and the hangings green and gold striped damask.
A lattice screen divides the upper terrace. Sculpture is scattered about.

(Left) A glimpse of the steps leading up to the shelter of the cloister gallery.

(Right) View from the cloister along the upper terrace to the house.

THE GARDEN
of CARL MILLES
AT LIDINGO, SWEDEN
Retaining walls are divided by pilasters and niches in which will be placed pieces of sculpture. The walls, of brown stone, are laid in mortar, but the steps are set in earth to allow vegetation.

The sculptor's famous statue of Susanna, executed in black granite, forms the center of interest. Walks around the pool are large flagstones. A cloister circles the pool and connects with the house.
A sense of responsibility is the beginning of being respectable. We speak of a man “settling down.” Invariably this comes when he assumes some responsibility—at home, a family, regular work, a home, a future. Let that sense of responsibility awaken, and the man shows signs of developing into what is commonly known as an “estimable citizen.” But back of these estimable characteristics, what? Ownership.

The very undertaking of ownership presupposes a willingness to assume responsibilities. Thus, a man buys a house. He is immediately responsible to himself and to his family to keep it in good repair and furnished in good taste, he is responsible to his neighbors to keep the surroundings of that house in good and pleasant condition, he is responsible to the community to maintain the road that runs before it by paying taxes. In short, a man begins to be respectable when his sense of responsibility extends from his own personal creature comforts and pleasure to others and to the locality in which he lives. From this it is only a step to the development of a national conscience, which we call patriotism, and from a national to a cosmopolitan conscience, a conscience which is sensitive to injustice in other lands and is quick to demand its extermination.

During the past year the American people have had their horizons tremendously widened. They found themselves responsible to a vague something called the American ideal of democracy, they found themselves responsible to other people in other lands, and they have been called to shoulder that responsibility and have done it willingly despite the sacrifices it entailed. But America could scarcely have hoped to sustain such a burden had not the mass of the American people been schooled in the fundamental responsibilities of a home, a garden and a debt to the community.

There is on foot a movement to induce Americans to own their homes. In addition to the particular advantage this owner himself, the movement is a very vital training in good citizenship. For the backbone of a nation is every-day people who own their home and live their everyday lives and do their everyday work. The marvellous spirit of France which has been sustained during these four years of tribulation can be accounted for by the fact that the Frenchman owns the soil he tills. The collapse of the Russian national ideal is directly traceable to the fact that 75 per cent of the 180,000,000 population, the farmers, did not own their own land and homes; they had no national responsibility because they had no personal ownership. The problem that Engoland must solve sooner or later is this very same “own your home” question. It is, then, a far-sighted move to awaken Americans to the necessity for owning their own homes. It will make a more respectable nation. It will give us a solidarity and a quickly aroused sense of responsibility to the democratic ideal and its establishment in other lands which, in a word, is what this great war is being fought for.

National responsibility has taken very material forms this past year. It has called our sons to the battle line, it has asked us to lend our money to the nation and to contribute to the nation’s great work of mercy, the Red Cross; it has imposed upon us—for our good and the good of others—certain necessary dietary restrictions, it has made us dig up the garden and grow our own food. All these things are part and parcel of the development of responsibility and respectability, and a really respectable man is one who contributes his share to the common cause.

It is necessary that we understand the philosophy of this great movement before we can gauge its values. Today it is the duty of every American to subscribe for at least one bond in each Liberty Loan issue, just as it is his duty each year to pay his taxes. It is his duty to curb excess and waste at his table by observing the Government rules of meatless and wheatless days. It is his duty to give to the Red Cross, just as it is his duty to help support churches and charities and other mediums for good in his community. By these means has the everyday American grown up from a small man to a national citizen. According to the measure with which we assume these fundamental responsibilities will depend his future development into a citizen of the world.

The nations of the world are facing the problem of widespread socialistic propaganda. The socialists demand for each man a share of ownership. This is also the basis of American democracy. In America a man has not alone the right but the opportunity for owning his own land and has alone had it. In the turmoil of the present world conflict is being laid forth the concept of universal democracy. When nations of the world go to war—as God grant they never shall—it will be the sentinels of the whole people because then the whole people shall be owners. In this lies the strength of America—that its people are understood ownership of their homes together with the responsibilities ownership entails. It is why, after a long and trying period of justice, they arose to help crush the factor of the world. That is why the day will come when the responsibility for supplying his family with food if he will work to grow it.

We stand at the crossroads. In the past, when a nation went to war its landed barons alone assumed responsibility because they had no personal ownership. The day will come when the whole people then the whole people shall be owners. In this lies the strength of America—that its people are understood ownership of their homes together with the responsibilities ownership entails. It is why, after a long and trying period of justice, they arose to help crush the factor of the world. That is why the day will come when the responsibility for supplying his family with food if he will work to grow it.

Sanctuary

Bluebird, Martin, Phoebe, Wren, 
Hither wing your way again! 
Flicker, Junco, Chick-a-dee, 
Choose your shelter, bush or tree! 
Come, our little feathered guests! 
Boldly build your guarded nests, 
Safely rear your chirping broods! 
Now, in starting this editorial I said that

The standard of respectability in America today is to own a home, own Liberty Loans and have a war garden. A home, four Liberty Loans in these three lies the power of the American citizen.
THE APPROACH TO A COUNTRY RESIDENCE

Flagstone sunk in the grass ... a profusion of bloom on either side the path ... a terrace by the door. This is the approach. The house lies low on the ground—a shingle house with broad overhanging eaves, touched with the color of wrought iron and green painted pierced shutters and ivy swept boxes. It is the residence of C. C. House, Esq., New Rochelle, N. Y. Patterson & Dula, architects
FIFTEEN hundred years ago there lived a Chinese painter, Wu Tao-tzu, famous in Celestial lore, of whom it was said that it seemed as if a god possessed him and wielded the brush in his hand.

This greatest of all Chinese masters was held in high esteem by the Emperor. One day, wishing to possess a landscape of one of his favorite bits of scenery, the Emperor directed Wu Tao-tzu to go forth and paint it. In the evening Wu Tao-tzu returned, but empty-handed.

"Why," exclaimed the Emperor, "where is the landscape? You have nothing!"

"A august serenity, Son of Heaven!" replied Wu Tao-tzu, "I have it all, all the landscape, here in my heart."

Perhaps he made some discreet concession to the material side of the adventure, for straightway he proceeded to cover a wall of one of the apartments in the palace with a marvellous scene, such a one as he had spent the day in contemplating.

The next morning it was finished. Delighted, the Emperor came to view it. "Ah," said he, "wonderful, wonderful! It is the river, the bamboo and there those majestic rocks!"

At the word, Wu Tao-tzu clapped his hands, and lo! there in the rocks of the picture a cavern appeared. Wu Tao-tzu stepped into it, the entrance closed and Wu Tao-tzu disappeared from earth.

Surely no legend better illustrates the Chinese point of view, that a painting is the home of the painter's soul.

The Crystal Bottle

This is the story that was told to me one day when, happening into a Chinese shop where some antiques and curios were offered for sale, I chanced to pick up a tiny bottle. It was not over 2 1/2" high. Its weight proclaimed it crystal. A miniature scene and inscription were skilfully and beautifully painted inside.

"Why," exclaimed the intelligent Chinese attendant, in answer to my question, "is little bit paint—"

Then he told me the story, a golden nail of which to hang a bottle! Surely enough, the tiny bottle was depicted Wu Tao-tzu entering the cavern. The inscription vouched for the incident.

"But what a tiny bottle. What was it used for?"

And the Celestial Said—

"Much little bottle China old time fine like this. More other bottle kinds use snuff for medicine for. Look yes you please."

The Celestial showed me how the ivory "spoon," running the depth of the bottle and fastened in the coral stopper, was manipulated to fetch forth portions of anything a vial of this sort might contain. In snuff taking the "spoon" was emptied on the thumb nail and the "sniff" deftly taken. That was my introduction to the fact that snuff-taking in the Orient had fostered a fashion that produced objects ofertzfully as interesting, certain! more curious and as beautiful as the snuff boxes affected by the Europeans of the 17th and of the 18th Centuries.

After this is it any wonder that the collector's instinct should have led me to be enthusiastic about Chinese snuff-bottles as a field for browsing? And soon I found that the fascination of these little objets d'art had exerted no small influence on other collectors.

Fine snuff-bottles were not to be found at every turning. Nevertheless they were not so rare as one might imagine, although as with any other class of art objects supreme examples were difficult to obtain at any price. If China had a population of 400,000,000 souls it must not be assumed that her craftsmen have produced anything like 400,000,000 snuff-bottles. True it is that men, women and children of China smoke, but they do not all take snuff.

How Bottles Were Used

Nearly all of these bottles that we see in collections are snuff-bottles, though many of them were undoubtedly used for medicines, as the Chinese were great medicine consumers. They used them very much great. Him name Wu Tao-tzu.
White glass with coral tip stopper

Flat porcelain with painted scene

Porcelain with relief decorations

Carved and decorated porcelain

Porcelain and Jade

The fine porcelain snuff-bottles of the Celestials are indeed things to be treasured. We find them in endless colors and designs. Some are plain, some with under-glaze decoration, some cased with pierced porcelain casing, others with moulded decoration, and still others with painted decoration. Occasionally one finds a porcelain bottle whose glass intentionally simulates glass.

(Continued on page 68)
GARDENS have been the subject of poetry and of romance since the dawn of history. Dreamers and philosophers have wandered in them and found there the inspiration for their songs and stories. The great poets and dramatists have reviled in the glories of gardens and have imagined the wonderful scenes of romance for which the natural surroundings served as an inspirational setting.

There is a fascination about gardens which has caused man from the earliest days to delight in them. From the great natural parks which many cities throughout the world have set aside as breathing and beauty spots down to the smallest flower garden blooming by the side of a little home, they have exhibited as great a range of style and manner as any other forms of outward display which man has prepared for his own pleasure and entertainment.

About the country houses of the United States and in the thousands of beautiful suburban homes which surround most of its cities, the garden always is a feature of the place. There when the weather will permit the guests are often received and entertained. It may follow the lines of the formal Italian or French school of landscape gardening, the rather free and easy style of the English type, or be a combination of several of these varieties. Whatever its form, it portrays probably more than any other outward symbol the character and personality of the individual to whom it belongs.

A New Expression of Individuality

Today the garden can express the individuality of the owner in another way. It has gained a new power and a new meaning. It has come to express another side of the individual’s character.

The garden has come to stand for patriotism, and every American citizen who has a food garden to show at his home is wearing a badge of liberty. For food will help to win the war; and rows of red beets are more to be desired than rows of red roses. There is something more precious in a garden filled with well-trimmed green vegetables than in one filled with white-trimmed box elder. There is a rich beauty in a bed of fine lettuce than in a bed of pansies. For lack of it today is the spirit of a devoted patriotism. The man who plants a garden today is helping to make his home and his country safe for democracy. Every seed he sows, every vegetable he raises means that much added to the food supply of the nation and to the strength of democracy’s fighting forces.

With the great and growing need for food to feed the army of United States, the Allies of America and its own people, there is a spiritual beauty about a garden of vegetables which surpasses that of a sweet-scented garden of flowers. About every home garden in the United States there is floating in spirit if not in reality, the red, white and blue of the American flag. Last year there were planted in this country 3,000,000 home gardens. This was the estimate of the War Food Garden Commission through whose encouragement and inspiration the “war garden” movement was started.

Every Home a Garden Spot

Nothing can be finer than a nation of gardens. Certain states and counties take pride in being referred to as “garden” states or counties. It should be the aim of every portion of the United States and every individual home in that portion to be known as “the garden spot of America.” Nothing could be more worthy of high praise than such a display of patriotism.

There was a time when this country might truly have been called a nation of gardens. It would be well if such a day could come again. It would be a step backward which would be a move forward. In the early days of the Republic few homes could be found where there was not growing, either on the side lot or in the rear, a fine array of vegetables from whose varied assortment the family was supplied throughout the year with a considerable portion of its food supply.

There was sound (Continued on p. 72)
The Residence of Robert Haskins, Esq.

Richmond, Virginia

W. Duncan Lee, Architect

The house is built around a narrow set between the ell of the service quarters and the sun room. A house-length hall divides the downstairs rooms, facing a large living room, which is further enlarged by a porch. Dining room, kitchen and pantry are in the other side, running back into the ell.

An interesting study in roof lines is presented by the rear elevation. Although they are broken, all are harmonious to one pitch. The irregular fenestration and the use of lattice and window boxes give this intimate side of the house a charm that will be made complete when the garden is fully developed.
A simple test for soil acidity may be made with blue litmus paper. Dampen the soil, and if it is acid the paper will change to a reddish color.

**The soil is the foundation of gardening.**

The fully competent gardener must understand soils as well as the cultural requirements of the various vegetables which he attempts to grow. Most gardeners are inclined to neglect this side of the gentle art of growing things, as being too technical and as requiring too expert knowledge for them to attempt to become really familiar with it. "Soil chemistry," bacteria that look as though they had been invented in Russia and then translated into German, talk about hydrostatics and hygroscopic moisture in the soil, and all that sort of thing, are enough to discourage the layman from trying to find the time to pursue the subject further. As a matter of fact, however, the whole question of the part played by the soil in the growing of successful gardens is based upon commonly known principles and ordinary "horse sense."

In the first place, then, the soil serves a double function. First, it is in itself a source of plant food which is required to support plant growth. Second, it serves as a medium or container in which we can place the raw material—plant food, moisture, air, and so forth—on which plant growth may be manufactured. The soil, to express it in another way, is at once the manger and the food within the manger.

**Soil Character and Productiveness**

The soils to be found, even in a comparatively small area, differ so much from each other that one cannot profitably be used for gardening purposes, while others will grow fairly good crops of vegetables with no attention further than planting and cultivating them. On the whole, however, the beginner is rather apt to exaggerate in his own mind the importance of the natural adaptability for gardening purposes of the soil at his disposal. All but the very poorest of soils under the most adverse conditions may be made to give fairly satisfactory results without any prohibitive outlay of money or work. And only the very best of soils, which are just as seldom encountered, will give satisfactory results without considerable attention on the part of the gardener.

Soils differ from each other in several ways. In the first place, they differ as to origin; some come from worn, disintegrated rocks, others from the gradual accumulation of decayed vegetable matter. In ordinary farm lands, we speak of soils as being clay, loam, sand or muck. Anyone knows, in a general way, what the differences between these are. It is seldom that any of these are found in unadulterated form where one is likely to have gardening to do. Let me explain, briefly, the advantages and disadvantages possessed by each, so far farming or gardening is concerned.

In a clay soil—it may be "red" or "blue," "white" or "black"—the soil particles are extremely fine. This in itself is a very desirable thing theoretically, since the smaller the soil particles are the more thoroughly is the plant food they may contain exposed for use by the roots of the growing crop. As a matter of fact, however, pure clay soils when wet cannot be worked, and contain such a high percentage of water that the growth is reduced to a min.
A Footnote or Table Runners

The House & Garden Shopping Service will be glad to purchase those for you or send you the shop's names. Address, 15 West 66th St., New York

Certain types of tables can carry runners of Madeira embroidery, such as that shown in the center below. 30" wide by 54" long. $9.50

Used with or without a color or mat, the runner of filet lace pictured below would have distinction. 17" wide, 44" long, $23.25

March, 1918

but or may stop altogether. When dry, they are likely to bake, becoming so hard that they cannot be worked, and shutting out air and moisture from the plant roots. A pure clay soil, therefore, is undesirable for gardening, though it may be fairly rich in plant food.

A sandy soil, on the other hand, is likely to sustain very little plant food. While water passes through it readily, very little will be retained. While it may be cultivated more conveniently than any other soil, in hot weather it becomes so loose and dry that growth is soon brought to a standstill. A sandy soil, therefore, is undesirable for gardening.

Muck soils, in their natural condition, are most always too wet for successful cultivation. When they have been drained they are stillly deficient in available plant food, although they may be as "black as your hat" and therefore look "rich." In some cases, they contain a considerable amount of nitrogen, which makes for luxuriant growth of some things. Such soils are, however, very retentive of moisture and can be worked soon after wet weather and in the driest of weather—although they may be so light and spongy that some crops can be grown in them only with difficulty.

While such things as celery and lettuce may be grown upon them, the root crops and most of the other vegetables are inclined to develop unevenly, and the production of most always too wet for successful cultivation.

Loam soils—which are usually designated as either clay loams or sandy loams—are a combination of clay or sand with other material such as a gradual accumulation of decayed vegetable matter which, from year to year, has been added to the soil through the growth and decomposition of plants and grasses of various kinds. A loam soil may or may not be supplied naturally with plant food, and may have too much clay or too much sand in its composition. It is, of course, better than either sand or clay alone. Usually, however, it is far from ideal both in its contents of plant food and in its mechanical character.

In connection with any of these types of soils, there are also other things to be considered. One is the exposure of the land; is it sheltered from the cold north and northwest winds? Does it lie well up compared to the surrounding country, or in a hollow or pocket? Is the sub-soil beneath it such that any surplus water will be readily carried away or held back, to keep the surface soil wet?

Ideal Soils

It is quite certain, therefore, that the gardener who expects to find ideal garden conditions ready made for his use is pretty sure to be disappointed. The method which he will probably have to follow in the end, and the one which he had best adopt at the beginning, is to take the land he has at hand and build up the necessary conditions ready made for his use is pretty sure to be disappointed. The method which he will probably have to follow in the end, and the one which he had best adopt at the beginning, is to take the land he has at hand and build up the necessary conditions.

The use of table runners is excellently illustrated in the dining room of the residence of Dr. C. Osborne, Boston, Mass. Lee Porter, decorator.
YOU consult me about buying a picture. What sort of a consultant are you looking for? One who will make a snap venture at your symptoms and prescribe nostrums, or one who will help you to understand your own case and cooperate with you in treating it?

Too many people want to be saved the effort of understanding themselves and exercising their own will and judgment. In the case of pictures, they look to someone who professes to be an expert to tell them whether they ought to buy a picture and, if so, what sort of one. Probably, they have already “put it up” to an architectural expert to prescribe the type of house they ought to live in; and to an interior decorative expert how it should be decorated and furnished. They deliver themselves seal and body into the hands of experts. Granted that the experts are honest and competent to give good value for the money, their clients nevertheless get something that conforms to the taste of somebody else and is in no sense an expression or part of their own lives.

So I put the question: Do you want to buy a picture yourself or have someone else buy it for you? If you wish to make your own selection and purchase I am ready to cooperate with you; my aim being to help you to discover any inclination of your own that may indicate the direction in which you should choose and to suggest to you certain tests by which you may fortify your choice.

Know Your Own Home

It is understood then that you yourself are going to buy a picture—either because you have been led to think that a picture is a desirable thing in itself, or because you have been advised that it is needed to complete the decoration of one of your rooms. Let us consider the latter case first.

Now, you ought to know your room better than I can, even if I visit it, because you have lived in it. If you have not already summarized your impressions of it, try to do so. What is its prevailing characteristic? Comfort or elegance? Solidity or lightness? Formality or informality? Would you describe the feeling of it as intensive or extensive? Has it, that is to say, a feeling of being closed in, concentrated, suggestive of intimacy—the feeling one may associate, for example, with a dressing room, a den, a study? Does it extend a welcome to outside influences, as a reception room or drawing room, which needs a throng of visitors to complete its effect; or as a breakfast room, morning room or bedroom that, especially

in a country house, seems to invite the presence of morning sunshine?

The answer to such questions as these will help you to determine what character of picture to select. It will have a bearing on the subject of the picture, its color-scheme, whether it shall be high or low in key, solid or light in texture, rich or delicate in suggestion, and whether its medium shall be oil-paint, water-color, pastel or some form of line work, such as an engraving, etching or drawing.

Easy—Too Easy—Generalizations

Now on all these points if you are playing merely for safety, it is easy to generalize. If your dining room, for example, suggests solid comfort, and is furnished in darkish or low-toned colors, you will be safe in selecting a portrait painted in oils in a low key; that is to say, without the introduction of clear, bright light and with pigments that are very little mixed with white. On the other hand, for your reception room, supposing that it is decorated and furnished in a high key and is rich and sumptuous in general effect, you will be safe in selecting an oil-painting in a high key, say of fruit or flowers; whereas, if the general impression is one of lightness and elegance, a water-color or pastel may be safely used. Or in either case, a landscape or figure subject may be substituted, especially if the composition is distinctly decorative; if, that is to say, the artist has not only represented objects naturally but has also arranged the masses and colors of his composition so that they form an ornamental pattern. Again, it is a safe generalization that, if the room suggests intimacy, you may choose a picture that will bear looking into, that actually invites close study—a quality which particularly distinguishes etchings, engravings and original drawings.

But, after all, such generalizations have the value merely of suggestion. If you try to apply them literally, as an artisan mechanic follows the specifications put into his hands, you will make little or no advance in personal judgment and taste. They are of no real value except in so far as they may prompt your own mental activity, you to the professional, and lead you to be conscious of and to rely upon feelings of your own. Then you will discover that there is nothing in the above suggestions that cannot be contradicted in practice.

Value of Contrast

For example, they are based on the easy-too easy—principle of like fitting like. Too clever hostess rejects this way of selecting guests for an intimate dinner party; she invites a variety of tastes and temperaments, so that the monotony of agreement is avoided and the sum and brilliance of the occasion are enhanced by contrast. And contrast equally is a source of piquancy in decoration.

Thus, to reconsider the question of selecting a picture to complete—say, as an overmantel—the decoration of your reception room. Suppose that the prevailing color of the latter is a delicate rose; your picture, in order to furnish an accent—a culmination—to the color scheme, will do well to offer a contrast. It may be one composed of similarities or of differences. A contrast of similarities can be secured by a picture that introduces richer hues or deeper tones of rose, extending to crimson while for a contrast of difference you may resort to a predominance of the complementaries, colors, blue and yellow, either separately or in their combination—green.

You can readily see what opportunities of refinement of taste this offers to the buyer of a picture that is to form the accent of the room in which it is to hang. It demands, in fact, that the intelligent buyer of a picture shall cultivate as nice a sense of color as a lady of discriminating taste employs in the color scheme of her costume. Of course a lady can dress well without this color sense, by leaving every initiative and decision to her dressmaker. But it is not to be supposed it is not to be denied that those who wear a dress with really personal distinction are those who can cooperate with the dressmaker through having this feeling for design and color. And the same holds good in the selection of house-hold decoration. You cannot leave everything to the decorator and expect your room to have a distinctive personal to yourself. And speaking of design, it is the eye for line (Continued on page 82)
THE FABRICS THAT BLOOM IN THE SPRING

Of the dozens of new designs of fabrics the House & Garden Shoppers have chosen these seven as representative types. They are all good designs, moderate in price and adaptable to many kinds of rooms. The names of the shops will be sent on application, or you may purchase these fabrics through the Shopping Service, House & Garden, 19 West 44th St., New York City.

(Right) Very decorative is this bold patterned cotton cretonne with its gay rose, blue and mauve flowers on a gray ground. It is an English block print, 31" wide, and sells at $1.90 a yard. Its brilliant coloring would add cheer to the country house living room.

The rage for the Directoire has extended to less expensive cretonnes. This French cotton print has small octagonal medallions of quaint little people on a green and white striped ground. Also comes in a gold, copper color and gray stripes. 36" wide. $1.20 a yard.

Another delightful cretonne for the nursery is called "Sleeping Beauty," showing the figures of a fairy tale in delicate colors interwoven on a pale yellow ground. Six other ground tones are available. It comes 36" wide. The price is $1.35 a yard.

What could be more appropriate for a simple country cottage dining room than this checked cretonne? It comes in four colors—violet, brown, tan and rose, each on a white ground. It would look very well with a plain edging of the same color as the design. It measures 32" wide and is priced at 60 cents a yard.

The latest note in decoration, a domestic tint of Egyptian design. Bold colors black, dark blue, gray, orange, misty blue and taupe. 36" wide, 85 cents.

Here is a decided Japanese feeling in design of this new, heavy cretonne, with coloring—blue and dark green are predominating colors on a natural linen ground. It would be most suitable a living room in the country, and very attractive on a screen. It is 36" wide and sells for $1.25 a yard.

All the nursery rhymes come to mind when you see this cretonne. It has a soft green background with terra cotta and black and white in the design. Besides being only 55 cents a yard, it has the additional advantage of being gay but not perishable.
SPANISH WALL FURNITURE of the 18th CENTURY

The Influence of Other Continental Furniture Modes on the Product of Iberian Cabinet Makers

HAROLD DONALDSON EBERLEIN and ABBOT McCLURE

NOT all 18th Century Spanish furniture is essentially Spanish. The Spanish furniture of an earlier date, whatever similarity to the mobiliar-creations originating in other parts of Europe it may have exhibited, was, nevertheless, so overwhelmingly Spanish in its general character that there is no mistaking its identity.

In the 18th Century, on the other hand, the channels of outside influences were so numerous and varied, and the outside influences themselves were so potent and permeating that their successive effects upon Spanish furniture design produced a manifest cosmopolitanism. The fact of the matter was that the vigor of Iberian originality, so abundantly evident in preceding periods, had considerably abated. Spain was now, in her era of creative impoverishment, she was borrowing back again in a diluted and altered condition what she had given. Moreover, the trend of political and economic circumstances, and the shifting of fashion centres consequent on the growth of commerce and transportation facilities, had opened the door to an increased influx of English and French ideas as well as to the actual importation, to some extent, of furniture and other household equipment from those countries, an importation that produced very visible effects upon the handicraft of native Spanish artisans. The case of Spain, in the matter of furniture styles, was closely analogous to the state of affairs in Italy during the same period.

Spanish Individuality

But despite the manifest effects of outside influences and the aping of foreign fashions, Spanish individuality could not fail to assert itself any less than could Italian individuality under like conditions. It imparted a strong bias of distinctly national interpretation to whatever work was undertaken, even though the source of inspiration was obviously indicated by it; it is this patently national quality, grafting each stock of foreign derivation, that 18th Century Spanish furniture possesses. Its piquancy and not a little of its charm is a certain undeniable fascination in pieces whose affinities are plainly Queen Anne or Sheraton, for instance, and yet "dressed in Spanish garb and speak Spanish.

It is this element of national quality that 18th Century Spanish furniture possesses in decorative practice and creates its possibility to certain situations that nothing quite so fully satisfy. It sometimes exhibits robust, full-blooded gorgeousness and occasionally deep-rooted national temperamental colorfulness displaying itself in the profusion of Italian flower designs, sometimes closeness of detail, echoes of other and not unimportant characteristics, but it is the complex disposition.

Throughout the 18th Century period when all refinements of furniture had reached the point of elaboration, Spain, with its innate love of color, and inherent passion for elegance, behind other countries, for instance, in her taste for household appointments. In the matter of wall furniture, therefore, all the items are gathered into the category of Oriental styles, and one or two besides that were peculiar to Spanish craftsmanship.

Oriental Influence

In point of color, of the earliest illustrated is the blue lacquer bureau bookcase, closed, with gold decorations. Circa 1715-1720. A small marbled and gilt "Bilbao" mirror. Made about 1770. Courtesy of Traver (Below) Walnut cabinet with red shell inlaid panels and wood inlay arabesques. C. 1690

Some lacquer bureau bookcase, closed, with gold decorations. Circa 1715-1720. A small marbled and gilt "Bilbao" mirror. Made about 1770. Courtesy of Traver

Same lacquer bureau bookcase, closed, with gold decorations. Circa 1715-1720. A small marbled and gilt "Bilbao" mirror. Made about 1770. Courtesy of Traver

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Occidental hand. The significant feature of this piece, seemingly unimportant but really telling an important story, is the contour of the legs and the treatment of iron. While they bespeak the rising ascendency of the curvilinear influence in furniture, which was coincident in time with the phases of Baroque expression in architecture and which was to dominate furniture for many years to come, they do more. The exquisitely bold and high-shouldered line of the convex, virtuously identical with the contour of Chinese "inverted mushroom"-shaped jars; like the vigorous outline of the convex, virtues, which descends from the unifying, is plainly evident of analogies displayed by Chinese teakwood and other pieces of furniture. As we turn from history the moment of contact with the Orient with the agency of Portuguese enterprise, we know also to the extent the Spaniards were indebted to Portuguese neighbors, much of what is best in their most esteemed art, it is not unreasonable to infer that the design for these table legs of archaic cabriole type, as well as the inspiration for the apron form, came directly from a Chinese source through a Portuguese channel.

The blue lacquer bureau bookcase with gold decorations, a slightly later piece than the table, shows a further development of the curvilinear influence in the more mellow, flowing curve of the cabriole legs, the shaping of the stretchers and the lines of the cresting with its cartouche-shaped perforation which is quite Baroque as well as quite Chinese.

The Vigor of Contour

This early 18th Century Spanish furniture commands our respectful attention and study, study from which we shall certainly gain more than one note of inspiration for profitable employment in our own decoration. There is a certain downright, buxom vigor of proportion and a freedom of line about much of that contrast rather strongly with the comparative restraint of contour observable in contemporary English furniture. Were it not for this same free-flowing sweep and rotundity of curve and the generally rapid activity of line the (Continued on page 78)
The architectural design was inspired by an old cottage in Surrey. A study of the general lines and details shows how successfully this inspiration has been worked out. The roof lines have an interesting and harmonious pitch. Rough, variegated slates laid in a random fashion give color to the roof. To the rich texture of the walls is added the interest of an occasional advanced header. Casement windows enhance the effect of cosiness and complete the picture.

The entrance is a composition in itself. Eaves swing down low, with a pent roof covering the door and the windows. A broad breasted chimney intervenes, capped with decorative brick tops and chimney pots. The entrance is flanked by fine old box. The path is of broken flagstones.

The plan illustrates a cottage primarily for farmhouse life, with combination kitchen and living room. Four bedrooms and a large bath on the second floor. It is a plan that can readily be adapted to small family use. The space is sensibly divided and the dining room elegant.

A COTTAGE
on the ESTATE of GEORGE ARENTS, Jr.
RYE, NEW YORK
LEWIS COLT ALBRO, Architect

Photographs by Buckly
A mellow furniture composition, distinguished for its appreciation of the styles, is found in this grouping in the home of Demarest Lloyd, Esq., Boston, Mass. The chairs are early 17th Century Italian, upholstered in rich gold brocade; the console is late 16th Century Italian; the mirror has a Spanish Renaissance frame. To the composition is given a worthy background of paneled natural wood. Lee Porter of Wingate & Son, decorator.
Four rooms from the residence of Mrs. Lawrence H. Armour, Lake Forest, Ill. The living room combines in restraint 18th Century Italian, French and some English furniture. Walls pale Adam green, rug gray.

The simplicity of the dining room is found in the paneled background, the fireplace and the combination of Heppelwhite chairs with a Phyfe table. Vertical lines of hangings counteract the effect of broad doors.
The bedroom is a comfortable working room, with dignified open shelves, comfortable chairs, and a painted writing table in front of the window. Miss Gheen, decorator of these rooms.

In this bedroom the curtains are champagne colored silk with blue fringe. The cabinet is an 18th Century Italian reproduction. A late 18th Century Italian window seat serves for dressing table bench.
It is a fallacy that paved floors are necessarily cold, cheerless and uncomfortable. One can have as many or as few rugs as desired, and from the housekeeper’s point of view the arrangement tightens work, as such a floor can be readily mopped up. Moreover, it has visible solidity which conveys a satisfying sense to the eye. Both these points are illustrated in the living room shown below. The floor is paved with small biscuit-colored quarries. A hallway adjoining is paved with checkered black and white marble tiles. George Howe, architect

As a flooring for a country house entrance hall, no medium is as satisfactory as a paved floor. This is from “Allonsby,” Laverock, Pa., the residence of Charles Platt, 3rd, Esq. I. P. Simms, architect

Another type of entrance hall has a pattern of small irregular quarries studded with lozenge-shaped inserts, the tiles are surrounded by a border the same tone as the walls, giving a rug effect. Wilson Eyre & Millvaine, architects

The solarium almost requires a paved floor. Here large red quarry tiles are used. Wilson Eyre & McIlvaine, architects
PAVED FLOORS AND GALLERIES

Brick, Tile and Cement and the Effects That Can be Gotten
With Them Inside the House

THOMAS BRABAZON

PAVED floor is sanitary; it is likewise fireproof and easily kept clean. Doubtful, if one tried a bit, one might discover several other sterling qualities to recommend the resaid paved floors to the favorable consideration of householders and house builders.

The Gamut of Materials

To give a short summary of possible materials, a paved floor may be laid with stone, brick, tile, with cement or with any combination of them that may seem desirable to the persons concerned. The general heading, stone, of course, includes marble and mosaic, and there may be as many kinds of stone flooring as there are kinds of stone and they may be laid in as many fashions and patterns as it is said to abound in the mind of man to devise. Tiles afford a well-nigh inexhaustible diversity in color, texture and pattern; cement and its concrete compositions, such, for instance, as terazzo, offer a far greater scope of variety in agreeable treatments than most people, who have not sufficiently investigated the subject, imagine—not at all the deadly monotony of a repulsive, harsh and unsympathetic surface usually associated with raw cement, especially if it be in some way incorporated with the composition. Finally, even the despised and commonplace brick may be subdued with dignity and distinguished charm if handled in a straightforward, unaffected manner, and kept free of any display of laborious and faddish 'stunts.'

The places for such floors as any of the varieties just enumerated, are obviously and manifestly suitable to halls and long galleries or passage ways, solaria or enclosed sun porches, conservatories and masters' offices or dens—an unpleasant term disregarded with that inattention that so often ignites carts between lars—where the presence of guns, fishing rods and tackle, sports paraphernalia and all the sundry small adjuncts incident to country residence, to say nothing of emerg-ency footwear for inclement weather conditions and the frequent comings in and goings out of gardeners and other retainers in hobnailed shoes, would auger ill for a be-rugged or be-carpeted or polished wood floor. Outside of bath-rooms, pantries and kitchens, the aforementioned places naturally suggest themselves to conventionally minded folk as suitable for paved floors, but there is no reason why the paved floor should not equally well appear in any other room in the house, either upstairs or down. Thank heaven, we are rapidly passing beyond that artificial stage of social development in which there must be in every house some depressing, unservicably furnished and generally uncomfortable room which nobody ever uses when they can help it, call it parlor, reception room, drawing room or what you will—its actual existence is a libel upon the ideal represented by each of these names—and we are coming more and more to insist upon having only rooms that we can all use, all the time if we choose, with pleasure and satisfaction.

The Livable Qualities

Now, in such a genial room, into which all the household can come with freedom and in whose enticement they feel disposed to linger, there is no good reason why there should not be a paved floor if the owners fancy its very human and substantial charm.

In the first place, the idea that it is necessarily cold, cheerless and uncomfortable is an utter fallacy, as those who have escaped far enough from the trammels of convention to try it know by experience. One can have as many or as few rugs as desired, and from the housekeeper's point of view, this arrangement is exceedingly manageable. Furthermore, children, dogs, cats and other personalities who will not or cannot use the door mat upon entering the house, can come in freely on a paved floor without calling forth disapproving glances; growing plants can be set about and watered without the fear of spoiling something; and in every other way the daily small things that mean so much and make so large a part of family life can go on unhampered by the restraint that always attends the presence of flooring or of floor covering of a damageable complexion. The right kind of paved floor in a living room is really a humanizing factor in family life. It possesses a sturdy adaptability to all the moods of a room and of the family who occupy it and, like an old shoe, the longer it is trodden the more friendly and comfortable it grows. Besides all this, a floor is primarily a foundation, and the visible solidity of a paved floor carries a satisfying sense of conviction to the eye. So much for the psychological effect of a paved floor upon the people who live with it. What is true of paved floors in living rooms is equally true of paved floors in dining rooms and in other parts of the house.

Their Decorative Value

And now we come to discuss paved floors from the solely decorative point of view. In this connection there are certain general considerations that apply to all paved floors, irrespective of their material. To begin with, the (Continued on page 86)
A VARIETY of CURTAIN BINDINGS

(Left) What could be more dainty for the country house than the old-fashioned dotted Swiss or net curtains? These have a quaint touch in the ruffles of varying size, all edged with an odd little ball fringe. Miss M. A. Lewis was the decorator.

(Right) For silk curtains a double row of diamond-shaped, picoted edging in two colors. Under row a deep rose, top row same shade as curtains—a delicate foam. A great variety of color combinations is possible. Miss M. A. Lewis, decorator.

Ecru colored net gathered into a 6" band of crocheted flat insertion makes this glass curtain. The weight of the insertion keeps the curtain in place.

Bind chintz curtains with 13/4" piping of silk the shade of the chintz you wish to have predominate. Miss M. A. Lewis, decorator.

(Below) Heavy linen curtains embroidered with wool or a strong mercerized linen thread. All black designs on deep yellow.

For the formal drawing room, the dignity of this window treatment is undeniable. Heavy leaf green taffeta edged with a black and green 2" silk fringe. Inner curtains of thin silk with a self tone tassel to give weight and interest.

One of the most delightful boudoirs we ever saw was done with mauve as a color basis. The curtains were deep cream taffeta with a puffing of the mauve taffeta and caught back in this fashion. The treatment is possible in many pleasing color combinations.
VISTAS IN THE GARDEN

Wherever possible the shrubbery should be so set out in the garden as to afford vistas. This is especially advisable if the garden commands a distant view of great beauty. In this garden, attached to the residence of Mrs. W. H. Day at Mamaronock, N. Y., the rule of vistas has been well applied.
THE TRUTH ABOUT SWEET PEA

Cultural Facts that Ensure Success in Growing Your Own—Why Ninety-eight Per Cent of Flower Quality Depends upon the Grower

WILLIAM C. Mccollom

THE popularity of the sweet pea is anything but a fad. Other flowers come and go: at the height of their popularity the pendulum of public sentiment swings the other way. For isn't it a fact that a great many of our popular flowers have hard and fast limitations? After a certain degree of perfection is attained, the flowers respond no further; they become monstrosities, they lose their form, their color, or some other essential. This is not true of sweet peas, which have been improving steadily for two hundred years. Their stems have lengthened, their flowers increased in size and numbers, with a great improvement in form, range of color, and no loss of fragrance.

Of course, the importance of the sweet pea lies largely in its value as a cut flower. When well grown it has sufficient length of stem for all purposes—stems over 22" in length have been exhibited. The flowers are without doubt the finest formed of any of the more easily grown kinds, and the range of color is greater than in any other annual. For garden effects, too, sweet peas are ideal. They can be grouped in perennial plantings by using poultry wire columns to support the vines; they can be grown in tubs for piazza or house decoration, or with special supports such as huge globes, pyramids, umbrellas, etc. The quality of the flowers is 98 per cent dependent upon the grower. You can blame no one but yourself if your sweet peas are not good.

The Sweet Pea's Origin

The sweet pea came originally from Sicily, Ceylon and Sardinia, each land contributing different colored specimens. If we could see what these small, short stemmed, miserable colored flowers were like we would have a direct answer to those who continually shout about how Nature cares for her own. She does care, but not with the same degree of perfection that man does. The sweet pea entered the commercial field about 1700, and it is only since that time that we can estimate the improvements. Then the wings were no larger than the standards, while today they measure fully 2" across in first class flowers. The stems were 2' or 3' long, while now they are almost 2'. Sweet peas are the most responsive flowers we have in cultivation. If you scatter a little fertilizer at the base of the plants the hungry little white roots will come up and get it. The plants are willing to live without being watered. Their weakness is a dislike for hot weather, and this being gradually but surely overcome by the introduction of varieties that have more heat-resistance.

There are two distinct methods of handling sweet peas in the vicinity of New York and not far away. One is to plant the seeds in pots in a greenhouse some time during late February or early March, and after a hardening period to set the plants out when the weather is favorable. The other is to sow directly into rows out of doors, just as early as the ground can be worked. The former method is preferred but only a small percentage of the lovers of this grand flower have a greenhouse.

Starting Seeds Indoors

When starting indoors several seeds are sown in a 4" pot. These are later thinned out one plant, of course always selecting the strongest. The soil used should not contain much fertilizing value or the plant will respond with an undesirably heavy growth. The object is to get a well established root system with a minimum of top growth. The pot should be placed in a greenhouse or in the window at night and the temperature should never exceed 50°. About April 1st the hardening off process can be started. It should be gradual but thorough, and ought to take from three to five weeks, to be on the safe side.

To quote from a reliable authority, "the trench should be well prepared." But just digging under a little manure is not sufficient if you want good flowers. The soil the plants are to grow in must be lavish in rich manure in liberal quantities, a fair sprinkling of bone meal, and some lime. Sweet peas, like other legumes or pod-bearing plants, will not do well in soil which is acid.

A simple way to prepare the ground is to dig trenches 2' deep, placing the top soil or spit on one side of the trench and the bottom soil at the other. Place several inches of well-rotted manure in the bottom (hard yard manure is preferred), you can get it cheaper and even about 6" of soil into which h
neglect to thin out the young plants to about 6" apart when they are large enough to warrant doing so.

Whether the seeds are started in the greenhouse or sown out of doors, the methods of handling from this time on are practically the same. When the plants are about 6" high they should be hilled up to prevent them from blowing over before they are supported artificially. The addition of these supports should be postponed just as long as possible, as they produce shade and stop to a certain extent the proper circulation of air. The proper time to support the plants is when they start to grow rapidly and the young shoots are sending out their long, clinging tendrils in search of something to catch hold of.

Good birch brush unquestionably makes the best sweet pea support. It allows the plants to ramble in a natural way, which eliminates crowding, and permits the air to circulate.

Watering and General Care

Sweet peas are water lovers, yet they will resent stagnant water more quickly than the average plant. Don't plant them on poorly drained ground or they will surely mildew and be disappointing. Artificial watering is a necessary evil in dry times, but when it does become necessary it should be done thoroughly. The ground should be literally saturated, making tests with a crowbar or sharpened stick to be sure the water has penetrated to the bottom of the root system. Don't water the foliage, as this promotes mildew and does no good. Let the hose run alongside the trench, so slowly that the water soaks in instead of running away. When the surface dries it should be cultivated to retain the moisture. A mulch of cut grass or some like material will also be effective in helping to conserve the moisture and keep the roots cool.

Gather your sweet peas daily. Cut the plants clean, for if seed pods are allowed to mature flowering will cease. Early morning is the proper time to gather the flowers, as (Continued on page 68)

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**Picture Captions**

- Keep the blossoms cut. By thus preventing pod formation you will prolong the blooming season
- Artificial watering, when resorted to, must reach the roots. Holes made with a stake ensure this
- A well developed plant, started and grown in a pot under glass, ready for setting out in the garden
- When the plants are about 6" high they should be hilled up to lessen the danger of breakage
This month our shopping found such a variety of interesting china and glass that we devoted two pages to them. The names of the shops may be had on application, or purchasers may be made through the Shoppy Service, House & Garden, 12 West 44th Street, New York.

"Eat mushrooms," said Mr. Hoover. So we find a crystal mushroom cover with blue band and rose decorations, 4" wide, English earthenware, plate to match. Complete per dozen, $12.

For that supreme luxury of breakfast in bed, or the hurried breakfast of the business woman, or the more leisurely and solitary breakfast of the bachelor business man, comes this individual breakfast set consisting of 17 pieces with a white enamel tray. The set is English ware with Chinese pheasant design in Delft blue: $12 with tray.

Japanese serving tray for fruit or cake, yellow and blue striped edge, floral decorations in center. 12" diameter. $3.50.

Because of the war, only a limited number of these Louis XVI bonbon cups and saucers are available. Dark blue and gold decorations, unth gold edge and handle. $18.65 a doz.

For a particular hostess comes this crystal mayonnaise bowl, 6" in diameter, with plate and ladle of glass. Complete for $5.

A thoroughly serviceable, everyday breakfast set. It has a hand-painted pheasant design of roses and corn flowers with dark green leaves. The set comprises six breakfast plates, bread and butter plates, fruit saucers, coffee cups and saucers, egg cups, cereal bowls, one 12" platter and one round bread tray. The set complete for $20.
Not the great Auk, gentle lady, but an Italian Primavera pottery plate with blue, yellow and green decorations. 9 1/2" diameter. $1.35 each

Simple, undecorated glassware: decorations to order extra. Goblets, $4.50 doz.; claretets, $4; finger bowls, $4.50; finger bowl plates, $9.50; ice tea, $2.75

The base of the lamp is wood and shade is of parchment paper available in practically all pastel shades. Base, 8 1/2" high, 8; shade, 10" wide, $15

There’s the suggestion of a Pompeian decoration about this Wedgwood salad set. It consists of salad bowl and plate, mayonnaise bowl and plate and 12 other plates, all octagonal in shape. $22 complete. Design is executed in black and yellow.

Really a reproduction of old Spode. This breakfast set of Copeland embossed china with a dainty flower design consists of breakfast plates 89 a doz.; cups and saucers, $1.30 a doz.; egg cups, $6.50 a doz.; cereal dishes, $6.65 a doz., and platters $2.70 each.

Folks tell us that the tea habit is growing in America. Good! It is ready for you now. The set is of rich dark blue pottery: a tea pot, 5" high and 8 1/2" wide; sugar, creamer and tea tile in proportion; plates 7 1/4" wide—there are six in the set—and six cups and saucers. This set comes complete for $10. The table is interesting too—walnut, oval top, with gold rim. 23" high and top 23" by 20". $16.50
The original house was "Court of Hearts." To this was added a barn. Then the owner bought a farmhouse on a hilltop fifteen hundred feet away and moved "Court of Hearts" up to it. Today only an expert could tell where the original structure left off and the additions commenced.

THE HOUSE THAT WAS MADE OF THREE

A Barn, "Court of Hearts" and a Farmhouse Were Combined to Make a Rambling New Hampshire Country Home

MARY H. NORTHEND

The readjustment of a remodeled house through additions is not a simple thing to accomplish. The putting together of three old buildings to make a comfortable and livable home is more difficult still. And yet a fine example of what can be done in this way is found in the home of Mr. Prescott Bigelow at Kitzwilliam, New Hampshire. Mr. Bigelow was his own architect, though measuring and drawing plans is not easy when one puts two houses together, remodeling them both, as he did.

The Original Home

"Court of Hearts," the original home, was too small, and while casting about for a remedy the owner decided to work out a scheme of his own that would fit his needs. It ended in the purchase of an old farmhouse that stood high up on the hill. Already an old barn had been introduced into the original building for additional space, but still more room was a necessity. So the "Court of Hearts" was moved about fifteen hundred feet up the hill and joined to the new home.

The tendency of the present day is to specialize, and that is just what Mr. Bigelow did. Little thought was given to the exterior, though comfort and correct furnishings entered into the scheme. It was not in a day or a month that the changes were made, for right results rather than haste were desired.

In viewing the house today only an expert could determine where the original structure ended and the additions commenced. The rooms at the front of the house were in the old structure; the barn joined in at the right. At the rear and on one side was the "Court of Hearts," finishing out the hallway and forming the dining and living rooms, while an ell was added for the service department.

The heart of the development was the hallway, originally small and contracted. Partitions were taken out and openings made with a view to creating vistas. This gave an air of spaciousness unusual in houses of this type. The double staircase was interestingly worked out, meeting on the second floor.

With the exception of one room finished in hardwood for dancing, the floors were left to show the original wide boards. An harmonious note, found in every part of the house, is given by the soft gray tone of these floors. The hall has a pastoral paper which is a reproduction of a foreign make, and shows rag mats such as were made in our grandmothers' time. The slat-back furniture, the latches and locks are evidences of how carefully each detail has been conceived and worked out.

The rise in the hallway shows where the old barn was introduced. Being of lower status it was raised to meet the ceilings, necessitating steps between the rooms. With the introduction of the "Court of Hearts" the floors were planned for the same level as the older part of the house.

Colonial Individuality

Each room was carefully considered so that it could be finished and furnished desirably, keeping to the period and allowing no overloading, with the exception of the den, which is a typical man's room and so gives excuse for showing his collections of old kitchen and farm implements and rare old English prints.

The practical working out of the fireplaces is unusual. They follow the old-time methods perfectly, even to the corner bricks which were used in every fireplace of that period. The idea is featured in each room; and months of exploration, particularly old cellars and dilapidated houses, were necessary to secure the genuine materials. In the old days the hearths of the fireplaces were never of brick, but after long searching enough of the original type were collected for the house. The stone hearths are carried out in the old-time style with the exception of one, which is of rare 6" square bricks—an unusual and yet correct treatment. The successful handling of just this feature shows what time, thought and patience were given to each and every detail that it might when finished be an ideal example of what a remodeled house should stand for.

Do not for a moment think that these fireplaces as they stand today were in this condition when Mr. Bigelow acquired the place. Many of them had been bricked in to accommodate that abomination of house heating, the air-tight stove; while others were so small they had to be enlarged.

The mantels are practically the same as when the
The floors of the living room were laid hard wood to complete the hospitality for those who dance. There is one especially interesting one found in one of the rooms. The parlor which was part of the original house has been papered in gray and old rose-colored draperies were chosen. The windows small panes.

Interesting Wall Coverings

A choice of wall colors has done much to bring the quality of the furniture, pictures and mirrors, that would make almost impossible for one not well posted on architecture to grasp. It is not alone the treatment that makes this remodeling such a success. It is the daring to work out ideas that were obtained not so much from the conventional books on Colonial architecture as from actual study of old houses far and near, to find out exactly what were the dominant features of that period needed to bring about the desired results. Consistency in furnishing is found in the simple paper and hangings old prints. Each bedroom is given a different treatment.

In the dining room is used an old paper with coaching scenes. The curtains match its coppery background which are especially dyed to meet the requirements of the paper. Every chamber in the house has a different treatment. Some of the beds are high and some low four-posters, and the coverings are wonderful quilts which show ingenuity and effective designs, each one different in theme.

The Porches

Outdoor life is prominently featured in this home with its situation on high land and its outlook over wonderful views on every side. The upstairs living room, large and spacious, is a sitting room and sleeping porch combined. In the Windsor chairs which form the majority of the furnishings we find generally the nine uprights which show that they were used by the squire instead of in the kitchens, the chairs for the latter room being designated by only seven uprights. There is a unity in the finished whole that makes it almost impossible for one not well posted on architecture to grasp the time and thought that had been given in order to accomplish a whole correct in each and every detail. It is not alone the treatment that makes this remodeling such a success. It is the daring to work out ideas that were obtained not so much from the conventional books on Colonial architecture as from actual study of old houses far and near, to find out exactly what were the dominant features of that period needed to bring about the desired results. The careful choosing of furniture, floor covering and curtains is evident in every room.

The Colonial spirit has been preserved in the bedrooms with their high or low four-posters and reproductions of old rag rugs. The "front room" has an old-fashioned paper, rag rugs, furniture, mirrors and last century silhouettes to harmonize.
March is the month of waiting. The skunk cabbage, with its mulch of sudden leaves in the swamp, the violets under the moss on the sunny slope, the March butterfly in its somber pallid, and the impatient gardener behind his rain-window all are waiting. I like to think of March as the dark hour before the dawn, which means so sudden a change that the long-expected day always arrives with surprising suddenness.

Are you prepared for an early spring? If so, after this month of unpropitious winter which we have been through, the ground is ready to plant by March 15, you will have things ready to go ahead with the work? If so, there is an unusual exception to the general rule. Many things which might be done now will have things ready to go ahead with the very best plants. Each one must be the seedling plants that they have sown and been hardened off in the open garden. The best plants can be easily transplanted directly in the hotbed or cold-frame, with paper pots; if the plants are potted individually so that it will have soil while small, this was quite possible to keep the soil properly moist and for easier cultivation. By using 2" or 3" pots almost as many of them can be packed into an ordinary seed flat or case of clay pots. You simply tear them apart if they fit closely together they do not have to be knocked out, as in the case of clay pots of the same diameter, and they hold almost twice as much soil as clay pots alone, this was quite easy to give the roots all the soil they need even though they may not be obtained unless the seedlings are transplanted as soon as they are ready to transplant into the open garden. The best plants cannot be obtained unless the seedlings are transplanted so as to produce a bunch of fibrous root growth in place of the single long tap root which the plant naturally sends down into the soil while small.

Start with Healthy Plants

There is only one way to secure the very best plants. Each one must be potted individually so that it will have all the room it can use and not suffer any kind of water logging, they are no more trouble to care for and less trouble to plant.

The essential factors in producing first-class strong, sturdy plants are: good soil, plenty of room, and plenty of air. The hardest part of the work is to get the little seedlings strongly started as described last month. Many gardeners have the seedling plants that they have sown directly in the hotbed or cold-frame, until they are ready to transplant into the open garden. The best plants cannot be obtained unless the seedlings are transplanted so as to produce a bunch of fibrous root growth in place of the single long tap root which the plant naturally sends down into the soil while small.

Soil that is finely broken up gives quicker results to the growing plants. Use fork, wheel-hoe and rake for this work.
### SHRUBS FOR EVERY PURPOSE

<table>
<thead>
<tr>
<th>SHRUB</th>
<th>COMMON NAME</th>
<th>HEIGHT</th>
<th>COLOR</th>
<th>SEASON OF BLOOM</th>
<th>DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>lois</td>
<td>Butternut shrub</td>
<td>6'-8'</td>
<td>Pink, blue, violet</td>
<td>July to frost</td>
<td>A new flowering shrub, but one of the best; sunny position and fairly rich soil. Flowers are deliciously fragrant.</td>
</tr>
<tr>
<td></td>
<td>strawberry shrub</td>
<td>4'-6'</td>
<td>Brown</td>
<td>May</td>
<td>One of the best of the smaller shrubs; very fragrant.</td>
</tr>
<tr>
<td></td>
<td>sweet pepper bush</td>
<td>5'</td>
<td>White</td>
<td>July-Aug.</td>
<td>Very free flowering; a great favorite for grouping.</td>
</tr>
<tr>
<td></td>
<td>Deutzia</td>
<td>3'-5'</td>
<td>White, pink</td>
<td>June</td>
<td>Good for cutting; best effect obtained through massing with other shrubs; charming flowers.</td>
</tr>
<tr>
<td></td>
<td>Pearl bush</td>
<td>7'-12'</td>
<td>White</td>
<td>May-June</td>
<td>Large yellow flowers blossom before the leaves appear.</td>
</tr>
<tr>
<td></td>
<td>Golden Bell</td>
<td>4'</td>
<td>Yellow</td>
<td>April</td>
<td>Most striking when clipped; strong grower; free blossoming.</td>
</tr>
<tr>
<td></td>
<td>Tatarian Honey-suckle</td>
<td>6'-10'</td>
<td>White, pink, yellow, red</td>
<td>May-June</td>
<td>Profuse bloomers; a valued and favorite shrub.</td>
</tr>
<tr>
<td></td>
<td>Mock-orange</td>
<td>8'-12'</td>
<td>Deep pink</td>
<td>June</td>
<td>Flowers of a beautiful shade.</td>
</tr>
<tr>
<td></td>
<td>flowering plum</td>
<td>8'-12'</td>
<td>Pink, red</td>
<td>May</td>
<td>Suiited for dappled places; brilliant in the fall.</td>
</tr>
<tr>
<td></td>
<td>Smoketree</td>
<td>15'</td>
<td>White</td>
<td>July-Aug.</td>
<td>Fragrant; nine foliage; grows well even in moist spots.</td>
</tr>
<tr>
<td></td>
<td>flowering currant</td>
<td>6'</td>
<td>White</td>
<td>May</td>
<td>A shrub of exceptional gracefulness.</td>
</tr>
<tr>
<td></td>
<td>Bridal Wreath</td>
<td>10'</td>
<td>Lilac</td>
<td>June-July</td>
<td>Graciously long spikes; flowers late in summer.</td>
</tr>
<tr>
<td></td>
<td>Chaste Tree</td>
<td>6'-8'</td>
<td>Red, white, pink</td>
<td>June-July</td>
<td>Of robust habit, blooms profusely, and easy growth. (Eva Rathke especially fine; flowers continuously; very deep color.)</td>
</tr>
</tbody>
</table>

### VINES

<table>
<thead>
<tr>
<th>VINE</th>
<th>COMMON NAME</th>
<th>FLOWERS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Silver vine</td>
<td>White, pink, blue</td>
<td>Very rapid growing with dense foliage; good for arbors, trellises, etc. Edible fruits after flowering.</td>
</tr>
<tr>
<td></td>
<td>Akebia</td>
<td>Violet blue, cinnamon center in spring</td>
<td>Good where dense shade is not required; very graceful in habit.</td>
</tr>
<tr>
<td></td>
<td>Boston Ivy</td>
<td>Foliage highly colored in fall</td>
<td>Most popular of all vines for covering smooth surfaces such as brick and stone walls, etc. In setting out dormant plants prune back to 6'.</td>
</tr>
<tr>
<td></td>
<td>Trumpet Vine</td>
<td>Very large trumpet shape; red or orange</td>
<td>Semi-climbing, especially good for covering rough stone work, tall stumps, porch trellises, etc. Unique and attractive foliage.</td>
</tr>
<tr>
<td></td>
<td>Virgin's Flower</td>
<td>Fragrant; pure white flowers in August and September</td>
<td>Extremely hardy and robust; most satisfactory late flowering vine. Especially good for arches. Flowers followed by feathery silver seed pods.</td>
</tr>
<tr>
<td></td>
<td>Evonymus</td>
<td>Coral pink, green or green and white</td>
<td>Extremely hardy; good in place of English Ivy in cold sections. Evergreen.</td>
</tr>
<tr>
<td></td>
<td>Woodbine</td>
<td>Foliage, yellow, orange and red</td>
<td>Old favorite; one of the most popular for porches and trellising. Sunny position; good variegated foliage.</td>
</tr>
<tr>
<td></td>
<td>Wisteria</td>
<td>Purple or white; immense pendant panicles</td>
<td>To twine, not clinging habit, especially good for pergolas, etc. Attains great height with suitable support. Sunny position; rich soil.</td>
</tr>
</tbody>
</table>

### SUMMER FLOWERING BULBS

<table>
<thead>
<tr>
<th>FLOWER</th>
<th>HEIGHT</th>
<th>COLOR</th>
<th>SEASON OF BLOOM</th>
<th>DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monore</td>
<td>12'-18'</td>
<td>White, cream, pink, blue</td>
<td>July-Sept.</td>
<td>Plant in May in sheltered position, in groups, about 6&quot; to 10&quot;. Hardy.</td>
</tr>
<tr>
<td></td>
<td>12'-'-18'</td>
<td>Pink, yellow, red</td>
<td>June-Sept.</td>
<td>Starts in heat; or plant in rich light soil in summer. Water freely.</td>
</tr>
<tr>
<td></td>
<td>38'-48'</td>
<td>Yellow, white</td>
<td>June-Sept.</td>
<td>Plant suitable varieties in rich warm soil. Plenty of water; store for winter in warm temperatures.</td>
</tr>
<tr>
<td></td>
<td>6'-8'</td>
<td>Pink, red, yellow, white (Foliage) green or variegated</td>
<td>June-Sept.</td>
<td>Flower buds start in heat, or plant dormant roots in rich soil. Sunny position.</td>
</tr>
<tr>
<td></td>
<td>2'-'-6'</td>
<td>White, pink; yellow, red, variegated</td>
<td>June-Sept.</td>
<td>Sheltered, semi-shaded position, light rich soil. Store in warm place.</td>
</tr>
<tr>
<td></td>
<td>2'-'-4'</td>
<td>Pink, red, yellow, white</td>
<td>June-Sept.</td>
<td>Start in heat or outdoors after danger of frost, in deep, rich soil; thin and disbud for good blooms.</td>
</tr>
<tr>
<td></td>
<td>10'-'-15'</td>
<td>Pink, red, white, yellow</td>
<td>May-June</td>
<td>Succession of planting from April to June for continuous bloom; store cool for winter.</td>
</tr>
<tr>
<td></td>
<td>2'-'-4'</td>
<td>White, yellow, scarlet</td>
<td>June-Sept.</td>
<td>Single and double forms; easily grown; good for cutting.</td>
</tr>
<tr>
<td></td>
<td>2'-'-3'</td>
<td>Red, yellow, scarlet</td>
<td>June-Sept.</td>
<td>Culture similar to that of gladialis. Plant 12&quot; to 18&quot; each way; take up and protect.</td>
</tr>
<tr>
<td></td>
<td>6'-8'</td>
<td>Blue, pink, yellow, scarlet</td>
<td>June-Sept.</td>
<td>Culture same as above but should be stored in cold frame.</td>
</tr>
<tr>
<td></td>
<td>2'-3'</td>
<td>Yellow, pink</td>
<td>June-Sept.</td>
<td>Plant not in May, or start in heat. June and July planting for late flowers.</td>
</tr>
<tr>
<td></td>
<td>8'-20'</td>
<td>White, pink</td>
<td>June-Sept.</td>
<td>Good for masses or borders; plant two clumps, in early spring. Store like gladialis.</td>
</tr>
</tbody>
</table>
## Vegetables for a Continuous Supply

<table>
<thead>
<tr>
<th>Vegetable and Type</th>
<th>Representative Variety</th>
<th>First Planting</th>
<th>Successive Plantings Weeks Apart</th>
<th>Amount or Number for 20&quot; Row</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bean, bush, Green Pod</td>
<td>Early Bountiful</td>
<td>April 15</td>
<td>2-3 to Aug. 25</td>
<td>1 pt. 15&quot;x4&quot;</td>
<td>In dry soil available; cover first planting 1&quot; deep.</td>
</tr>
<tr>
<td>Bean, bush, Lima</td>
<td>Early Purple Podded Wax</td>
<td>April 30</td>
<td>3-4 to July 15</td>
<td>1 pt. 20&quot;x4&quot;</td>
<td>In dry soil available; cover first planting 1&quot; deep.</td>
</tr>
<tr>
<td>Bean, pole</td>
<td>Golden Cluster</td>
<td>May 1</td>
<td></td>
<td>1 pt. 18&quot;x4&quot;</td>
<td>Plant with eye down, when there is prospect of several days' dry weather.</td>
</tr>
<tr>
<td>Beet, red</td>
<td>Early Model</td>
<td>April 15</td>
<td>3-4 to Aug. 15</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>Plant two rows in each hill, thin to best plants.</td>
</tr>
<tr>
<td>Beet, red, Early</td>
<td>June 15</td>
<td>30 to 30&quot;x16&quot;</td>
<td></td>
<td>Eye down in slightly raised hills; thin to best two plants.</td>
<td></td>
</tr>
<tr>
<td>Beet, red, Late</td>
<td>Apr. 30</td>
<td>12&quot;x12&quot;</td>
<td></td>
<td>First planting shallow, about 1½&quot; deep and extra thick.</td>
<td></td>
</tr>
<tr>
<td>Beet, sugar</td>
<td>July 15</td>
<td>20&quot;x20&quot;</td>
<td></td>
<td>In dry weather soak seeds; thin well; for winter use sow about three months before harvesting.</td>
<td></td>
</tr>
<tr>
<td>Beet, white</td>
<td>Early Market Wk's</td>
<td>June 15</td>
<td>30 to 30&quot;x16&quot;</td>
<td></td>
<td>Transplant in small groups and water the same treatment as late cabbages; pinch the tops of weeks at &quot;bottoms&quot; for formation.</td>
</tr>
<tr>
<td>Capsicum, bell</td>
<td>Succession</td>
<td>May 1</td>
<td>June 15</td>
<td>12&quot;x12&quot;</td>
<td>Let light strips of sunlight on seedlings; keep main leaves from splitting, pull enough to loosen roots in soil.</td>
</tr>
<tr>
<td>Capsicum, chili</td>
<td>Early Ball Head</td>
<td>April 15</td>
<td></td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>Let light strips of sunlight on seedlings; keep main leaves from splitting, pull enough to loosen roots in soil; thin to 2 and plant 1&quot; deep.</td>
</tr>
<tr>
<td>Cabbage, early</td>
<td>Early Scarlet Horn</td>
<td>April 15</td>
<td></td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>First planting extra thick only 1½&quot; deep; thin early.</td>
</tr>
<tr>
<td>Cabbage, late</td>
<td>July 15</td>
<td>12&quot;x12&quot;</td>
<td></td>
<td>Select the deep soil for both rows, for storing plant about 90 days before harvesting time.</td>
<td></td>
</tr>
<tr>
<td>Cauliflower, spring and fall</td>
<td>April 10</td>
<td>4 to July 10</td>
<td>35-24&quot;x24&quot;</td>
<td></td>
<td>Enrich hills; protect from cutworms plenty of water when heading.</td>
</tr>
<tr>
<td>Celeriac, late</td>
<td>Winter Queen</td>
<td>July 15</td>
<td></td>
<td>100-36&quot;x36&quot;</td>
<td>Enrich hills; give plenty of water; protect from slug.</td>
</tr>
<tr>
<td>Corn, early</td>
<td>Max. 1</td>
<td>June 15</td>
<td>3 to 4</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>First planting 3 to 4&quot; deep; give plenty of water; thin to 3 or 4 plants in hill 18&quot;x18&quot;.</td>
</tr>
<tr>
<td>Corn, middle</td>
<td>Max. 1</td>
<td>July 15</td>
<td>3 to 4</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Corn, main crop</td>
<td>Max. 1</td>
<td>July 15</td>
<td>3 to 4</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Cucumber, for slicing, etc.</td>
<td>Max. 1</td>
<td>July 15</td>
<td>3 to 4</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Cucumber, for pickling</td>
<td>Max. 1</td>
<td>July 15</td>
<td>3 to 4</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Eggplant</td>
<td>Max. 10</td>
<td>June 15</td>
<td></td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Kohlrabi</td>
<td>Max. 10</td>
<td>June 15</td>
<td></td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Leek</td>
<td>Max. 10</td>
<td>June 15</td>
<td></td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Lettuce, loose leaf for spring and fall</td>
<td>Max. 15</td>
<td>June 15</td>
<td>4 to June 10</td>
<td>6&quot;x6&quot;</td>
<td>Give way of water; top-dress with nitrate of soda; thin as soon as possible.</td>
</tr>
<tr>
<td>Lettuce, &quot;Butter Head,&quot; for spring and fall</td>
<td>June 1</td>
<td></td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lettuce, &quot;Crisp Head,&quot; for summer</td>
<td>June 15</td>
<td></td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melons, musk</td>
<td>June 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Same as for musk melons; pinch out tips of runners at 6&quot; or 8&quot;</td>
</tr>
<tr>
<td>Melons, musk, bush</td>
<td>June 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Give warm, rich soil; nitrate of soda during early growth; treat like corn; use pods while young.</td>
</tr>
<tr>
<td>Melons, water</td>
<td>June 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Mascot out; insert up to neck.</td>
</tr>
<tr>
<td>Okra</td>
<td>June 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Keep close; top-dress with nitrate of soda; do not thin well until afternoon.</td>
</tr>
<tr>
<td>Onion, &quot;perry&quot;</td>
<td>June 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Start setts and transplant to rich soil; give plenty of water.</td>
</tr>
<tr>
<td>Onion, globe</td>
<td>July 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td>Soak seed twenty-four hours; cover very lightly; thin out early.</td>
</tr>
<tr>
<td>Onion, large Spanish</td>
<td>July 15</td>
<td>6&quot;x6&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pea, field</td>
<td>April 10</td>
<td></td>
<td>180&quot;x180&quot;</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Pea, garden</td>
<td>Giant French</td>
<td>April 10</td>
<td></td>
<td>120&quot;x120&quot;</td>
<td>Lean plants out, and give plenty of water.</td>
</tr>
<tr>
<td>Pea, sugar</td>
<td>Early Oregon</td>
<td>April 10</td>
<td></td>
<td>80&quot;x80&quot;</td>
<td></td>
</tr>
<tr>
<td>Pea, sweet, early, wrinkled</td>
<td>April 10</td>
<td></td>
<td>80&quot;x80&quot;</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Pea, wrinkled, main crop</td>
<td>April 10</td>
<td></td>
<td>80&quot;x80&quot;</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Peppers, large fringed</td>
<td>Ruby King</td>
<td>April 10</td>
<td></td>
<td>60&quot;x60&quot;</td>
<td></td>
</tr>
<tr>
<td>Peppers, small fringed</td>
<td>April 10</td>
<td></td>
<td>60&quot;x60&quot;</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Potatoes</td>
<td>Golden Ball</td>
<td>April 10</td>
<td></td>
<td>4 to July 10</td>
<td>Be careful to get seed thick enough; sow in deep, fine soil to get smooth roots.</td>
</tr>
<tr>
<td>Potatoes</td>
<td>June 15</td>
<td></td>
<td>4 to July 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>Be careful to get seed thick enough; sow in deep, fine soil to get smooth roots.</td>
</tr>
<tr>
<td>Radish, Early</td>
<td>Quickie</td>
<td>April 10</td>
<td>2 to Sept. 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td>From potatoes; set out in rows every 3 or 4&quot;; thin up 1&quot; early; thin out 1&quot; early; thin out 1&quot; early.</td>
</tr>
<tr>
<td>Radish, summer</td>
<td>July 10</td>
<td>12&quot;x12&quot;</td>
<td></td>
<td></td>
<td>From potatoes; set out in rows every 3 or 4&quot;; thin up 1&quot; early; thin out 1&quot; early; thin out 1&quot; early.</td>
</tr>
<tr>
<td>Radish, winter</td>
<td>July 10</td>
<td>12&quot;x12&quot;</td>
<td></td>
<td></td>
<td>From potatoes; set out in rows every 3 or 4&quot;; thin up 1&quot; early; thin out 1&quot; early; thin out 1&quot; early.</td>
</tr>
<tr>
<td>Rutabaga</td>
<td>Golden Necklace</td>
<td>May 1</td>
<td>4 to July 10</td>
<td>15&quot;x15&quot;</td>
<td>Excellent for storing for winter; culture similar to turning; late planting makes better quality roots.</td>
</tr>
<tr>
<td>Salsify</td>
<td>Sandridge Island</td>
<td>April 10</td>
<td>4 to Sept. 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Squash, summer</td>
<td>Victoria</td>
<td>April 10</td>
<td>4 to Sept. 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Squash, winter</td>
<td>Golden Summer Crookneck</td>
<td>April 10</td>
<td>4 to Sept. 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
</tr>
<tr>
<td>Spaghetti Squash</td>
<td>April 10</td>
<td>4 to Sept. 10</td>
<td>1 lb. 12&quot;x12&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomato, Early</td>
<td>Beefsteak (Chalk's Jewel)</td>
<td>May 15</td>
<td>15&quot;x15&quot;</td>
<td></td>
<td>Use potato borer.</td>
</tr>
<tr>
<td>Tomato, summer</td>
<td>May 15</td>
<td>15&quot;x15&quot;</td>
<td></td>
<td></td>
<td>Use potato borer.</td>
</tr>
<tr>
<td>Turnip, summer</td>
<td>May 15</td>
<td>15&quot;x15&quot;</td>
<td></td>
<td></td>
<td>Use potato borer.</td>
</tr>
<tr>
<td>Turnip, winter</td>
<td>June 15</td>
<td>15&quot;x15&quot;</td>
<td></td>
<td></td>
<td>Use potato borer.</td>
</tr>
</tbody>
</table>

**Notes on Vegetables**

- Do not cultivate weeds or grass clippings near your vegetables. Leave them where they grow. They will keep the weeds down.
- Water the plants at regular intervals, but so near together that machine cultivation is attempted only between the rows.

**Insects and Diseases**

- Plant pests of all kinds are alien enemies—indirect but none the less a valued allies of the Hum. Insidious, persistent, destructive, they are tough to get rid of. On page 68 you'll find a plan of control which is successful. In this section is the list of common pests and their treatments. It is carefully and help to win the war.
<table>
<thead>
<tr>
<th>FLOWER</th>
<th>HEIGHT</th>
<th>COLOR</th>
<th>SEASON OF BLOOM</th>
<th>DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>For Beds and Masses</td>
</tr>
<tr>
<td>Asters (A)</td>
<td>18'-'30'</td>
<td>Various</td>
<td>July-Sept.</td>
<td>Protect from aster beetle by hand picking and Parl green.</td>
</tr>
<tr>
<td>Begonias (P)</td>
<td>5'-'8'</td>
<td>White, pink, red</td>
<td>May-August</td>
<td>Very free and continuous flowering; basty, compact growth; good for edging. (P)</td>
</tr>
<tr>
<td>Calendula (A)</td>
<td>18'-'30'</td>
<td>Blue and white</td>
<td>July-Sept.</td>
<td>Very graceful and artistic; good for backgrounds or massing against buildings, fences, evergreens, etc. (P)</td>
</tr>
<tr>
<td>Dahlia (A)</td>
<td>18'-'30'</td>
<td>Pale to orange</td>
<td>July-Sept.</td>
<td>Canes rather crude but brilliant; good effect at a distance.</td>
</tr>
<tr>
<td>Nasturtium (A)</td>
<td>12'-'24'</td>
<td>Various</td>
<td>July to Sept.</td>
<td>Flowers freely until frost; give good soil; fragrant. (S)</td>
</tr>
<tr>
<td>Petunia (A)</td>
<td>12'-'24'</td>
<td>Scarlet</td>
<td>July to Sept.</td>
<td>Easily grown, free flowering; select color with care. Avoid mounding.</td>
</tr>
<tr>
<td>Phlox Drumondii (A)</td>
<td>12'-'24'</td>
<td>Various, brilliant</td>
<td>August to Sept.</td>
<td>Especially good for new soils; need old plants, but for a long season new plants just beginning to bloom. (P)</td>
</tr>
<tr>
<td>Salvia (A)</td>
<td>12'-'30'</td>
<td>Various</td>
<td>August to Sept.</td>
<td>Cut back 1 to 2-weeks before flower buds show in spring.</td>
</tr>
<tr>
<td>Verbena (A)</td>
<td>6'-'9'</td>
<td>Various</td>
<td>July to Sept.</td>
<td>Unexcelled, brilliant and harmonizing colors; many fine named varieties. (S B)</td>
</tr>
<tr>
<td>Antirrhinum (P)</td>
<td>18'</td>
<td>White, blue</td>
<td>June to frost</td>
<td>Most brilliant for low, spreading, carpet growth; flowers to hard frost. (P or S B)</td>
</tr>
<tr>
<td>Alyssum (A)</td>
<td>6'-'9'</td>
<td>White, pink, red</td>
<td>April-July</td>
<td>Extra-early; select named varieties. (P or S B)</td>
</tr>
<tr>
<td>Canterbury Bells (B)</td>
<td>18'-'30'</td>
<td>Pink, blue, white</td>
<td>June to frost</td>
<td>Dwarf sorts in named varieties very effective for narrow borders. (P or S B)</td>
</tr>
<tr>
<td>Digitalis (A)</td>
<td>4'-'6'</td>
<td>White, blue</td>
<td>April-July</td>
<td>Excellent after edging, especially dainty. (P)</td>
</tr>
<tr>
<td>Myosotis (B)</td>
<td>6'-'12'</td>
<td>Blue, white, yellow</td>
<td>June-July</td>
<td>Dwarf, upright, formal effect; dwarf varieties, selected colors. (P)</td>
</tr>
<tr>
<td>Scabiosa (A)</td>
<td>4'-'8'</td>
<td>White, orange, yellow</td>
<td>April-July</td>
<td>Select dwarf, medium or tall varieties as desired; stake tall sorts loosely.</td>
</tr>
<tr>
<td>Torunia (A)</td>
<td>18'-'21'</td>
<td>Mixed-yellow to blue</td>
<td>June-July</td>
<td>Graceful, open habit of growth; fine in combination with other things.</td>
</tr>
<tr>
<td>Aster (A)</td>
<td>12'-'30'</td>
<td>Various</td>
<td>July-July</td>
<td>Wither over plants or started early in heat; avoid crowding. (P)</td>
</tr>
<tr>
<td>Artemisia (A)</td>
<td>12'-'24'</td>
<td>White, orange, blue</td>
<td>August-October</td>
<td>Germinate in garden for bloom; started in heat will bloom first season. (P)</td>
</tr>
<tr>
<td>Chrysanthemum (A)</td>
<td>12'-'24'</td>
<td>Yellow, orange brown</td>
<td>August-October</td>
<td>Easily grown old favorites; wintered over plants or started early in heat.</td>
</tr>
<tr>
<td>Cosmos (A)</td>
<td>12'-'18'</td>
<td>White, pink, red</td>
<td>August-Sept.</td>
<td>See above; for good most satisfactions; some fine few peonies. (P)</td>
</tr>
<tr>
<td>Dianthus (A)</td>
<td>10'-'16'</td>
<td>White to rose</td>
<td>June to Sept.</td>
<td>Succeeds in partial shade, but blooms more freely in full sunshine.</td>
</tr>
<tr>
<td>Eustoma (A)</td>
<td>12'-'18'</td>
<td>White, yellow, orange</td>
<td>June to Sept.</td>
<td>Long season of bloom; one of the most satisfactory of all; start early. (S)</td>
</tr>
<tr>
<td>Salpiglossis (A)</td>
<td>18'-'21'</td>
<td>Yellow, black-purple, blue, rose</td>
<td>Aug.-Sept.</td>
<td>Exceptionally gay, free flowering dwarf sorts for borders.</td>
</tr>
<tr>
<td>Shasta Daisies</td>
<td>18'-'21'</td>
<td>White</td>
<td>Aug.-Sept.</td>
<td>Trailing, especially fine for porch hanging baskets, etc.</td>
</tr>
<tr>
<td>Centaurea (Sweet Sultan) (A)</td>
<td>24'-'30'</td>
<td>Rose, lavender, purple, white</td>
<td>June-Sept.</td>
<td>Easily grown, give sunny situations; start in heat or outdoors. (P or S)</td>
</tr>
<tr>
<td>Heliotrope (P)</td>
<td>12'-'18'</td>
<td>Blue</td>
<td>July-Sept.</td>
<td>Protect from beetles; mildew for front flowers. Eli to P.)</td>
</tr>
<tr>
<td>Mexican Carnations (P)</td>
<td>7'-'12'</td>
<td>White</td>
<td>June to Sept.</td>
<td>Give plenty of sun, keep dead flowers cut off. (S B)</td>
</tr>
<tr>
<td>Miqueonia (P)</td>
<td>15'-'20'</td>
<td>Yellow, pink, red</td>
<td>June to Sept.</td>
<td>See above; start in heat for early cutting. (P or S)</td>
</tr>
<tr>
<td>Severe (17')</td>
<td>15'-'21'</td>
<td>Lavender, pink, yellow, scarlet</td>
<td>July to frost</td>
<td>Exceptionally early growth; brilliant, rich colors; avoid crowding. (S)</td>
</tr>
<tr>
<td>Sweet peas (A)</td>
<td>18'-'21'</td>
<td>White, pink, crimson, mauve</td>
<td>June-Sept.</td>
<td>Uncutted for use with other cut flowers; small growing every month.</td>
</tr>
<tr>
<td>White tallfitts (A)</td>
<td>12'-'15'</td>
<td>Brown (Yellow)</td>
<td>July-August</td>
<td>Cut opening buds; keep old flowers cleaned off; avoid crowded plants. (S)</td>
</tr>
<tr>
<td>Shasta Daisies</td>
<td>18'-'21'</td>
<td>White</td>
<td>August-Sept.</td>
<td>For stronger flowering plants start early use selected colors. (P or S)</td>
</tr>
<tr>
<td>Centaurea (Sweet Sultan) (A)</td>
<td>24'-'30'</td>
<td>Rose, lavender, purple, white</td>
<td>June-Sept.</td>
<td>Old favorite, but one of the most satisfactory; try improved named varieties; avoid crowding. cut flowers.</td>
</tr>
<tr>
<td>Heliotrope (P)</td>
<td>12'-'18'</td>
<td>Blue</td>
<td>July-Sept.</td>
<td>Great variety; continuous supply; sunny position; keep cut.</td>
</tr>
<tr>
<td>Mexican Carnations (P)</td>
<td>7'-'12'</td>
<td>White</td>
<td>June-Sept.</td>
<td>One of the longest keeping; especially good; wintered over plants; or start early seeds.</td>
</tr>
<tr>
<td>Miqueonia (P)</td>
<td>15'-'20'</td>
<td>Yellow, pink, red</td>
<td>June to Sept.</td>
<td>Easily grown, give sunny situations; start in heat or outdoors. (P or S)</td>
</tr>
<tr>
<td>Severe (17')</td>
<td>15'-'21'</td>
<td>Lavender, pink, yellow, scarlet</td>
<td>July to frost</td>
<td>Make second sowing; favorite old &quot;Sweet Sultan.&quot;</td>
</tr>
<tr>
<td>Sweet peas (A)</td>
<td>18'-'21'</td>
<td>White, pink, crimson, mauve</td>
<td>June-Sept.</td>
<td>See above; select most fragrant plants for stock.</td>
</tr>
<tr>
<td>White tallfitts (A)</td>
<td>12'-'15'</td>
<td>Brown (Yellow)</td>
<td>July-August</td>
<td>Bloom early from seed; give good stand; selected colors. (S B)</td>
</tr>
<tr>
<td>Canna lily (A)</td>
<td>6'-'12'</td>
<td>Red, white, purple, yellow, orange</td>
<td>July-Sept.</td>
<td>Very every year in containers; cool, protected. Eli to P.)</td>
</tr>
<tr>
<td>Crepe Myrtle (A)</td>
<td>18'-'21'</td>
<td>White, pink, red</td>
<td>July to frost</td>
<td>Free blooming, one of the purest whites.</td>
</tr>
<tr>
<td>Delphinium (Hyacinth Bean) (TA)</td>
<td>18'-'24'</td>
<td>White, pink, red</td>
<td>Mid-July to frost</td>
<td>Give rich soil, start indoor or in seed bed, and transplant twice to select double flowers only. (P or S B)</td>
</tr>
<tr>
<td>Morning glory (TA)</td>
<td>12'-'15'</td>
<td>White</td>
<td>June to frost</td>
<td>Plants deep, avoid overcrowding; bloom abundantly; keep old flowers picked. (P or S)</td>
</tr>
<tr>
<td>Narcissus (T)</td>
<td>2'-'5'</td>
<td>White, orange, white, rose</td>
<td>June to frost</td>
<td>Winter over or start early in heat to cut flowers first season. (P)</td>
</tr>
<tr>
<td>Canna lily (A)</td>
<td>6'-'12'</td>
<td>Red, white, purple, yellow, orange</td>
<td>July-Sept.</td>
<td>Foliage, bright yellow flowers, very unique; rapid growth. (P or S)</td>
</tr>
<tr>
<td>Crepe Myrtle (A)</td>
<td>18'-'21'</td>
<td>White, pink, red</td>
<td>July to frost</td>
<td>New rapid grower; unparalleled for brilliant display; soak or like seeds. (P or S)</td>
</tr>
<tr>
<td>Delphinium (Hyacinth Bean) (TA)</td>
<td>18'-'24'</td>
<td>White, pink, red</td>
<td>Mid-July to frost</td>
<td>Foliage, bright yellow flowers, very unique; rapid growth. (P or S)</td>
</tr>
<tr>
<td>Morning glory (TA)</td>
<td>12'-'15'</td>
<td>White</td>
<td>June to frost</td>
<td>Unusual and fragrant; some new good varieties; start early for heat results. (P or S B)</td>
</tr>
<tr>
<td>Narcissus (T)</td>
<td>2'-'5'</td>
<td>White, orange, white, rose</td>
<td>June to frost</td>
<td>Old fashioned; rarely improved; for covering fences, rubbish heaps, etc. as well as climbing.</td>
</tr>
</tbody>
</table>

NOTES: "A" annual; "B" biennial; "P" perennial; "HP" "HHHP" and "TP" mean respectively hardy perennial, half hardy perennial, and tender perennial.

Annuals: flower, matry, seed, and die in a single season.

Biennials: became established the first season, and flower and seed the next spring or summer; by starting early or under glass, most of them flower the same year, like annuals.

Perennial: flower and seed year after year; by early sowing many of them will flower the first season.

"Hardy" biennials, biennials or perennials are those capable of resisting cold, and may be planted or sown when the soil is warm.

"Half-hardy" biennials and perennials are those capable of resisting frost, but not of surviving the winter outdoors.

In the Directions: S—now seed in the open, where plants will bloom. S B—now seed in bed or border, to transplant to permanent positions. P—plants from frames, greenhouses, or florists.

55
Scales of all kinds must be smothered. They have special organs on their bodies which enable them to drain the sap from plants they attack and quickly destroy. A few years ago the San Jose scale was viewed with considerable alarm, but it is not thought of seriously today because the process of eliminating it is simple. The individual San Jose scale is nearly circular and no larger than an ordinary pinhead. Should it be allowed to become really abundant it will form a sort of crust on the branches and cause minute reddish spots on the fruit. Ordinarily three or four broods are produced in a season. The young scales are born alive, several hundred to each mother. Breeding normally continues until late in the autumn, when all ages of the scale are killed by the cold weather except the half-grown, tiny black ones whose duty it is, in the unhampered scheme of Nature, to hibernate all winter under the protection of the old ing is designed to destroy.

There are a great many of the insects which are not listed in statistics of this kind. Plants, like other growing things, are subject to various diseases. In many cases these are due to unfavorable conditions of growth, some beyond our control, but more generally the result of not understanding the needs and requirements of plants or ignoring them if we do understand. Most plant diseases and a great many of the insects are the result of a weak, sickly growth caused by unfavorable growing conditions under which insects diseases flourish. There are as many species of native birds. The greatest contributing factor is unfavorable growing conditions. Plants that have plenty of food in the soil, that are kept well cultivated, so that the roots can breathe, and well supplied with moisture (natural methods preferred) are usually robust and if brought in contact with trees diseases will have vigor enough to destroy them off.

To fight insects we should know something of their life histories, of their habits, of their methods for propagation, when they are most vulnerable to attack. Every effort in elimination of plant pests must be in vain were it not for the help we receive from the natural enemies of the insects we are fighting. Prominent among these are the species of native birds.

With this general introduction we are ready to take up in detail the study of insect diseases, together with measures which may be taken against them if our gardens are of maximum aid in the nation's fight for production.

**THE CONTROL of PLANT INSECTS and DISEASES**

**Preventive and Remedial Measures Which May Be Relied Upon to Aid in the War on Garden Pests and to Help Maintain the World's Food Supply**

WILLIAM C. McCOLLOM

THE yearly tribute which we in America pay to insects and diseases that attack our crops is on a Liberty Loan scale. Some idea of its tremendous extent may be had from a brief survey of the figures compiled by the Government. It is estimated that the damage to wheat alone in the United States is over $100,000,000. In corn the loss is conceded to be over $40,000,000. Other cereals would bring the total up to $300,000,000. Forage crops are destroyed or injured to the extent of $75,000,000. Cotton suffers a loss of $25,000,000; tobacco, $10,000,000, while truck crops pay a penalty of some $65,000,000. The loss to fruits is placed at more than $40,000,000. These estimates do not take into consideration the tremendous losses to forests and to the small home gardens which are not listed in statistics of this kind.

Plants, like other growing things, are subject to various diseases. In many cases these are due to unfavorable conditions of growth, some beyond our control, but more generally the result of not understanding the needs and requirements of plants or ignoring them if we do understand. Most plant diseases and a great many of the insects are the result of a

**SAN JOSE SCALE.**

Identification: Close examination of infested bark will show that it is covered with a soft, brownish-black scum.

Effect on Plants: This scale will destroy the trees if not checked. It drains the sap through the bark.

Causes: The scale is carried about by birds. Breeds very rapidly, one species producing about 50,000,000 a season.

Plants Attached: All hard wooded trees, but fruit trees are particularly susceptible.

Preventives: There are several specific oils with which trees should be sprayed once a year when dormant.

Core, & Any: Mild spraying once a year. Painting the trunks and branches of trees with lime is a worth-while practice. It is not kil killed, but will destroy other insects or gathered on the bark. It also has a tendency to vent scale from attacking. Poor, sickly growing trees are invariably the first to be attacked, and should be examined frequently.

**OYSTER SHELL SCALE.**

Identification: Quite large and approachable black white blanch on the surface of the body.

Effect on Plants: If neglected this scale will prove as fatal as the San Jose, though not in so short a time.

Causes: Carried about by birds and transferred on new nursery stock.

Plants Attached: Practically all trees, but smooth bark sorts like willow, poplar, peach, etc., are the favorites.

Preventives: Mild spraying once a year. Painting the trunks and branches with whitewash is also good.

Core, & Any: Spraying with strong toluquin or kerosene emulsion when in leaf.

**SOFT SCALES.**

Identification: Soft, balled, close clinging scale that covers the wood of hard wood trees and shrubs.

Effect on Plants: The sap is sucked by means of the special organs on the sides of the body.

Causes: Transported by birds. Increases very rapidly.

Plants Attached: The new wood of all hard wooded trees is subject to attack.

Preventives: Spraying with strong toluquin or kerosene emulsion when in leaf.

Core, & Any: Spraying the tree in spring and fall with any of the specific oils recommended for other scale.

**TREE and SHRUB SCALES**

**Destroyed by Smothering**

Spraying with arsenate of lead just as the blossoms fall helps to control curculio.
INSECTS THAT EAT

Destroyed by Poison

Grass, crops of all kinds, bushes, and trees.

Grass, crops of all kinds, bushes, and trees.

Will destroy acres in a few days.

Northeast: leaving shoots to grow in early spring; leaving cabbages around in fall.

All green vegetation, but especially fruit trees.

Attacks only the cabbage family, including cabbage, cauliflower, etc.

Trees of all kinds, except a few evergreens; all garden crops.

This is an apple worm and rarely troubles other fruits.

Field corn suffers most.

The tiny white eggs are laid on the foliage. When hatched, the worm. This is an apple worm and rarely troubles other fruits.

No particular cause.

The cocoons should be gathered and destroyed.

The crops should be gathered and destroyed.

The cocoons should be gathered and destroyed.

No particular cause.

The worms of the tent caterpillars should be burned.

Asparagus beetles are checked by poison spraying

The celery caterpillar is one of a large and destructive tribe.

Hand picking is the best remedy for cabbage worms in the small garden.

The celery caterpillar is one of a large and destructive tribe.

Asparagus beetles are checked by poison spraying

Crops that cannot be sprayed with poison because of the possibility of their being used shortly, or is the best substitute, as it is not nearly so poisonous to man or animals as the others mentioned. It is usually used where only a few plants are involved, and there is no danger of blowing in the proportion of three pounds to fifty gallons of water.

When applying poisons it is often advisable to mix fungicides such as Bordeaux mixture with the arsenic. Both may thus be applied in one operation. This is the accepted method of spraying fruit trees, but it can be used in any case where blight or other parasitical diseases and eating insects both infect the foliage along with the growth on which they are feeding. It is obviously best to apply it when it can remain on the foliage for a reasonable length of time.

For this reason spraying should be done when there is a prospect of fair weather, and a heavy rain will wash away a good deal of the poison.

Hand picking is the best remedy for cabbage worms in the small garden.
BEETLES THAT BORE

Destroyed by Contact Sprays

T
ESE beetles or bugs bore into the foliage or flowers. While classed as eaters, they consume so little actual surface that could be covered with a poison spray that it would be useless to employ this means to destroy them. Consequently they must be attacked with contact sprays exactly the same as are used for aphids. Because of their hard bodies they are much more difficult to kill than latter pests.

The rose bug is best controlled by hand picking.

<table>
<thead>
<tr>
<th>Name</th>
<th>Identification</th>
<th>Effect on Plants</th>
<th>Causes</th>
<th>Plants Attached</th>
<th>Preventatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUCUMBER BEETLE</td>
<td>A black and yellow striped beetle about ½&quot; long.</td>
<td>Very destructive when plants are very small. Causes pulls to drop prematurely.</td>
<td>Squash, cucumbers, melyna, beans, pumpkins. All fruit trees subject</td>
<td>Spraying frequently with repellents when the seedlings appear will prevent</td>
<td>No remedy. If plants should be pulled up turned. Worms can be at night with</td>
</tr>
<tr>
<td>CURCULIO</td>
<td>A brownish beetle about ½&quot; long.</td>
<td></td>
<td>to attack: plums suffer most.</td>
<td>the mouth from de-</td>
<td>Work with fingers in a theater. Destroy infestations with CARBON</td>
</tr>
<tr>
<td>HARLEQUIN CABBAGE BUG</td>
<td>A shiny black or blue bug with red marking. 1½&quot; long.</td>
<td>Destroys the plant by puncturing leaf and drizzling sap.</td>
<td>Attacks cabbage, kale, mustard and others of the family.</td>
<td>posing her cage. Proper rotation, plenty of plant food and constant cultivation.</td>
<td>SODIUM CARBON SULPHIDE. Spraying the seed drill with a solution of 1 quart of</td>
</tr>
<tr>
<td>ROSE BUG</td>
<td>A yellowish beetle about ½&quot; long.</td>
<td>They eat flowers and very young foliage.</td>
<td>Allthing that is in</td>
<td>Plenty of lime; soil. Very destructive when the seedlings appear will prevent</td>
<td>SOLOG, 1 quart of 2 percent solution. Dipping the seed drill with a solution of</td>
</tr>
<tr>
<td>SQUASH BUG</td>
<td>A brownish black, odorless bug about ⅛&quot; long.</td>
<td>When young plants are attacked they usually die.</td>
<td>flower when they are</td>
<td>the mouth from de-</td>
<td>1 quart of 2 percent solution. Dipping the seed drill with a solution of 1 quart</td>
</tr>
</tbody>
</table>

WORMS AND OTHER UNDERGROUND PESTS

Combated With Preventive Measures

P
ESTS that operate underground are hard to cope with. Preventive measures are by far the best. Have the ground so well prepared and of such nourishing character that the plants by a brisk, vigorous growth will survive ordinary attacks. Proper rotation of crops is also essential. Lime should be applied at least every third year. Plants particularly subject to attack should have soft Scotch soil scattered in the seed drill. Tobacco dust may also be used, but it soon loses its strength. Carbon sulphide is very good after the plants have been attacked. It is applied by making holes with a stick 4" to 6" from the plants and pouring a teaspoonful of the liquid in each.

Poisoned bran mash is an excellent precautionary measure.

<table>
<thead>
<tr>
<th>Name</th>
<th>Identification</th>
<th>Effect on Plants</th>
<th>Causes</th>
<th>Plants Attached</th>
<th>Preventatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLUB ROOT</td>
<td>A parasite that causes cabbage roots to lose fiber.</td>
<td>The plants with down in days. Club root is certain death. Usually severe, completely any plant it attacks.</td>
<td>Improper rotation of crops and unsalubrity soil condition.</td>
<td>Principally cabbage and cardflower.</td>
<td>Proper liming and working of the ground in fall. Crop rotation. Placing paper collars or poisoned bran mash around the plants. Good rich soil with proper drainage and cultivation.</td>
</tr>
<tr>
<td>CUTWORM</td>
<td>A grayish green worm about ¼&quot; long that operates at surface of ground.</td>
<td>The root fibers is destroyed and the plant eventually dies.</td>
<td>Permitting the garden to get weedy in full provides places for rats.</td>
<td>Soft plants of any kind:</td>
<td>Spraying frequently with repellents when the seedlings appear will prevent the mouth from de-posing her cage. Proper rotation, plenty of plant food and constant cultivation.</td>
</tr>
<tr>
<td>GRAPE PHYLLON ERO</td>
<td>A very tiny insect, emerging grape roots to club up like cabbage.</td>
<td>Poor soil, lack of drainage, bad growing conditions.</td>
<td>Most troublesome to imported varieties of grapes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONION MAGGOT</td>
<td>A tiny white maggot that feeds on the roots and bulbs of onions, leeks, etc.</td>
<td>The roots are destroyed and the entire bulb eaten out.</td>
<td>Plants that are growing poorly are sure to be attacked.</td>
<td>All members of the onion family.</td>
<td></td>
</tr>
<tr>
<td>POTATO SCAB</td>
<td>A parasite that destroys the skin on potatoes, causing wounds known as scale.</td>
<td>Lesions the crop and lowers the quality of the tubers.</td>
<td>The parasite is transferred from one field to another by seed potatoes.</td>
<td>A potato disease only.</td>
<td></td>
</tr>
<tr>
<td>ROOT SCAB</td>
<td>Parasites of various kinds that attack root crops of different types.</td>
<td>Entire crops are sometimes lost by attacks.</td>
<td>Usually the result of bad growing conditions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROOT MAGGOT, WHITE GRUB</td>
<td>Small white grubs that attack the roots of cabbage, turnips, radishes, etc.</td>
<td>If these maggots are present, in any quantity they will destroy crops.</td>
<td>Poorly drained soil, improper rotation and impoverished soil.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cure, if Any

1. Kerosene emulsion of tobacco spray.
2. Jarring beetles on the clover leaf in three weeks, and one spray of arsenical dust every three weeks later.
3. Sprinkling arsenate of lead or copper arsenate on the surface of the soil about once a week. A very fine spray is used.
4. Hand picking is the best method of control.
**THE LEAF CURLED**
A tiny green aphid that attacks maples on both sides during dry weather.

**THE V BUG**
Soft-bodied insect, covered with a cottony substance. On under side of foliage and stems.

**THE SPIDER**
Myriads of tiny red spots on the under side of foliage.

**THE W FLY**
Small white flies that cover the foliage with a waxy substance.

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**THIS and SIMILAR PESTS**
**Attacked by Contact Sprays**

**FIGHTING DISEASES**
Such as blight, rust, etc., due to parasitical enemies and must be fought by repellants such as Bordeaux mixture, which forms a thin copper coating on the foliage. Bordeaux mixture is easy to mix, and it can be bought in prepared form. The formula for it is three pounds copper sulphate, four pounds hydrated lime, and fifty gallons of water. The ingredients are dissolved separately and poured together simultaneously through a pump of some kind. The mixture is then ready for use. Bordeaux mixture is a preventative, not a cure-all. It will often prevent the spread of outbreaks after they have started, but should be considered primarily as a preventative. In orchard spraying and also with potatoes, Bordeaux mixture is combined with the arsenic sprays.

(Continued on page 76)

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**Preventatives**
Spraying in an area where disease is not known to exist is a waste of time.

**Care, if Any**
- Remove and destroy scabby fruit; spray barn or dormant; spray with Bordeaux mixture.
- Pick off and destroy infected leaves; spray with Bordeaux mixture.
- Infested branches should be removed 6" below the diseased bark.
- Destroy all infected fruits, removing any mummified fruit from winter storage. Spray frequently.
- Shake off and destroy infected leaves. Spray trees with Bordeaux mixture.
- Flowers of sulphur dusted on the infected foliage. 
- Infected leaves should be picked off and burned.
- A mixture of air, water, and copper dust is effective all around the stem.
- Shake off and destroy infected leaves. Spray with Bordeaux mixture.
March

THE GARDENER'S KALENDAR

SUNDAY

A general clean-up at the shrub border, moving all winter mulch, is in order this month.

The asparagus bed should be trenched 3" deep, using plenty of manure.

1. Sun rises 5:29 A. M., sets 6:11 P. M. Remove the covering now from tender evergreens of all types. It is just let this go too long the plants will be surely scald when you do uncover them to the warm sun.

2. Make the tomato seedlings ready for transplanting at once.

3. Vegetable and flower seedings started last month in the greenhouse, or dwelling will need transplanting now in the garden. Shallow boxes called "flats" are best for this. Your soil needs and set the little plants about 2" to 4" apart.

4. Caesians should be started in seed sets in the greenhouse. Lay the bulbs on the bench and cover with about 1" of sand. When root action starts, separate and plant them, using good rich compost.

5. Hybrid perpetual roses can be started indoors. They should be pruned, as they flower on the new wood. Keep well supplied and set with 1" of manure after buds disappear.

6. Grapes should be pruned in fall, but in case where this was not possible the work should be done severely if you want to save the wounds to prevent bleeding.

7. If you want a showy hedge try some of the Lord Penzance sweetbrier roses. These make a show, grow close and too little known. The floribunda type. They are ideal for small buildings, borders, etc.

8. Most winter killing of cane fruits is caused by summer starvation. Dig under a liberal quantity of manure. The cane should be bedded and pruned so as to reduce them about one-third.

9. Vines of all kinds should be pruned carefully, removing all weak interior shoots. Every support now should be cut back. The supports of trellis-work should be looked over for needed repairs.

10. Don't you want to start a crop of genuinely high-quality muskmelons in your greenhouse now? They are wonderful when well grown. Use forcing varieties such as King George, Blenheim, Orange, etc.

11. A high death in the greenhouse planted stock is often caused by having allowed the stock to lie around where the sun and wind destroyed the paper thorn, or by insufficient food in the soil.

12. You can start a crop of Golden Bantam peas now. Use 7" pots and leave three plants to a pot. These plants can be set out in May, and will be ready to yield a crop early in June.

13. All summer flowering and foliage bulbs for the greenhouse or conservatories should be started now. Yellow camas, hyacinths, lilies, begonia and caladium are important sorts.

14. Are you going to try a hedge for your garden? Trench the old rough fence, and set the plants 12" apart in the row.

15. Vegetable and flower seedlings started in February should be hardened off. Make sure they are ready for hardening off before setting them to the open ground. A cold-frame is the best place for this. The hardening process should be very gradual.

16. Did you top-dress your lawn with manure last winter? If so you should remove the material and set the seeds in wooden boxes. In case this winter's manure was omitted, top-dress now with good fertilizer.

17. Sow sweet peas outdoors now, or you will have one of your own if possible.

18. The mulch on perennial borders should be dug in. If none was applied, get some good manure now and dig it under. All planting or dividing of perennials should be attended to at once.

19. Prune now all shrubs that flower on old wood, such as hydrangeas. Do not prune azaleas, ceanothus, cistus, lychnis, dogwood, drimia or any others that bloom on old wood.

20. Bay trees, hydrangeas, oleanders, and shrubs of similar growth should be pruned in March, those requiring new wood, all being cut back severely if you want a showy hedge.

21. Pruning of all foliage trees or shrubs with the exception of the maples should be finished up as early in the spring as possible. Such trees cut always and paint the wounds to prevent bleeding.

22. The old asparagus bed will produce a good crop of asparagus this year if you have good manure applied and dug in. If none has been dug in, get some and it will be worth your while to start a crop of genuine asparagus. Rake the ground over well, set the asparagus, water, stake the transplants, then cut them back. Never give any manure to asparagus, as it is self-sufficient.

23. Are you going to start growing hybrid perpetual roses this year? You can have flowers from June to Thanksgiving if you give them the proper care. Use plenty of manure and trench plants very deep.

24. The winter mulch on shrub borders should be dug in. Leaves that have fallen, if you give them this chance. Use plenty of manure and trench plants very deep.

25. Are you going to dig up the old asparagus bed this year? You can have flowers from June to Thanksgiving if you give them the proper care. Use plenty of manure and trench plants very deep.

26. All types of garden roses should be pruned now. The old asparagus bed will produce a good crop of asparagus this year if you make sure to dig in the manure thoroughly, and use plenty of water, stake the transplants, then cut them back. Never give any manure to asparagus, as it is self-sufficient.

27. The mulch should be removed now from both plantings, for the bulb leaves should be allowed to dry under the sun. Make the bed under the bulbs and leave them there, so you should remove the leaves and not break off the tops. Never give any manure to asparagus, as it is self-sufficient.

28. The lawn should be mowed now with a heavy roller to get the turf up and to roll it. Take the sowing knife off your lawn mower and cut it down to the root, and you can have very good grass, with a pounder to repair the effects of freezing.

29. This is the last call for spraying! All trees should be sprayed now. Prune, and dose with Sevin. Infested trees should be burned and that is the only way it can be done. Start evergreens in the greenhouse now as to be sure to cover all parts.

30. All plantings and shrubs should be finished up as soon as possible. Keep the ground moist by giving plenty of water, stake the transplants, and keep them well cultivated.

Early plants started under glass must be hardened off before setting out.

In replanting shrubs do not give the roots a chance to dry out in the air.
This represents a reproduction of a Chinese Rug of simple effect, having a tawny gold ground, with porcelain blues and fruit reds in the detail of the design and border. Size 12 feet x 9 feet. Price, $215.

FAITHFUL REPRODUCTIONS OF
ANTIQUE RUGS

Rugs of simple design, as illustrated above, have sufficient ornament to preclude the possibility of an uninteresting and monotonous effect, and answer all the requirements of those who favor a plain color treatment of the floor.

The Rug illustrated is but one of many designs made upon our own looms in the East and carried in our stock in a great variety of sizes and color effects.

We also specialize in faithfully reproducing Antique Rugs of the early Chinese and Persian periods.

We shall be pleased to write you in detail concerning your special requirements.

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Direct Importers of Eastern Rugs
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FIFTH AVENUE AND FORTY-SEVENTH STREET, NEW YORK
San Francisco, Cal.

San Francisco, Cal.
Many delightful interiors owe their chief charm to the unconventional character of their appointments.

An exquisitely decorated console cabinet surmounted by a delicately carved mirror, for example, cannot fail to infuse either a Living Room or Hall with a distinction which the conventional table could not possibly impart. By the same token, all the rooms are susceptible to unusual treatment, sustaining, withal, perfect harmony.

This suggestion may be carried to successful conclusion by recourse to the faithful Reproductions of early cabinet-making on view in these Galleries. Here are available, well within a moderate cost, a profusion of occasional pieces and groups of Furniture, as well as the Decorative Objects and Oriental Rugs essential to the completion of any well-considered scheme.

Suggestions may be gained from deluxe prints of interesting interiors, sent gratis upon request.

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So many guests have asked what makes my living room so cheerful-looking and so comfortable, and I tell them all that the secret lies on the floor. Since we bought the CREX DE LUXE Rug, the room seems so much brighter and freshened up that we spend all our spare time there.

CREX DE LUXE Rugs come in a wonderful range of beautiful patterns and color ideas, making it easy to select a rug to fit any decorative scheme. CREX Rugs lie flat—stay even—are reversible—soft to the tread—dirt, dust and damp proof—need no beating, simply shaking—and are economical enough to use in any room—the year 'round.

When buying—be sure you obtain the genuine. Make the salesman PROVE IT. Ask to see the name C-R-E-X woven in the edge of the side binding. If it isn't there, it isn't a CREX.

"It's a Practical War-time Economy to Buy CREX"

CREX CARPET COMPANY 212 FIFTH AVENUE NEW YORK, N. Y.
THE success of every well-considered interior is largely dependent upon the treatment of the walls—the vertical surfaces which form the background for the entire ensemble. Recognizing this fact, prominent Decorators throughout America have found in the diversified Strahan line of Wall Decorations many beautiful foliage effects, such as No. 6101 illustrated, which meet their most exacting requirements—from the standpoint of both quality and decorative excellence.

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**Gold and Silver Paper**

Gold used in broad expanses, as it must be for a background, is neutral. The medieval painters and furniture decorators knew this and employed gold thus to marvellously good effect. The old Japanese artists knew it, too. Witness their wonderful screens with gold backgrounds and boldly conceived designs wrought in colors sometimes vivid, sometimes soft and quiet, but always enhanced in value by the foil of the gold ground. Much gold is safe and quiet; a very little gold is elegant and enriching; it is only when gold “is partially used with a little bit” of it here, there and everywhere that it becomes vulgar, tawdry looking, noisy and disturbing. One need not hesitate, therefore, to use the Chinese gold paper as a background, knowing that it will be well-balanced and especially effective if the furnishings are sharply defined. Chinese gold paper is mellow in tone and rapidly become more so after they are on the walls. The plain silver paper proves satisfactory not only on the walls but also as a ceiling covering when the walls are of a plain light color and of dull texture, such, for instance, as filled or painted oyster shell white or a gray with a dull finish. The effect, not heavy and oppressive, as some possibly imagine, because the invisible reflections and the constant play of light and shadow create an interest and vivacity that nothing else will produce.

Should one wish to tone down freshly covered with silver paper, easy to apply a coat of orange shellac being careful to use enough alcohol in the mixture. Otherwise it will just become blobby while going on. Of a similar and highly agreeable appearance also, is the wall covered with the foil from tea chests. One of the most British architects has a room in his house with walls thus treated little wrinkles and creases were smoothed out—and then thinly coated with orange shellac. The texture of these Oriental papers is every whit as important as color, for to texture quite as much color is attributable their visual effect and their value as either decorative or effective backgrounds. The character of the texture is the result of hand work and evidences all the irregularities and enlivening variety that uniform machine work can never achieve and that only the personal tact of manual execution can impart. The fabric is made by hand, the color when it differs from the body color, is applied by hand and, there is a pattern, it is either put on by hand or else printed on by hand. (Continued on page 64)

(Opposite) Japanese Hodatsu Awaji paper, cream with irregular scored markings, 15½" x 20½" (Below) Japanese Kikone paper, brown with irregular scored markings, 11½" x 11½" (Below) Japanese Kasato Kuro paper, cream white with small fragments of vegetable matter impressed on surface, 17" x 22" (Below) Japanese Modu Awaji paper, Slate gray with lustre shown on white, cloud-like motlings, 12" x 17¼"
This exquisite dining group of Chippendale design in handsome figured mahogany consists of 10 pieces. Price complete, four hundred and twenty-five dollars.

JUST outside the Metropolitan centers of the country are such communities as Greenwich, Evanston, Beverly or Haverford—as distinctly modern as they are American.

A new spirit in architecture has given the homes of these communities an exterior beauty that was unknown a generation ago. And a new spirit in furniture has given them the interior charm of many generations, combined in environments of taste and comfort.

The type of furniture that you find at Hathaway's is the type of furniture that you find in these homes. It reflects the belief that furniture is intended to be livable and comfortable but that it is also intended to supply an atmosphere of charm.

W.A. Hathaway Company
62 West 45th Street, New York
Oriental Papers for Occidental Walls

(Continued from page 62)

The Chinese paper, which is the color of light brown sugar or, better still, of time-stained parchment or of the linen swaddlings of an Egyptian mummy, has a ribbed texture and almost the roughness of a fine flax weave. Other Chinese papers, of much the same color, are thin and smooth with a lustre. Many of the Japanese papers, which are more varied and more highly organized in their development, are smooth and vary in surface from those that are flat and listless to those that exhibit either an almost indefinable and elusive suggestion of shimmer, perceptible more by fugitive fancy than by actuality, or else a surface that furnishes a constant play of reflections and high lights. Some of the Japanese papers are fairly thick and of coarse texture with irregular streaks and markings caused by bits of vegetable fibre embedded in the body of the stock or adhering to the surface and producing an agreeable accidental diversity without at all approximating a pattern. Other papers, again, are of exceedingly thin, sheer texture, little heavier than fine rice paper, and of silken softness. These are usually the papers with the sheen just mentioned. A few of these, too, of white or cream colored body, have irregular dark markings or streaks, blotches and markings caused by vegetable fibre markings, represented in the Japanese by Hodatsu, red; and Modus, blue, the Byōgami papers, which are of lighter body and widely varying coloring, including bright red, vivid light, low, light and dark green, light blue, dark blue and purple.

In conclusion, the reader is again reminded that few of these papers, made for wall papers, and that consequently there are difficulties to overcome in the adaptation of the new to the old. The first difficulty is the one of the wall paper being the wrong color or the wrong proportions of color. The Chinese gold and silver papers come nearest manageability in this respect for the sheets are about 14 by 12 inches, and the others vary in size, some running as low as 11½ by 15 inches. Most of them, however, are rather large.

This difficulty can be overcome by and conscientious care on the paper-hanger's part. The second difficulty is quality. All paper offers unlimited possibilities for individual expression—should be a haven of happiness; the dining-room—serviceable, sociable room; the proper individual atmosphere to ever exhibit of laughter, radiant faces and good cheer. A spirit of relaxation should pervade the room. Employing carefully chosen Wallpaper is the modern method of accomplishing this.

Wallpaper emits a warmth, a cheer, a restfulness that makes a house a home. It gives emphasis to woodwork and fixtures, as well as to furnishings.

It is so artistic, so adaptable that it will give the proper individual atmosphere to every room. In the reception room it will blend with the elegance of furniture and decorations while in the boudoir it will diffuse cosiness and an air of familiarity.

Wallpaper seems almost sympathetic as it lends itself to your various moods—always offering the restfulness of pleasing patterns.

Now is the time to repaper your home. Consult your decorator or wallpaper dealer. He will gladly estimate on any or all rooms, without obligation.
DISTINCTION in the town house, apartment or country villa interior furnishings, to reflect superior taste with individuality, should be chosen by experts.

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Decorators and home builders find the perfect combination of beauty, sanitation and economy. It provides the ideal background for home furnishings, and yields the much desired atmosphere of good cheer and restful harmony.

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Garden Soils, Good and Otherwise

(Continued from page 31)

fledged chemist's laboratory to find out what you want to know. But that is not necessary. A few simple, home-made tests and some intelligent observation on the ground will enable you to judge pretty accurately as to each of these conditions. To determine what plant foods are needed, proceed as follows:

1. Take five or six potfuls of the soil and in each plant a few kernels of corn, beans, peas or any other quick growing vegetable, first mixing with soil for the different pots the following materials:
   - to the first, a quarter of a teaspoonful of acid phosphate;
   - to the second, a quarter teaspoonful of muriate or sulphate of potash; or
   - if that is not obtainable, a teaspoonful of wood ashes.

Further combinations of each two, and of all three of these, will make the tests complete. Each of these pots should, of course, be carefully labeled; the soil in all should be in the same condition, except as to the difference in the various agents used. The resulting growth will indicate which, if any, of the three plant foods—nitrogen, phosphoric acid, and potash—is most needed by your soil.

This simple test is not by means a scientific experiment, but it will serve very well as a guide in the right direction in the treatment of your soil. In addition to this test, send a sample of your soil to your State Experiment Station, requesting an analysis and any suggestions they may give as to what to apply to get the best growth of vegetables.

A careful observation of the growth of plants in your garden will indicate what it may require in the way of plant foods. A weak growth, lacking in healthy green color as the plants start, would imply a deficiency of nitrogen. Lack of potash is sometimes shown by failure of the crops, especially of grains or legumes, to mature normally; leaves may curl, and stalks be weak and withered. Lack of weak stems and poor bloom, an apparent lack of strength to "carry on" after a good start, may be due to insufficient phosphoric acid in the soil.

All these things may serve as guides to the gardener, but they are not conclusive proofs, for there are too many other factors affecting the results.

Acidity and Humus

The second test—that for acid soil—is very simple. You may get a bottle of blue litmus paper. Place a strip of this in the soil, which should be moist enough to dampen the paper, and if the soil is acid you will get a reaction that will turn the paper pink or red, the degree of acidity being shown by the color of the paper indicating the degree of acidity. This test is not infallible, but will serve the purpose under most conditions.

If soil grows freely in your ground, and clover does not, that will be another indication that the soil is acid.

The more humus there is in your soil, the more water it will absorb before the water begins to run through it. Plain sand will take up only about 10 per cent of water, while a black soil is practically as good as peat moss, taking as much as 250. If you want to test your soil, take a sample and get it air dry; weigh it; add as much water as it will absorb; and weigh it again. The increase in weight should be at least 30 per cent; and preferably considerably more than that. If the soil in your garden remains wet and sticky for a long time after a rains, instead of breaking and crumbling readily when it is taken up in the hand, the chances are that it is deficient in humus.

The productive capacity of soils depends to a great extent on the presence of several different bacteria in the soil which are favorable to the various processes of growth. The average gardener is probably familiar with the fact that the leguminous plants, such as clov-

Plant Foods

Take first the matter of plant food. The standard source of getting these is through the manure pile, long been the mainstay of the universal use of automobiles, is for the manure pile is not so available as formerly. In its place are the various kinds of bacteria in the soil, which have the power of storing nitrogen gathered from the air, are present in huge numbers. Other bacteria, when plant food, are nevertheless a direct factor in the gardener's success. To the extent that whether or not beans grow as well as you should in your garden, try a pot with plain seed, and another under the same condition with inoculated seed. The inoculation process is simple. If it shows marked results on beans it is probable that inoculation on other things would also pay, as the condition is favorable for the development of the variety of these gardener's assistants are also adapted to others. The problem remaining, so far as practical results are concerned, is how to add to your garden soil the things which will make up for the deficiencies the various tests may have revealed.

Moist soils, unless they have had an application of lime recently, will be found to be acid. The corrective for this condition is lime. The most convenient form in which to apply this is raw ground limestone. A very simple test of application of wood ashes will contain enough lime to keep the drug store. If it shows marked results on bearing a plant, it is lime that is needed.

Grow some clover, and if you find that the plants with plain seed, and another under the same condition with inoculated seed. The inoculation process is simple. If it shows marked results on beans it is probable that inoculation on other things would also pay, as the condition is favorable for the development of the variety of these gardener's assistants are also adapted to others. The problem remaining, so far as practical results are concerned, is how to add to your garden soil the things which will make up for the deficiencies the various tests may have revealed.

Foliar feeders are also useful when the potash situation this year may make it necessary to get one with nitrogen and phosphoric acids, as the plant will not grow in this soil. Manure is one of the most economical and effective fertilizers. To use them one needs only those which the soil test shows to be best. Manure is also a process of building up that may continue for many years. Using all the manure possible, especially on new soils, and especially those of a mucilaginous nature, will give excellent results.

Garden Soils, Good and Otherwise

(Continued on page 68)
There is a steadily growing demand for the finer quality of papers in the beautiful patterns of the day, since it is now universally appreciated that the wall paper forms the background for all interior decoration.

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A. THEO. ABBOTT & CO., Dept. R, PHILADELPHIA
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The Chinese are skilful lapicidars. Their work in shaping jade and other hard stones has not been surpassed. The Celestial craftsmen likewise show great ingenuity in taking advantage of any irregularity in form or color of the stone he is working. The various porcelain, on the other hand, all the loam or muck soil that can be incorporated with it will be extremely valuable in bringing up its productive powers. Muck is not so common, but they are countered occasionally, and are all the better for the addition of manure.

In short, every gardener, even the one who may be conducting his little farm as a very small scale, should have a definite policy in regard to these things, for it should try to build his garden up, after year, making it each season a little more like the ideal conditions which have described.

The Truth About Sweet Peas

they keep better if cut before the sun is strong. Scissors or flower gathering shears should be used by beginners, because pinching is usually accompanied by an upward pull that loosens the roots or a downward pull that splits the stem at the flowering point. Gardeners gather the flowers with a knife, placing the blade against the base of the stem and twisting slightly to sever the stem cleanly. The different colors should be gathered separately; it is an easy matter to mix them afterward, whereas it is often a great convenience to have the colors separated.

A little stimulant is advisable when the plants have fully developed and show any indication of slowing up in their growth. It can be supplied in the form of a mixture of soda dissolved and applied to the roots, a tablespoonful to a pint of water. The best means of reaching the roots is to take a garden hoe or a crowbar and make holes 1' apart along the length of the row, about 1' out from
Farr’s Hardy Plant Specialties
for Early Spring Planting

Year after year the hardy garden grows more charming and valuable as the plants increase in size and blooming power. Early spring is a desirable time for selecting and planting most perennials and shrubs.

In my comprehensive collection at Wyomissing may be found plants suitable for every phase of gardening—rock plants, and those for shady places; water plants; plants for the perennial and shrub border; individual specimens of rare varieties. A few of these are here noted—to list them all would be impossible.

Yearly the garden grows more charming and valuable as the plants increase in size and blooming power. Early spring is a desirable time for selecting and planting most perennials and shrubs.

A complete list of my collection of Hardy Plants and Shrubs will be found in Farr’s Hardy Plant Specialties (Sixth Edition) 112 pages of text. 30 full page illustrations (13 in color). Most well-informed gardeners have a copy, but if you have not received it, or it has been misplaced, a duplicate will be sent promptly on request.


Planting the garden. So many have asked me to help them plan their gardens that I have found it necessary to form a special department in charge of a skilled landscape designer and horticulturist. I will be glad to give you suggestions in the preparation of detailed plans for which a charge will be made.

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Apples, Peaches, Pears, Plums, Cherries, Grapes, Raspberries, Blackberries, Strawberries, etc., hold out attractive possibilities to FRUITS and BERRIES are VICTORY CROPS, "OUR DEPENDABLE TREES and PLANTS are GUARANTEED to GROW".

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Eat Fruit and Save Sugar
Eat Nuts and Save Meat

"OVER THERE" is a direct appeal for more food—without food, what good are men and ships?

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Famous for its beautiful snow-white porcelain body, the MONROE allows no air to enter, no chance for ice to melt. The MONROE keeps food as good as the day it was put in, without expensive, unsanitary, and unnecessary running ice. The MONROE is a genuine MONROE Refrigerator.

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30 Days Home Trial

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Monroe Refrigerator Company
43 Benson Street Lockland, Ohio

30 Days Home Trial
FROM the time you prepare the ground in your garden, until you seal up your last jar of preserved fruits and vegetables next summer, Lewis & Conger's can supply the very articles to make your home garden mean most for your housekeeping. As you plant, as you work in your garden, as you supply your own table from your own ground, remember that here are articles that will provide better results with less effort and at lower cost.

Keep the Greenhouse Fires Burning

It was unquestionably from patriotic motives that some of our best Americans, with that whole-hearted spirit which is so characteristic of them, closed up their greenhouses wholly or in part during the coal shortage last year. And yet, as with most questions, there are two sides to be considered.

What will be the effect of a severe slanting storm on the cold glass of a closed greenhouse? How much glass will be broken and is it wise to accumulate the damage on the roof? A severe storm would be ruinous, because of the weight of the fallen snow, so that aggressive action should be taken at once. But it has been estimated that 50 per cent of the damage was done by the weight and 25 per cent by the wind. The following precautions are necessary:

1. Remove all deciduous trees, shrubs, and vines from the glass, and protect it from the wind and snow by covering it with a tarpaulin or canvas.
2. Remove all heavy objects from the roof, such as large pieces of wood or stone.
3. Use strong, sturdy supports to hold the glass in place.
4. Keep the greenhouse well ventilated to prevent condensation and the growth of mold and mildew.

The row at the top and slanting slightly toward the treetop. These holes can afterward be filled with soil. Keep the greenhouse fires burning, and the danger of damage will be reduced. Employing a proper irrigating system will prevent the greenhouse from being damaged by severe storms.

The Best Type

The Spencer type of sweet pea flower is by far the very best. Its blossoms are larger in proportion than in the older types. It cannot be grown without sunshine, and even then sun may be too strong for it.

The truth about sweet peas is that they are a highly important factor in feeding ourselves and the world. They are a great many greenhouses on private estates throughout the country, and the same reasoning applies to them as to public greenhouses.

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IF war must be won by food, as men like Herbert Hoover say, then we are making munitions in our factory.

For our products greatly help the food production. They start the season earlier, because they kill the frost. They increase the yield in the garden—the intermissions of the American family. They are utilitarian to the highest degree, but also they are economical and profitable.

Never before have the American people had to face a food shortage. Never before has the garden represented much more than a pleasure to the most of us. Never before has money been able to buy what we needed.

Now, under the grim realities of War, the garden decides whether we live well or scantily. Its products, to a large measure, determine our bill of fare—summer and winter.

Thus, it is up to all of us to increase the yield—to take more and more—that the people may eat.

Duo-Glazed Goods Make Garden Profits

They double the growing season. They start the garden much earlier—produce its life weeks and weeks—all winter, even.

The supply is not inexhaustible this year. With a demand for every ear on the railroads, with lumber advancing in price, and labor harder to get and still harder to retain, we are not sure how long we can meet your demands.

One thing we know certainly, however, is that the prices we quote today cannot long be maintained. Every indication is of a higher figure. The garden need our goods, and orders now will be filled promptly and profitably.

Order now. It means better attention, delivery on time, and prices lower than they will be. "You need not hesitate—our guarantee fully protects you. Catalogs on request.

Callahan Duo-Glazed Sash Co.
145 Fourth St.
DAYTON, OHIO

---

Anchor Post Gates

For twenty-five years Anchor Post Entrance Gates and Fences have been noted for that perfection in design and material that stamps an article "superior quality."

That there is real economy in purchasing from a manufacturer who rigidly maintains the highest standards of quality in his product, is demonstrated by the thousands of Anchor Post installations which, after years of service, show no evidence of deterioration.

CATALOGS Our Catalogs, describing Lawn and Garden Fences, Fence, Poultry, Dog and Special Enclosures, will be found very helpful. Ask for the one you require.

ANCHOR POST IRON WORKS
11 Cortlandt St. (13th Floor) NEW YORK
Philadelphia Boston Cleveland Atlanta Hartford Newark

---

Townsend's Triplex

The Greatest Grass-Cutter on Earth

Cuts a Swath 86 Inches Wide

Floats over the uneven ground as a ship rides the waves. One mower may be climbing a knoll, the second skimming a level and the third paring a hollow.

Drawn by one horse, and operated by one man, the Triplex Mower will mow more lawn in a day than the best motor mower ever made, cut it better, and at a fraction of the cost.

Drawn by one horse, and operated by one man, it will mow more lawn in a day than any three ordinary horse-drawn mowers with three horses and three men. (We guarantee this.)

Does not smash the grass to earth and plaster it in the mud in springtime, nor crush out its life between hot rollers and hard, hot ground in summer, as does the motor mower.

The Public is warned not to purchase mowers infringing the Townsend Patent No. 1,219,319, Dec. 19th, 1916

Send for catalog illustrating all types of Townsend Lawn Mowers

S. P. TOWNSEND & CO., 17 CENTRAL AVENUE, ORANGE, N. J.
The Garden Beautiful is the Garden Useful (Continued from page 28)

wisdom and rich common sense in the practice. A return to this old-fashioned custom was made for added happiness, independence and wealth to the people of the United States. Is it not a reasonable belief that much of the sturdy manhood and fine patriotism, as well as the prosperity and health of the American ancestors of a century or more ago, was due, in part at least, to their habit of gardening? The knowledge of every family that it was feeding itself as a part, gave a feeling of freedom and contentment which made for the general welfare of the community and of the country as a whole.

Linking Production to Consumption

Such a system put into operation today would benefit every individual, every community and the entire nation as well. There are many reasons why the production of food as near as possible to the source of consumption today would be of substantial service to the United States. Even in normal times it would have advantages, but in war times when the burden of the nation is increased manifold, it possesses qualities which otherwise would not be so great. For one thing, it would result in a decrease in the cost of living and in an increase in the value of life because it would mean a strengthening of the sinews of war.

Another value of the food produced close to the kitchen door lies in the fact that it will do much to relieve the hunger of other nations, and in any country today it is so necessary to use thousands of freight cars and thousands of men to handle material until after getting them in their place of growth to their market. With millions of home gardens at work for the country, it will readily be seen that a vast load would be lifted from the already overburdened shoulders of the railroads. American products are crying daily for more material, and always more, to be converted into necessities. Every freight car released for food carrying duty becomes a carrier of thousands of pounds of wood and automobiles and other war supplies.

This thought alone, without any others which might be mentioned, would make why war gardens should be planted a duty over the United States, should be enough to inspire every lover of home and country to become a tiller of the soil, no matter how small or how long his contributions may be to the greater good it is producing. "Take care of the pennies and the dollars will take care of the pounds," is a fine old saying, applied to no one who thinks that because they cannot do some large service, it is not worth doing anything at all. The size of a garden does not count. It is the spirit which enters into its cultivation. Will the spirit of Americanism manifests itself through millions of "soldiers" and "sailors" and "aeroplanes" and stronger bond of unity between every part of the people of the United States, again and again show them the power of autocracy can be in vain.

Beauty unadorned is beauty most admired. American gardens have become a greater source of beauty as of other forms of beauty. With the soul of democracy shining in the hearts of its citizens, the garden of a loyal, patriotic American citizen becomes more beautiful than the most fanciful garden ever laid out to please the fancy of a king or queen.

The War Garden Department (Continued from page 50)

(Continued on page 74)
The aristocrat of fire-safe roofings

COLOR-BLENDE SHINGLES
of JOHNS-MANVILLE ASBESTOS

New and Distinctive Color Effects in Roof Design

By their rich softness of color and texture, Colorblende Shingles give to roofs a new and interesting distinction. And they are as fire-safe and practical as they are beautiful.

Colorblende Shingles accurately indicate the quality of the whole Johns-Manville Roofing Line, which includes a fire-safe, economical roofing for every requirement.

Transite Asbestos Shingles, lower in cost but equally durable—Asbestos Built-Up Roofing for flat roofs—Asbestos Ready Roofing for sloping roofs—Corrugated Asbestos Roofing for skeleton framing. Booklets on request.

H. W. JOHNS-MANVILLE CO.
NEW YORK CITY
10 Factories—Branches in 61 Large Cities

Plate I. Roof effect in autumn tones, secured by laying four shades of Conglomerate Brown and No. 30 Standard Red Shingles. © 1918 H. W. J-M Co.
The fine old trees on this beautiful estate were intrusted to the skilful care and masterful art of Davey Tree Surgeons. The results have been more than gratifying. Among hundreds of distinguished Davey clients are:

Mr. FREDERICK W. VANDERBILT  
Mr. THOMAS E. WILSON  
Mr. E. T. STOTESBURY  
Mrs. K. DEXTER McCORMICK  
Hon. MYRON T. HERRICK  
Mr. JESSE ISIDOR STRAUS  
Capt. J. R. De LAMAR  
Dr. ANNA SHAW

The saving of priceless trees is a matter of first importance on every estate. Davey Tree Surgery is a fulfillment of the maximum expectations of those who love and value trees. A careful examination of your trees will be made by appointment.

THE DAVEY TREE EXPERT CO., 503 ELM ST., KENT, OHIO
Branch Offices, with telephone connections: 225 Fifth Ave., New York  
2017 Land Title Bldg., Philadelphia; 450 McCormick Bldg., Chicago

John Davey, Father of Tree Surgery

Permanent representatives located at Albany, Baltimore, Boston, Buffalo, Cincinnati, Cleveland, Detroit, Harrisburg, Hartford, Jamaica, L. I., Kansas City, Lenox, Louisville, Milwaukee, Minneapolis, Newark, N. J., Newport, Pittsburgh, Poughkeepsie, St. Louis, Stamford, Washington, White Plains

Canadian address, 22 Victoria Square, Montreal

Every real Davey Tree Surgeon is in the employ of the Davey Tree Export Company, and the public is cautioned against those falsely representing themselves.
The aristocrat of fire-safe roofings

COLORBLENDШ SHINGLES
of JOHNS-MANVILLE ASBESTOS

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H. W. JOHN-S-MANVILLE CO.
NEW YORK CITY
10 Factories—Branches in 61 Large Cities

Plate I. Roof effect in autumn tones, secured by laying four shades of Conglomerate Brown and No. 50 Standard Red Shingles.
DAVEY TREE SURGEONS

Estate of the late Joseph H. Choate, Stockbridge, Mass., famous alike for the greatness of its owner and the charm of its artistic and mature setting

The fine old trees on this beautiful estate were intrusted to the skilful care and masterful art of Davey Tree Surgeons. The results have been more than gratifying. Among hundreds of distinguished Davey clients are:

Mr. FREDERICK W. VANDERBILT
Mr. THOMAS E. WILSON
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Canadian address: 22 Victoria Square, Montreal

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MORE HEAT—LESS COAL

A Little Coal and Dunham Does the Trick

The Dunham Radiator Trap—The Equalizer

Here is the one way that you can have beautiful flowers, plants during the winter months. The installation of Dunham Radiator Traps in many cases is all that is necessary. Fuel saving effected the first winter often more than pays for the expense involved. The nation now saves 50,000,000 tons of coal this year. How is it to be done? There is only one way. That is to make the most of what we have. We can go twice as far by using only as much as is absolutely necessary. Save every unnecessary shovelful. Every shovelful of coal you waste prolongs the war.

Remember this:—every half heated radiator, every pounding radiator, every sputtering, hissing air valve on a radiator, is a coal waster.

Look to your present heating equipment. Find out if you are getting sufficient heat for the coal you burn. Ask a reputable heating contractor how Dunham Heating Service may be installed and how it can save coal for you. Ask him how your present heating system can be modernized. Patriotism and economy demand that you save coal. Answer him by writing us today.

Will you?

C. A. DUNHAM COMPANY

Fisher Building, Chicago

Branches in 36 cities in U. S. and Canada

FACTORIES

Chicago, Ill.
New York, N. Y.

SAN FRANCISCO

PITTSBURG

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KANSAS CITY

MONTREAL

NEW YORK

1918

™

SAVO

Self-Watering, Sub-Irrigating Flower and Plant Box

Healthy, Beautiful Plants the Year Round

A scientific plant and flower box is self-watering and sub-irrigating. Plants just the amount of air and water when and where needed. No surface water.

SAVO to used indoors or outdoors, it is absolutely leak-proof and non-toxic. Made of aluminum bakelite. Ask your nurseryman for catalog.

SAVO Flower boxes are handsome because they add a dash of green to any room. Write for dealer's section.

SAVO MFG. COMPANY

312 New York Life Bldg., Chicago

THE DESTINY OF THE WORLD IS AT STAKE. LET THERE BE UNITY OF PURPOSE.

THE J. L. MOTT IRON WORKS

Trenton, New Jersey

New York

5th Ave. & 12th St.

Burnham's Antique Trading Post
Ye Olde Bay Road
Ipswich, Mass.

Antiques

AND

Hooked Rugs

FOR THE

Country House

FOR THE

Country House

1918
NOTHING can compare with my Philadelphia force of Spring planting time. Address solve your lawn and garden problems. This is or plant for every place and purpose. By all means send for Catalogue B-4. It will help growth are unexcelled anywhere. They have a tree in assortment, shapeliness of form and vigor of plant you could desire. For 45 years they have been raising trees and shrubbery which, for variety of almost every the War Garden Department

Starting Old Tubers of Begonias

By W. R. GILBERT

The time is approaching when it will be necessary to make preparations for getting the old tubers of bedding and greenhouse begonias to start into growth. There are one or two different methods of doing this, the more general one being to place the tubers thinly in a seed-box, cover them with a layer of leaf mold, and stand them on a shelf near the glass in a warm greenhouse. If the leaf mold is kept in a fairly moist condition, shoots are quickly thrown up and young roots begin to form. When the stage is reached it is quite time to pot up the plants singly so as to grow them on to a suitable size for planting out or decorating the greenhouse.

Another method of starting begonia tubers into growth which I have seen practised in the North of Scotland to put the tubers in a shallow box or gently buried in leaf mold. After a little while the roots begin to make a strong growth while the ground is still wet and cold and lacking in the available ammonia which is needed for strong growth.

Prepare the Ground Early

It will be many weeks yet before the last of the tender garden vegetables and flowers can be put in; nevertheless, the sooner you can get your garden soil prepared the better. One big advantage is that after this part of the work is done you can plant at any time you wish and need not be delayed because of the difficulty of getting labor. More than that, early preparation of the soil means that by establishing a dust mulch you can save for use in summer all the surplus moisture which the soil is capable of absorbing. Furthermore, this early preparation of the soil prevents the weed seedlings near the surface from starting at once. If the ground is raked over again in ten days or two weeks, just as these little weeds are coming through, you can destroy them very rapidly.

The last step in the development of plants which should begin in late March is the Reading Giant, which is very early April is the process of rust off. This is to get them in good condition for the rigors of early spring weather. Plants and lettuce will wilt of degrees of frost if they have been gradually accustomed to it. Direct from the greenhouse or any time of the day or night and also during the day, the frost is severe. Where in the North of Scotland to put the tubers in a shallow box or gently buried, the soil should be covered with leaf mold, and the plants should be watched closely. If you can't fumigate or spray the plants, you can plant them almost any time, as long as the soil is warm and there is no danger of a frost. The plants should be in an airy greenhouse or a frame, with a frame on one side and a warm greenhouse on the other. The sun will do no harm.
Garden Necessities That Repay You

BUSHES, plants, vines, must have some kind of support and protection in order that they may grow most luxuriously. The best for the purpose, the one that enhances beauty in itself as well as proper construction for durability, is always the cheapest in the end.

Trellises and bed guards repay many times over in plants, blossoms and foliage. The Excelsior Rust Proof Trellis on the end of the porch shown here not only supports the vines, it is ornamental as well. The bed guards are of the same like—same construction and materials. These.

Trellises and Bed Guards

are made of heavy, tough, springy steel wires, which are held every intersection in the vise-like grip of the Excelsior reel clamp, a patented feature. AFTER making, the whole bric is galvanized by the Excelsior Process, that not only makes it rust proof, but thoroughly and completely welds it into one rigid mass.

These trellises won't buckle, droop or sag. Winds and shock have no effect on them. They can be taken down and used over, and will last for years.

To insure getting full value for your money, ask your hardware dealer for these products. We also make Excelsior fences, tennis laces, tree guards, gates, and similar garden necessities. We will cheerfully send catalog C on request.

WRIGHT WIRE CO.
WORCESTER, MASS.

DEANE'S FRENCH RANGES

cost more than ordinary kitchen ranges because they are worth more. They cost less to maintain because they are constructed to insure uniform heating with minimum coal consumption. The saving in coal, alone, will pay for them. In addition they give highly satisfactory services under all reasonable conditions. They are made in various sizes to conform to all requirements.

We also manufacture a complete line of kitchen accessories. Send for catalogue.

Bramhall, Deane Company
NEW YORK CITY
Plant more! Get bigger crops with Plant Jr.

Record crops must be raised this year! Do your "bit" in a big way—with Planet Jr tools. They save time, lighten labor, and increase both quantity and quality of production. They make every minute, every ounce of energy, every foot of soil yield its utmost result.

Planet Jr's are scientific garden tools, invented and made by a practical farmer and manufacturer. They are strong yet so light they can be used by a woman or boy. Last a lifetime. They meet the fullest demands of the hour!

**Planet Jr Garden Implements**

*No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and flere sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates all through the season. A hand machine that does the work so easily, quickly and thoroughly that it pays for itself in a single season.*

*No. 12 Planet Jr Double and Single Wheel-Hoe is the greatest combination hand-cultivating tool in the world. The plows open furrows, cover them and hill growing crops. The hoes are wonderful weed-killers. The cultivator teeth work deep or shallow. Crops are straddled till 20 inches high; then the tool works growing crops. The hoes are wonderful weed-killers. The greatest combination hand-cultivating tool in the world.*

**72-page Catalog, free!**

Illustrates Planet Jr's doing actual farm and garden work, and describes over 55 different tools, including Seeders, Wheel-Hoes, Horse-Hoes, Harrows, Orchard, Beet, and Pivot-Wheel Riding Cultivators. Write postal for it today!

*S. L. Allen & Co Box 1110K Philadelphia*

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**The Control of Plant Insects and Diseases**

(Continued from page 57)

**BORERS THAT DRILL into the TRUNKS of TREES: Destroyed by Force**

**Borers** are more dangerous in a young orchard than anywhere else. Trees of some size are attacked less frequently than smaller ones. It is therefore evident that young orchards should be watched carefully, and even preventive measures are worth considering with peaches.

Borers are easily detected by the trained eye. They will invariably attack weak, puny trees. In fruit trees the point of entry will be near the line and they will work down, borers attacking shade trees last. In any case the borer will always be killed either by cutting with a knife where possible, or inserting a piece of flexible wire at the bottom of the hole he has made. If the scar made should be painted with a heavy waterproof paint to prevent the entrance of moisture and consequent

<table>
<thead>
<tr>
<th>Name</th>
<th>Identification</th>
<th>Effect on Plants</th>
<th>Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEACH BORER</td>
<td>Tier pinholes in bark near ground line, opening with knife reveals the borer.</td>
<td>If neglected they will destroy trees.</td>
<td>Causes patches of dead bark that start at ground line and works downward.</td>
</tr>
<tr>
<td>FLAT AND ROUND HEAD APPLE BORERS</td>
<td>Much larger than peach borer, starts at ground line and works downward.</td>
<td></td>
<td>The twigs continue to fall until the entire tree dies in 3-4 years.</td>
</tr>
<tr>
<td>HICKORY TWIG BORER</td>
<td>A borer that enters the twigs, causing them to break at the base, which soon dry and fall.</td>
<td></td>
<td>Infested canes soon turn yellow and die.</td>
</tr>
<tr>
<td>CANE FRUIT BORER</td>
<td>Small borers that work in the stems of soft center cane fruits, causing noticeable lumps.</td>
<td></td>
<td>Destroys the roots by boring down to center, destroying the tissues as it goes.</td>
</tr>
<tr>
<td>ROOT BORER</td>
<td>Unhealthy plants will be lost at ground line, and some roots appear dead.</td>
<td></td>
<td>The stem attacked soon becomes wilted and flabby and dies.</td>
</tr>
<tr>
<td>SQUASH VINE BORER</td>
<td>A white maggot about 3 1/2&quot; long that enters the stems of soft-center plants.</td>
<td></td>
<td>Robust trees will die in a few years if not freed of infestation.</td>
</tr>
<tr>
<td>OTHER BORERS</td>
<td>Holes in the bark of trees with fine sawdust at the opening. Crops work up toward the branches.</td>
<td></td>
<td>The presence of borers in part of the trunk creates the danger by man destroying natural feed grounds.</td>
</tr>
</tbody>
</table>

**Plants Attacked**

- **PEACH BORER**: This particular type combines itself to peach trees.
- **FLAT AND ROUND HEAD APPLE BORERS**: Small apple trees not more than 5" in diameter are caustically larger ones.
- **HICKORY TWIG BORER**: All sizes of hickory trees.
- **CANE FRUIT BORER**: Blackberries, currants, gooseberries, and other pithy center plants.
- **ROOT BORER**: Grapes, blackberries, gooseberries, all restless rooted fruit plants.
- **SQUASH VINE BORER**: All soft centered plants such as squash, pumpkins, tomatoes, melons, etc.
- **OTHER BORERS**: There are few trees not subject to attack.

**Preventatives**

- **PEACH BORER**: Painting trees at bases and 4" below ground line with coal tar. Covering with tar paper.
- **FLAT AND ROUND HEAD APPLE BORERS**: Mounding up coal ashes or sand around the butt for a few years.
- **HICKORY TWIG BORER**: Nothing known to prevent except cutting down infested trees.
- **CANE FRUIT BORER**: Keep all grass and litter removed from around plants, and cultivate frequently.
- **ROOT BORER**: Good, rich soil and deep cultivation. Use plenty of lime.
- **SQUASH VINE BORER**: Keep garden and surroundings free of litter in fall. Cultivate all open area in fall, burn grass borders.
- **OTHER BORERS**: Keep a close watch to destroy them just as they enter the tree.

**Core, if Any**

The borer should be dug out and killed with a knife. The only hope is to cut back twigs.
As in a watch, it is in the “works” that the value of a Lawn Mower lies. Ask the Gardener—He Knows! Knows of the selected material and fine workmanship of the “works” of a “PENNSYLVANIA” Quality Lawn Mower—that all the self-sharpening crucible-tool steel (oil-hardened and water-tempered) blades are always sharp and cut clean. The higher priced “works” means economy and efficient mowing.

Sold by Hardware Dealers and Seedsmen
FREE—A booklet—“How to Care for the Lawn”—written by an authority, mailed on request.

PENNSYLVANIA LAWN MOWER WORKS
1622 N. Twenty-Third Street
Philadelphia, U. S. A.

There’s Witchery In a Water-Garden

A spirit of witchery hovers over a pool, with its clear water, its fragrant flowers, its flashing fish. Water Lilies and water plants are so easy to grow, and so beautiful, that they should be made a part of even the simplest plan.

My new and rare hardy Nymphaeas will be a valuable adjunct to your garden. In practice with its huge flowers of garnet-red, white and mahogany, Escarboucie, a free-blooming sort with striking vermillion flowers, Paul Hariot, large flowers of clear yellow and red, and Vexme dark aramanth-rose, are some of the best, although there are a multitude of others.

“Water Lilies and Water Plants” (my 1919 Catalogue) shows many rare Nymphaeas in all their natural colors, with other handsome water plants. In addition to giving full information about different varieties of water plants, it tells how to plan and make the garden itself. Send for a free copy.

WILLIAM TRICKER
Water Lily Specialist
Box G
Arlington, N. J.
Little Trees
At Little Prices
For Every Purpose
FROM
Little Tree Farms
BIRTHPLACE OF LITTLE TREES THAT LIVE

Why you should buy trees and shrubs this year and why you should buy them early!

Before the war Europe supplied a large portion of the nursery stock used in America. That source of supply is now cut off. American growers have curtailed production during the past two years. Consequently there is bound to be a scarcity of planting material and prices will be correspondingly high.

Be Foreclosed—Save Money
Buy little trees now, —plant them out for borders and edging for your vegetable garden, also in rows like vegetables and flowers. Employ the Little Tree Garden idea and set the trees out without additional labor; they will require practically no care; they will add beauty and charm to your vegetable plot, and they will be increasing in size and value all the time.

It’s real economy and pleasur.

With a Little Tree Garden on your land it is always planting season with you

How many times while walking about your estate have you thought “A little blue spruce would ‘brighten up’ this corner” or “A few shade trees right here would be just the place to swing a hammock this hot day,” or “I wish that objectionable view on my neighbor’s property was screened from sight,” or “A mass planting of Japanese Barberry with its bright red berries would be cheerful in the fall and early winter.” or “A privet hedge is just what I need on the front of my property,” etc.? With a Little Tree Garden you can carry out these small plantings with your own stock when the spirit moves.

Sample Bargain Combination for Little Tree Garden
52 PLANTS FOR $18.00

This combination is comprised of eleven very desirable species for American planting—all American-born and American-grown. Below are listed the species, sizes and quantities of each that make up the combination.

5 Silver (Cone) Fir
2 Juniper, Red Cedar
1 to 2 feet tall

5 White Spruce
1 to 1½ feet tall

5 Blue (Colorado) Spruce
1 to 1½ feet tall

5 Red (Morrow) Pine
1 to 1½ feet tall

5 Douglas Spruce (Fir)
4 to 6 feet tall

5 Arborvitae (White Cedar)
1 to 1½ feet tall

5 Sugar (Rock) Maple
1 to 2 feet tall

5 Red Oak
1 to 2 feet tall

5 Japanese Barberry
1 to ½ feet tall

5 Regal’s Privet
2 to 3 feet tall

52 Plants for only $18.00

This high quality stock has been twice transplanted and root-pruned. These prices include packing and delivery to the transportation company at Framingham, Mass.

2 of these combinations—105 plants—for $34.00
10 of these combinations—525 plants—for $125.00

Send for catalog today. Illustrative and instructive, listing twenty million trees for ornament, shade and forest planting.

Write for specific information.

Give your conditions and object of planting. We will advise the proper planting materials and how to have complete success.

Little Trees Farms (Near Boston)
NURSERY OF
American Forestry Company
Division K1, 15 Beacon St., Boston, Mass.

Spanish Wall Furniture of the 18th Century

(Continued from page 35)

vigor of proportion, both in mass and in point of such details as moldings and the like, many a piece might appear thick, stodgy or even clumsy. As it is, the effective and subtle quality of Spanish contour saves what English restraint and reserve would kill. It is this sense of vigorous movement in a vigorous body that gives not a little of the agreeable impression produced by Spanish “Queen Anne” pieces and often adds appreciably to their adaptability to a variety of environments.

The red lacquer bureau bookcase of approximately the same date as the blue lacquer bureau bookcase or cabinet, is another admirable example of the Spanish taste for gorgeous color and bold, reticulated moldings. In addition to the moldings surrounding the doors, the treatment of the top is sufficient evidence of the sway of Baroque influence at the beginning of the 18th Century. The exterior color and the gold decoration in Chinese designs are like what may be seen on English pieces of the same period, but the strong local touch, apart from the moldings surrounding the edges of the doors and certain peculiarities of construction and mobile quality of embellishment of the upper or cupboard part where the inner faces of the doors and of the sides, back and top are fully decorated with gilding and with rich polychrome painted devices. The national love of complete ornamentation could not have a better exemplification than this bit of colorful decoration that was wholly hidden from view when the doors were closed as they probably were most of the time. The whole piece eloquently testifies to the skill of Spanish cabinet makers.

Influence of Imports

Importation doubtless brought many a piece of furniture to Spanish 18th Century households, but in this connection two facts are to be kept clearly in mind. In the first place, they were promptly assimilated and became incorporated as integral parts of the general decorative environment and were, therefore, quite as representative of the Spanish mobiliary fashions of the day as though they had actually been fabricated on Spanish soil. Consequently we are justified in regarding them as Spanish. In the second place, they were immediately wired upon by native Spanish craftsmen and utilized as models as it is practically immaterial whether individual pieces were Spanish by or by adoption—in any event, they take a current Spanish type. The front cabinet or secretaire on a base with spiral turned legs is a case in point. Certain peculiarities of structural and ornamental seems to indicate an origin; at the same time, a few of the pieces seem to point to the hand of an American. At any rate, we know that it was in Spain from a very early date and the possibly fine example of "oyster shell" wood along with inlay in a light-colored ground while its design evidence, relationship with Baroque architectural principles.

Another exotic or semi-exotic of virtually the same date, is the painted press or cupboard on a stand, by the bye, being a reception. It came from the north of Spain but there are points in its make-up which would possibly save it from its great size argues against such a time at a time when transportation facilities were not of the best. It is possibly the work of Dutch art domiciled in Spain. Whatever may be the cupboard's individual past history, we may consider it in the category of Spanish wall furniture during the rococo arcadian period. The ground color is a dark green and the flowers, birds and fruit panels are in full colors. The sides with the edges of the oval panels on the doors indicate the Spanish bench for that sort of ornamentation. It is an exceedingly expressive piece capable of tributing materially to the decorative value of any environment.

The little slant top secretaire with straight tapered legs tifully veneered with rosewood or coco-bolo, and the bow of drawers, veneered with rosewood and banded with black moldings, are unquestionable native Spanish works and represent a lega such but not less elegant type of modesty than the well-known Baroque cabinets. Both pieces were within thirty years of each other. Very nothing could e with them, and strong dictation of Baroque inspir is in the walnut, black and black shell inlay, a piece...
This 72-page garden Handbook illustrates and describes 160 sturdily-built weather-resisting pieces for the garden, which we ship by express to all parts of the nation (express allowed east of Mississippi River).

Based on accurate artistic knowledge and made by hand, GARDEN CRAFT pergolas, summer-houses, trellises, trellis-fences, Japanese woodwork, and sun and shade arbors are famous the world over for artistic excellence. The handbook with 1918 supplement will be mailed you on receipt of 50 cents, at post office, to cover printing cost and postage. Ask for Catalogue B.

The Mathews Mfg. Company, Lakewood, Cleveland, Ohio

Hodgson Bird Houses

Do the memories of bird houses built in boyhood days make you wish for one now?

Let a Hodgson Bird House fulfill this wish and bring joy to your heart, an artistic touch to your grounds. Hodgson Bird Houses are quaint, and attractive. They are designed to harmonize with the architecture of your house. Built of red cedar and carefully painted, they are made strong, durable and vermin-proof. Before it slips your mind, write for a Hodgson Bird House catalogue.

E. F. Hodgson Co.

Hodgson's "GOLD MEDAL" GLADIOLUS

We grow this magnificent strain for the express purpose of being able to supply those who want the very best mixture possible.

When Gladioli are grown in mixture they are liable to deteriorate rapidly and finally contain but a few colors. To avoid this we grow small blocks of a large number of exquisite high-grade sorts from which this mixture is made and which embraces all colors from the richest reds through all the intermediate tones of pink, rose, salmon, bluish, white, yellow, to the new blue, heliotrope and "pansy colors."

Indeed so great is the diversity of colors that there is little risk of any two being exactly alike.

Having a large stock of splendid bulbs, we are able to offer them at a very reasonable price, viz: 60 cts. per dozen, $3.00 per 100, $35.00 per 1000. If wanted by Parcel Post, add 6 cts. per dozen for postage.

The above is but one of our Specialties. For complete list send for Dreer's Garden Book for 1918

Free on application if you mention this magazine.

Henry A. Dreer

DREER'S GARDEN BOOK FOR 1918 - PHILADELPHIA
Spanish Wall Furniture of the 18th Century

(Continued from page 78)

Having Portuguese influence and possibly of Portuguese workmanship. The papelera, a favorite piece of Iberian small furniture, was always made by skilled craftsmen. That is sometimes heavy and dull. Rococo was very much like the little girl with the curl. When it was good, it was very, very good. The French designers and artisans knew how to handle it and when they did a good Rococo job it was instinct with grace and delicacy. But very few of the Spanish craftsmen knew how to treat Rococo and when they essayed anything in this fashion it was apt to be bad and, again like the little girl, when it was bad it was horrid. Spanish Rococo, for the most part, was vulgar and tawdry, repulsive bedizenment. Gilt, glitter and flashy color, without much consideration for design, seem to have been its dominant characteristic. There were, however, instances when gleams of intelligence and taste pierced the dark cloud of banality and produced a few objects worthy of consideration. One notable example of this workmanship of this era is a mahogany and rosewood veneered chest of drawers with a most refined rate inlaid in light wood. Other contemporary furniture alike display a piquancy and grace and were favorably received in England at the time.

This particular piece is a product of Majorca where a great deal of furniture of peculiar excellence and elegance was very much like the little girl. Spanish workman's genius for the most part, was vulgar and tawdry, repulsive bedizenment. Gilt, glitter and flashy color, without much refinement as well as for an elegantly appointed room.

During the latter third of the 18th Century in Spain, as elsewhere in Europe, the return to purer influences of design produced workmanship of the highest conception. One notable example of such workmanship of this era is a mahogany and rosewood veneered chest of drawers with a most refined rate inlaid in light wood. Other contemporary furniture alike display a piquancy and grace and were favorably received in England at the time.

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From the foregoing discussion of Rococo it will be seen that 18th Century Spanish workmanship was subject to much the same limitations experienced in other nations and likewise that the Spanish craftsmen had full control of all native devices and processes and that the influence of the French was but little felt. The Spanish workman was his own interpreter or interpreter of French taste and refinement as well as that of the other nations.

Mahogany and rosewood veneered chest of drawers from Island of Majorca. C. 1780. Traver

Painted and decorated gilt hardwood in the Empire mode. C. 1900. Traver

Old Carved Chippendale Chairs

OBJECTS OF ART
ENGLISH PERIOD FURNITURE
OLD ENGLISH INTERIORS
TAPESTRIES

London—27-29 Brook Street W.

FLEMISH SCHOOL. 17th CENTURY

IMPORTERS OF
SELECTED OLD MASTERS
Illustrated Catalogues Sent on Request

No. 3 West Fifty-Sixth Street NEW YORK

Satinover Galleries
BEAUTIFY YOUR PREMISES

HANDSOME gates, ornamental railing, lamp standards, lamps, grill work, fountains, lawn vases, tennis court enclosures, etc., of Fiske pattern and selected to harmonize with surroundings invariably demonstrate the good taste of their owners and add to property values.

We've an endless variety to select from, will execute special designs and, if desired, will erect complete.

Call at our showroom if you can or at least send for illustrated catalog.

J. W. FISKE IRON WORKS
74-86 Park Place
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Spanish Refectory Table with Carvings and Flutes Decorated in Soft Colors

LEED INC. INTERIOR DECORATIONS
681 FIFTH AVENUE ~ NEW YORK

Lawn Beauty With Economy and Conservation of Labor

The lawn beautiful must be cut often and well—and today hand mowing is not equal to this task where the lawn area is greater than two acres, unless labor out of all reasonable proportion is employed.

There is, however, one solution: one lawn-cutting mower that solves the labor problem and at the same time assures a perfect lawn at the minimum of expense. That mower is the FULLER & JOHNSON MOTOR LAWN MOWER

$275 f. o. b. Madison, Wis.

The Fuller & Johnson combines large cutting capacity with beauty and lightness. It can cut it so perfectly that no after-woining with a hand mower around trees, shrubs or driveways will be necessary. It can cut it so evenly that it can handle all kinds of work; never a clump, never a hollow, and never a bare spot. It is fast, efficient, and inexpensive. You can get the Fuller & Johnson Motor Lawn Mower. This machine is fast reducing hand mowers, horse mowers and the heavy types of motor mowers. It should replace them on your lawn.

Let us give you the full facts. Let us send you our book entitled "A Better Lawn." You owe it to your lawn and to your pocketbook to investigate the Fuller & Johnson.

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Whip-O-Will-O The Ideal Furniture

for city homes, country estates, sun parlors, porches, etc.

So comfortable—so sanitary—so easily moved about, as well as aesthetically correct and artistically charming.

Send for our New Catalogue
(Special Bird House Booklet included on request)

WHIP-O-WILL-O FURNITURE CO.
Scranton Pa.
How To Buy Pictures

(Continued from page 32)

and mass and accents of detail, such as is needed for costume-creations, that you will bring to play in selecting your overmantel picture. The room itself presents a composition, involving lines, vertical, horizontal and perhaps curved; wall masses also, which may be broken up into panels; a general tendency to simplicity or elaboration of design, to severity or luxuriance, to largeness or smallness of effect. You must have clarified your mind as to the character and quality of composition that your room presents before you can intelligently consider the composition of the picture that is to enhance its effects by some kind of contrast.

Again I could picture of little safety devices, such as the desirability of offsetting the room's excessive horizontality of effect by a picture whose composition involves horizontal predominance of vertical lines.

Too Much Decoration

By this time you will be on the road to that other motive for buying a picture—namely, interest in the picture for its own sake. This, of course, is the higher and more conclusive reason for buying a picture; and there is much justification for the artist's complaint that the modern interior decorator, if allowed free play, is apt to leave very little space for pictures, while their selection is hampered by the fear of disturbing the symmetry of the room. Such regulated symmetry is more suitable to the impersonal character of a hotel parlor, a concert hall or other place of public accommodation. It is opposed to the feeling of a home in which, if anywhere, the personal touch should be prized.

You may have bought and paid for such a room, but cannot fully be said to own it. If it cramps the exercise of your own judgment and taste, it rather owns you.

And how does this interest in pictures for their own sake originate? In many ways, no doubt; but frequently, I believe, from one of two reasons. Either you have observed what pleasure some one else derives from pictures and wish to see if your own interest in life can be similarly enhanced; or suddenly a picture strikes a chord in your memory or experience and you are astonished and delighted to find that it makes a definite, personal appeal to you.

To begin with the former case. The example of somebody else has prompted you to buy a picture; but as yet a picture is worth while to you than others do. The reason will be due to something in the picture and to you more than others. It is opposed to the feel­ing of the room. Such regulated symmetry is more suitable to the impersonal character of a hotel parlor, a concert hall or other place of public accommodation. It is opposed to the feeling of a home in which, if anywhere, the personal touch should be prized.

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Good Cheer In the Kitchen

Too. Enamel decoration brings in the sunshine, brings refinement to the kitchen, make possible those delightful "built-in" breakfast corners.

Pitcairn Banzai Enamel washes as easily as china, gives neatness, even elegance to your kitchen as well as to every other room in your home. Specify enduring enamel—Pitcairn Banzai Enamel. Write for free Portfolio of Enamel Interiors.

PITCAIRN VARNISH COMPANY
Newark Milwaukee Los Angeles
PITTSBURGH PLATE GLASS CO.

For Food Conservation and Time Conservation, Buy Cold Frames

You can conserve food by conserving time. You can conserve time by starting your garden earlier. You can start your garden earlier by setting out your seedlings in cold frames now. Leave them there until they grow into sturdy, well-established plants.

What Your Frames Will Cost You

Here are prices on our most popular frames:

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<td>2 Sash Standard Frame</td>
<td>$29.90</td>
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<td>3 Sash Standard Frame</td>
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<td>4 Sash Standard Frame</td>
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<td>5 Sash Standard Frame</td>
<td>$11.71</td>
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Booster Boxes

Handy Utility frames to set over single plants. 10 by 20 inches, 8 inches high, 5 feet long. Cypress is 1 inch thick. Prices:

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Booster Boxes:

For Food Conservation and Time Conservation, Buy Cold Frames.

Lord & Burnham Co.
Builders of Greenhouses and Conservatories

SALES OFFICES

NEW YORK BOSTON
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CHICAGO ROCHESTER
Continent & Commercial Bank Bldg. Granite Bldg.

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PHILADELPHIA MONTREAL

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Crackly crisp lettuce plants rapidly established in cold frames long before Winter has released its hold on things.

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By that time, the weather will be such that your regular garden will be ready for business. Then transplant them—

For Food Conservation and Time Conservation, Buy Cold Frames.

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Do you know that owners of garages and other buildings equipped with Myers Garage Hangers have had but little difficulty in open or close garage doors, with the extraordinary weather conditions experienced this winter?—for Myers Garage Hangers are designed to work "over the corner"—out of the way. No ice to climb—no snow to sweep. Catalog gladly mailed.

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Do you know that owners of garages and other buildings equipped with Myers Garage Hangers have had but little difficulty in opening or closing garage doors, with the extraordinary weather conditions experienced this winter?—for Myers Garage Hangers are designed to "work over the corner"—out of the way. No ice to climb—no snow to sweep. Catalog gladly mailed.

MYERS GARAGE DOOR HANGERS

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CYPRESS

For Best lumber limit on
but "End-Blue" Cypress.

Look for this on every board—
Accept no Cypress without this mark.

CYPRESS

For Best lumber limit on
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Look for this on every board—
Accept no Cypress without this mark.

MYERS GARAGE DOOR HANGERS

F. E. MYERS & BRO. ASHLAND OHIO

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Roofing Products

Metal makes the most satisfactory roofing for farm buildings or city construction.

Do you know that owners of garages and other buildings equipped with Myers Garage Hangers have had but little difficulty in opening or closing garage doors, with the extraordinary weather conditions experienced this winter?—for Myers Garage Hangers are designed to "work over the corner"—out of the way. No ice to climb—no snow to sweep. Catalog gladly mailed.

F. E. MYERS & BRO. ASHLAND OHIO
**Incidental Chairs**

These may be purchased through the Shopping Service, 19 West 44th Street, New York City

- **A graceful Hepplewhite desk chair with cushion seat in any color fabric.** $30
- **The Queen Anne desk chair above is rush seated and substantial. The price is $24**
- **Adam lines mark another desk chair, this time in mahogany and cane. It costs $27.50**
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of the past and the present always on view

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This is a HOME Year—
A year for recreation beside your own fireside. Then make
your home as attractive as you can—economically.
Nothing is more friendly than the charming whiteness of enamelled rooms and
furniture. Nothing is more economical if Enamolin is used. One coat of
Enamolin covers as well as two coats of paint. Enamolin is practically indestructible
inside work. It lasts for years outdoors. It does not chip, peel or crack.
Housewives find that they can wash Enamolined surfaces as easily as their
china. And long after paints or ordinary enamels need renewing, Enamolin's
smooth whiteness still delights the eye. That is how Enamolin saves you the
cost of refinishing.
As for your floors—there is NAMLAC FLOOR FINISH—waterproof, hard-
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Enamolin and Namlac Floor Finish are for sale at the better paint and hardware stores. If you
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Do Your Bit

When your house is built, when from
roof to basement it just suits you—call in
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Bay State Brick and Cement Coating
covers up walls of brick, concrete or stucco.
It seals every crack and crevice. Wards
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is a beautifier. White and a variety of
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you a lot about “Bay State” and ask for
a sample which will prove all the book
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Bay State Cement Crack Filler makes cracks in
cement disappear like magic. It makes a patch
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Do Your Bit

Plant Pomeroy Hardy English
Walnut Tree for cover or shade.

Useful and ornate—Particulars free
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Our Bulletin will assist you in
learning what to use in finishing or decorating.
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$6 Buys

Enough Nitraco
To Fertilize
The Average Garden and Lawn
For An Entire Season

4% Ammonia, 8% Available Phosphoric Acid, 2% Potash.

Nitraco is a universal fertilizer in such highly
concentrated form that 100 pounds are ample for
an entire season, for a garden containing 8,000
square feet, if planted entirely to potatoes. Or for
one of 12,000 square feet of general vegetables or
flowers.

It will give abundant food, the season through,
for a lawn containing 12,000 square feet.
Or to say it another way, 100 pounds of Nitraco
are sufficient for both the average garden of 4,000
square feet and a lawn of 8,000.

Altogether highly concentrated, it will not
injure the most delicate plants, unless used to excess.
It is so perfectly balanced in the foods it contains, that it can be
used with highly satisfactory results on anything that grows.
Being odorless, it can be used at any time without offense.
Being finely powdered, it is easy to use.
Being so highly concentrated, every ounce of it is actual plant
food. Keeps from year to year.

As the seasons advance, if you
want extra fine results, sow a little
Nitraco along the surface near
the roots and cultivate it in. The
increased growth will be quickly noticeable.

Nitraco is a universal fertilizer in such highly
concentrated form that 100 pounds are ample for
an entire season, for a garden containing 8,000
square feet, if planted entirely to potatoes. Or for
one of 12,000 square feet of general vegetables or
flowers.

Prices

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50 lb. bag 4.50
25 lb. bag 2.50

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Rose and Peony Specialist

Fair Lawn, N. J.

BAY STATE
Brick and Cement Coating

413 PARK AVE., NEW YORK
Paved Floors and Galleries

(Continued from page 41)

principle is commonly enunciated with some emphasis that a floor should be a heavier or deeper tone than the walls in order to create an impression of preponderant weight and thereby fulfill the visual requirement of balance. This dictum does not necessarily hold in the case of a paved floor, for the paved floor is so convincingly heavier than the walls that a different treatment is perfectly permissible with the floor lighter in color than the walls. In the next place, a paved floor allows far greater latitude than does a carpeted floor in the choice of covering and hanging fabrics to be used along with it. This liberty of choice applies in the particulars of color, texture and the quantity of material that it becomes possible to use.

A room containing numerous cover and hanging fabrics of strong color and deep texture, such as old Spanish or Italian velvets or Flemish tapestries, might easily prove insufferably stuffy when there is a carpet on the floor; with a paved floor the effect is altogether different. The radical difference in texture between the floor and the fabrics makes possible, and even invites, a depth of color, texture and richness in the latter that would, at the least, turn out to be difficult things to manage with full-bodied fabrics underfoot as well.

Last of all, a paved floor appreciably contributes to a sense of space in rooms and likewise tends to emphasize the contours and colors of the movable appointments. It may be regarded as a very efficacious foil in this respect. Before passing on to the next phase of the subject, it is well to note that paved floors may be laid to suit almost any architectural type and also that they may range in character from the utmost simplicity to the greatest elaboration. Their possibilities run the entire gamut from the most urbane, peremptory floor of the enclosed porch, to the most sumptuous and fully accordant treatment accorded its surface or its elements of virile charm.

Stone Floors

Of stone floors, the most urbane, perhaps, consist of marble carefully dressed and either of a single color or of several colors in a moderate gradation wherein the least change of tone may prove a not incon siderable element of virile charm. Character may prove a not incon siderable element of virile charm.

An agreeably diversified pattern of various sizes and shapes and colors of the movable appointments may be laid to suit almost any architectural type and also that they may range in character from the utmost simplicity to the greatest elaboration. Their possibilities run the entire gamut from the most urbane, peremptory floor of the enclosed porch, to the most sumptuous and fully accordant treatment accorded its surface or its elements of virile charm.

To an even greater degree than carpets, tiles are susceptible of interpretations quite varied enough to meet the most diverse tastes and purposes. Wide play of gradations in color, texture and shape, and a further possibil ity of regulating effects by the treatment of the joints, renders them an amenable and elastic flooring medium. Large square tiles offer one of the most acceptable types of floor. A highly acceptable type of floor, laid to the effect of fine old leaded windows, is seen in the illustrations. Decorative medallions of the same colored tiles, set at intervals as shown in the cut, may readily be introduced if inclination prompts. Another variety of floor, laid with biscuit-colored quarries, is seen in a room opening into the black and white shaded hall. And so one might go on indefinitely noting various styles of tiling. Enough instances, however, have been enumerated, along with the illustrations, to prove the entire adaptability of tiles to whatever demand may be made of them.

The mention of cement flooring unnaturally provokes a hostile attitude, until one feels assured that the purpose of such a floor need not be to present any harsh and uninviting aspect. A matter of fact, a cement floor may be laid with a thoroughly agreeable treatment that accorded its surface or the concomitant use of tiles. If a gray cement floor is properly treated, it may be made to take on the effect of fine old brick. If one desires, tile inserts may be incorporated.

Ordinary red brick laid in wide bond will make a substantial and decorative floor for the enclosed porch. Charles Welling, architect.
The Corona Garden Guide is a comprehensive, authoritative book on scientific gardening, made practical for home gardeners.

Get your garden produce early—reuse your soil the greatest possible number of times—grow the right things in the right soil—don't let the shady corner lie idle—plant right things at the right time—grow the things that have the greatest food value—which cut down the grocery bills the most. Make every inch of garden soil do double and triple the duty, as it will do under scientific gardening.

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10c for this Garden Guide

If you don't see at first examination that here is just the thing you have been looking for just say so—back will come your order and you can still keep the book.

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They can be depended upon to give the very best results, and they cost no more. Ask for our catalogue (free) and get your seed direct from the grower at wholesale prices.

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MARCH means strong gales and it's essential to have some positive means for holding the door open while your car is entering and leaving the garage.

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Manufacturers of wrought bronze and wrought steel hinges and bolts of all kinds, including Stanley ball bearing Butts; Also Pulls, Brackets, Cleat Handles, Porch Storm Sash Hinges and Fasteners; Screen Window and Blind Trimmings; Furniture Hardware; Twin Rolled Box Strapping, and Cold Rolled Stripped Steel.

Stanley Garage Hardware is adaptable for factory and mill doors.

Paved Floors and Galleries

(Continued from page 86)

and contribute their additional interest and diversity. Such a floor, studded with decorative tile ornaments of a deep reddish brown tone, is shown in one of the illustrations. As in the case of tiles used by themselves, the variety of treatments obtainable by a combination of cement and tile is well nigh inexhaustible. Furthermore, if one prefers to introduce a mass of color on a cement surface that the cement will not take on naturally, as a result of dressing methods, it is always possible to get the desired effect with paint of the proper sort which will prove as durable as when applied on any other material.

When using paved floors, proper provision must be made for their structural requirements, such as installation of steel girders and the portion of the concrete bed, with course, be looked after by the architect. Clean stone floors by sweeping and mopping them with a damp sponge. In the case of marble tiles, wax may be used if one does not object to this look a bit slippery. Washing with oil and soap and water will leave a tile brick floor dead and dull in appearance. Tiles should be gone over with a clean stone floor by sweeping and mopping them with a damp sponge. In the case of marble tiles, wax may be used if one does not object to this. Washing with oil and soap and water will leave a tile brick floor dead and dull in appearance. Tiles should be gone over with a clean stone floor by sweeping and mopping them with a damp sponge. In the case of marble tiles, wax may be used if one does not object to this. Washing with oil and soap and water will leave a tile brick floor dead and dull in appearance. Tiles should be gone over with a clean stone floor by sweeping and mopping them with a damp sponge. In the case of marble tiles, wax may be used if one does not object to this.

Four More of the New Fabrics

Our Shopping Service will be glad to purchase for you, or send the names of the shops. Address House & Garden, 19 West 44th Street, New York City.

A 36" cretonne that comes in a color combination. This has stripes on a blue ground with flowers, 40 cents a yard.

Cretonne, 36" wide, with five color lines. This has cream ground, large lanterns and flowers in blue, mulberry, gray and rose. 75 cents a yard.

Hand-blocked silks, 36" wide, two color combinations. One is natural colored ground with medallions in blue, pink, green and lilac. $4.90.

Jacobean, hand-blocked linen, 50" wide. Comes in two color lines, this having green, blue, brown and red on linen ground. $4.90.
Going to France?

"March Shopping Pages of House & Garden"

In the shopping pages of

MARCH

HOUSE & GARDEN

Breakfast for One—in Blue

After a hard yesterday at the Red Cross, who wouldn't love breakfast in bed, when the breakfast set, chosen for you by the House & Garden Shoppers, showed weird blue Chinese birds against a white ground? Or do you think your Hoover menu would taste better on Wedgwood, at all set about with tiny oakleaves?

Quaint Peasant Pottery

YOU don't believe in breakfasting alone? Then let the family start the day from these plates, pay with birds and beasts and quaint flowers sunk in warm cream glaze. Oatmeal in peasant bowls—Helen's cornbread on Primavera plates—will make anybody forget baconless Saturday. That was what the House & Garden Shoppers were thinking about when they chose this month to specialize on china.

Ask Our Shoppers—They Know

Perhaps it's glass you need—beautiful undecorated crystal that you can make as amusing as you wish, with a crest, a monogram in gold or silver, or just a line of bright color. Perhaps you're interested in getting the very heavenborn runner for your table—filet, cutwork, Madeira. Whatever you want, just look over the March Shopping Pages, then write us, telling us on what page the piece you wish appeared. No worry. No charge. No disappointment. Just enclose a cheque—and there you are!

House & Garden

SHOPPING SERVICE

19 West 44th St.
New York City
Are These Your Problems?

Each week the House & Garden department answers scores of questions on color schemes, furniture and arrangement, draperies, lighting fixtures and the hundred and one problems that come up in the decorating and furnishing of the home. A few of the questions and answers are printed below. Perhaps your question is among them. If not, why not avail yourself of this advice? Address, The Information Service, House & Garden, 19 West 44th Street, New York City.

May I ask you to give me some ideas for a living and dressing room which I want to have papered and painted? It is a large room 25' x 25' and about 13' in height. It faces the north with a triple window with the centre window about 1/3 yards wide and each side window about 1/4 yard wide. There is a large single window facing the west, so the room is quite light.

There is a wooden mantelpiece painted white, but no fireplace, nor can a fireplace be cut. Should the mantelpiece be moved, as I have the privilege of doing? There is mostly mahogany furniture in the room—bureau, one of the new chiffoniers which looks rather like a cabinet, table, Martha Washington sewing table, antique mahogany chair, large leather easy chair, sofa upholstered with tapestry in which there is old blue, next of tables in Sheraton style and Victorian.

Two of the corners, those toward the east, are cut, by corner closets, but what I need is some kind of a cabinet for china and a glass, as I have quite a supply of it.

There are plain white hemstitched volle curtains at the windows, but I for February, 1918, a house where one wishes all the sunlight to come in and an atmosphere of informality.

I want a new rug.

We would suggest an ecru colored paper with a self-toned stripe, and the woodwork to be painted a deep ivory. We are enclosing a cut of a suitable creamtone for your other curtains and would suggest that you treat your triple window like the one on the top of page 43 of the December House & Garden.

In this case, of course, the windows are not the same proportions as yours, but the photograph would give you the idea we have had in mind better than any description. As you see, there is a short valance at the top which binds the whole window treatment together, and of course, the curtains can be made to draw.

In regard to your wooden mantelpiece, we would suggest that since it is impossible to have a fireplace cut, and since you have the privilege of removing the mantelpiece, that you do so. We can imagine nothing more forlorn in better condition, than a mantelpiece without a fireplace, F. We are submitting a sample which could be used as a binding to finish the curtains instead of a hem.

D. Is the simple hanging like that on page 10 (House & Garden, February, 1918) better than the curtain divided in two, horizontally as on page 40 (House & Garden, March, 1917)?

B. Cloth is best suited to small brass rods, is it not? How much heading?

C. Is casing cloth just as proper in sash windows as in casement windows? How are French doors treated leading-out-of-doors?

D. Would you retain the regulation shade when using casing cloth?

E. Is the Travis silk with solid colors, in the 10 yard length? Have you a sample of tape or binding that can finish curtains plain instead of a hem?

F. Later—in making our draperies we are submitting a sample which might suggest that you treat your triple doors, if you are planning to use casement cloth for your other curtains than the curtain divided in two, horizontally as on page 40 (House & Garden, March, 1917), and they surely will be easier to make.

B. Make your casing curtain longer than about an inch and a half to two inch heading and sew it to small brass rods so placed that the brass pole will not show when the curtains are drawn.

C. Cassment cloth is just as correct for sash windows as for casement windows.

D. It is not necessary to retain the regulation shade when using casing cloth unless you so desire. In fact, to our mind, the chief advantage of casing cloth is that you don't have to use a shade. It is not essential to use silk drawn cords where you can reach to adjust the curtains, although it is more convenient of course, and usually keeps the curtains in better condition.

F. We are submitting a sample which could be used as a binding to finish the curtains instead of a hem.

G. We would suggest your using draperies without a valance since you wish (Continued on page 92)
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If not, scan the following six ways of making Vogue, itself, pay for your year's subscription. And then, remembering that economy is so necessary this year, ask yourself, not whether you can afford Vogue, but whether you can afford to be without Vogue.

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to keep your house full of sunlight and rather informal, unless your room is very high and you wish to cut down the effect of the windows. A smaller valance does not work as successfully, or if you have an ugly window casement which you prefer not to show, in that case a valance is useful.

ENCLOSED is a rude sketch of our own splendid, big sprawling country house. I wish to avail myself of the kind co-operation of your corps of experts in live indoor decoration of the library, hall, living room and dining room. The woodland of the two rooms, for example, is what we expect no shadow of the rest of house is of some dark wood, walnut or mahogany stained. By means of the window. Neutral colors on either side of the wall the whole front of house may be thrown into one, so I want a definite uncolored rug but don't know what sort of scheme to select. I imagine I should like rose for the dominant color because of its warmth and cheeriness to that north room especially, but am also very fond of yellow or gold but don't know how I should use these two dominating colors in rooms which open into each other readily.

Will you please suggest appropriate colorings for rugs, wall papers, draperies, and upholsterings and also proper arrangement like grand piano, Sheraton sofa, fireplace chair, etc. Suggest appropriate places of furniture. Thanking you for your suggestions as to what kind of scheme to select. I imagine I will like rose for the dominant color because of its warmth and cheeriness to that north room especially, but am also very fond of yellow or gold but don't know how I should use these two dominating colors in rooms which open into each other readily.

We have your letter of February 4th with its interesting inquiry in regard to your color schemes. It seems to us that you could perfectly well use a rose color scheme in your library and another for your living room in spite of the fact that these rooms are in the same woodwork and can be thrown into the south room simply because the library intervenes.

One very successful living room has a very delicate green-blue, rather like a robin's egg, over which gold colored cushions. The rugs were a plain midnight blue and a purplish-red, but the best effect was produced when used on some of the furniture, gold and blue. In this room the main color in was a plain gold color and glaze gold under-curtains. The curtains were a plain midnight blue and a purple and a blue. Gold colored cushions were used on some of the furniture with the same gold colored chintz as at the window.

In the library you might use a Chinese figured silk at the windows. This comes in a very large variety of colors. There is especially a deep orange which would carry out your idea of having the room kept cheerful, but it would be better for a rayon or silk colored wall using a scenic paper with a cost of shellacks, would be very attractive, and a tapestry frieze.

As to the arrangement of your furniture to your living room, it is well to bear in mind that a comfortable group around the fireplace is always very satisfactory. You will note one possible arrangement in the February House & Garden, on page 33, with a big table placed in back of a davenport making the fireplace the best feature, etc., easily accessible. You will find still another arrangement in the January issue on page 44 with the davenport placed at right angles to the fireplace and a comfortable chair opposite. Since you have a settle on either side of the fireplace, it seems to me that the arrangement on page 33 of the February issue would be best for your problem.

I HAVE a perplexing problem in front of me in the decorating of my home. I have a very low ceiling of the first, stucco second, with a Southern exposure.

First floor contains dining, living, reception, breakfast. The two first and two last separate between by French doors, and from themselves by vestibule and hall.

Dining Room, size 15' x 15' (approximately), E. N. and W. exposure. Beamed ceiling. Dutch Jaub, paneled walls of oak dark brown, gray sanded finish with walls between panels. Casement, windows E. and N., bay window W. (diamond case- ment). Early Ontario mahogany 24 in. windows. Beige lace curtains, white lact draperies. Dining room covers 15' x 12' x 8'. Reception Room, size 15' x 15', same gold antique. What color rugs, curtains, upholstery (will blue do?).

Living Room, size 19' 1/2 x 14' 1/2: Same as Dining Room, same woodwork, cheese cloth, a natural stone fireplace. Exposure S. and W. Fireplace west exposure between two French doors opening into bay window. Deep B. 4 casement windows, bookcase, fireplace, sofa, etc. These features have won for these rooms harmonious balance and comfort. We have your letter of February 4th with its interesting inquiry in regard to your color schemes. It seems to us that you could perfectly well use a rose color scheme in your library and another for your living room in spite of the fact that these rooms are in the same woodwork and can be thrown into one, so I want a definite uncolored rug but don't know what sort of scheme to select. I imagine I will like rose for the dominant color because of its warmth and cheeriness to that north room especially, but am also very fond of yellow or gold but don't know how I should use these two dominating colors in rooms which open into each other readily.

The "Viceroy"--Built in Bath

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