

THE AMERICAN HOME

January 35¢

SHOW-STEALING DESIGNER ROOMS ■ COLORFUL LIVING KITCHEN
BIG NEWS IN HOME BUILDING ■ BUDGET MEAL IN 60 MINUTES
PLANS FOR CONTEMPORARY HOUSE ■ GARDENERS' CLIMATE MAP



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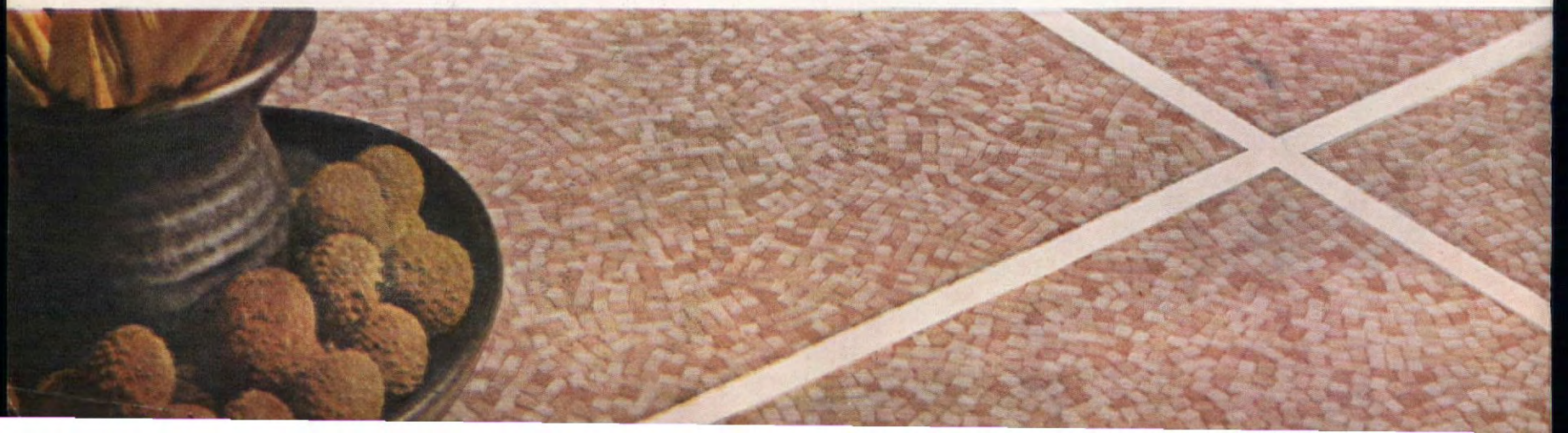
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UNIVERSITY OF NORTH CAROLINA



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Those who now have electric house heating report a new kind of comfort, free of chilly drafts

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Find out for yourself how economical it can be to install and operate modern flameless electric house heating in your own home. For an accurate estimate without obligation talk with your local electric utility company soon.



**LIVE BETTER
ELECTRICALLY**

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750 Third Avenue, New York 17



OUR COVER: Trend-setting model room designed by Barbara D'Arcy of Bloomingdale's for the 1962 Decoration & Design show. More designer rooms on page 31. Photographer: Ernest Silva.

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THE AMERICAN HOME

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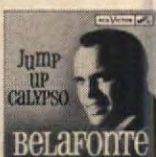


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25

OR ☐ 5 RECORD GLENN MILLER ALBUM 36

Enroll me in the following Division of the Club:

☐ CLASSICAL ☐ POPULAR

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☐ Check here if you have stereo equipment and wish these and future selections in stereo.

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Send no money. A bill will be sent. Records can be shipped only to residents of the U.S., its territories and Canada. Records for Canadian members are made in Canada and shipped duty free from Ontario.



Does anything else you use so often give you such trouble-free service?

We build a long life into your telephone because
it's no good unless it works all the time.

If something does go wrong under normal usage,
we fix it promptly, at no extra charge to you.

Day in and day out, your telephone is a constant
and faithful companion, giving you low-cost
service that's useful, and pleasant, and necessary.

Service so good you can take it for granted.



BELL TELEPHONE SYSTEM

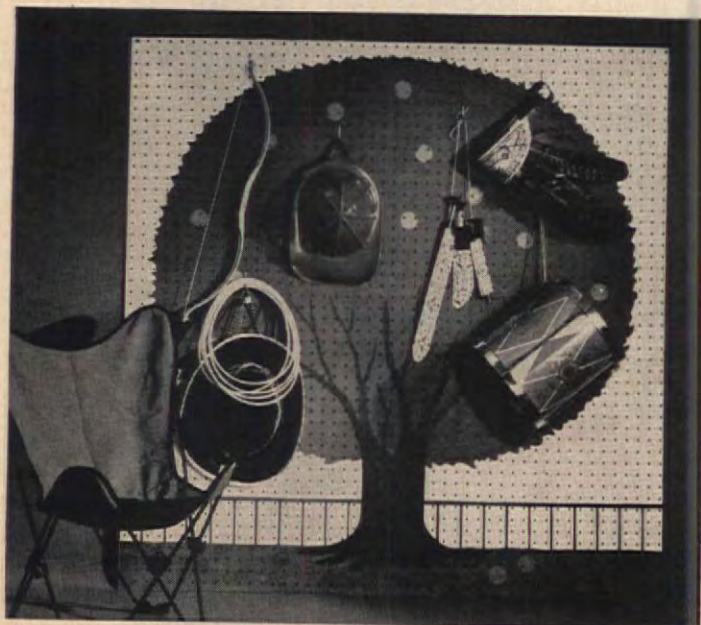
READERS' IDEAS



**THAT
PAY OFF**



Telephone table is an unfinished cabinet. Top is a board covered with pink laminated plastic. Cabinet is painted pink on front, while on sides.—Mrs. Maurice Artstein, Ladue, Mo.



A toy tree is a splendid way to persuade your youngster to keep his toys off the floor. Paint it directly on the wall or use pegboard as shown.—Mrs. R. J. Quereaux, St. Louis, Mo.

(continued)



How we retired in 15 years with \$300 a month

"We'd never be out here in California today, financially independent and happy, if it hadn't been for what happened back in Scarsdale the night of my fortieth birthday, in 1946. Nell had gotten tickets for 'Oklahoma!' While she dressed that night, I was idly leafing through a magazine.

"I suppose any man feels serious when he hits forty. Someday Nell and I wanted to move out where it's summer all year and really enjoy life. But how could we? Half my working years had gone. I had a good salary. But we found it hard to bank anything.

"As I turned the pages, an ad caught my eye. It said a man could retire on an income without a big bank account through the Phoenix Mutual Retirement Income Plan. I could get a guaranteed income of \$300 a month when I reached fifty-five—not just for myself alone, but as long as either Nell or I lived. It sounded just like the answer to my problem.

"I clipped the coupon in the ad, and mailed it on our way to the theater.

"Well, a while back my fifty-fifth birthday arrived. I was all set to retire, and it wasn't long before my first Phoenix Mutual check for \$300 came. So we sold the Scarsdale house and headed west. We're in a beautiful spot here, just right for us. And every month we get another check. Security? Why, we have more than lots of rich people. Our income is guaranteed for life!"

Send for free booklet

This story is typical. Assuming you start at a young enough age, you can plan to have an income of from \$50 to \$300 a month or more—beginning at age 55, 60, 65 or older. Send the coupon and receive, by mail and without charge, a booklet which tells about Phoenix Mutual Plans. Similar plans are available for women and for Employee Pension Programs. Send for your copy now.

PHOENIX MUTUAL

Retirement Income Plan

GUARANTEES YOUR FUTURE

OVER 100 YEARS
OF LIFE INSURANCE PROTECTION
FOR FAMILIES AND BUSINESS

Phoenix Mutual Life Insurance Co.
403 Elm Street, Hartford 15, Conn.

Please mail me, without obligation, your free 16-page booklet showing new retirement income plans.

Plan for Men ☐ Plan for Women ☐

Name

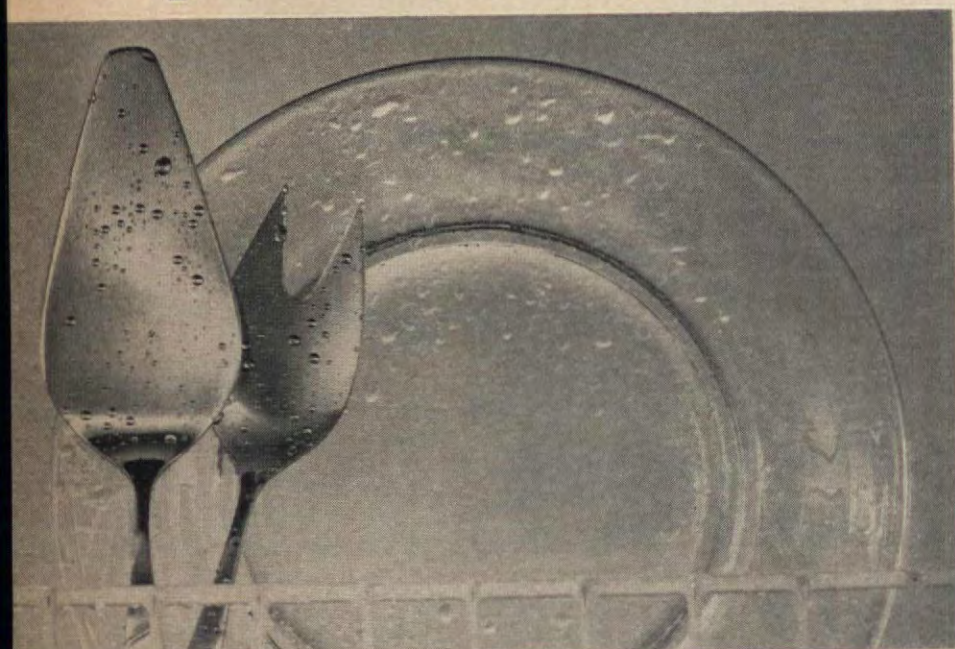
Date of Birth

Business Address

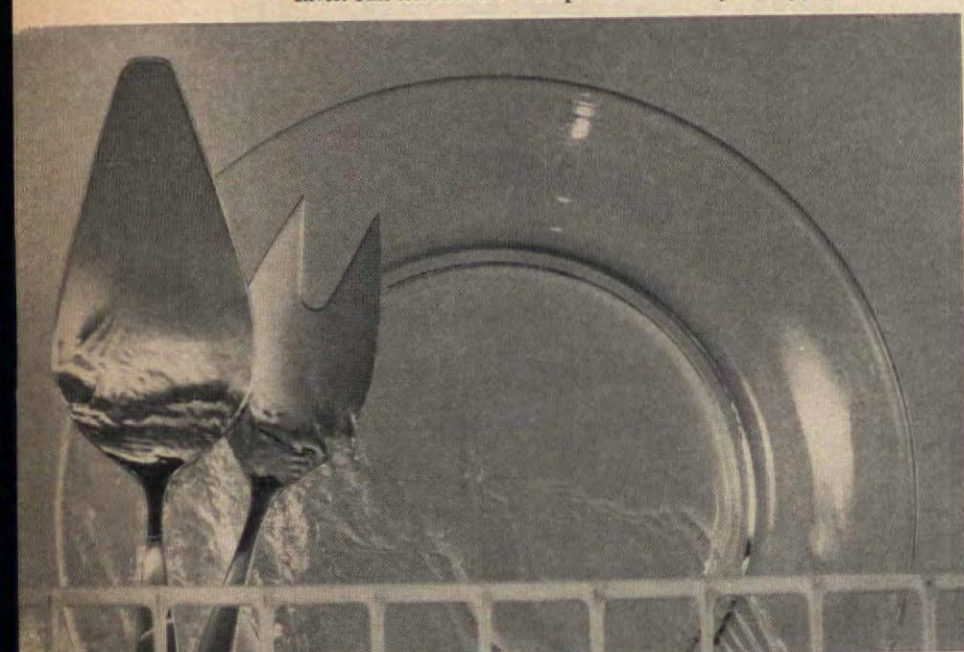
Home Address

Why do more dishwasher owners use Cascade than any other product?

Because Cascade eliminates drops that dry into spots!



WATER DROPS See what happens when even clean water is sprayed on glassware, silver. This test shows how drops form. These dry into ugly spots.



CASCADE But see with Cascade no drops form! Just as in your dishwasher, water slides off in clear-rinsing "sheets." Dishes, silver dry spotless, sparkling.

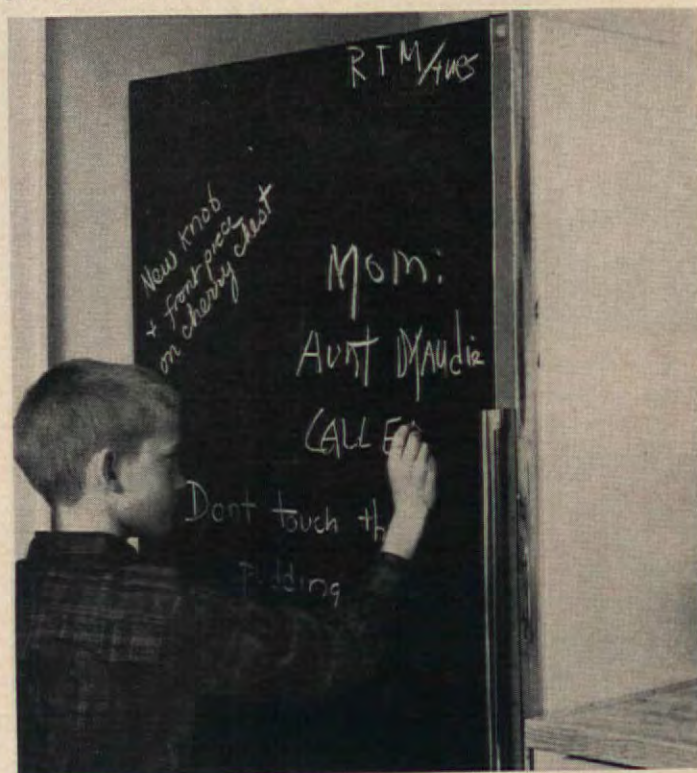
You've never seen your dishes cleaner, your silver brighter! Cascade is absolutely unsurpassed at stopping spots (your toughest problem in automatic dishwashing). That's because Cascade contains Chlorosheen . . . an exclusive formula that eliminates the drops that cause spots. No drops left to hold grease and food particles or dry into cloudy streaks or messy spots. For best results, give *your* dishwasher the best—Cascade.

No other dishwasher detergent cleans so well yet is so safe for fine china patterns! Only Cascade is rated safe for today's loveliest china patterns by the American Fine China Guild, whose members make Castleton, Flintridge, Franciscan, Lenox and Syracuse china. Their *exclusive* recommendation was given Cascade after thoroughly testing every leading dishwasher detergent. Look for their seal of approval on every Cascade package.

PROCTER & GAMBLE'S CASCADE IS ENDORSED
BY EVERY LEADING DISHWASHER MAKER



See-everything-at-a-glance pantry, easily built in a new house, also can be built into an existing closet or a corner of your present kitchen.—Mrs. P. M. Knoll, Pasadena, Calif.

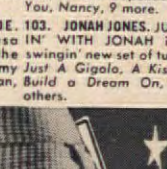
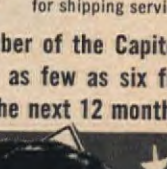


This family notice board, which nobody can miss, is painted on the door of the refrigerator. Use a small can of special "chalk-board" paint. It's a fine way to disguise a chipped door, too.

SEND US YOUR IDEAS

We are seeking original ideas from our readers on all kinds of homemaking projects. For each idea used, we will pay \$15. Please include black and white snapshot. No ideas or pictures can be returned. Send material to: Susan Brown, The American Home Magazine, 300 Park Avenue, New York 22, N.Y.

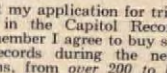
ANY 12" LONG PLAY HI-FI  Take **5** albums *Pay Only* **97¢** plus a small charge for shipping services



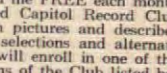
FRANK SINATRA



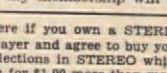
RECORD CLUB •
ONCE—THESE 5 ALBUMS
7¢ plus a small charge for
postage.



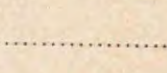
the records I buy, I'll pay
of \$3.98 or \$4.98 (occ
8) depending on reco
plus a small charge f
ices 7 days after I recei
d me FREE each week



THE DIVISION IN WHICH
er Hit Albums (Dancing
w Albums from Theatre
ARANTEE: If not delight
my membership will



for \$1.00 more than mo
the five records you ha



money. We will send you
coin through a CAPITOL
e his name and address
Club of Canada, 1184 C



7

If you lived in Norwalk, Connecticut, you and your family could be the fortunate beneficiaries of one of the best proposals yet made to provide low-cost, all-embracing fallout shelter protection. The Norwalk proposal is to build an underground shelter at each of 25 school sites around town so that no family would be more than a 15-minute walk from a shelter. Each shelter would hold 3000 people, and the total cost for all would be an estimated \$8,850,000, or about \$125 per person for 70,000 people. The plan was proposed by Norman L. Heap, Business Manager of the Norwalk Board of Education, who told *The American Home*, "It would provide for apartment dwellers as well as home owners, and anybody else who otherwise would have no place to go."

Every shelter would have a cubicle for each family, its own power plant, well water and sanitation system, medical area, emergency rations, doctors, and police. A special tax or bond issue would pay the over-all bill. A plan like this points up the fact that the large community or group shelter is a far better solution for most people than the much publicized but highly vulnerable family fallout shelter.

Much dangerous misinformation and ignorance exists about the individual family shelter, and this is largely because of the bewildering barrage of conflicting news reports and talk in recent months.

What are the facts about a family shelter versus a group or community shelter? To clear the air and obtain answers to the questions everyone has, *The American Home* presents this summary report based on a comprehensive sorting of the facts plus interviews with top government officials and nuclear experts.

THE CASE FOR THE COMMUNITY SHELTER

This could be a neighborhood shelter for a group of families as well as a shelter for thousands of people. Its main advantage over the family shelter is basically safety, giving the best chance for survival. A large shelter, designed by an architect or engineer, offers more protection against fallout than will many family shelters subject to design or construction errors made by well-meaning amateurs. In addition are the unbelievably serious flaws in shelters sold by many slick, gyp operators who are rapidly moving into the shelter business.

A Chicago home owner, for example, found his newly installed underground shelter full of water after the first heavy rain because the contractor had forgotten to waterproof the structure. A New Hampshire man, testing his \$2000 outdoor shelter, nearly suffocated because of inadequate air provisions; he just managed to call for aid over an intercom system before collapsing. These are just two examples of potential pitfalls in unsupervised family-shelter construction. They could be avoided more easily in large shelters designed and built by experts.

Community shelters are lower in cost than individual shelters

which are financially out of the question for many families—the mean national income being only \$5600 per family. We have been led to believe that nearly everybody can have his own shelter for a few hundred dollars. New York State Governor Nelson Rockefeller at one time naïvely advocated a compulsory shelter for every home. In reality this would have cost many home owners from \$1500 to \$4000.

Family shelters cost from \$400 to \$750 per person (excluding the lower price, but questionable, basement shelter). By sharp contrast, community shelters cost from \$100 to \$150 per person, sometimes less. The Norwalk case is a good example.

The cost might be sharply lower for shelters with dual-purpose use, such as a three-level private garage recently built in Hollywood. For a reported 10 per cent greater cost than its basic garage price—less than \$13 a person—it was designed to double as a fully equipped, 4000-person fallout shelter. The owners say that the garaged cars could even be used for sleeping. Other dual-purpose structures could be community halls, year-round swimming pools, schools, hospitals, libraries, or office buildings. Then, of course, community shelters could be economically built into existing structures, such as garages or public buildings.

The community shelter is a far more secure and comforting place. It insures against panic or plain fright, compared with a cramped hole where an isolated family would be huddled for two weeks or more. This would be particularly important in a case where a mother and children would be alone day after day because the father would be unable to reach his home.

Studies in Sweden show that the larger the shelter and the more occupants, the greater each individual's capacity for endurance. (A few years ago Sweden began building large H-bomb shelters in the center of every town having over 50,000 population.)

Special mention should be made of the need for protection against terrifying firestorms that might sweep through built-up areas following a nuclear bomb hit. A 20 megaton bomb exploded at least three miles above the ground could start firestorms igniting houses 25 to 35 miles away. Such fires not only threaten house collapse over a shelter, but they draw off all oxygen around, exposing people in shelters to asphyxiation. This hazard is strongest in dense housing tracts and in heavily built-up row-house sections of cities like Philadelphia, Baltimore, and Chicago. The fire threat was a major reason behind the Norwalk plan. Oxygen loss can be prevented only by a good airtight shelter design preferably coupled with an oxygen supply. This is obviously more feasible in expert-designed community shelters than in family shelters.

All of the advantages we have mentioned give the community-type shelter a clear and decided edge over the individual shelter for most of the nation's families.

A. M. WATKINS

LET'S USE COMMON SENSE IN OUR FALLOUT SHELTER PROGRAM

Some progressive cities have assumed responsibility for protecting their citizens against fallout—community shelters seem to be the answer. The American Home tells you about community shelter programs and also gives you vital information on how to obtain the best protection in a family shelter.



If you should decide on a neighborhood shelter here are some points for you to consider: Hire a lawyer and form a non-profit corporation as southern California families are doing. This simplifies ownership and liability problems, and permits people to buy in or out of the group on a convenient share basis.

Like the larger community shelter, the group project should be designed by an architect or engineer. Basic standards are set forth in the OCD booklet, "Fallout Shelter Surveys: Guide for Architects and Engineers," obtainable from your nearest OCD office.

Before starting construction, you should submit the plans to OCD engineers for review. This applies to any of the large prefabricated group shelters sold by manufacturers, as well as to custom-made structures. Call your local building department to determine if you need a building permit for a shelter. Some communities require them, others do not. Some require special construction, as Los Angeles, which has ruled that all shelters, including the standard OCD designs, meet stiff earthquake resistance requirements.

To pave the way for community shelters the government has launched a \$93 million national survey to pinpoint and mark those structures most suitable for shelter use in every community. The survey is being carried out by the Army Corps of Engineers. Local officials planning community shelters should check with the nearest Corps of Engineers' office, as well as consult local and state civil defense officials.

THE FAMILY FALLOUT SHELTER

Although a community or group shelter is clearly the best solution for most people, a family shelter may be your only choice. You may live in the country too far from a community shelter or for other reasons desire your own family shelter. Despite the cloud of uncertainty over the adequacy of family shelters, Charles Fremd, the Director of Civil Defense for Westchester County, New York, succinctly adds that "Some kind of shelter is preferable to none at all." Even the primitive foxhole shelter proposed by the government at a cost of no more than \$150 can protect many lives from radiation injury or death, and should not be overlooked if it is your only practical solution.

How can you be sure that you are getting a truly safe and adequate shelter for your family? This question has assumed major importance because of the fly-by-night operators, long a major problem in the home-improvement field, who have invaded the shelter business en masse. Warnings have been sounded by leading Congressmen, FHA, and civil defense officials.

Before you buy any kind of shelter, check the contractor's credentials thoroughly. Ask for references—a bank, for example, and other buyers he has sold to. Contact your nearest Better Business Bureau and the Chamber of Commerce, even if you obtain a list of shelter makers from your OCD office. Although the OCD lists manufacturers whose shelters conform to OCD rules for fallout protection, for all you know the manufacturer's local dealer may be new and untrained, or a slick operator who has hoodwinked the manufacturer into giving him a franchise.

Your contract should say that the shelter will conform fully with all OCD requirements. Don't be pressured into buying. And before you make the final payment have your completed shelter inspected by an expert or by your local building inspector.

It should also be pointed out that there is no such thing as a government-approved shelter despite misleading advertising and fraudulent claims to the contrary. Any dealer who claims OCD approval is stretching the truth. The OCD will neither approve nor endorse any commercial shelter or equipment.

(continued)

THE PROBLEMS OF FAMILY SHELTERS

HUMAN WASTE DISPOSAL has alarming overtones, as shown by a 1959 Princeton University study. A family of five lived in a simulated fallout shelter for two weeks, using a chemical toilet. The refuse and waste underwent chemical action, forming gases. The two adults in the shelter suffered disabling dizzy spells which "may have been caused by the . . . gas." This study was performed nearly three years ago, yet Civil Defense authorities still have not followed up on its findings.

DANGEROUSLY HIGH HUMIDITY was shown by a 1960 National Bureau of Standards test of an OCD underground shelter with simulated human occupancy. So much water vapor built up inside that "it was literally raining from the ceiling," said a Bureau scientist. Such excessive humidity is caused by body moisture evaporated into the confined air, and condensing on the cold ceiling.

OXYGEN LOSS, particularly in firestorm areas, can pose serious problems. Incredibly searing heat can cause fires to ignite far from the explosion area. Such fires would draw off all the oxygen around, threatening people in shelters with asphyxiation. Family shelters are particularly vulnerable in dense housing tracts or in built-up row-housing sections of cities. The standard OCD family shelter designs have no provision for preventing oxygen loss.

THE OCD'S FOUR BASIC FAMILY SHELTERS

have never been thoroughly and scientifically checked (evaluation of an actual shelter by a two-week occupancy test with people). Nor have necessary tests been made of the recommended equipment for shelters. This same disturbing lack of initial research and development extends to every commercial, factory-made shelter on the market today as far as *The American Home* could determine; not one has ever been given a genuine scientific occupancy test (though most of us have read about occupancy tests which in reality have all been "stunts").

It should be emphasized that the chief purpose of a fallout shelter is survival. No reasonable person asks anything more than minimal living conditions. But there can be a sharp difference between a family roughing it and suffering conditions that would make the waiting-out period severely uncomfortable, if not downright hazardous. Hazards like inadequate refuse disposal or humidity emphasize that there can be more to the problem of providing an adequate shelter than the matter of radiation protection.

OCD officials will review the plans and specifications and at most say that it "meets our requirements for fallout radiation protection." These are key words to remember. They mean that the OCD requirements do *not* pertain to such other design features as protection against blast, fireproof and water-tight construction, and, for that matter, other major occupancy requirements which we will get to in a moment. Determining such characteristics, unfortunately, is up to you until long overdue national standards and safeguards covering complete shelter design are established.

The Basement Fallout Shelter

A basement fallout shelter is the cheapest and easiest to build, *if* you have an adequate basement. (More than half of the nation's houses lack basements and since 1940 close to 60 per cent of new houses were built without them.) A basement shelter can provide "substantial" fallout protection, government experts say. You simply wall in a corner of your cellar.

Cost for the basic structural materials alone may run as little as \$200 for the minimum 7'4"x8'4", six-person shelter. Contractors' prices run about \$400 to \$500. On top of this, add the cost of supplies and furnishings. These are rock-bottom costs. If your basement requires special work, or if you desire a larger room or extra features, costs can run as high as \$1000 to \$1500. This is a more realistic range, based on the prices paid by families who desired something more than minimum space and design.

A basement shelter might not be wise if you live near a vital defense center or a metropolitan area likely to be a target. If a nuclear warhead strikes within 20 to 25 miles, the house might catch fire, or cave in as a result of the blast. Reinforced ceiling construction could provide protection from a house collapse. An escape hatch directly to outdoors is important in case blast or fire damage makes the basement area impassable.

Outdoor Shelters

There are two kinds: the above ground and underground. Properly built, both will provide "almost absolute" radiation shielding. Rocky land, or watery ground, as in Florida or New Orleans, may dictate an above-ground structure. Bottom cost for a double-wall, above-ground shelter that meets minimum OCD requirements for six people is about \$700, the cost of the basic structural materials. You would have to excavate, pour the concrete floor, and handle everything else yourself. Farming all or most of the work out to a contractor would raise the cost to \$1250 up to over \$2000. One Florida contractor offers a standard above-ground shelter that meets

minimum OCD specifications and includes bunks, shelves, a blower, and chemical toilet, for \$2195.

An underground shelter costs more money because of greater excavation and waterproofing costs, but it would give some protection against blast damage. The excavation alone might cost \$500 to \$600—more if the contractor strikes rock or water. Dig the excavation and do everything else yourself and the cost could be as little as \$700, or so say OCD officials. This is basic structural materials cost. A more realistic price range for most people would be from \$1500 to \$4000, depending on size, type, and special requirements. Here too, remember furnishings, basic supplies, and equipment will mean additional expense—from \$125 to \$200 or more for a typical family.

Plans and specifications for the four standard basement and outdoor family shelters designed by the OCD are available in government booklets such as "The Family Fallout Shelter." Another good booklet to obtain is "Individual and Family Preparedness." These, plus other literature being prepared as this article went to press, should be available from your nearest OCD office, or the Department of Defense, Office of Civil Defense, Battle Creek, Michigan. This literature also lists essential supplies and food for stockpiling a shelter.

Factory-Made Prefabricated Shelters

The main advantages of prefabricated shelters are quick and easy installation. But the cost is generally higher than for an OCD-designed concrete block shelter. Prefabricated basement shelter prices *start* at around \$500, range up to \$750 or higher. Prefabricated outdoor shelters generally cost from \$1500 to \$4000. They vary greatly in design and construction. Being sure to get one with adequate structural strength is important, but unfortunately there is no surefire method by which a buyer can determine this.

The dealer should show you a letter from OCD that specifically says his shelters conform to OCD design requirements. If he cannot produce such a letter, do not buy from him. Another tip about factory-made shelters: Look at one of the same size and type as you are considering before you buy.

The list price of a factory-made shelter may or may not include essential parts—air blower, filters, bunks, shelves, and supplies. Even the door sometimes costs extra. Make a list of everything you get for the price, and what you will need that costs extra. Compare this with various makes. You generally can save money by buying some interior parts and supplies yourself. This is true when you contract for a custom-made concrete block shelter, as well as when you buy a factory-made unit.

ELEVEN DESIGN FACTORS OF SHELTERS

This summary of 11 crucial design requirements applies to group and community shelters as well as family shelters.

1. ADEQUATE RADIATION SHIELDING.

Nuclear scientists emphasize that the paramount requirement is *density*. Enough density is required to reduce radiation transmission inside to at least $\frac{1}{1000}$ the amount outdoors. This calls for at least 2.6-inch thick lead or the equivalent: 7-inch thick iron or steel, 24-inch solid concrete, 32 inches of packed earth, gravel fill, or sand, or 7-foot thick solid wood (fir). These are the *minimum* thicknesses required.

The *interior* walls and ceiling of a basement shelter, however, need be only 10-inch thick solid concrete or the equivalent, since they are exposed to reduced radiation. Experts figure that the interior of a house, including the basement, will be subject to fallout radiation only one-tenth that of the outdoor level. The usual *exterior* basement foundation wall is no more than 12" thick which is adequate *only* if the entire wall is banked with two to three feet of earth on the outside. If part of the shelter is above ground, additional earth must be banked against the exterior basement wall or solid concrete blocks laid outside up to the shelter ceiling. If your basement wall is exposed, a second wall will be needed inside to give the equivalent of 24 inches of solid concrete shielding. If your existing basement walls are of hollow concrete or cinder blocks, additional thickness is required to make up for the cavities.

2. VENTILATION. A self-contained outdoor shelter requires intake and outlet vents, at least three inches in diameter, plus a hand-operated blower capable of drawing in at least five cubic feet of air per minute (cfm) per person; three cfm per person for community shelters. The blower is hooked up to the intake vent. A special vent cap and screen goes on top of the vent openings outside to keep out radioactive dust. Filters may be used but are not mandatory, says the OCD. Don't worry about fallout radiation being brought in, since air itself cannot be made radioactive. Fallout dust is the big danger and this is filtered out with proper vent design.

The usual basement shelter is ventilated by means of open vents low in the interior shelter wall. Air from the rest of the basement circulates through these vents and the shelter doorway.

3. PROTECTION AGAINST OXYGEN LOSS FROM A FIRESTORM.

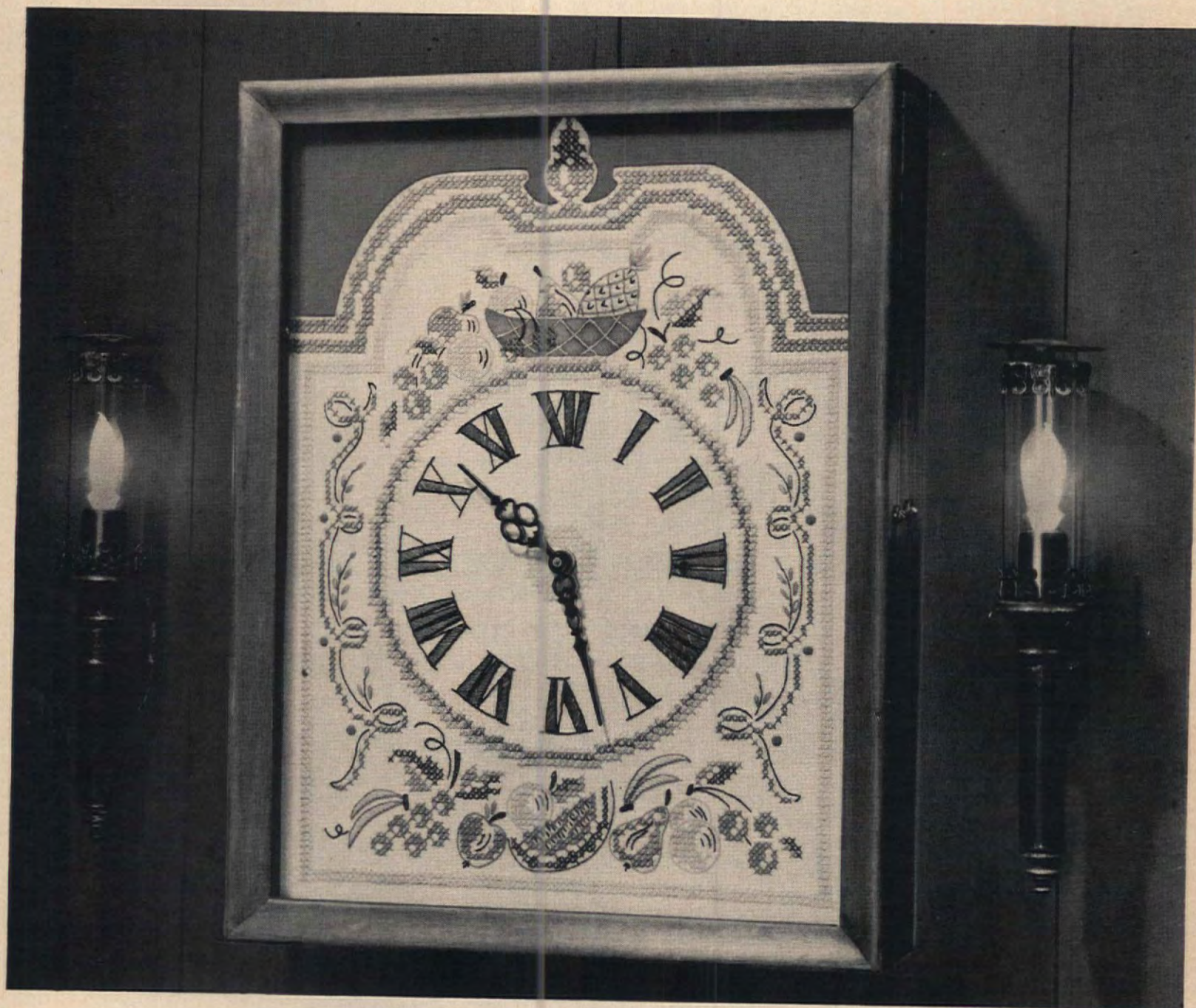
If you live in a heavily built-up area, the shelter should be built so that it can be made air tight. Vents and air openings should be fitted with shut-off valves. The door needs an airtight seal. Installing a small oxygen tank is also a good idea.

(continued on page 75)

AN AMERICAN HOME KIT

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*A floral flash-back in pictures reveals
decoration and the period influences*

FLOWER ARRANGING



New England. An informal group of brilliant red anemones, tulips, and pussy willow with native mountain laurel foliage. A pine background, pewter, and cotton fabric suggest the simple surroundings of the New England colonists.

Williamsburg. A true bouquet of Magnolia grandiflora, Dutch bulbous iris, tulips, daffodils, hyacinths, stock—all familiar to 18th century gardens.



JACK ROCHE
FLOWER ARRANGEMENTS BY THE AUTHOR

Late Georgian. Elegance belonging to a formal interior is suggested here through the use of silk damask and a classic urn. Our flowers were governed by those in the wallpaper.

■ From time immemorial flowers have been brought indoors to be enjoyed for their appealing color and fragrance. Bouquets have been influenced over the centuries by the diversity of the garden's bounty, the way of life and dominant taste of the people of the time.

Our New England ancestors, for instance, who faced the rigors and hardships of pioneer life lacked the luxuries of fine vases and a profusion of beautiful garden flowers. What flowers they had in their dooryard gardens were merely incidental to the useful herbs growing there.

These early settlers brought with them slips, seeds, and roots of the many plants which furnished necessary medicines, household remedies, and food. They gathered other plant materials in and about their countryside to further the supply. It is natural to suppose that a walk through the fields would provide a branch of white-flowered shadbush in the spring or some red-berried sumac or goldenrod in

the fall to place in some handy article of utilitarian use and thereby brighten the family room. The container to hold the flowers might have been a pitcher of stoneware or pewter or even a tumbler-shaped flip glass.

Knowledge of what plants the early New Englanders were familiar with comes from several sources. The herbals of the old country would have reminded them to bring roses, for rose petals and honey made a gargle for sore throats, and rose water was, of course, an important beauty aid. The hollyhock provided the means of voiding kidney stones and the "pot marigold" or calendula as a hot vinegar infusion reduced fevers. Other plants were counted on to ease women's labor pains, cure toothache and earache, serve as poultices, and repel moths and other vermin. Plants also added flavor and color to the stew pot and were used for dyes.

After voyaging to America in 1638, an Englishman named John Josselyn published an account of his journey with the purpose of aiding would-be settlers by listing all the native plant materials and animals which they might find. One cannot handle this very precious small book without the realization that people's lives

*the everlasting joy of flowers in home
and tastes of those who arranged them*

OVER THE YEARS

JULIA S. BERRALL

actually depended on its information. From source material such as this, one can conjure up a likely floral bouquet for an early colonial home.

And what would the surroundings of such a home have been? The small compact homes built to withstand the harsh winters had fairly dark rooms because of their small windows. Heavy beamed ceilings, wood-sheathed or paneled walls, wide-planked floors, vast fireplaces and, at first, oak furniture completed the scene. Window curtains were of homespun, vegetable dyed, or embroidered in crewelwork. Cotton fabrics also were used, and calico and chintz designs inspired the first American wallpapers. It was not until mid-18th century that New Englanders brought wealth through their shipbuilding and fishing industries into the colonies; and in the great seaport cities the fine mahogany furniture of England was imported and copied by American cabinetmakers.

The Pilgrims and Puritans and their followers came to these shores as religious dissenters cutting themselves off from the mother country. Not so the Virginia colonists and many of their neighbors; they remained affiliated with the Church of England. Sea lanes were constantly open and a balance of trade brought the finest furniture, fabrics, and ceramics from abroad, while rice, indigo, tobacco, and cotton were exported.

Today we have but to visit colonial Williamsburg to learn how life was lived in the 18th century. Most Southern planters had their agents in London from whom they ordered Queen Anne and Chippendale furniture, Chinese wallpapers, French silk damasks, and the fine porcelains of all three countries. Interest in gardening and horticulture was quite general and plants traveled in both directions across the ocean. We learn most of them by name in reading over that vastly interesting correspondence between John Bartram, a dedicated naturalist, and Peter Collinson of London, an enthusiastic plant hobbyist. William Byrd, George Washington, John Custis, and Thomas Jefferson all wrote of their gardens, and probably all of them owned the most important gardening book of its day, Philip Miller's "Garden Dictionary."

It can never be too difficult to re-create a Williamsburg bouquet, knowing as we do its garden flowers.

Victorian. A full bouquet suggesting the colorful profusion of a back-yard garden. Intense white and strong colors hold their own when seen against the red flocked wallpaper. The green glass vase with gold decoration is European in origin and typically 19th century. Victorian love of multicolor was expressed in flower arranging, and the feather-edge bouquet was quite popular.



Contemporary. Now we leave the "bouquet" for a studied arrangement emphasizing linear design. Easter lilies contrast with umbrella pine, and leaves of the yellow calla lily introduce form and texture.



Modern. In a modern arrangement, drama is further achieved with sculpture. Here a striking wood sculpture, "Adam and Eve" by E. Frontera attains greater importance through the addition of the exotic foliage of wild anthurium and croton. All color values and textures combine to express dramatic simplicity.



Shopping Information, page 81

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That Virginia housewives arranged flowers in their homes we know for sure, as Peter Kalm, a Swedish traveler in America, described how the ladies gathered both garden and field flowers and put them into pots and "placed them as ornaments in the rooms."

And these rooms were handsome, whether their walls were covered with panels of silk, or wallpaper, or left just whitewashed above painted wainscot. They gleamed with the warmth of polished furniture, shining silver and glass. Fabrics and flowers gave color.

During the last quarter of the 18th century and the late Georgian period there were marked changes in interior decorating, perhaps the most noteworthy being the introduction of white painted woodwork. Introduced by Robert Adam in England soon after the classic influence was felt because of the rediscovery of Pompeii and Herculaneum, it did much to add scope and light to the interior. Just previous to this a process for printing wallpaper in rolls instead of by the ream had been developed in Philadelphia, and so in America rooms took on a new look with patterned walls and light painted trim. Repeat block patterns were popular as well as large rambling floral designs and those with Chinese influence called *chinoiserie*. Mahogany was now almost universal. Chippendale, Sheraton, and Hepplewhite were all copied in America. Fabrics included cotton in the form of chintz, muslin, and *toile de Jouy* and fine silks—damask, satin, and brocade. The art of the potter was so far advanced in Europe that now true vases just for flowers were being exported to America.

And all through these years the garden flourished. Native plant materials were constantly being cultivated and old-time favorites improved. One of the best sources of information concerning the common garden flowers of the period is in a book published in 1793 called "The Practical Farmer." In it the author, John Spurrier, wrote of over 70 flowering plants. Newspaper advertisements also give us clues to garden content. Some announced the arrival of "rootes" and bulbs from Holland and there is evidence that anemones, hyacinths, tulips, fritillarias, and colchicums were all imported. Our arrangement for this period in the alabaster vase, on page 16, shows multicolor stocks, carnations in white and pink and tiny ones in candy stripe, tulips, and anemones (the true "lilies of the field" in Bible reference).

With many lovely flowers and with vases at hand, we are sure our ancestors fashioned many a beautiful bouquet to grace their homes. That any busy housewife of the 18th century created what we would now call a studied arrangement does not seem probable, but surely many a lady must have had a "way with flowers" just as some do today.

The Victorian Age of the 19th century brought great changes to the world of gardening because it was a period of vast world exploration. Clipper ships brought home a wealth of new plant material from foreign shores. From China came forsythia, bleeding heart, camellias, azaleas, rhododendrons, and tree peonies. From Mexico and South America the dahlia, fuchsia, gloxinia, and scarlet sage were brought. From South Africa came the canna gladiolus, and freesia.

An avid interest in hybridization was in the air. Chrysanthemums, snapdragon, stock, and the gladiolus were all developed into larger forms with greater variety of color. Godey's "Lady's Book" describes Dreer's development of the pansy from old-fashioned Johnny-jump-up or heartsease. From Europe came new and better roses and lilacs.

Seed catalogues, garden books and magazines tried to keep up with the demand for information about both growing and arranging flowers. One author suggested the addition at all times of one touch of yellow, no matter what the other colors, to make the bouquet "flash out and become more brilliant." The Victorian love of color and profusion was indeed expressed in both flower arranging and in the "bedding out" of formal gardens.

Vases and holders were innumerable. America now had its Parian ware from Bennington and there were colored glass vases from Sandwich as well as milk glass ones. Still from across the seas came more Oriental porcelains, elaborately decorated French vases of Haviland and Limoges china, more pieces from the English ceramic factories, metal ewers supposedly copied from Benevenuto Cellini pieces, and many further kinds of glassware from Austria, and Bristol, England. The elaborate alabasters, so beloved by flower-show exhibitors today, were probably just meant for mantel ornaments, as they did not hold water well. (Now we coat them heavily inside with paraffin.)

In the Victorian era we find a decline in taste over the previous century, for two things had

occurred which had a detrimental effect on the applied arts. The many new machines which the industrial revolution had produced caused a real deterioration of artistic development and people lost some appreciation of the work of handicraftsmen. The innovation of chemical dyes derived from coal tar produced a wider range of color but they were neither as mellow nor as sunfast as vegetable dyes.

Thus we seldom think of the Victorian interior as one of great beauty. Black walnut and rosewood furniture were dark, and never seemed to take on the glossy warm patina of polished mahogany. Marble furniture tops seemed cold. Yet, with all, a definite homey atmosphere pervaded the scene because of comfortable armchairs, the center table with its reading lamp around which a family could gather, window draperies of rich fabrics such as damask, moiré, or plush, lace curtains, and plenty of bric-a-brac. Massed flowers in multicolors were used in bouquets—such as the one pictured on page 17. This is in a tall china vase, one of a pair—for pairs were now in style.

Our 20th century has been a period of such change and development that there have been many differing styles of home decorating. By and large, a great percentage of homeowners live in what are called "contemporary" rooms where there is a pleasant bringing together of favored possessions both old and new. Rooms are made colorfully inviting through the use of floral fabrics, wide expanses of carpeting, and often some fine paintings. Flowers are their natural accompaniment.

The vastly popular art of flower arranging has truly come into its own during the past 30 years. With the beginning of women's garden clubs, and their attendant flower shows, rules for arrangement were sought out. Already formulated, and time tested, were those of the Japanese who have practiced the art for centuries. Now we strive to create a design showing perfect balance, good proportion, harmonious color, and interesting texture, and to hold the attention by means of a focal area. The floral artist can create many patterns of design, either linear, such as the crescent or the s curve, or geometric, such as the oval or the triangle. Today this artist designates her arrangements as "mass," "line-mass," or "line" and often combines unusual branch formations with just a few flowers for unusual effects. The true old-

fashioned bouquet is not as popular as it once was. In the contemporary home any one of these arrangements is appropriate, the only rules being those of common sense and artistic perception. It is wise to let all flower arrangements play a color part in any decorating scheme. Scale is important too. If a large room makes use of a big pattern in its drapery materials, flowers will only hold their own if they too are large in size. Don't smother a coffee table with peonies or place violets on a grand piano.

The word "modern" to describe home surroundings connotes up-to-the-minute newness in furniture design, current color trend, emphasis on simple wall treatments, and interesting texture throughout. There is never any confusing detail in the modern décor, and the whole scene can express dramatic simplicity. In these surroundings the studied flower arrangement must of itself express drama. Against an elegantly simple wall often of beautiful wood, a work of art can be stunningly displayed. This the flower arrangement becomes if it uses an economy of material in good scale and is displayed in a handsome container. Now, too, many an arrangement is made in a solid-wall pinholder and placed on a stand or burl without benefit of vase.

A modern flower arrangement becomes a work of art if it makes use of unusual plant forms and textures. Such flowers as calla lilies, anthuriums, birds-of-paradise, and ginger are usually thought of as being appropriate, but so too are dahlias, other lilies, even gladiolus if used sparingly and combined with striking foliage material. The garden can supply funkia, saxifrage, aucuba, and magnolia; the florist, ti, dracena, and wild anthurium, to mention just a few. It is fun to seek out others.

A modern flower arrangement can become a work of art also if it creates arresting silhouette effects. A classic Japanese "Ikenobo" arrangement with its exquisite balance of asymmetrical design can do just this. In modern flower arranging the adage "what is omitted is often the test of a good designer" certainly holds true.

And now, what flower arrangement style will suit *your* home? An old-fashioned bouquet or a contemporary line arrangement? Accepting the premise that the style should suit its surroundings you will never tire of seeking out suitable vases or of growing the appropriate flowers.

THE END

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THE FHA ANSWERS YOUR QUESTIONS



Neal J. Hardy, FHA Commissioner

My husband and I have an FHA mortgage on our home. Up to this time we have been able to make the payments promptly. Now he has been called into military service and his income will be cut almost in half. We have three small children, and I can't leave them in order to take a job. Does FHA have any provisions for such an emergency?

Your mortgage is a private contract between you and the lender, so whatever arrangement you make to postpone all or part of your regular payments during your husband's military service must be made with the lender. The policy of FHA is to protect the interest of home owners in military service to the full extent of its authority.

When an insured mortgage goes into default, the lender normally has a year in which to start foreclosure proceedings. But if the home owner is in military service, FHA regulations allow the lender to exclude the time of military service in computing this one-year period.

FHA regulations also provide that the lender may agree to postponement, during military service, of the part of the monthly payment credited to the loan principal. This would reduce the monthly payment and might make it possible for you to prevent your mortgage from being considered in default while your husband is in service.

After the expiration of his military service, if you and your husband were still unable to make the payments necessary to bring your mortgage up to date, you could apply to the lender for further postponement under FHA regulations.

All deferred payments, however, must be made later so that the mortgage will be paid in full by the date originally specified.

FHA regulations provide that any arrangements made under the provisions of the Soldiers' and Sailors' Civil Relief Act of 1940 will not impair the rights of the lender under its contract of insurance with FHA.

(Editor's note: The Soldiers' and Sailors' Civil Relief Act is intended to protect a home owner against loss of his home through foreclosure while he is in military service, whether or not his mortgage is insured by FHA. For further information you should consult an attorney if you cannot make satisfactory arrangements with your lender.)

Six years ago I bought a home and financed it with a 20-year, \$11,850 FHA mortgage at 4½ per cent interest. The monthly payment, including taxes and insurance, is \$92. I expect to retire four years from now. Is there any way the payment can be lowered at that time to suit my reduced income?

It is possible, with the consent of the lender and FHA approval, to reduce the monthly payment by lengthening the term of the mortgage up to the maximum term

permitted by the FHA regulations at the time the mortgage was insured. In 1955, when your mortgage was insured, the maximum term was 30 years.

At the end of the first ten years your outstanding loan balance will be about \$7200. If the lender would agree to spread the payments on this amount over 20 years instead of the 10 remaining on the term originally specified, your monthly payments to principal, interest, and mortgage insurance premium would be reduced to \$48.54. Your monthly payment for taxes and insurance, of course, would not be affected by the extension.

Several months ago I read in your column that FHA was now insuring home improvement loans for as much as \$10,000 that could be repaid over 20-year terms at 6 per cent interest. When I went to my bank to borrow \$3000 on these terms, I was offered instead a Title I loan for five years at a higher rate of interest. I thought the new loans were to take the place of Title I.

The new home improvement loans supplement, not replace, Title I. They are intended chiefly for more extensive improvements than a Title I loan would cover.

Both types of loans are made by lenders from their own resources. They are not government loans. For this reason, a lender is entirely free to use its own judgment in accepting or rejecting an application.

Lenders will also establish their own policies about the terms for which loans in specific amounts will be insured, and about the minimum loan they will make.

From your own point of view, you might consider these facts. On a \$3000 loan made for 20 years at 6 per cent interest, your monthly payment to principal, interest, and FHA mortgage insurance premium would be \$22.74. Over the 20-year term your total payments would amount to \$5457.60, not including a \$20 application fee and some closing costs. On the other hand, for a \$3000 Title I loan made for five years at a \$5 discount your monthly payment would be \$61.93. But at the end of the five years your total payments would amount to only \$3715.80.

Send questions to Neal J. Hardy, FHA Commissioner, The American Home, 300 Park Avenue, New York 22, N.Y.

NEED REMODELING HELP?

If you're one of the thousands of families who plan to do some major remodeling work on your home this year, you will need expert one-stop advice on planning, building, and buying materials. THE AMERICAN HOME has a list of over 900 lumber and building supply dealers and builders—our AMERICAN HOME QUALIFIED HOME IMPROVEMENT CENTERS—which offer this one-stop service to home owners. Just fill out the coupon below and we'll send you the name of your nearest Home Improvement Center.

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New Twinkle Cream for Silver

SMOOTHS TARNISH AWAY IN SECONDS!

Twinkle® Cream for Silver works on a revolutionary new principle. Dissolves tarnish by special chemical action... not by elbow grease! Twinkle is *gentle to silver* because it's made of finer-than-face-powder particles. *Gentle to hands* because the handy sponge applicator takes the mess out of silver cleaning. No more blackening of hands and nails. Twinkle leaves an invisible shield on silver that slows tarnish to a crawl. *When the GLOW Starts to GO*, new Twinkle Cream for Silver smooths tarnish away in seconds!

SILVER OFFER! 8-inch Paul Revere Bowl by Oneida Ltd. Silversmiths for only \$6.00 including tax. (Value \$11.00) Heavy silverplate. Send name, address and front panel from Twinkle Cream for Silver box with check or money order to Box 1560-B, Clinton, Iowa. (Offer good in U.S.A. only while supply lasts.)



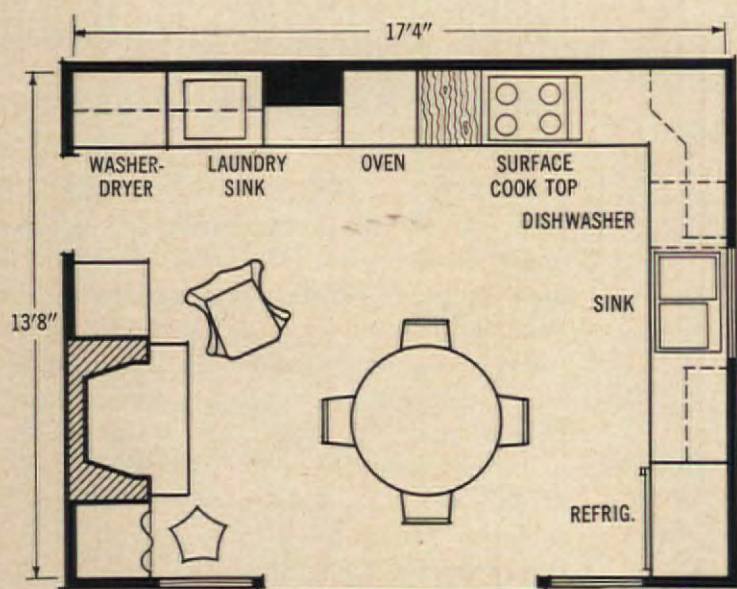
The Drackett Company,
makers of Twinkle Copper Cleaner.
Available in Canada.



THE ROMANTIC RENAISSANCE IN KITCHEN DESIGN

*Midst all the marvelous mechanical
and engineering ingenuity
there is an important spark of
traditional feeling to be
found in this kitchen for 1962!*

DESIGNER: ROBERT W. HOUSEMAN PHOTOGRAPHER: KRANZTEN STUDIOS



You may see this kitchen on display after December 22, 1961, at the National Design Center, 415 East 53rd Street, New York City, and a vignette of it in the Merchandise Mart, Chicago, Illinois.

Shopping Information, page 81

VIRGINIA T. HABEED

To create our kitchen, we dipped gently, but firmly, into the 18th century for homeliness, warmth, security, and romance, ingredients somewhat lost in the 20th-century planning of efficient, automatic kitchens. The joy in decorating today is being able to weave a bit of the nostalgic past with the mechanization of today's accelerated pace. The feeling of traditional dignity and prideful heritage in the kitchen we have designed almost belies the existence of automatic appliances arranged in a convenient work pattern.

From the warm bustling kitchens of the 18th century stems the inspiration for our 1962 kitchen. You'll see a bit of Queen Anne in the furniture and fine cabinets, a touch of Vermeer and the Dutch influence in the delft tile laminated-plastic wall covering and the floor tiles. But there's more than just traditional influence; every detail was carefully planned to provide the utmost convenience, efficiency, comfort, and charm. All of a kitchen's pleasant functions were considered and planned in the most appealing arrangement possible. There is an area for cooking, laundry, dining, and sitting by the fire. It's a place to meet all sorts of demands during a busy day. But there's a basic difference between yesterday's kitchen and this one.

In the 18th century, the kitchen was just as warm and friendly, but oh, so inconvenient! Makeshift cabinets and cupboards were used to store day-to-day necessities. Walls, instead of boasting handsome cabinets, were handy places to hang pots, pans, and dried herbs and roots. All were practical solutions in days past; today we copy these very ideas, but as decorative accessories.

Never before have cabinets for kitchens rivaled the style and finish of fine furniture. This new design, called American Patina, was created by *The American Home*. The finish is dark and smoky, with a patina of old satin. The beveled paneling of the doors and drawers is deeply recessed and antiqued in delicate shadings of the dark stain. The hardware boasts a pewterlike finish. You'll find the most up-to-date, easy-up-keep materials for walls, floor, and counter tops. The delft-blue laminated-plastic wall covering over the cooking area is a practical reproduction of antique Dutch tiles. Slate-blue laminated plastic was used for the generous counter surfaces for a traditional 18th-century feeling. The white plasterlike walls and ceiling are actually washable fabric-backed vinyl.

(continued)



The black and white vinyl tiles on the floor are modern, but also are typical of Early American homes. Desiring to imitate the elegant marble floors of the era, many colonists painted their wood floors in checkerboard design. We include a "big old table," a roomy fireside chair, and an open

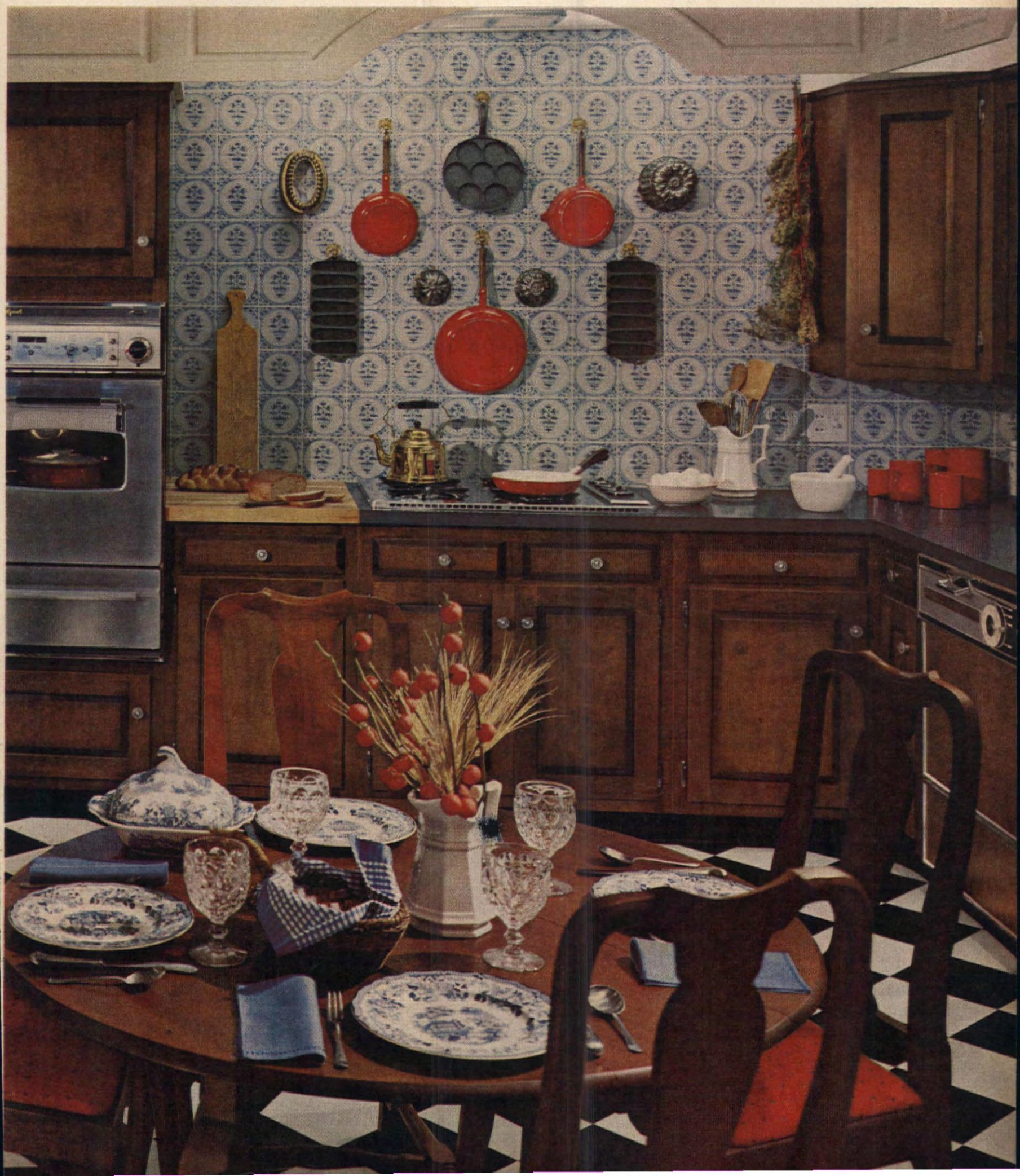
cupboard to display family treasures. All the furnishings, fabrics, and accessories we used are faithful 18th-century reproductions, from the pewter tea caddy, above the inviting fireplace, to the china, flatware, and glassware on the Queen Anne-style table. Important 18th-century touches are the



wing chair upholstered in a museum fabric, the collection of decorative but practical utensils over the cooking top. Important 20th-century touches are gas-operated washer-dryer combination, wall oven, surface cooking top, refrigerator, stainless steel sinks, dishwasher, and disposer. (continued on page 58)

Practical L-shaped floor plan of this contemporary colonial kitchen provides a super-efficient working area, with a cozy living-and-dining area that is close enough for convenience. The color palette, borrowed from the colonists—barn reds, blues, and plaster white—adds immeasurably to the authenticity in design.

CABINETS BY MUTSCHLER



MONDAY, JANUARY 1, 1962

REVOLUTION IN HOME BUILDING

YOUR NEW HOME CAN REALLY BE VAPOR TIGHT

Around 1954, polyethylene vapor barriers began to be used in building new homes. As a result, some rather remarkable changes took place in living comfort—particularly in homes and room additions built on slab foundations. In the few homes then fortunate enough to have polyethylene film under the foundation, the “cold floor” feeling families had been complaining about was eliminated. Today, it’s a rare builder who doesn’t use it, and the moisture that creates a chill on the floor is kept out. (Chills on the floor are also created by lack of foundation insulation, discussed elsewhere.)

This plastic film, now produced by several manufacturers, is more versatile than you might expect. It’s been used in sidewalls, under floors, in ceilings, as flashing around windows and doors, and in crawl spaces. It costs more than saturated felts (an earlier type of vapor barrier still used to some extent), but it has advantages that make it a better value. One, especially, is that it can be produced in up to 40’ widths and 100’ lengths. This means one continuous sheet over your foundation. No seams. No cracks. Compare it to the blanket that covers you at night. Would you rather have strips of blanket or one continuous cover of wool? Kept from ultra-violet rays of the sun (as it would be under the house foundation), polyethylene film should last until your house crumbles from age.

Epoxy Mortars Speed Concrete Block Installations



Ribbon of epoxy mortar is applied along block edges.

With new epoxy resin mortars, erecting a concrete block wall may become easier and faster. Available in a putty-like form, and applied with a caulking gun, these mixes have rather remarkable holding power. In tests, the

concrete blocks cracked before joints gave.

In new homes, either cinder or concrete-block foundations are finished faster using the new material. For the do-it-yourselfer, a 6’ decorative concrete block fence along 10’ of patio could be erected with one gallon of epoxy resin mortar for about \$10.70.

At this writing, the material has not been thoroughly proven as a better mortar for exterior concrete-block walls in homes. With conventional Portland cement mortar, the block’s irregularity is evened with a little extra mortar. Since there is little thickness to the epoxy resin mortars, a mason has nothing with which to make adjustments. So, if the masonry blocks are uneven, the wall will be irregular.

Hollow Beams Serve Well—May Cut Costs in Future



Cutaway of plywood “skin” shows 2x4” frame, stiffener.

“Box beams” are the latest addition to a framing contractor’s vocabulary. Though not proven as a cost-cutter in homes as yet, these lightweight, but heavy-duty beams, have proven themselves in commercial applications as ridge and floor beams, lintels, and rafters. Consisting of plywood “skins” glued or nail-glued to the outside of 2x4” frames, they resemble standard wood timbers of comparable size.

But they are stronger than standard timbers on a pound-for-pound basis.

In homes they have been used for special applications: foundation beams (see photo), ridge beams, lintels over garage doors.

Glue will hold the beams together. The principal ingredient, a phrenolic resin, makes a bond that is stronger than the wood itself, and has proven to last indefinitely when applied under proper conditions.

INSPIRES RISE IN HOUSING VALUE

PIPING BATTLE CONTINUES

The battle of new products versus old appears to be more lively in the field of underground waste piping than anywhere else. The established materials, cast iron and vitrified clay, are vying with bituminous fiber, asbestos cement, and the newest additions, copper, and rubber-modified styrene.

It's fair to say that building inspectors will be most favorably inclined to accept cast iron or clay pipe, will sometimes reject bituminous fiber and asbestos cement sewerage pipe, and will be least likely to accept copper or the plastic pipe. These decisions often stem from lack of technical knowledge—a situation that is fortunately changing for the better. You can save money with some of the new materials, so it's worth checking to see if you can use them.

YOU WON'T GET COLD FEET

Slab foundations that make cold floors are a thing of the past when polyethylene vapor barriers (noted elsewhere) and rigid insulation are used to protect the foundation.

If your home is being built on a slab, and you manage to see the job before the concrete is poured, you'll notice a lightweight, rigid, cellular material attached to the inside of the foundation wall. It is also laid around the inside perimeter of your house—for about 18" from the foundation wall—on the tamped fill that will receive the concrete. This is what stops house heat from escaping through the slab. It is produced of foamed polystyrene, foamed urethane, cellular glass, or fibrous glass.

Here's a case where a new material is not used to replace an old material. It was developed to solve the insulation problem for the slab foundation—a system that is not much more than 15 years old.

If you take a close look at the box beam photograph at the left, you will see a black liner against the foundation. It's rigid insulation.

Spurred by Research, Builders Increase Production, Sharpen Construction Techniques, and Deliver Homes With More Value for Your Dollar

In just another 35 hours of working time, the house below would be finished and ready for you to move in. Each of the three sections lifted in place by the crane has been factory finished, and requires only minor painting and sealing.

The photo shows that home building has entered the machine age with a bang. The carpenter-contractor who starts your home in April and turns it over to you in October is being replaced by thousands of businessmen-builders who begin your new home in April and hand you the keys in May.

It's probably true that the most important reason is the builder's metamorphosis from foreman to business executive. For example, before 1946, a builder could lose four or five



days of working time because a plumber didn't show up. The job had to stop until piping was installed, and every day cost the builder—and you—more money. Quite often the builder contracted for no more than three houses a year—if that. He operated his business from a drawer in his kitchen, and construction co-ordination was a haphazardly planned thing. Often there was no plan at all.

Today, the average merchant builder erects more than 25 houses a year. He generally operates from an office, has clerical help, keeps a sensible accounting system, and maintains a planned production schedule. His plumbers show up on time because the schedule was set up well in advance. If they don't, the next contract goes to another plumber.

The builder didn't create this renaissance in home construction by himself. The ingredient that helped him was, and still is, research. Before 1940, research in home building was about as evident as the atomic-powered monorail is today. Compared to fields like medicine, machinery, biology, and chemistry, it's an infant.

But, research in home building is growing fast. And, it is you who benefits most. The new house you buy today gives you more value for your dollar.

Then too, homes today are fun to live in. The remarkable flood of new products—from structural members to gadgets—has changed the 1946 home far more than you suspect.

Nearly all these products and techniques are equally at home in remodeling. So, whether you plan to buy or build a new home or remodel your present one, the parade of products and techniques on these pages shows what you can get now.

Trusses Do More Than Substitute for Rafters, Beams

Three men worked five hours recently in assembling 16 roof trusses, trucking them to the building site, putting them up, nailing down sheathing and building paper, and shingling the entire roof. This

One building expert has said that by using roof trusses it's possible to save up to \$100, depending upon the size of the house you build.

Inside your new home (or your room addition), trusses make it possible to have any floor plan you want, since interior walls need not be load-bearing. (Partitions can be placed anywhere in the house.)



One of several designs, "W" truss cuts costs many ways.

was not a one-time demonstration, but a run-of-the-mill construction job. In it lies the big advantage of using roof trusses instead of rafters and joists—a saving in time.

Also, when the roof can be closed in in only two-thirds of a day, the rest of the construction job can move along more quickly—in any kind of weather.

Trusses are most often manufactured locally by building material dealers, but your builder can fabricate them on the site or in his own shop. If properly designed, they need be on only 24" centers, instead of the conventional 16". They are assembled with nails, nails and glue, glue alone, or with metal gusset plates at the joints.

FLOORS GO DOWN FAST WITH BIG PANELS

Building Floors No Longer a Time-Consuming Job
Two New Systems Developed by Group
Speed Floor Assembly Without Cutting Strength

If you watched your home being constructed, you probably had a look at the floor skeleton—made of joists and beams topped with a subfloor of "one-by" planking laid out diagonally. There isn't a flaw in this floor's performance; it just takes too long to assemble. And, as always, construction time costs you money.

Today, there are at least two new, faster methods that have saved from \$25 to \$100 per house. The first is a floor panel that looks very much like a pallet or rough platform. It's made of a 4x8' sheet of plywood nailed to six 2x4s, spaced 16" on center. These panels drop onto beams built into the foundation on 4' centers. The beams may be standard wood timbers, or box beams, described on the previous page.

The second system is even simpler. It employs 1½" thick sheets of plywood fitted together on the long sides with tongue and groove. These, too, are produced in a standard 4x8' size, and fit directly over foundation beams on 4' centers. One advantage of this system is the attractive beamed-ceiling effect on the underside of the floor—ideal for a future recreation room. Both systems have been thoroughly field tested for strength, and both were developed by the Douglas Fir Plywood Association. A word of caution: you may find it difficult to buy this plywood locally. If so, write to us for the source.

Wall Panels Have Sturdy Present, Exciting Future

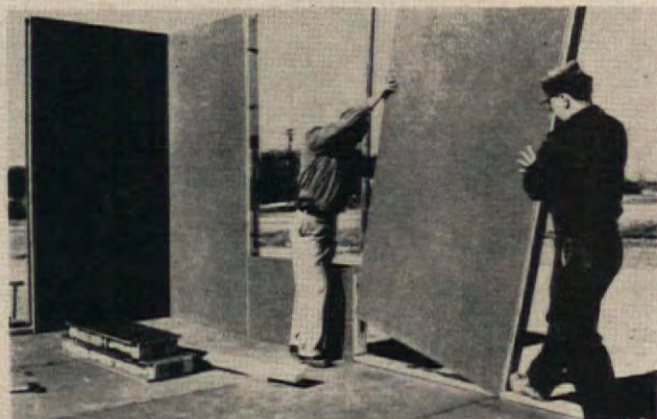
Experts agree one of the symbols of a new era in residential construction is the wall panel. More than almost anything else it has cut construction time and lowered costs for both big builder and small. It has finally given status to the much maligned prefabricated home manufacturers.

In simplest form, the panel is no more than a conventional stud-wall assembled off the site in modular sizes—usually 4x8'. One of the latest additions to the field is a stressed-skin panel with a foamed polystyrene core. Sometimes called a sandwich panel, because of its layered construction, it

combines in one unit: exterior siding (often primed, occasionally finished), insulation, vapor barrier, and interior surface (generally unfinished). It usually is load-bearing.

There is also a wide range of partition panels now on the market. They, too, begin with a standard stud-framed wall, and run through panels with polystyrene foam, wood swirl, balsa wood honeycomb, and many other cores, with an equally wide variety of "skins," such as gypsum board, hardboard, plywood, and aluminum.

Nor are panels limited to walls and partitions. They are presently in use



Typical wall panel is positioned by two men in about two minutes. All four walls are up in less than half a day.

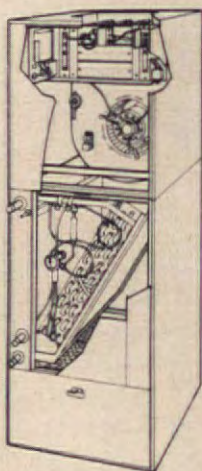
on roofs, and elsewhere we describe a modified panel that serves as a floor.

There are very few people in the industry who do not now believe that wall

panels, in one form or another, will be a continuing and practical answer to getting a better house for less money, principally by reducing on-site labor costs.

HEAT PUMPS BETTER BUILT BETTER LOOKING

When the housing boom began in 1946, almost no one knew what a heat pump was. Today, it's a good bet you and your neighbors



Here is typical indoor unit.

know heat pumps are combined heating and cooling units operating on a long-established principle of transferring heat to or from the air outside your house.

They are operated elec-

trically, although it's likely that gas will get into the residential field in a few years. When heat pumps first went on the market in 1954, they looked like mastodons compared to the units produced today (see sketch). Now, they are available as through-the-wall room units as well as for central cooling and heating systems.

During the period 1954 to 1962, the average unit price of heat pumps has been cut in half. During the same period, of course, the general price level on all products has gone up.

The units handle a cooling cycle easily, and have been immensely popular throughout the Southern states. One drawback in the North, however, is the need for supplemental heat in winter. Essentially, this happens anywhere winter temperatures frequently drop below 35 degrees, although it's been estimated that supplemental heat (generally from an electric coil in the unit) is needed only ten per cent of the heating season.

INTERIOR DOORS SURFACE-HUNG

Surface-mounted doors that are either standard or ceiling height can shave from \$30 to \$50 and possibly more from your house cost. As their name implies, the doors fit over the surface of the door openings rather than in them. This eliminates the need for most all door trim, and the ceiling-height types make the door header framing unnecessary. Hardware is also mounted on the wall surface, and the doors can be latched or locked shut. The ceiling-high units provide better air circulation, particularly with a warm air heating system.

Insulating Glass Improved

If (1) you want big expanses of glass, and (2) you don't want to lose winter heat or summer cooling, insulating glass is your answer. Big news for you: the glass is now available in sliding glass doors and movable windows. Cost is higher than a single plate of glass, but lowered heating costs make it worth while.

Wonderful World of Wood Uses the Whole Tree and More

Research and Field Tests by Leading U.S. Timber Mills
Give Wood New, Fascinating Qualities

The day is fast approaching when wood will do almost anything we wish in construction. Without destroying the good qualities of wood, we may be able to eliminate termites and fungus damage, or reduce expansion and contraction to almost nothing (no more warping), or make wood resistant to fire, or produce it in any size we want, no matter what the size of the original tree. All of this has been done in the laboratory. Much of it is commercially available, although at prices that are sometimes uneconomical.

Here are some of the things that can be used in your house now:

- Pressure-treated lumber. Specially treated in the mill with chemicals under controlled pressure and temperature, this wood is ideal for the underpinnings of your house because it resists "dry rot" (brought on by fungi living on the right mixture of moisture and air), makes the wood distasteful to termites and carpenter ants. It costs more than untreated lumber, but if you want to be free of these pests, it's worth every penny.
- Finger-jointed wood. Here's wood practically any size you want, made from what was once scraps and waste. Scraps are planed smooth and straight, edge-glued, and fitted together at the ends with a joint that resembles the fingers of your hands locked together. With this system, panels can be made as long as 24', as wide as 54', and as thick as 4". At present this wood is used in homes for kitchen cabinets, shelving, and fascia or rake boards at the eaves. One of the most frequent uses of this jointed wood is for interior trim. Its cost is slightly higher than comparable materials, but as production increases, this cost will come down.
- Pre-primed wood. Wood siding that arrives on the job with a prime coat or sealer coat already applied has some advantages. According to one company, it saves up to 40 per cent in finishing costs. These costs build up on a conventional painting job because of bad weather—more than for any other reason. Every day your builder waits for good weather is costing him, and you, money. The material cost, as you might expect, is slightly higher than unfinished wood siding.
- Pre-finished siding. This is the next step, and one that has already been taken experimentally. It would eliminate all outside staining or painting on the job.
- Glue-laminate beams. Today these beams are seldom used in residential construction, since their application is specialized and their cost for a single home would be high. In the meantime, you may see them as clear-span arches or straight beams in churches, super markets, and meeting halls. These beams are made of smaller pieces of wood, glued flat side to flat side.

**Continued
on
next page**

HERE'S WHAT'S NEW OVER YOUR HEAD

New house or old house, the materials now available fit all conditions. Here are a few:

- Paint that doesn't drip. Latex paints mentioned elsewhere on these pages can be applied to your old (or new) ceiling with a brush or roller, and you could paint in your best clothes. It won't drip or spatter.
- Acoustical tile. Sound deadening qualities are good, but don't be sold one type over another because of better sound reduction. The differences are minimal and not evident to the human ear. Choose the tile for style, color, fire resistance, and moisture resistance. Four basic types are cellulose-fiber (now available with a low flame spread rating), mineral, glass-fiber, and asbestos. Big news for you is the wide range of decorative effects possible now, particularly with the cellulose-fiber types. Newest addition to the residential market: perforated metal tile, long a staple in commercial installations.

- Acoustical plank. Same idea as acoustical tile, but installation time is cut, because planks come in 16" widths up to 12' long. Less installation time means less cost for you. Ideal for vaulted or cathedral-type ceilings.

- Acoustical ceiling system. Suspended ceilings are no news to commercial contractors, but now a simplified type has been developed for you or your builder to install on your ceilings. It employs fiberglass planks dropped into simple aluminum channels suspended in a grid system from your present ceiling—or from your joists in a new home. An advantage: clear fiberglass panels can be substituted for the planks when you want a luminous ceiling—in part or in whole.

SPECTRUM OF HEATING VASTLY WIDENED SINCE WORLD WAR II

In 1946, experimentation aimed at developing better and less costly ways to heat homes was beginning to get under way. Today you can practically name it, and the industry can provide it.

To cite a few: central warm air heating from units in your basement, crawl space, attic, or closet, powered by gas, oil, and most recently, electricity; greatly improved gas or electric space heaters; hot water baseboard heating (a big improvement over radiators); radiant heat from electric resistance or hot water coils, and the heat pump, mentioned elsewhere.

You can even heat your patio in cold weather with outdoor radiant units, gas or electric, and you can melt the snow in your driveway with electric or hot water coils laid beneath the driveway surface.

Although a great deal depends on installation, it's fair to say that generally, operating a warm air heating system costs the least; hot water heating falls some-

where in the middle; and electric baseboard heating or electric radiant panel heating is slightly more expensive. If properly installed, all systems will provide comfort in winter. In reverse to the order above, however, a bad installation will show up least readily in an electric system, moderately in hot water heating, and show up most readily in warm air systems.

ALUMINUM IS LATEST ADDITION FOR YOUR ROOF

The latest addition to the family of roofing materials is aluminum. Most roofers still shy away from using it in shingle form, because "the manufacturers haven't worked the bugs out." There's some truth to that, although National Homes introduced a prefabricated home with aluminum shingles three years ago, and their experience to date has been favorable. The old faithfuls—asphalt, asbestos-cement, slate, clay and cement tile, wood, terne, and copper—have been updated to give you longer lasting roofs, often at the same or slightly less cost. Biggest potential money saver on the horizon: sprayed roofings that go on fast, last just as long or longer than most shingles. The hold-up: it's still in the experimental stage and cost is out of reason, compared with shingling.

LATEX PAINTS GOOD FOR EXTERIOR WOOD

Weather is tough on all parts of a home, but often proves toughest on painted wood siding. The new latex paints, though not the final answer, may prove to be the best answer to date for resistance to the elements. Offered extensively for the first time in 1959 as an exterior finish for wood, these paints have proved themselves.

Probably the most outstanding advantage: they can be applied over damp surfaces, provided the temperature is not below 45° F. This means you can paint your house in spring, summer, or fall, and you can begin early in the morning before the dew dries. Two coats are needed over unpainted wood, and as you might expect, the paints can be water thinned and the brushes water cleaned. One drawback: when painting over an old oil coat, you must apply one coat of a special primer and two coats of latex paint for it to be effective—a process that costs more than cleaning and repainting with an oil.

Some more advantages: the new exterior latex paints are more resistant to blistering than oils or alkyds. Color retention and resistance to yellowing are good. It is claimed, but not as yet substantially proven, that the latex paints are considerably longer lasting than oils. Their retail price is only slightly higher than oils of the same grade—generally no more than 50c per gallon. And, the acrylic system latex paints are, for the most part, superior to the vinyl system types.

RANGE OF SIDINGS GREAT; SOME ELIMINATE SHEATHING

A short 15 years ago, you had little choice in siding your home. You used wood or masonry. Today the range of materials is wide and colorful. They include aluminum, asbestos-cement, plywood, hardboard, insulating board, 1" thick brick veneer, molded stone, and still very much in the running—wood. Figuring on installed cost, your most expensive siding will be brick veneer and molded stone, often running over \$200 a square (100 sq. ft.). Wood shingles sometimes figure out to less than \$30 a square, and the other materials fall between \$30 and \$70 a square, with aluminum siding near the top of that range. New finishes have made all the materials longer lasting and more resistant to fading.

One of the most encouraging advances is the development of sidings that eliminate the need for sheathing, and sometimes diagonal bracing (needed in conventional framing to deter racking stresses). This can save \$100 to \$150 in your new home.

CONCRETE BLOCK WALL INSULATION SIMPLIFIED

Insulating a concrete block wall was once a time-consuming and relatively expensive job. First, 1" or 2" furring strips had to be attached to the inside of the wall with batt or blanket insulation placed between the strips. Next, a conventional interior wall was applied to the outside of the furring strips.

Now, several products have been developed that cut labor costs. Rigid insulation can be applied directly to the inside face of the blocks with a mastic. These rigid panels can be made of foamed polystyrene, foamed urethane, or cellular glass. Some experimental work has been done with liquid urethane that is spray-foamed in place, but it won't be ready for your new house this year. Installed cost in the New York City area runs around 35c a square foot of wall. One big advantage of the foamed materials—plaster can be applied directly over them.

Also, about two years ago, a water-repellent vermiculite granule was developed. As a granular fill, it can be poured directly into concrete block cavities by the most unskilled laborer—or by you, if it's a weekend project. Estimates of cost run from 12c to 15c a square foot. The fill will deliver just a shade less insulation value than 1" of foamed polystyrene, for example, but it's not enough to make more than a few dollars' difference in your yearly heating bill.

PLUMBING MAY COST YOU LESS

For years, skeptics in the building industry said plumbing would never advance. Manufacturers have proven them wrong.

(continued on page 61)

America's leading designers show what's new in

DECORATING 1962

ROBERT W. HOUSEMAN

What's fresh and fashionable and forward-looking in decorating this year? Look at these name-designer rooms and see. They're some of the rooms that stole the show at the 1962 Decoration and Design Show in New York City by members of the American Institute of Interior Designers. They're filled with the shape and color and texture of things to come. They shimmer with stylish ideas for your own home.

Look sharp, as we take you on a guided tour. Do you notice the trend toward architectural designs—columns, arches, beams? Do you notice the new deeper wall tones, and the use of pattern, pattern everywhere?

Look at the beautiful new breed of provincial. Look at the new excitement in rugs and flooring.

The lively art of decorating was never livelier! There's more versatility in design and style than we've seen in a long time—more color, more comfort, more livability. You'll soon be seeing these trends in model rooms everywhere. Be inspired by them. Borrow from them freely—a color here, a fabric there, a seating arrangement. But remember—this is the year to be bold, positive, individual. Extremes in theme are the order of the day. Be very Early American or very French provincial. The sky's the limit as long as you please yourself.

Architectural Motifs make news in this strikingly simple living-dining room designed by Braswell-Cook for Kentile. Fireplace arch is repeated at windows. Handsome vinyl flooring and walls provide elegant neutral background for unusual contemporary furnishings.





ERNEST SILVA

Two-Season Bedroom

*designed by Paul Krauss, A.I.D.,
for Avisco, sparkles with
this year's decorating dash.*

*Dressed for the winter, the
room is a rich emerald-green
oasis. Come summer, the
ingenious fabric-covered wall
panels can be reversed in minutes
to their summer-fresh side of
beige-and-white stripes.
With a change of bedspreads and
slip covers, and airy Roman
shades instead of draperies,
you'd never know it was
the same room!*





Sunny Spanish Colors of yellow, green, and rose light up this very 1962 living room designed by Macy's Decorating Department. The unusual color scheme was inspired by a fragment of a 17th century Spanish building. Under a blue ceiling framed

with pecky cypress, mellow Spanish reproductions combine with vivid upholstered pieces for a striking effect. The floor, too, gets its share of color—it's bright patterned vinyl with a lush white rug to dramatize the long rose tweed sofa and pull-up chairs.



Here's What Six Top Interior Designers Say About Home Fashions

ETHYL G. ALPER, A.I.D., who has great sense-of-color, says, "There is a return to rich, jewellike colors—ruby red, sapphire blue, strong greens, molten golds. Furniture has a solid look, an aura of Renaissance scaled to our smaller homes."



JAMES AMSTER, A.I.D., known for his grasp of individual decorating problems, says, "Your home is right for you when it expresses your personality. There's a growing trend in knowledgeable use of art to personalize decorating."



JOHN & EARLINE BRICE, A.I.D., who design many types of home furnishings for manufacture, say that, "1962 will show a desire to be individual, the reawakening of interest in period styles, and a more positive use of color."





LISANTI

Country French family room designed by John Bachstein, A.I.D., is chock-full of decorating wit and wisdom. Typical of the trend toward prettier, more livable family rooms, this provincial-flavored retreat houses a world of comfort in a relaxing blue, brown, and white color scheme. Everything a meant-to-be-lived-in room should have is here—comfortable seating area with day bed for guests, homework area, game or snack table, barbecue corner, utility counter with sink and refrigerator, television, and well-planned storage. Here's proof how much good fashion and functionalism you can fit into a small area. And notice how effectively modern paintings and fabrics blend with period furnishings.



Shopping Information, page 81

BARBARA BARONDESS MacLEAN, A.I.D., a woman with great dramatic decorating flair, says, "The neutral look is out. A conglomeration of furniture—the 'everything goes' look will become a thing of the past. Periods and styles, contemporary or traditional, will be better defined in 1962."



ELLEN LEHMAN McClUSKEY, president of the New York Chapter, A.I.D., noted for her ingenious use of architectural features, says, "The lived-in look is an important trend in both traditional and contemporary homes. Clever storage and architectural details will improve boxlike rooms."



WILLIAM PAHLMANN, F.A.I.D., internationally famed for his harmonious blending of traditional and contemporary interiors, foresees the development of a new style, "The American Look." "I look forward to a new sophistication, with increasing knowledge, and interest in good design."



You can buy plans for this Blueprint House No. 78

If you've been undecided whether your next home should be contemporary or traditional, this low rambling home of Mr. and Mrs. William Ghent presents a strong case for contemporary. The Ghents with their two small sons had their share of cramped apartments. That's why they were convinced that living and sleeping areas should be separated—an essential element in the two-zone plan of their house. They also wanted a home tailored to their needs now and one that would function just as happily when the children reach the age of entertaining. The master bedroom with a

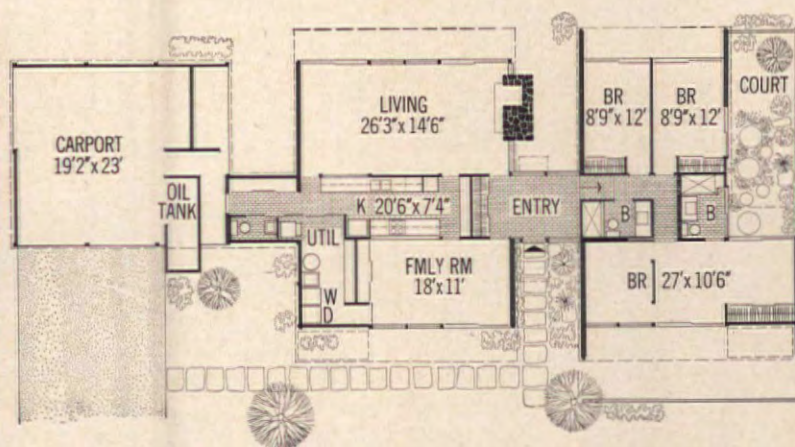


Long, angular lines of the house make the most of the beautiful wooded site. Entry is recessed between the two zones.

THIS LOW, LIVABLE CONTEMPORARY CAN SAVE YOU MONEY

sitting room is the keynote to this flexibility. It will become a wonderful parents' retreat when the larger living areas become the scene of high-school parties.

Architect Gerald Siegwart makes this point for the Ghents' choice of contemporary. He estimates that a traditional house with the same materials and amount of space would have cost at least \$5000 more—savings here coming from advanced building techniques and lower labor costs. For example: simplified construction—beams 9' on center, roof deck that serves as ceiling and insulation, minimum use of window framing.



Well-designed house is divided into two zones. Master bedroom has its own sitting room, private garden. Below, bent plywood on iron frame provides front-door protection.

PHOTOGRAPHER: KRANZTEN STUDIO



ARCHITECT: GERALD A. SIEGWART LANDSCAPE ARCHITECT: THEODORE BRICKMAN INFORMATION: JESSIE WALKER

WE DECORATE THE INSIDE WITH LIVELY COLORS

The Ghents showed great courage in using exciting ideas and modern materials for both the exterior and interior of their contemporary home, but when it came to furnishings, they were hesitant. "We're tired of beige and gray and brown," said Bill Ghent. "We're ready for color—but we're not sure how much." That's when *The American Home* Decorating Department stepped in. We approved of their instinctive yearning for color. We felt that the outgoing, friendly architecture of the house itself called for an extravagant decorating palette. So, we proceeded to bring the great outdoors indoors. We selected modified modern furniture with a pleasing price tag and a handsome finish to complement the paneled walls. We chose the sofa in light bright blue and a pair of high-backed chairs in brilliant turquoise. For accent and emphasis, we added a chair of pure purple. Daring? "Yes—but," says Donna Ghent happily, "now our house looks alive!" (continued)



An interior color scheme with bright and bold accents makes a dramatic contrast to the exterior of this contemporary home. Light-scaled furniture with textured fabrics and deep pile rugs add to the effect.



Is blue, turquoise, purple, and red the only color scheme for the Ghents' living room? No, we didn't think so, and have supplied another choice. In this second scheme, we chose a yellow, orange, and green palette with the autumnal outdoor colors available in this same furniture.

Ed. Note: If you get cold feet, as the Ghents did, when it comes to picking decorator colors, experiment a little. You can enlist the aid of a professional decorator—many furniture and department stores offer this service. Look at colors in stores and magazines. Collect samples of paints, paper, fabrics. You'll soon see which colors are best for you—then make the most of them!







The living area of the Ghents' bedroom looks out on the private garden beyond. Decorating here is simple with blue carpeting, purple chair, desk, and chest of drawers. Sleeping area is separate.

Having settled on blues and purples for our dominant scheme, we took a bold color sidetrack when we came to the family room. We drenched this informal room in primary colors of red, blue, and yellow, even painting the ventilator hood. Burlap draperies in bright mustard were the starting point here. The mustard-and-orange cotton rug gives the room pattern and texture. The table, with plastic laminated top, extending out from the kitchen counter was Mrs. Ghent's idea, and a good one. We decided to use simple, inexpensive chairs around this with seats of orange. The horizontal "yarn" picture over the sofa picks up the yellows and reds.

Family room-kitchen is the most lived-in room in the Ghents' house. Work counter with four-burner cooking top is convenient to dining table. Family room faces the street side of the house.

Buy Plans for Blueprint House No. 78 Order Form on Page 80



60-MINUTE
BUDGET MEAL WITH

GLAZED SUPPER LOAF

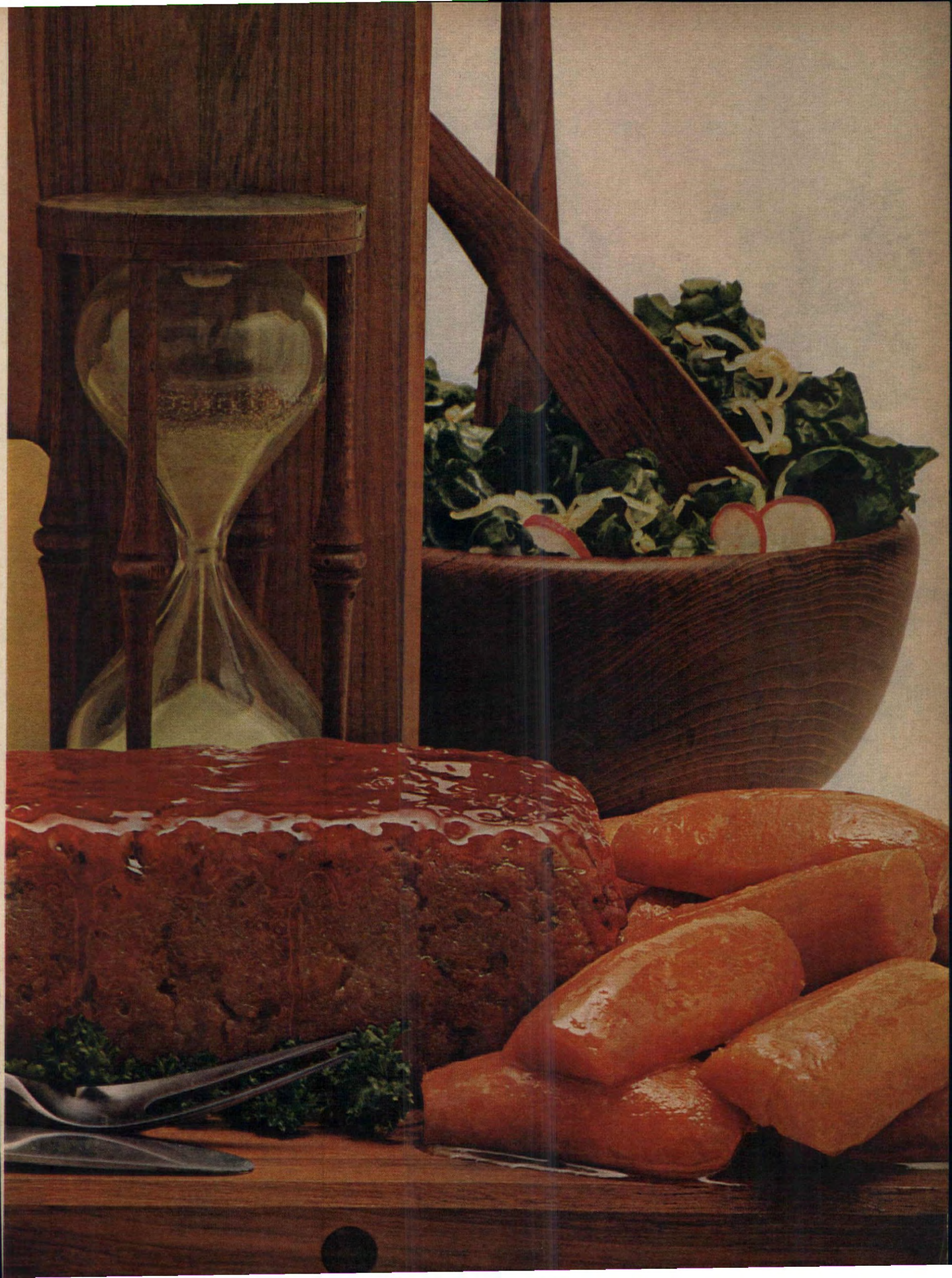
Maybe on Sunday you have the time to lavish your culinary skill on an elegant roast with all the trimmings. But what about Monday and the rest of the week? Want to feed your family three taste-tempting meals *every day*—and do it in jig time and on a shoestring? If so, our budget-saving, 60-minute meals are for you. Here is the first of a series—each so delicious no one will ever guess how little time it takes or how little money you spend:

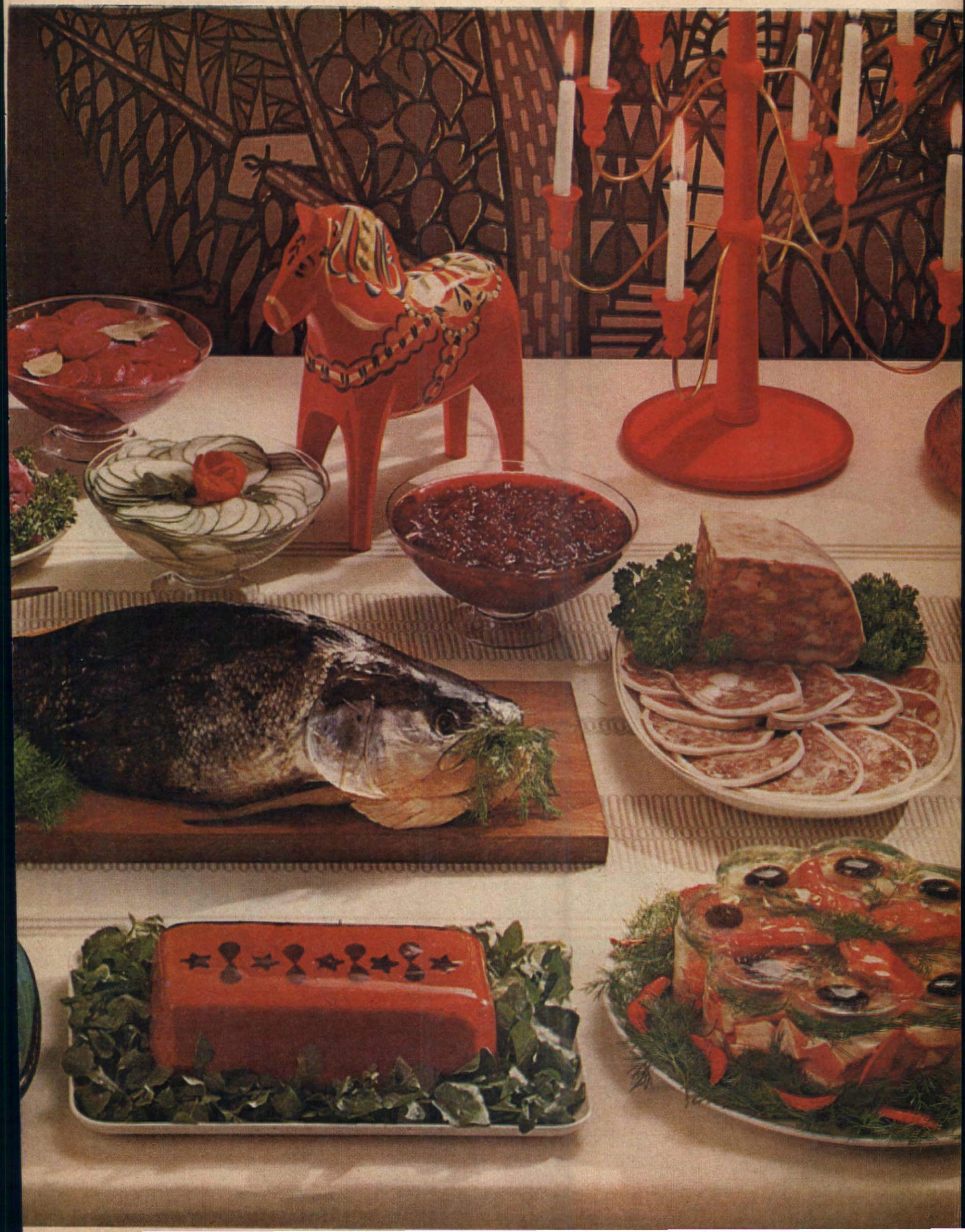
*Apple Glazed Supper Loaf**
with Yams
*Spinach and Bean Sprout Salad**
French Dressing
*Lemon Apple Whip**
Ginger Cookies

How do we do it? All it takes is planning and a good "timer." On our recipe page you'll find a time schedule for preparing this complete meal.

It will keep you on your toes and up to the minute. To make things even easier we've prepared a shopping list so you'll have everything on tap and ready to go. Our supper loaf is made of delightfully different—and delightfully inexpensive—canned luncheon meat with a sweet-sour glaze of apple jelly. And it's served with quick-fixing canned yams. The packaged spinach and bean sprouts you pick up for a pittance. The Lemon Apple Whip is made from a mix!

*Recipes on
page 51





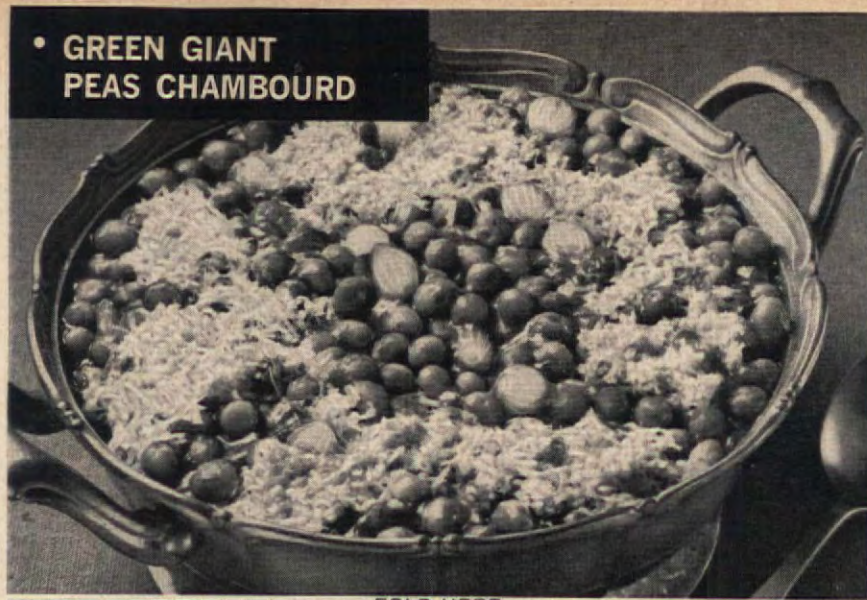


The secret of successful smörgåsbord-ing is restraint. Resist the temptation to load your plate. Make several visits to the table. Choose small delectable portions of foods that blend. You should feel pleasantly stuffed—with just a smidgen of room left for dessert (very delicate) and coffee (very strong).

*** Recipes on page 53**

Top to bottom, left to right: Swedish Meat Balls, Boiled Potatoes with Dill, Kidney Sauté,* Nokkelost, Danish Bleu, Vasterbottens Gradd Ost, Riksstost, Swedish Caviar, Butter Balls, and Jellied Pickled Eel.*

• **GREEN GIANT
PEAS CHAMBOURD**



FOLD HERE

• **GREEN GIANT
PEAS CHAMBOURD**

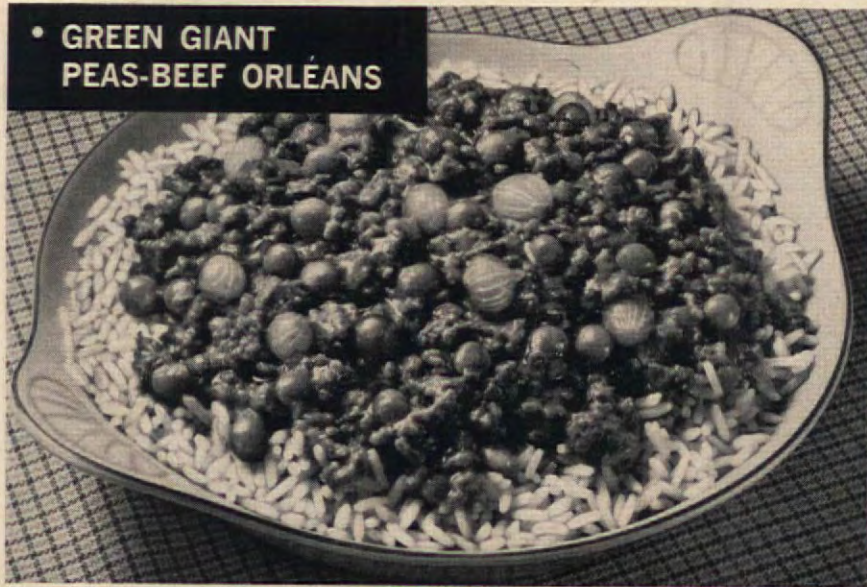
*Preparation time: 5 minutes
Cooking time: 20 minutes*



1 can (17-oz.) Green Giant Brand peas
with onions, drained
½ cup catsup
½ teaspoon salt
Dash pepper
½ cup grated Parmesan cheese

• In a greased 1 quart casserole, combine Green Giant Brand peas with onions, catsup, salt and pepper. Sprinkle with grated cheese. Bake in 350° F. oven 20 minutes.
Makes 4 servings

• **GREEN GIANT
PEAS-BEEF ORLÉANS**



FOLD HERE

• **GREEN GIANT
PEAS-BEEF ORLÉANS**

*Preparation time: 15 minutes
Cooking time: 5 minutes*



1 pound ground beef
¼ cup flour
2 cans (10½-oz. each) beef consommé
2 tablespoons minced parsley
2 teaspoons prepared mustard
1 teaspoon Worcestershire sauce
1 can (17-oz.) Green Giant Brand peas
with onions, drained
3 cups hot cooked rice

• In a large skillet, break up and brown ground beef. Drain off all but 3-4 tablespoons of fat and stir in flour. Add a little consommé, stirring until smooth. Stir in remaining consommé, parsley, mustard and Worcestershire sauce. Cook, stirring occasionally, until slightly thickened. Add Green Giant Brand peas with onions. Heat and serve over rice.

Makes 4 servings

The
Jolly Green Giant
puts a
French accent
on peas



little peas
with tiny onions

An elegant new taste. Very young and rather small peas mixed with imported baby onions. A touch of gourmet seasoning brings out the best in both. Green Giant Brand early peas with tiny imported onions. Give your family the pleasure soon.

GREEN GIANT®

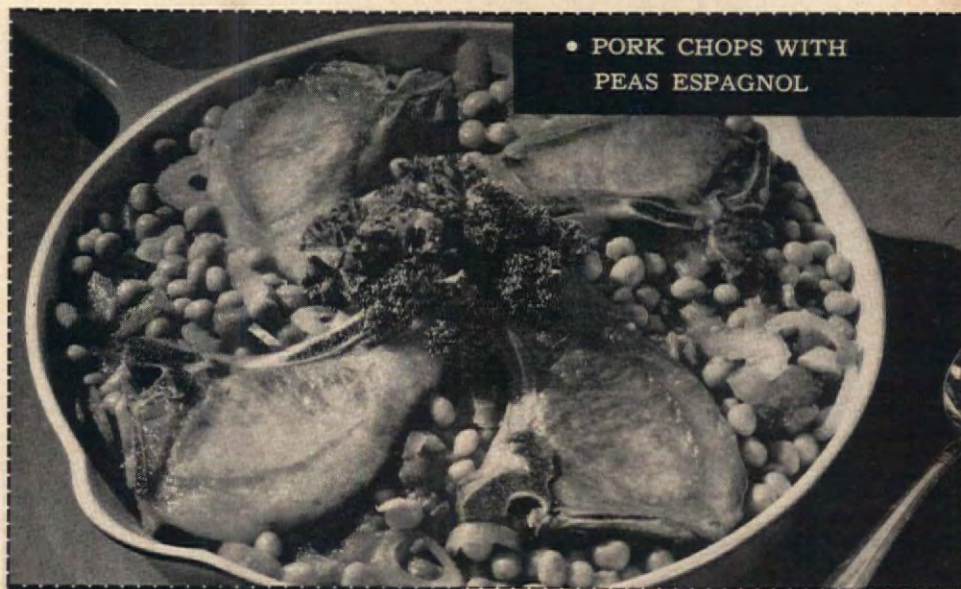
Good things from the garden



TAKE A CAN OF PEAS

● Nobody will deny that tender, delicious green peas are one of America's favorite vegetables. But it's time you surrounded the queen pea with a little fuss and fanfare. ● Take advantage of your family's fondness for peas to create a whole winter dinner around them. In Green Peas With Shrimp Curry, pretty green peas and rosy pink shrimp are laid on a bed of delicate noodles and encircled with crunchy French fried onion rings. For a hearty, nutritious main dish with a gourmet air, this one's hard to beat. ● Equally attractive and appetizing is Green Pea Supper Soufflé. It's a nourishing combination of peas, eggs, and Cheddar cheese that's easy to prepare and requires no watching over while it bakes in your oven. Be sure to serve it at its glorious peak of soufflé perfection! ● Tender green peas and meaty loin pork chops are combined in Pork Chops With Peas Espagnol for a zesty cold-weather casserole, along with juicy red tomatoes, grated Parmesan cheese, and piquant seasonings. ● On this and the next page are these main-dish recipes, and suggestions for other ways to use a can of peas—in side dishes, salads, casseroles, and luncheon dishes.

(continued)



• PORK CHOPS WITH
PEAS ESPAGNOL

• GREEN PEA SUPPER SOUFFLÉ

Preparation time: 20 min.
Baking time: 1 hr.

$\frac{1}{4}$ c. butter or margarine
 $\frac{1}{4}$ c. flour
1 tsp. salt
1 tsp. dry mustard
1 tbs. Worcestershire sauce

1 c. milk
2 c. shredded Cheddar cheese
4 eggs
1 can (about 1 lb.) green peas,
drained

● Melt butter or margarine in saucepan; blend in flour, salt, mustard, and Worcestershire. Add milk slowly; cook over medium heat, stirring constantly, until smooth and thickened. Add cheese, turn heat low; stir until cheese is melted. Set oven at slow (325° F.). Separate eggs; beat yolks slightly; stir in cheese mixture; add peas. Beat whites until stiff, but not dry; fold into cheese mixture. Pour into ungreased $2\frac{1}{2}$ -quart casserole. Bake 1 hour or until done. Serve at once.

Makes 6 servings

415 cal. per serving

Source of Vitamins A, B, C

Tested in THE AMERICAN HOME KITCHENS



• GREEN PEAS WITH
SHRIMP CURRY

MORE WAYS TO SERVE PEAS

• PORK CHOPS WITH PEAS ESPAGNOL

4 loin pork chops
2 tbs. pure vegetable oil
1 medium-sized onion, sliced
 $\frac{1}{2}$ c. diced celery
 $\frac{1}{2}$ c. diced green pepper
1 tsp. salt
 $\frac{1}{2}$ tsp. basil or oregano

● Brown chops in 1 tablespoon hot oil in skillet; remove; keep warm. Sauté onion, celery, and green pepper in remaining oil until soft. Stir in salt, basil or oregano, pepper, cheese, and tomatoes; add peas; stir gently to blend. Place chops on top; cover. Bake in moderate oven (350° F.) 50 minutes, or until chops are tender.

Makes 4 servings

385 cal. per serving

Source of Vitamins A, B, C

Tested in THE AMERICAN HOME KITCHENS

Preparation time: 25 min.
Baking time: 50-60 min.

$\frac{1}{4}$ tsp. seasoned pepper
2 tbs. grated Parmesan cheese
1 can (1 lb.) tomatoes
1 can (about 1 lb.) green peas,
drained; or 1 can (about 1 lb.)
green peas with onions, drained

• GREEN PEA SUPPER SOUFFLÉ



• GREEN PEAS WITH SHRIMP CURRY

$\frac{1}{8}$ c. butter or margarine
3 tbs. flour
1 tsp. seasoned salt
1 tsp. curry powder
 $\frac{1}{4}$ tsp. pepper
 $1\frac{1}{2}$ cups milk
1 pkg. (8 oz.) noodles, cooked
and drained
1 can (about 1 lb.) green peas, drained;

● Melt butter or margarine in saucepan; blend in flour, salt, curry, and pepper; add milk slowly. Cook over medium heat, stirring constantly, until smooth and thickened. Set oven at moderate (350° F.). Spoon noodles into bottom of 2-quart casserole. Add peas, shrimp, and parsley to sauce; spoon mixture over noodles. Bake 10 minutes; spoon onions around edge; bake an additional 5 minutes.

Makes 6 servings

333 cal. per serving

Source of Vitamins A, B, C

Tested in THE AMERICAN HOME KITCHENS

Preparation time: 15 min.
Baking time: 15 min.

or 1 can (about 1 lb.) green
peas with onions, drained
1 pkg. (10 oz.) shelled, de-veined
frozen shrimp, cooked; or 2
cans (4 $\frac{1}{2}$ -5 oz. each) shrimp
1 tbs. chopped parsley
1 can (3 $\frac{1}{2}$ oz.) French-fried onion
rings

● **Winter Salad Bowl** with a colorful center of seasoned peas is a pretty dish of vitamins to set before the family. Drain 1 can of peas (about 1 pound); toss with 1 tablespoon diced pimiento, 1 tablespoon chopped parsley, 1 tablespoon minced onion, 1 tablespoon capers, and $\frac{1}{4}$ cup bottled French dressing; chill 1 hour. Arrange washed and dried greens in salad bowl; spoon peas into center. Ring peas with hard-cooked egg slices. Arrange other vegetables and julienne strips of meat and cheese in mounds on greens. Just before serving, toss with additional French dressing.

● **Peas With Onions Au Gratin** is a bubbling treat for a blustery night. Drain 1 can (about 1 pound) peas and onions and place in a shallow baking dish; sprinkle with salt and pepper. Add 6 tablespoons evaporated milk or light cream; sprinkle with $\frac{1}{2}$ cup grated Cheddar cheese. Broil until cheese melts and top is delicately brown.

● **Peas and Onions.** Drain a can of the new peas with small white onions and add to a can of cream of chicken soup for a quick and easy dish. Or serve peas Holland style: Pour $\frac{1}{4}$ cup liquid from can into saucepan; add 2 tablespoons butter or margarine, 2 teaspoons brown sugar, 2 teaspoons vinegar, and the drained peas and onions. Mix lightly, heat through; season to taste with salt and pepper.

● **Creamed Peas** are extra delicious with grated cheese, sautéed mushrooms, sliced water chestnuts, chopped salted peanuts or canned French fried onions.

● **More Tips:** Try cooking peas in $\frac{1}{4}$ cup light cream instead of the can liquid. Try adding sour cream and chopped chives to drained peas; heat gently until warm. Try seasoning drained peas with tiny bread cubes sautéed in garlic-seasoned oil.

60-Minute Meal With Glazed Supper Loaf

Here are the recipes, shopping list, and time schedule. Clip along dotted lines, but do not separate the recipes. Fold on straight lines into one 3x5" unit with the menu card on top, and slip into transparent envelope for filing in your Menu Maker.

APPLE GLAZED SUPPER LOAF WITH YAMS



Preparation time: 10 min.
Chilling time: 30 min.

1/4 c. sugar
1 jar (8 oz.) applesauce
Raspberry jelly

1 pkg. lemon-flavored chiffon pie filling mix
1/2 c. boiling water
1/2 c. cold water

Combine pie filling mix and 1/2 cup boiling water; mix thoroughly. Add 1/2 cup cold water; beat vigorously with rotary beater or at highest speed on electric mixer until mixture is very foamy. Add 1/4 cup sugar; beat vigorously about 3 minutes, or until mixture stands in peaks. Do not overbeat. Fold in applesauce; layer into serving dishes with jelly. Chill. Leftover whip may be stored, covered, in the refrigerator.

Makes 4 to 6 servings 243-162 cal. per serving Source of vitamins A, C

Tested in THE AMERICAN HOME KITCHENS

LEMON APPLE WHIP

SHOPPING LIST

2 cans (12 oz. each) luncheon meat
1 can (1 lb. 10 oz.) syrup packed yams
1 can (1 lb.) bean sprouts
1 package dry bread crumbs
1 package (10 oz.) washed spinach
Bottled French dressing (or ingredients for home made)

Eggs

Milk

1 jar pickle relish

1 jar apple jelly

1 jar raspberry jelly

1 jar applesauce

1 package lemon-flavored chiffon

pie filling mix

Check your staples shelf to be sure these are on hand: dry mustard, seasoned salt, sugar, butter or margarine.

SPINACH AND BEANSPROUT SALAD



See other side of card for time schedule.

60 MINUTE MEAL

MENU

Apple Glazed Supper Loaf
with Yams
Spinach and Bean Sprout Salad
French Dressing
Lemon Apple Whip
Ginger Cookies

Food Tidbits

TRICKS WITH MOLASSES. Try using it in ways where its golden brown color, sweetness, and flavor can substitute easily and most deliciously for brown sugar. But remember molasses is a liquid, that the substitution in recipes for breads, cookies, and cakes cannot be a rule of thumb. The liquid and leavening agents will need to be considered.

Try it as a glaze for baked ham, using equal parts of unsulphured molasses and prepared mustard. Or add 2 tablespoons molasses and 2 tablespoons vinegar and a few cloves to the syrup of canned fruit, such as cling peaches, for a *special fruit sauce*. For a *quick barbecue sauce*, blend together 1/4 cup molasses and 1/4 cup prepared mustard. Then add 3 tablespoons vinegar and 1 tablespoon Worcestershire sauce. Blend together equal parts of butter and molasses in a skillet, and use a top-of-range glaze for *pan-glazed fruits*.

OUTDOOR CHEFS have moved inside, but still possess that longing for the "wood-fire" flavor of the great outdoors. If you will keep a bottle of liquid smoke on hand, you can carry that "outdoor" flavor inside too. Just a dash of liquid hickory smoke on your hamburgers, chicken, hot dogs, fish, or chops does it.

PERFECT RICE. Measure 1 cup regular white rice, 2 cups water or bouillon, and 1 teaspoon salt into a saucepan. Bring to a boil. Stir. Cover tightly; cook over low heat 14 minutes or until liquid is absorbed and rice is tender.

For brown or parboiled rice, use 2 1/2 cups liquid. Cook brown rice 45 minutes; parboiled rice 20 minutes. Leftover rice, covered, may be refrigerated for one week.

WHAT'S A "COTTAGE ROLL"? It's a smoked pork shoulder butt, a handy cut that usually makes two meals for an average-sized family.

FRAGRANT SCENT. Here's a tip from Spain: When frying with olive oil add a few petals of dried rosemary to create a delightful scent. The Spanish also often add a generous amount of minced parsley to olive oil which not only adds to the flavor of fried foods but helps to prevent spattering.

READY-MIXED SAUCES are a special note for today's time-conscious homemaker. They add flavor and seasoning to a wide variety of dishes. They are carefully compounded of many ingredients, each measured and pretested to produce perfect

60-Minute Meal With Glazed Supper Loaf

Here are the recipes, shopping list, and time schedule. Clip along dotted lines, but do not separate the recipes. Fold on straight lines into one 3x5" unit with the menu card on top, and slip into transparent envelope for filing in your Menu Maker.

results. Available in dry-mix form, they include such varieties as:
Brown gravy, for meat dishes and casseroles.

White sauce, for vegetables, casseroles, and croquettes.

Cheese sauce, for soufflés, vegetables, and sea food.

Meat-loaf sauce, good not only on meat loaf, but for any similar dish calling for a rich sauce.

Light gravy, for poultry, veal, or tuna dishes.

Curry sauce, for sea food, fowl, lamb, or any dish calling for an exotic flavor.

Sour cream sauce, for dips, baked potatoes, salads.

Spaghetti sauce, for Italian dishes.

Chili sauce, for Chili Con Carne and Mexican dishes.

NUTRITION STATUS of the nation is again the subject of weighty discussion. And one of our greatest problems is how to improve nutrition. There has been a growing tendency to think in terms of specific vitamins, or specific nutrients, thus giving rise to certain diet deficiencies. This type of thinking is archaic. It is time that we again remind ourselves to move to the broader approach—that no nutrient by itself can carry out the complete job of good health. We require adequate supplies of *all* nutrients in a daily diet.

All of us in the United States like to think of ourselves as being the best fed, most generally health-conscious nation in the world. Compared to many countries, we are, and chances are that most of us can list the staples of a sound daily diet. The trouble is we ignore the rules—we fall into poor eating habits which deprive us of the nutrition we need every day of our lives.

As a reminder, the four basic groups that should be included in your daily diet are:

1. Milk group. Doctors recommend three to four glasses daily for children; four or more for teenagers; two or more for adults. Cheese, ice cream, and other milk-made foods can supply part of your requirements.

2. Meat group. Eat two or more servings daily of beef, veal, lamb, pork, poultry, eggs, or fish—with dry beans, peas, nuts as alternates.

3. Vegetable and fruit group. You should have four or more servings of yellow or green vegetables, citrus fruits or tomatoes.

4. Bread and cereal group. Four or more servings daily of enriched or whole grain bread or cereal.

• LEMON APPLE WHIP



Preparation time: 10 min.
Baking time: 40 min.

1 tsp. dry mustard
1 can (1 lb., 10 oz.) syrup-packed yams
1/4 c. melted butter or margarine
1/2 c. apple jelly

2 cans (12 oz. each) luncheon meat
1 1/2 c. packaged dry bread crumbs
1 egg
1/2 c. milk
1/4 c. pickle relish

• Set oven at moderate (350°F.). Chop luncheon meat very fine; add bread crumbs, egg, milk, pickle relish, and mustard; mix well. Press mixture firmly into greased 9x5x3-inch loaf pan; turn out into baking pan. Drain yams, place in baking pan around meat loaf. Brush loaf and potatoes with melted butter or margarine; bake 30 minutes. Beat apple jelly with a fork; spoon over loaf; bake loaf 10 minutes longer until nicely glazed.

Makes 4 servings 770 cal. per serving

Source of vitamins A, B

Tested in THE AMERICAN HOME KITCHENS

• APPLE GLAZED SUPPER LOAF WITH YAMS

• TIME SCHEDULE SHOPPING LIST

This is your working time schedule for the preparation of the menu on reverse side for Apple Glazed Supper Loaf with Yams, Spinach and Beansprout Salad, and Lemon Apple Whip.

Minutes

00 Turn on oven.
02 Prepare meat loaf; put in baking dish.
12 Add yams to baking dish. Brush loaf and potatoes with melted butter or margarine. Put in oven.
18 Prepare Lemon Apple Whip; spoon into glasses with layer of jelly or preserves. Refrigerate.
28 Wash, clean, and drain spinach; break

into pieces in salad bowl. Add drained bean sprouts to spinach; refrigerate.
38 Make your own salad dressing.
47 Glaze meat loaf, as recipe directs; continue baking.
50 Make coffee. Set table.
55 Add salt and dressing to salad; toss.
57 Remove loaf and potatoes from oven.
60 Now you're ready to serve.

• SPINACH AND BEANSPROUT SALAD

Preparation time: 10 min.

1 tsp. seasoned salt
1/4 c. French dressing

1/2 of 10 oz. pkg. washed spinach
1 can (1 lb.) bean sprouts, drained

• Rinse and pick over spinach; break into small pieces in salad bowl. Add bean sprouts; refrigerate. Just before serving, sprinkle with seasoned salt. Add dressing; toss gently until ingredients are well coated.

Makes 4 servings

125 cal. per serving

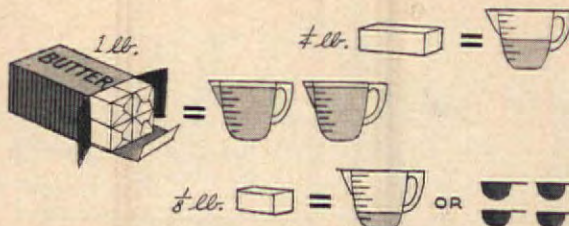
Source of vitamins A, C

Tested in THE AMERICAN HOME KITCHENS

See other side of card for menu and shopping list.

Smörgåsbord

(pictured in color on pages 44, 45, and 46)



How to measure butter or margarine:

4 sticks (1 lb.)=2 c.

1 stick (1/4 lb.)=1/2 c.

1/2 stick (1/8 lb.)=1/4 c. or 4 tbs.

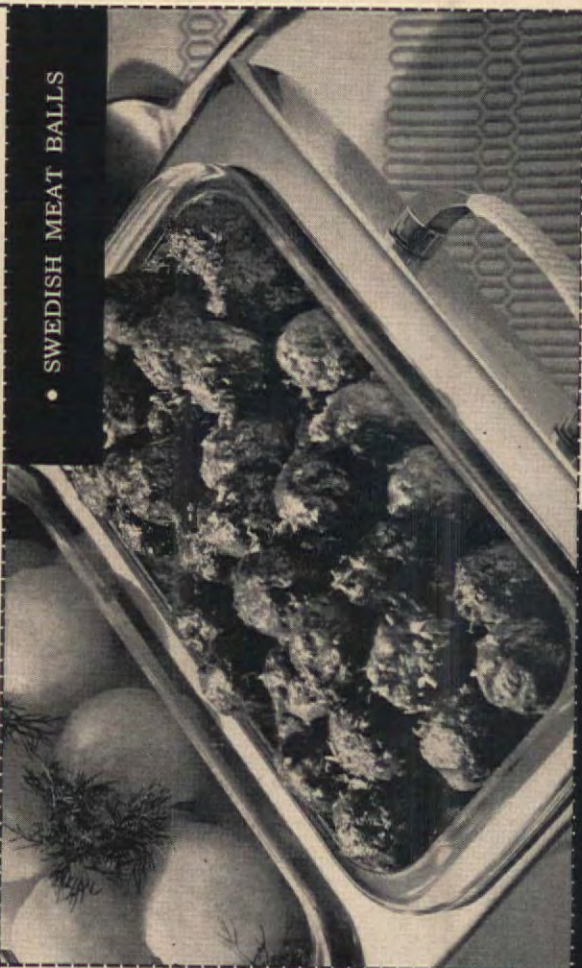
• LIVER PÂTÉ

- 1 1/2 lbs. calves' liver
- 1 medium-sized onion, chopped (1/2 c.)
- 1 can anchovy fillets in oil
- 1 tbs. salt
- 1/4 tsp. ginger
- 1/4 tsp. ground cloves
- Dash of cayenne
- 3/4 c. flour

• Soak liver in cold water to cover 6 to 8 hours or overnight; wipe dry. Put liver, onion, anchovy fillets and oil through food chopper, using fine knife; grind 4 or 5 times more or transfer to blender and mix until smooth. Mix in salt, ginger, cloves, cayenne, and flour; blend in cream; beat well. Line loaf pan, 9x5x3 inches, with bacon slices; pour liver mixture carefully into pan; set pan in pan of hot water. Bake in slow oven (275° F.) 1 hour, 50 minutes, or until firm in center. Chill several hours or overnight. Remove thoroughly chilled pâté from pan; discard bacon slices; wash and dry pan. Soften gelatin in cold water; dissolve over hot water; combine with consommé. Spoon 1/4-inch layer of gelatin mixture into loaf pan; chill until set; arrange cut pieces of truffles or ripe olives on top; cover with second thin layer of gelatin mixture; chill until set. Place pâté in loaf pan; carefully spoon remaining gelatin mixture around sides; chill until set. When ready to serve, unmold onto platter; garnish with water cress.

Tested in THE AMERICAN HOME KITCHENS

• SWEDISH MEAT BALLS



Preparation time: 30 min.

Cooking time: 2 1/2 hrs.

Chilling time: overnight

- 2 slices onion
- 1 lb. salt pork
- 2 tsp. salt
- 1/2 tsp. ground white pepper
- 1/4 tsp. ground allspice
- 1/4 tsp. ground cloves
- 1 envelope plain gelatin
- 1/4 c. cold water

• Rinse pork and veal in cold water; place in kettle with 1 1/2 quarts water; bring to boiling; skim carefully. Add 1 tablespoon salt, whole allspice, peppercorns, bay leaf, carrot, and onion; reduce heat; simmer 2 hours. Line 1 1/2-quart bowl with large piece of damp cheesecloth; arrange thin slices salt pork fat over cheesecloth to cover bowl. Remove cooked meat from kettle; skin, bone, and cube meat. Mix 2 teaspoons salt, ground pepper, ground allspice, and ground cloves. Place alternate layers of pork and veal in prepared bowl, sprinkling each layer with mixed spices. Bring cheesecloth together over top of meat; tie securely with string; lift from bowl; place in liquid in kettle. Boil slowly 25 to 30 minutes, turning once; remove from liquid; return to bowl; strain liquid. Soften gelatin in 1/4 cup cold water; stir into hot strained liquid. Pour over meat in bowl; chill overnight. Remove cheesecloth; cut into slices.

Tested in THE AMERICAN HOME KITCHENS

• PRESSED HEADCHEESE

- 2 lbs. lean pork
- 3 lbs. breast of veal
- 1 1/2 qts. water
- 1 tbs. salt
- 10 whole allspice
- 10 whole white peppercorns
- 1 bay leaf
- 1 carrot

• Rinse pork and veal in cold water; place in kettle with 1 1/2 quarts water; bring to boiling; skim carefully. Add 1 tablespoon salt, whole allspice, peppercorns, bay leaf, carrot, and onion; reduce heat; simmer 2 hours. Line 1 1/2-quart bowl with large piece of damp cheesecloth; arrange thin slices salt pork fat over cheesecloth to cover bowl. Remove cooked meat from kettle; skin, bone, and cube meat. Mix 2 teaspoons salt, ground pepper, ground allspice, and ground cloves. Place alternate layers of pork and veal in prepared bowl, sprinkling each layer with mixed spices. Bring cheesecloth together over top of meat; tie securely with string; lift from bowl; place in liquid in kettle. Boil slowly 25 to 30 minutes, turning once; remove from liquid; return to bowl; strain liquid. Soften gelatin in 1/4 cup cold water; stir into hot strained liquid. Pour over meat in bowl; chill overnight. Remove cheesecloth; cut into slices.

Tested in THE AMERICAN HOME KITCHENS

• LOBSTER MOLD



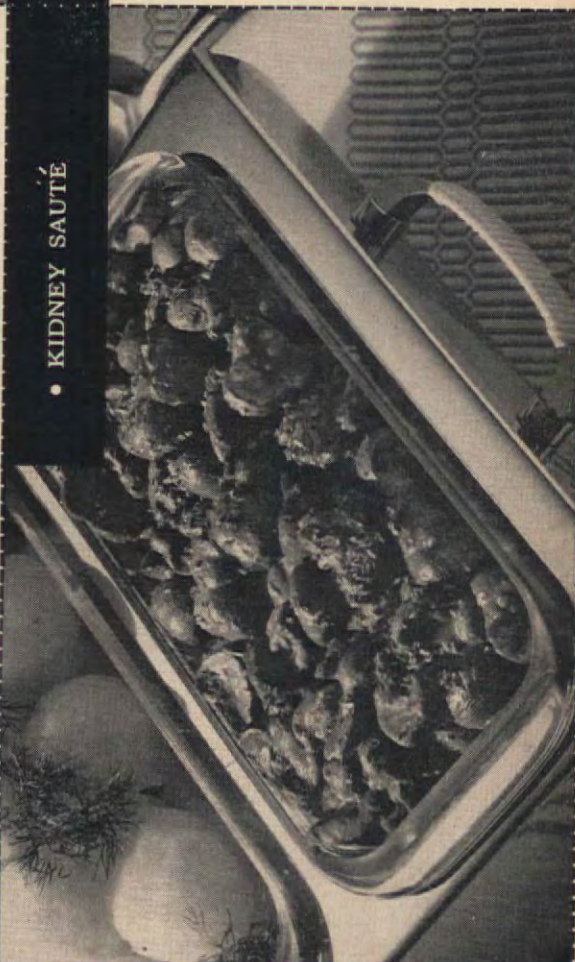
• HERRING SALAD

- 1 salt herring
- 2 c. boiled, diced potatoes
- 2 c. diced cooked beets
- 1 small onion, chopped (1/4 c.)
- 1/2 c. chopped dill pickles

• Clean herring; remove head; soak in cold water 6 to 8 hours, or overnight. Drain; skin; bone; chop. Mix chopped herrings, potatoes, beets, onion, and pickles. Blend carefully with salt, vinegar, water, and sugar. Rinse 1 1/2-quart mold with cold water; pack herring mixture into mold. Chill several hours; unmold onto serving plate; garnish with hard-cooked egg and parsley.

Tested in THE AMERICAN HOME KITCHENS

• KIDNEY SAUTÉ



Smörgåsbord

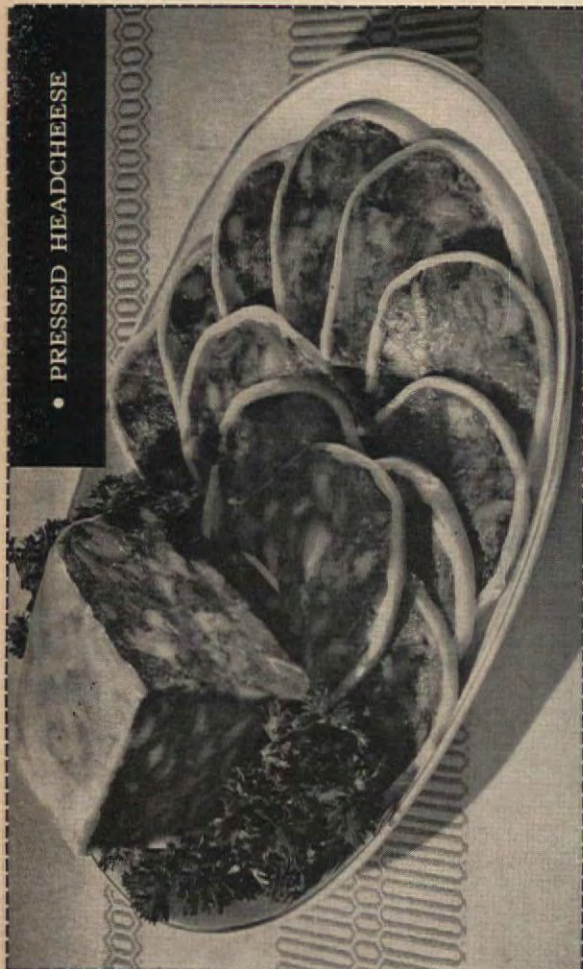
(pictured in color on pages 44, 45 and 46)



For a pretty potato salad:

Slice the whites of hard-cooked eggs and add them to salad. Press the yolks through a fine strainer over salad.

• PRESSED HEADCHEESE



• SWEDISH MEAT BALLS

Preparation time: 40 min.
Cooking time: 15-20 min.

- 1/4 tsp. pepper
- Fat for frying
- 1 tbs. flour
- 1 c. heavy cream
- 2 tbs. chopped parsley

- 2 lbs. ground beef
- 2/3 c. pkg. bread crumbs
- 1 can consommé
- 4 tsp. grated onion
- 2 tsp. salt

● Combine ground beef, bread crumbs, consommé, onion, salt, and pepper in large bowl. Mix with spoon or hands until mixture is a smooth spongy mass; let stand at least 1/2 hour. Shape into small balls; fry in hot fat in skillet until evenly browned. Shake pan during frying to keep balls round. Blend in flour; stir in cream; bring to boiling; simmer about 5 minutes. Just before serving, sprinkle with parsley.

Makes about 8 doz.

Tested in THE AMERICAN HOME KITCHENS

• LIVER PÂTE



Preparation time: 20 min.
Cooking time: 30 min.

- 1/4 c. sherry
- 1 c. heavy cream
- Salt
- White pepper
- Chopped parsley

● Remove fat and heavy vein from kidneys; cut in cubes. Heat butter or margarine in large skillet; add cubed kidneys; brown evenly on all sides. Add mushrooms; cook 5 minutes. Sprinkle with flour; stir until blended. Add consommé, wine, and cream slowly, stirring constantly. Cook over low heat 10 to 15 minutes; season to taste with salt and pepper; sprinkle with chopped parsley. Serve hot.

Tested in THE AMERICAN HOME KITCHENS

• HERRING SALAD



Preparation time: 30 min.
Chilling time: several hrs.

- 3 c. white wine
- 1/4 c. vinegar
- 1 tsp. salt
- Fresh dill
- Pitted ripe olives, halved

● Remove lobster meat from claws and tail of cooked live lobsters, or drain canned lobster. Save meat from 4 claws for decoration; save legs for garnish; cut remaining meat into large pieces. Soften gelatin in 1 cup cold water; dissolve over hot water. Combine remaining 1 cup water, wine, vinegar, salt, and dissolved gelatin in large bowl. Cover bottom of oiled 2-quart mold with 1/2-inch-thick layer of gelatin; chill until set. Arrange reserved claw meat, some sprigs of fresh dill, and halved olives in design on set gelatin; cover with layer of gelatin; chill until set. Chill remaining gelatin mixture in bowl until slightly thickened; fold in cut-up lobster meat; turn into mold; chill until set. When ready to serve, unmold onto serving plate; garnish with fresh dill and reserved lobster legs. Serve with DILL MAYONNAISE: Combine 1 cup mayonnaise or salad dressing, 1 tablespoon vinegar, 1/2 teaspoon sugar, and 2 tablespoons chopped fresh dill. Chill until serving time.

Tested in THE AMERICAN HOME KITCHENS

• KIDNEY SAUTÉ

- 2 veal kidneys (about 1 lb. each)
- 4 tbs. butter or margarine
- 1 lb. mushrooms, sliced
- 2 tbs. flour
- 1 can consommé

● Remove fat and heavy vein from kidneys; cut in cubes. Heat butter or margarine in large skillet; add cubed kidneys; brown evenly on all sides. Add mushrooms; cook 5 minutes. Sprinkle with flour; stir until blended. Add consommé, wine, and cream slowly, stirring constantly. Cook over low heat 10 to 15 minutes; season to taste with salt and pepper; sprinkle with chopped parsley. Serve hot.

Tested in THE AMERICAN HOME KITCHENS

• LOBSTER MOLD

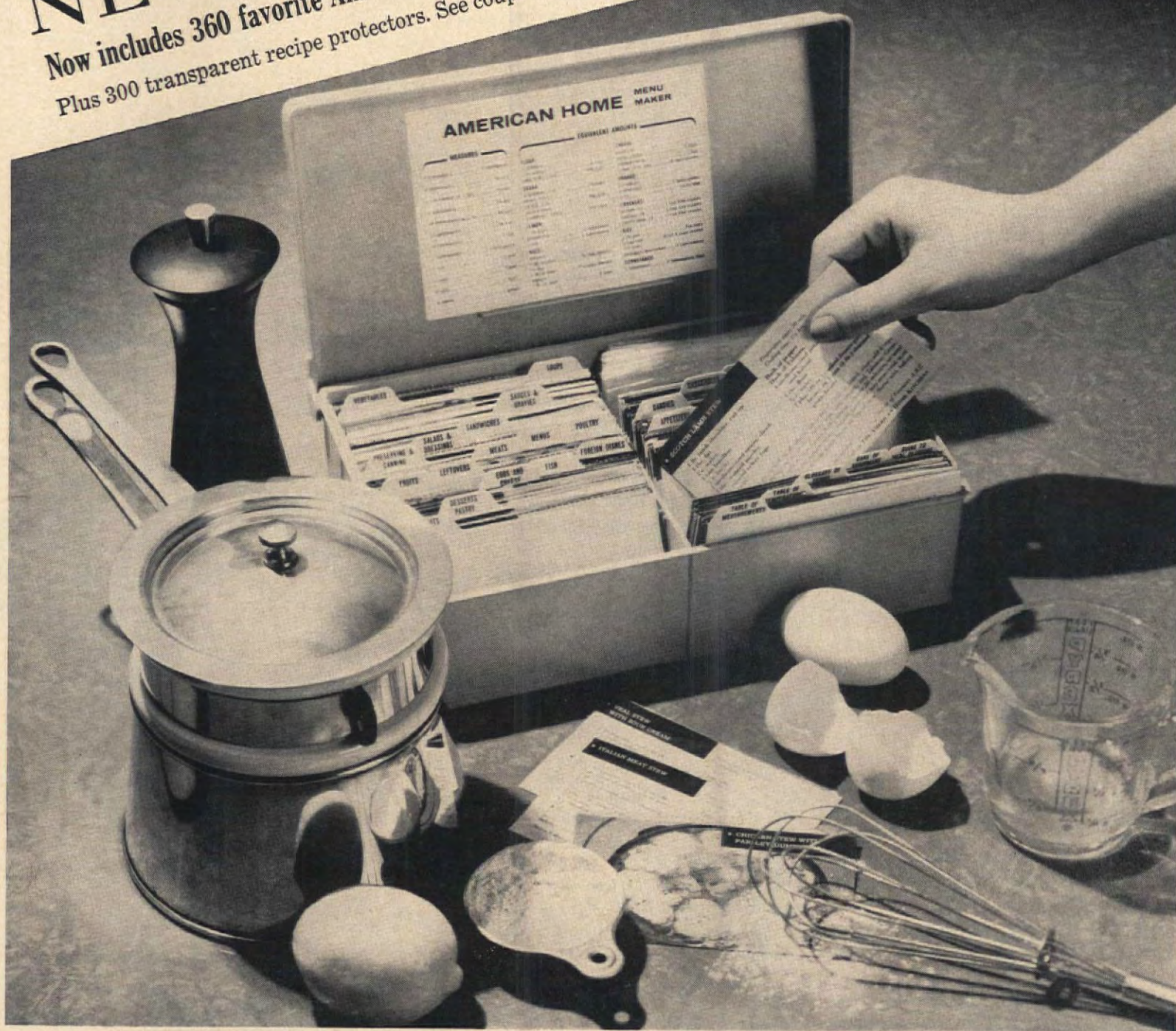
- 3 live lobsters (2 lbs. each), boiled or: 6 cans (6 1/2 oz. each) lobster
- 4 envelopes plain gelatin
- 2 c. cold water

● Remove lobster meat from claws and tail of cooked live lobsters, or drain canned lobster. Save meat from 4 claws for decoration; save legs for garnish; cut remaining meat into large pieces. Soften gelatin in 1 cup cold water; dissolve over hot water. Combine remaining 1 cup water, wine, vinegar, salt, and dissolved gelatin in large bowl. Cover bottom of oiled 2-quart mold with 1/2-inch-thick layer of gelatin; chill until set. Arrange reserved claw meat, some sprigs of fresh dill, and halved olives in design on set gelatin; cover with layer of gelatin; chill until set. Chill remaining gelatin mixture in bowl until slightly thickened; fold in cut-up lobster meat; turn into mold; chill until set. When ready to serve, unmold onto serving plate; garnish with fresh dill and reserved lobster legs. Serve with DILL MAYONNAISE: Combine 1 cup mayonnaise or salad dressing, 1 tablespoon vinegar, 1/2 teaspoon sugar, and 2 tablespoons chopped fresh dill. Chill until serving time.

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As any woman who uses a dryer will agree, this is one appliance that will really save you time and energy. With a dryer helping you on washday, you can have a load of clothes ready to wear or iron in practically the same time it would take to carry them out to the line and hang them up. You say you like the effects of line drying? An automatic dryer matches every one of them—crispness, freshness, speed—and not just on clear, breezy days, either! You might say a dryer is like a clear, breezy day without the disadvantages of unpredictable weather, smoke or soot, sun bleaching, or wind whipping. It dries your wash to perfection whenever you wish and actually improves the appearance and extends the life of some fabrics.

HOW TO CHOOSE ONE

Let's start shopping. What you want is a dryer that will properly dry the things you wash, with as many of the extra convenience features as you can afford. This, essentially, is your yardstick for choosing the right dryer from the many brands and models available. You can get a dependable dryer for around \$140, you can buy one with all the extras for \$350 or more, or you can spend any amount in between. The number and variety of special features increase as the price goes up, and each one in some way adds to the pleasure and ease of using a dryer. So if you can financially manage a top-of-the-line model, you'll be ready to cope more easily with the great diversity of fabrics in your laundry basket. What you must do is weigh all these extras against your family's needs, the present and future contents of your laundry basket—and then decide which model is right for you.

For the limited budget we'd suggest buying a low-end or middle-of-the-line dryer without hesitation. You'll get good drying results for your immediate needs. And, much as you might enjoy some of the special extras, such as ozone lamps or sprays that add outdoor aroma, or illuminated control panels, these are secondary features that don't really add to a dryer's ability to dry clothes. Quality and dependability are seldom a question of price these days. In any given line the basic mechanism, the heating and air circulating systems, the safety features, and even the warranty are likely to be the same in all models, regardless of how much they cost.

A more de luxe or top-of-the-line model will, of course, give you more convenience features and provide extra flexibility for future changes in your family and the growing variety of fabrics.

FEATURES TO NOTE

You'll find these in the \$140-\$250 price range:

A timer you set according to the size of the load. Some provide up to two hours or more for very heavy items. All turn off the dryer automatically when selected time is up.

Limited temperature selection, often a single heat level to dry practically any fabric safely. Many budget models have, in addition to a single heat level, an "air only" setting for fluffing pillows or dusting draperies without heat; some have two or three temperature settings for delicate fabrics, regular, and wash-and-wear loads. Even on a single-heat dryer you may find an end-of-cycle cooling period that helps keep heat-set wrinkles out of wash-and-wear fabrics.

A safety thermostat that cuts off heat before temperature gets too high.

A safety door switch that stops heat and tumbling when the door is opened, then resumes automatically when closed. Some have a separate starting switch for added safety.

An automatic pilot (on gas dryers) to ignite the burner without lighting it manually each time.

A lint filter or screen designed and located for easy removal, cleaning, and replacement. (Fabrics naturally shed lint as they dry. On the line it blows away, but in a dryer it is collected on a screen and must be cleaned off regularly.)

A push-button door latch for easy opening when your arms are full.

Perhaps a sound signal to announce that it's time to remove dried clothes (essential for keeping wash-and-wear smooth, handy for any load if your dryer is in the basement).

In some, a choice of direction for venting to permit flush-to-wall installation in any room arrangement.

Durable cabinet finishes, of baked enamel or acrylic paint, some with por-

celain tops. All-porcelain finish may be available at extra cost.

Additional features in higher-priced dryers:

Automatic timing to put an end to the problem of overdrying, or removing so much moisture that fabrics feel harsh. These new controls decide when clothes are dry enough, by means of special



thermostatic devices that measure temperature changes, or electronic sensors that actually feel moisture in fabrics, and stop drying automatically.

Wider range of temperature settings, usually labeled according to type of fabric to make selection easy.

Built-in sprinklers, mainly to dampen clothes for ironing, but also a handy way to smooth out rumpled wash-and-wear between launderings.

More special cycles, including wash-and-wear cycles that end with tumbling in cool air to minimize wrinkling and damp-dry cycles for articles to be ironed immediately.

Interior lights to help you find every last sock in the cylinder.

Illuminated control panels, nice in a dim laundry room or a poorly lighted basement.

Windows in doors to show drying progress at a glance (as steam disappears and clothes appear to "float," you know they're nearly dry).

Foot pedals to open doors.

Horizontal doors that form a chute for loading and a shelf for folding dried clothes on the spot.

No-tumble settings for drying wool knits without shrinkage or matting.

More elegance in styling, higher control panels, and a choice of colors in some lines.

Greater installation flexibility—and even no-vent electric models for locations that can't be vented to the outdoors.

Hair dryer hood available as a separate accessory.

Big-family capacity—as much as 12 pounds (dry weight) in some.

OTHER THINGS TO CONSIDER

Controls. These days you can have your choice of push buttons, keys, or knobs. In some lines, you'll find fewer controls on top models than on medium-priced dryers. That's because increased automatism, with preset timing and temperature, means fewer decisions for you to make. With completely automatic timing, you merely set one control, according to type of load, and the dryer turns itself off at the proper time. Other timers may be set manually for up to two hours.

Gas or electricity? From a performance standpoint there's little difference. Your choice may depend on your present wiring or gas connections, on local fuel rates, or simply personal preference. A gas dryer can be adapted to natural, manufactured, or LP-gas. For an electric dryer you'll need a separate 220-240 volt circuit, though some can operate, more slowly, on 110-120 volts. A few electric dryers are now made specifically for lower voltage operation.

What about venting? Any dryer should, if possible, be vented outdoors. Otherwise, unless there is excellent air circulation in the room, heat and mois-

ture create humidity problems. If outside venting isn't possible, look into the electric dryers that dispose of moisture by means of a special condenser or filter. Some of these require a cold-water line and drain connection.

Installation costs. Will you need new wiring or plumbing? Will venting require extensive ductwork? Some dryers can be vented from more than one direction—either side, back, or bottom. If your floor is very uneven, it may take more than adjustment of the leveling legs built into most dryers today. And, if space is limited, remember that dryers vary a few inches in width.

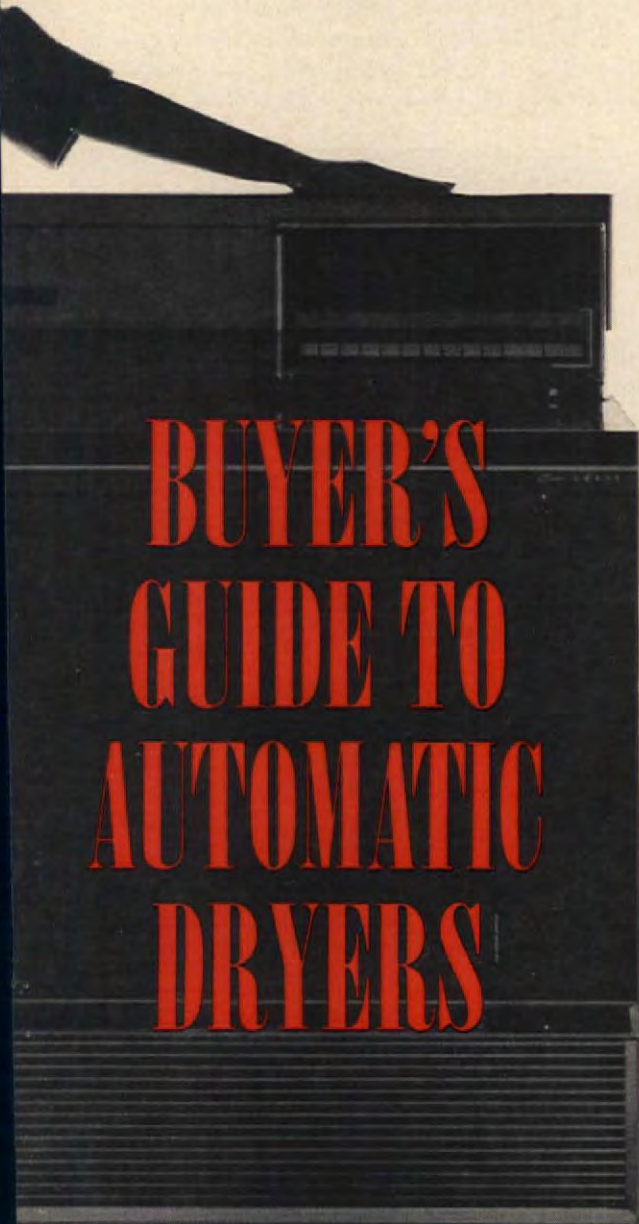
What about service? You should know that manufacturers of laundry appliances are working to improve their products, eliminate weaknesses, and simplify service. And they have made great strides in this direction. Electronic devices now guide service men to the source of trouble; easier access to mechanisms makes shorter work of repairs; warranties provide more coverage for longer periods. Improved automatic timing puts an end to over-drying, once a common reason for unnecessary service calls.

You should also know that many service problems would never occur if every dryer user would read and follow the explicit instruction booklets that manufacturers' home economists prepare. Use and care instructions are as much a part of any appliance as the switch that turns it on, and failure to follow their advice on such simple matters as not overloading, cleaning lint screens, or checking for blown fuses is the most common cause of trouble.

Of course, there may come a time when your dryer will require service. It's a machine, after all. When this happens, you'll want to know who to call and when to expect attention. Get this information before you buy a dryer—or any appliance—and jot the number in your instruction booklet, along with model, serial numbers, and any other pertinent information you may need to give over the telephone.

Once you own a dryer—and we hope these pages will have helped you to decide in favor of buying one—we predict that you'll soon learn to depend on it every washday. An automatic dryer is no longer a luxury. We believe it's a necessity!

The Home Equipment Staff



BUYER'S GUIDE TO AUTOMATIC DRYERS



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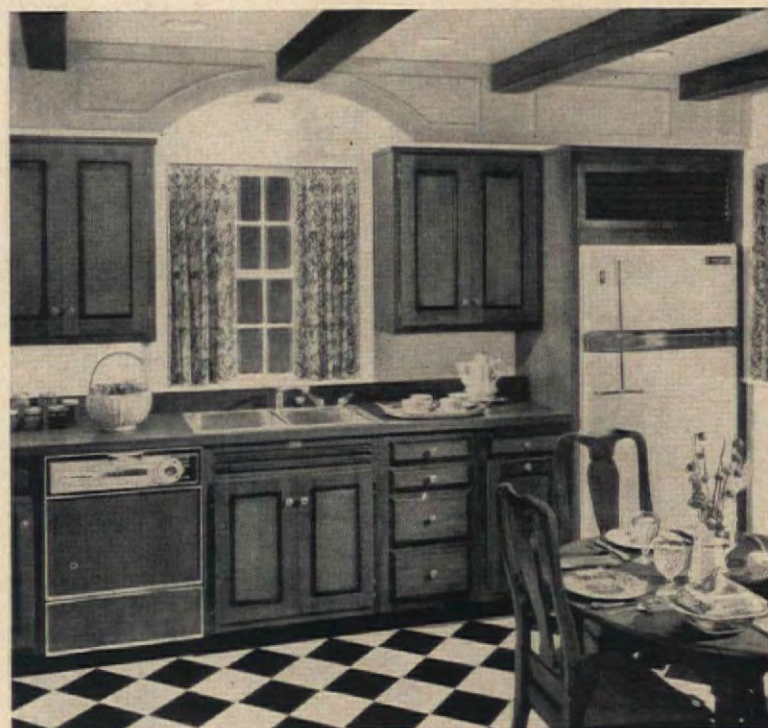
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THE AMERICAN HOME, Dept. AS, American Home Bldg.
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1962 Kitchen (continued from page 25)



Dark stained wooden beams repeat the rich wood tones of the cabinets and dining furniture. Note how the free-standing gas refrigerator is framed to look built in. The traditional dining table is well placed in relation to cooking and serving center. Stainless steel double sink and laminated plastic counter tops keep their good looks.



The laundry area in its own quiet corner of the kitchen boasts a combination washer-dryer with push-button and manually operated controls. Like all the appliances, with the exception of dishwasher and garbage disposer, it operates on natural, manufactured, or LP gas. The stainless steel sink is a practical "must" for any laundry.



Room designed by Jeremiah Goodman, A. I. D.

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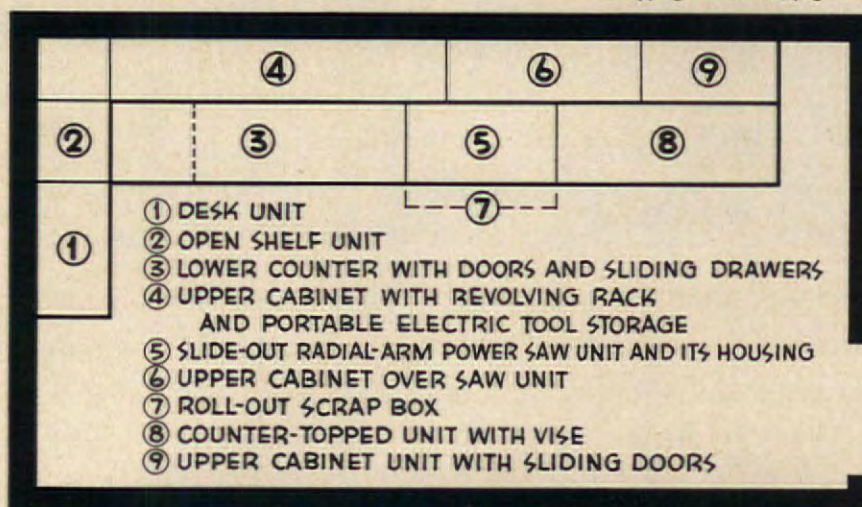


DESIGNER: BILL BAKER PHOTOGRAPHY: P. M. DEMAREST

Workshop units are 7 to 8' high, can be rearranged to fit almost any area. They could easily be adapted to make a family-room storage wall.

Shopping Information, page 81

Always wanted a workshop all your own? Well, here it is—nine separate units that you can build at one energetic clip or take in your own easy stride. Look what you get in the sketch at the right—a big roomy desk, a slide-out unit for your power saw, a revolving cabinet for your tools, a bin for your scrap lumber. All this and plenty of counter and storage space to boot. We warn you, though—your wife will have her eyes on this unit for a family-room storage wall with a spot for TV, hi-fi, and record storage. Better go build it—and don't tell her what you're up to. The construction pattern shows complete line drawings of each unit, materials list, and easy-to-follow assembly instructions. Pattern is CP-9, 75¢. **ORDER FORM ON PAGE 75**



Revolution in Home Building

(continued from page 30)

First, the toilet has come off the floor. Residential wall-hung toilets are now available from every major manufacturer in white or color. Biggest advantage for you: cleaning your bathroom floor is greatly simplified. Prices are higher than floor-standing models, but there's promise competition will change that—to your benefit.

Although you won't notice much of a change on the outside, new bathtubs in slab-foundation homes may be the raised-bottom type. This permits drain lines to run above the slab, rather than in it. When used with the wall-hung toilet, savings in piping installation have been \$150 per house.

Fiber glass imbedded in a plastic resin has been molded to form a shower stall or vanity, complete in each case. Unit cost is now comparable to equivalent materials, but installation is achieved in record time.

The faucet has progressed from a separate spout for hot and cold water to one spout with a single control. Not much saving in cost, but there is a marked increase in convenience.

In the future: a completely prefabricated bathroom that drops—as a unit—into your new house.

ELECTRICAL INDUSTRY ADVANCES

Wiring for the home of the future may be completely surface mounted. Such systems are available today, but at prices that generally limit them to more expensive homes.

Meanwhile, there are several advances in the electrical industry you should know about. They include:

- Circuit-breaker panels. Included more each year as standard equipment in new houses, circuit breakers eliminate the need for changing fuses. An overload on your circuit will automatically cut off the electricity. A flick of a switch will put your lights back in action. Costs for fuse boxes and circuit-breaker panels are about equal now.

- Lighting. Luminescent ceilings created by banks of fluorescent or incandescent lights above frosted glass or fiber-glass panels, valance lighting, and recessed ceiling lights are some of the new items now available. Soon your new home may be lit with "cold light" panels—plastic panels that are impregnated with a chemical that is activated in the presence of an electrical field. You'll see their use

in a minor way already—as touch plates that "glow in the dark."

- Plastic-coated wire. Easier to install, plastic-coated wire is less expensive than either metal-sheathed or rigid conduit wiring, and is equally safe.

PANELS ON YOUR WALLS

Paneled walls today are a far cry from the needlessly expensive paneled walls of yesterday. Prefinished panels of plywood, hardboard, and plastic are in abundance at building-material dealers, and in a range of wood tones grandfather never dreamed of. Some panels have been developed to fit an installation system requiring but a weekend of your work. These panels cost less than solid wood paneling, more than painting, about the same as some wallpapers, and the decorative effect is warm.

NEW PRODUCTS FOR YOUR FLOORS

A new world of color and pattern in resilient flooring has been opened up for you. Handsome blocks of rigid and flexible wood tile are available today. Ceramic floor tile installs faster and cheaper with adhesives and recently developed techniques. Vinyl flooring and vinyl-asbestos tile are household words today (and new methods permit installation on a slab foundation or in basements). A competitor for asphalt tile, which is neither asphalt nor vinyl, has appeared on the market.

Don't expect to save much money, but do expect to make your house more beautiful. Big savings will come when installation time can be cut drastically—a project that is constantly being researched by flooring firms.

FIREPLACE CONSTRUCTION SPEEDED

Conventional fireplace construction, assembled brick by brick, is slow and costly—often priced as high as \$1200. Three advances have altered this picture. They are: prefabricated fireplaces, fireplace forms, and the pre-engineered fireplace system. The prefab units go in fastest and could cost you as little as \$175 plus the chimney.

The forms are used as a framework for a conventional fireplace and achieve two things: a reduction in installation time and a trouble-free fireplace. All vital parts are precision made in the factory (damper, downdraft shelf, throat, etc.). With this type, a contractor can still make an error in flue size or chimney height.

With the third advance—a pre-engineered fireplace system—errors should be eliminated, since the chimney, chimney housing,

and fireplace are accurately sized at the factory.

REDUCTION IN AIR CONDITIONING COSTS

Prices for central air conditioning installed are at least \$1000 less than 1950 charges, and there's some rough-and-tumble competition in the field today which should bring prices down even more. Considering the fact that the industrial price level has soared 23.3 per cent in the same time, this price cut is a remarkable achievement, due almost entirely to intense research by the industry.

The units today are quieter, are nearly all air cooled (requiring less equipment and less maintenance), and are more compact.

Chilled water or "hydronic" cooling, developed to fit hot-water systems, has not yet been competitively priced for residential use, but may be soon.

CLEAR FINISH FOR WOOD

The handsome look of wood on your home can't be denied. Yet, those of you who have siding of clear cedar, redwood, or cypress are well aware of the problems of maintaining the finish. From the plastics industry comes a new finish of clear urethane. After considerable field testing, it appears that it will last about three times as long as conventional finishes. Price is in the neighborhood of \$8.50 a gallon.

THE END

HOW TO PUT THESE MATERIALS AND TECHNIQUES TO WORK

Don't be discouraged if you discover that your local building material dealer does not have one of the materials discussed here, or that your building inspector refuses to permit its use.

To solve the first problem, write to Building Products Editor, American Home, 300 Park Ave., New York 22, N.Y., for the name of the manufacturer. Then write the manufacturer and he will direct you to your nearest supplier.

To solve the second problem, remember that every modern building code has an appeal provision. If the inspector refuses the first time around, appeal it. You'll have good grounds, since every technique and product mentioned has been *proven in the field* except for those we've noted otherwise.

ACKNOWLEDGEMENT: We thank Ralph Johnson, Director of the Research Institute of the National Association of Home Builders, for his guidance in preparing this article. Without the aid of the Research Institute a good number of the products and techniques mentioned here would not have been developed.



Scroll Seat
Boston Rocker

No. 68-6DC

Regarded as a collector's item itself, this museum-piece reproduction of a rare Scroll Seat Rocker, is a chair of such craftsmanship and distinction, such comfort and charm, you will feel fortunate, indeed, to own one. It is a truly deluxe rocker... "the best of its kind."



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HELPFUL BOOKLETS YOU CAN SEND FOR

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Modern Home Laundry Planning Guide. This booklet will be helpful to those planning a new home laundry or remodeling an existing one. It offers detailed floor plans and colorful illustrations showing laundry centers in different parts of the house. Send 25c to Hamilton Manufacturing Company, Dept. 317AH, Two Rivers, Wis.

Sound Conditioning . . . New Comfort for Your Home. Explains how acoustical ceiling materials help eliminate the noise problem. Also describes types of acoustical materials available, where they should be used, and how they are installed. Single copies are free. Write to Armstrong Cork Company, Dept. AH, Lancaster, Pa.

Decor-Key Kit. This kit contains a booklet of decorating suggestions for window treatments, furniture arrangement, lighting, accessories, color. There is a color brochure of floor coverings with suggestions for co-ordinating them with other areas of a room. Free from Congoleum-Nairn, Inc., Dept. AH, 195 Belgrove Drive, Kearny, N.J.

Check-ups: Safeguarding Your Health. Discusses the importance of the periodic medical check-up both as an aid in improving normal health and in the early detection of disease. Includes advice on selecting a physician, and time and cost factors. Send 25c to Public Affairs Committee, 22 East 38th Street, New York 16, N.Y.

Tips for the Tidy. This booklet describes the use and care of the finished surfaces in the home. Includes an easy reference chart on cleaning different types of floor surfaces; information on caring for woodwork, appliances, walls, and mirrors; tips on organizing your work. Free from Betty Woods, Dept. AH, O-Cedar Home Service Institute, O-Cedar Corp., 2246 West 49th Street, Chicago 9 Ill.

Glorious Eating for Weight Watchers. This 100-page booklet is designed to help you control your weight without giving up delicious foods. It contains over 200 calorie-counted recipes from Italian spaghetti to peach upside-down cake. It also contains 12 complete daily menus, each presented on three separate calorie levels. Free from Wesson, Dept. AH, Box 777, Hinsdale, Ill.

Kirsch Guide to Window Beauty. There are 237 room scenes showing decorating treatments for a variety of window styles in almost every type of home. This guide also contains advice on color, fabrics, measuring and mounting drapery hardware, and making curtains and slipcovers. Send 25c to Kirsch Company, Dept. AH, 453 Prospect Street, Sturgis, Mich.

Today's Soaps and Detergents. A helpful booklet explaining the difference between soaps and detergents, how to use them, and when to use them. It considers such factors as your water supply, the fabric to be washed, and the type of washer used. Send 15c for Bulletin PNW 36 to Bulletin Clerk, Dept. AH, Extension Service, Oregon State University, Corvallis, Ore.

Phones and Families. Reviews the wide variety of telephone services now available for the home. Free from Customer Relations Service, Bell Telephone System, Room 540, Dept. AH, 195 Broadway, New York 7, N.Y.

Accents on You . . . Questions and answers on growing up for teenage girls. Free of charge from Dept. 1, Tampax Incorporated, 161 East 42nd Street, New York 17, N.Y.



You probably know that not all garden plants can be grown in all parts of the country. So whenever you like the picture or description of a plant in a garden book, catalogue, or advertisement, you'd probably like to know if the plant can be grown in your own garden.

Up to now it might have taken you considerable time and effort to find out. But with the Plant Hardiness Zone Map, which you'll find on the next page, and with the keyed plant lists beginning on page 66, it should be no trouble at all.

You first consult the map to learn in which hardiness zone you're located. (The zones shown are numbered 2 to 10.) Then you look up the plant to see if it's suitable for growing in your zone. That's all there is to it!

On the map you'll find guide cities located in various parts of each state. Since you'll know where you live in relation to several of the guide cities, you'll easily see in which zone you're located. If you wish to measure distances, an inch on the map represents about 165 miles.

When you turn to the plant lists, you'll find the different kinds of plants grouped under these convenient and easily recognizable headings: Coniferous Trees and Shrubs [Needled Evergreens] (page 66), Broadleaf Trees (66), Broadleaf Shrubs (67), Vines (70), Groundcovers (70), Garden Flowers—General (71), Garden Flowers—Bulbs and Tuberous Roots (73).

With each plant you'll find the zone range (e.g., Zones 5-8) in which it can be grown. In some cases the zone numbers are lettered a

and b. The a refers to the colder parts of each zone (more-northerly, at higher elevation, more distant from water, etc.). The b refers to the warmer parts (more southerly, at lower elevation, closer to water, etc.). Where you find a's or b's with the zone numbers you'll probably have no difficulty deciding whether you're located in the colder or warmer part of your zone.

The winter hardiness of any plant, as you probably know, is mostly dependent on how low a temperature that plant can stand. But various other factors are important, too. Some coniferous evergreens and most broadleaf evergreens are especially sensitive to high wind when accompanied by severe cold. The suddenness, duration, and time of occurrence of low temperatures affect the hardiness of almost all plants. Soil moisture, humidity, snow, and winter sunshine have a lot to do with some plants' survival. So do the way they're planted, and the size, age, and health of the plants themselves.

Therefore, when you find that our lists indicate that a certain plant can be grown in your hardiness zone, you should bear in mind that this means it will grow satisfactorily provided most other conditions, besides temperature, also are favorable.

Our zone ratings are intended to indicate zones of **satisfactory** adaptability of the plants listed. Many plants may survive in colder or warmer zones than those indicated. But in such cases mere survival may not represent satisfactory performance, and so unless you wish to

(continued on page 74)

Now you can choose plants with the help of the

On the next page we present a map that will help you select which of the popular trees, shrubs, and herbaceous perennials will grow in your climate

PLANT HARDINESS ZONE MAP



PLANT HARDINESS ZONE MAP

U.S. zones of plant hardiness, based on average minimum winter temperatures. How to use map is explained on page 63. Lists of plants, keyed to map, start on page 66.



APPROXIMATE RANGE
OF AVERAGE ANNUAL
MINIMUM TEMPERATURES

ZONE	
2	-50° to -40°
3	-40° to -30°
4	-30° to -20°
5	-20° to -10°
6	-10° to 0°
7	0° to 10°
8	10° to 20°
9	20° to 30°
10	30° to 40°

ZONE 1 (BELOW -50°) IS NOT SHOWN

Plant Hardiness Ratings

CONIFEROUS TREES & SHRUBS (NEEDED EVERGREENS)

	Zones
ARAUCARIA	
Bunya-Bunya Tree (<i>A.bidwilli</i>)	9-10
Monkey-Puzzle Tree (<i>A.araucana</i>)	7b-10
Norfolk Island Pine (<i>A.excelsa</i>)	10-10

ARBORVITAE	
American (<i>Thuja occidentalis</i>), including 'Globe,' 'Pyramidal,' 'Wareana'	3-8
'Nigra,' 'Woodward'	4-8
Oriental (<i>T.orientalis</i>), including 'Baker,' 'Bonita,' 'Golden,' 'Pyramidal,' 'Texas Blue'	6-10a

AUSTRALIAN PINE or BEEFWOOD	
Australian Pine (<i>Casuarina cunninghamiana</i>)	9b-10
Coast Beefwood (<i>C.stricta</i>)	9-10
Horseshoe Beefwood (<i>C.equisetifolia</i>)	9-10

CEDAR	
Atlas (<i>Cedrus atlantica</i>)	7-9
Cedar of Lebanon (<i>C.libani</i>)	6-9
Deodar (<i>C.deodara</i>)	7-9
Incense—see Incense Cedar	
Nootka—see False-Cypress	
Port Orford—see False-Cypress	
Red—see Juniper	
Silver—see Juniper	

CHAMAECYPARIS —see False-Cypress	
CRYPTOMERIA, JAPANESE (<i>C.japonica</i>)	6b-9a

CYPRESS	
Arizona (<i>Cupressus arizonica</i>)	6b-9
Bald (<i>Taxodium distichum</i>)	5-10
Dawn—see Redwood	
False—see False-Cypress	
Forbes or Tecate (<i>C.forbesi</i>)	7-9
Italian (<i>C.sempervirens</i>), including 'Blue,' 'Columnar,' 'Spreading'	7b-9
Monterey (<i>C.macrocarpa</i>)	7b-9b
Montezuma (<i>T.mucronatum</i>)	8-10
Nootka—see False-Cypress	

FALSE-CYPRESS or RETINOSPORA	
Hinoki (<i>Chamaecyparis obtusa</i>)	5-8
Lawson or Port Orford Cedar (<i>C.lawsoniana</i>), including 'Birdsnest,' 'Blue,' 'Golden,' 'Ellwood,' 'Dwarf,' 'Silver'	6b-9a
Nootka, Alaska or Yellow (<i>C.nootkatensis</i>)	5b-9a
Sawara (<i>C.pisifera</i>), including 'Plume,' 'Moss,' 'Golden,' 'Thread'	5-9

FIR	
Balsam (<i>Abies balsamea</i>)	3-7
Cork (<i>A.lasiocarpa arizonica</i>)	5-7
Douglas (<i>Pseudotsuga taxifolia</i>)	3b-9
White or Silver (<i>A.concolor</i>)	4-8

HEMLOCK	
Canada (<i>Tsuga canadensis</i>)	3-9a
Carolina (<i>T.caroliniana</i>)	5-8a

INCENSE CEDAR, CALIFORNIA (<i>Libocedrus decurrens</i>)	6-9
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JUNIPER	
Chinese (<i>Juniperus chinensis</i>), including 'Armstrong,' 'Hetz,' 'Japanese,' 'Keteleer,' 'Pfitzer,' 'Pyramidal,' 'Sargent,' 'Twisted,' 'Weaver'	4-10
Common (<i>J.communis</i>), including 'Prostrate,' 'Swedish,' 'Irish'	3-9
Creeping (<i>J.horizontalis</i>), including 'Andorra,' 'Bar Harbor,' 'Glaucia,' 'Waukegan'	3-9
Jaggarden (<i>J.procumbens</i>)	4-9
Meyer (<i>J.squamata meyeri</i>)	5-9
Red Cedar, Eastern (<i>J.virginiana</i>)	3-10
Red Cedar, Southern (<i>J.silicicola</i>)	8-10
Red Cedar, Western, or Rocky Mountain Juniper (<i>J.scopulorum</i>), including 'Silver Glow,' 'Silver Beauty,' 'Springtime,' 'Colo-Green,' 'Admiral,' 'Platinum'	3-10
Savin (<i>J.sabina</i>)	3-9
Tamarix (<i>J.s.tamaricifolia</i>)	5-10
Shore (<i>J.conferta</i>)	5b-10
Spiny Greek (<i>J.excelsa stricta</i>)	6b-9

LARCH	
Eastern (<i>Larix laricina</i>)	2-8
European (<i>L.decidua</i>)	3-9
Western (<i>L.occidentalis</i>)	5-9

METASEQUOIA —see Redwood	
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MONKEY-PUZZLE TREE —see Araucaria	
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PINE	
Aleppo (<i>Pinus halepensis</i>)	8-10
Australian—see Australian Pine	
Austrian (<i>P.nigra</i>)	4-8
Canary (<i>P.canariensis</i>)	8-10
Fern—see Podocarpus	

	Zones
Himalayan (<i>P.griffithii</i>)	6-9
Italian Stone (<i>P.pinea</i>)	8-10
Japanese Black (<i>P.thunbergii</i>)	5b-9
Japanese Red (<i>P.densiflora</i>)	5-8
Jelesote (<i>P.patula</i>)	8-10
Limber (<i>P.flexilis</i>)	3b-9
Monterey (<i>P.radiata</i>)	7b-9
Mugho (<i>P.mugo mughus</i>)	3-8
Norfolk Island—see Araucaria	
Norway or Red (<i>P.resinosa</i>)	3-8
Scotch (<i>P.sylvestris</i>)	3-8a
Swiss Stone (<i>P.cembra</i>)	3-8
White, Eastern (<i>P.strobus</i>)	3b-9a
Yew—see Podocarpus	

PLUM-YEW	
Japanese (<i>Cephalotaxus drupacea</i>)	6-8
Chinese (<i>C.fortunei</i>)	7-9a

PODOCARPUS	
Fern Pine (<i>P.elongatus</i>)	9-10
Yew Pine (<i>P.macrophyllus</i>)	8b-10

REDWOOD (<i>Sequoia sempervirens</i>)	7b-9a
REDWOOD, DAWN (<i>Metasequoia glyptostroboides</i>)	5b-9

RETINOSPORA —see False-Cypress	
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SEQUOIA, GIANT (<i>Sequoiadendron giganteum</i>)	7-8
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SPRUCE	
Black Hills (<i>Picea glauca densata</i>)	3-8
Colorado (<i>P.pungens</i>)	3-8a
Norway (<i>P.abies</i> , <i>P.excelsa</i>)	3-8a
Serbian (<i>P.omorika</i>)	4b-8
White (<i>P.glaucia</i>)	3-8

YEW	
Canada (<i>Taxus canadensis</i>)	3-9a
English (<i>T.baccata</i>), most forms 'Spreading'	7-9a
Intermediate (<i>T.media</i>), including 'Brown,' 'Hatfield,' 'Hicks'	5b-8
Japanese (<i>T.cuspidata</i>), most forms	6b-9a
Plum—see Plum-Yew	5-8

BROADLEAF TREES

ACACIA, ROSE —see Locust	
ACACIA, WATTLE, or MIMOSA —see also Shrub List	
Most kinds, including Cootamundra (<i>A.baileyana</i>) and Silver (<i>A.decurrans dealbata</i>)	9-10
Pearl (<i>A.podalyriaefolia</i>)	10-10

AILANTHUS —see Tree of Heaven	
ALBIZZIA —see Silk Tree	

ALDER	
Italian (<i>Alnus cordata</i>)	5b-9
Black or European (<i>A.glutinosa</i>)	4-8
White (<i>A.rhombifolia</i>)	6-9

ASH	
Blue (<i>Fraxinus quadrangulata</i>)	4-9a
Flowering (<i>F.ornus</i>)	6-9
Green (<i>F.pennsylvanica lanceolata</i>)	3-9a
Mountain—see Mountain Ash	
Velvet (<i>F.velutina</i>), including 'Modesto' and 'Montebello'	6-9
White (<i>F.americana</i>)	4-8

AZARA, LANCELEAF (<i>A.lanceolata</i>)	9-10
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BANYAN —see Ficus	
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BASSWOOD —see Linden	
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BAY	
Loblolly—see Gordonia	
Red or Bull (<i>Persea borbonia</i>)	7b-10
Sweet—see Laurel and Magnolia	

BEECH	
American (<i>Fagus grandifolia</i>)	4b-8
European (<i>F.sylvatica</i>), including 'Weeping' and 'Purpleleaf'	5-8

BELL FLAMBEAU or AFRICAN TULIP TREE (<i>Spathodea campanulata</i>)	10-10
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BIRCH	
Canoe or Paper (<i>Betula papyrifera</i>)	2-8
Chinese Paper (<i>B.albo-sinensis</i>)	6-9a
European White (<i>B.pendula</i>)	3-8
Gray or Clump (<i>B.populifolia</i>)	4b-8a

BIRD-OF-PARADISE BUSH —see Poinciana	
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BLACKHAW (<i>Viburnum prunifolium</i>)	4-8
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BOTTLE TREE or FLAME TREE	
Flame Tree (<i>Brachychiton acerifolium</i>)	9-10
Kurrajong (<i>B.populneum</i>)	9b-10

BOX, BRISBANE (<i>Tristania conferta</i>)	9b-10
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BOX ELDER —see Maple	
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BUCKEYE —see Horse Chestnut	
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CAJUPUT or PUNK TREE (<i>Melaleuca leucadendron</i>)	9b-10
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CAMPHOR TREE (<i>Cinnamomum camphora</i>)	8b-10
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CANDLENUT or VARNISH TREE (<i>Aleurites moluccana</i>)	9b-10
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CAPE CHESTNUT (<i>Calodendrum capensis</i>)	9-10
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CAROB or ST. JOHN'S BREAD TREE (<i>Ceratonia siliqua</i>)	9-10
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CASSIA or SHOWER	
Candle Shower (<i>Cassia alata</i>)	9-10
Golden Shower (<i>C.fistula</i>)	10-10
Java Shower (<i>C.javanica</i>)	10-10

CATALPA or INDIAN BEAN	
Common or Southern (<i>C.bignonioides</i>)	5-9
Western or Northern (<i>C.speciosa</i>)	5-9

CHASTE TREE (<i>Vitex agnus-castus</i>)	5b-9
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CHERRY, ORNAMENTAL	
Brush or Surinam—see Eugenia	
Cornelian—see Dogwood	
Oriental or Japanese Flowering (<i>Prunus</i> species and hybrids)	6b-9a
Most named varieties	
Hardest, including <i>P.sargentii</i> and <i>P.yedoensis</i>	6-8

CHINABERRY or TEXAS UMBRELLA TREE (<i>Melia azedarach</i>)	7b-10a
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CHITTAMWOOD or WOLLY BUCKET (<i>Bumelia lanuginosa</i>)	6-9
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CHRISTMAS TREE —see Iron Tree	
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CORK OAK, AMUR (<i>Phellodendron amurense</i>)	3b-9a
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COTTONWOOD —see Poplar	
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CRABAPPLE, ORNAMENTAL FLOWERING	
(<i>Malus</i> species and hybrids)	
Most named varieties	4-9a
Hardest, including 'Bechtel' (<i>M. ioensis plena</i>) and 'Siberian' (<i>M.baccata</i>)	3-8

CRAPMYRTLE (<i>Lagerstroemia indica</i>)	7-9
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CUCUMBER TREE —see Magnolia	
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DESERT WILLOW (<i>Chilopsis linearis</i>)	6b-10
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DEVILWOOD (<i>Osmanthus americanus</i>)	7-9
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DOGWOOD	
Cornelian Cherry (<i>Cornus mas</i>)	5-8
Evergreen (<i>C.capitata</i>)	8-9a
Flowering (<i>C.florida</i>)	5-9
Japanese (<i>C.kousa</i>)	5b-9a
Pacific or Western (<i>C.nuttallii</i>)	7-9a

DOVETREE (<i>Davidia involucreata</i>)	6b-9a
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ELM	
American (<i>Ulmus americana</i>)	2-8
Chinese (<i>U.parvifolia</i>)	6-9
Evergreen (<i>U.parvifolia semper-virens</i>)	8-10
Scotch (<i>U.glabra</i>)	5-9a
Siberian (<i>U.pumila</i>)	3b-10
Smoothleaf (<i>U.carpinifolia</i>)	
'Christine Buisman'	5-9
Winged or Wahoo (<i>U.alata</i>)	5b-9a

EMPRESS TREE (<i>Paulownia tomentosa</i>)	6-9
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EUCALYPTUS or GUM	
Most kinds	9-10
Cider (<i>E.gunni</i>) and Snow (<i>E.perriniana</i>)	8-10
Snowland (<i>E.niphophila</i>)	7b-10

EUGENIA	
Brush Cherry (<i>E.paniculata</i>)	9-10
Surinam Cherry (<i>E.uniflora</i>)	9b-10

FICUS or FIG	
Banyan (<i>Ficus benghalensis</i>)	9b-10
Fiddleleaf Fig (<i>F.flyrata</i>)	9b-10
Moreton Bay Fig (<i>F.macrophylla</i>)	9b-10
Rubber Plant (<i>F.elastica</i>)	10-10

FIREWHEEL TREE (<i>Stenocarpus sinuatus</i>)	9-10
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FLAME TREE —see Bottle Tree and Poinciana	
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FRANKLINIA (<i>F.alatamaha</i>)	6b-9a
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GINKGO or MAIDENHAIR TREE (<i>G.biloba</i>)	5-9
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GOLDEN CHAIN TREE —see Laburnum	
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GOLDEN RAIN TREE	
Koelreuteria paniculata	6-8
K.formosanum	9b-10

GOLD TREE —see Trumpet Tree	
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GORDONIA or LOBLOLLY BAY	
<i>G.lasianthus</i>	7b-10a

GUAVA, STRAWBERRY (<i>Psidium cattleianum</i>)	8b-10
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GUM	
Sour—see Sourgum	
Sweet—see Sweetgum	

GUM TREE —see Eucalyptus	
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HACKBERRY	
Common (<i>Celtis occidentalis</i>)	4b-9a
Sugar (<i>C.laevigata</i>)	6-9

HAW, BLACK —see Blackhaw	
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HAWTHORN (<i>Crataegus</i>)	
Most species	5-9a

HICKORY (<i>Carya</i>)	
Most species	5-8

HOLLY —see also Shrub List	
American (<i>Ilex opaca</i>)	6-10
English (<i>I.aquifolium</i>)	7-9a

HONEY LOCUST (<i>Gleditsia tricanthos</i>), including 'Moraine,' 'Sunburst,' 'Shademaster,' etc.	4b-9
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HORSE CHESTNUT or BUCKEYE	
Common Horse Chestnut (<i>Aesculus hippocastanum</i>)	3b-9a
Ohio Buckeye (<i>A.glabra</i>)	4-8
Red or Ruby Horse Chestnut (<i>A.carnea brioti</i>)	4-9a

IRON TREE or CHRISTMAS TREE (<i>Metrosideros tomentosa</i>)	9-10
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JACARANDA, SHARPLEAF (<i>J.acutifolia</i>)	9b-10
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JERUSALEM THORN (<i>Parkinsonia aculeata</i>)	8b-10a
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JUDAS TREE —see Redbud	
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JUJUBE (<i>Ziziphus jujuba</i>)	5b-10a
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KAFIR PLUM (<i>Harpephyllum caffrum</i>)	9b-10
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KAPOK or SILK COTTON TREE (<i>Ceiba pentandra</i>)	10-10
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KATSURA TREE (<i>Cercidiphyllum japonicum</i>)	4b-9a
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KENTUCKY COFFEE TREE (<i>Gymnocladus dioica</i>)	5-8
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LABURNUM or GOLDEN CHAIN TREE	
<i>L.anagyroides</i>	6-8
<i>L.watereri</i> (<i>L.vossi</i>)	5b-8

LAUREL or SWEET BAY (<i>Laurus nobilis</i>)	8-10a
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LILAC —see also Shrub List	
Japanese Tree (<i>Syringa amurensis japonica</i>)	5-8

LILY-OF-THE-VALLEY TREE (<i>Clethra arborea</i>)	9b-10
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LINDEN or BASSWOOD	
American Linden (<i>Tilia americana</i>)	4-8
European Linden (<i>T.europaea</i>)	4b-9a
Littleleaf Linden (<i>T.cordata</i>)	4b-9a
Silver Linden (<i>T.tomentosa</i>)	4-9

	Zones		Zones		Zones		Zones
Water (Q.nigra)	6b-10a	SILVERBELL (Halesia carolina)	5-9a	ANISE, FLORIDA (Illicium floridum)	7b-9	Pink Powder Puff (C.inaequil-atera)	9b-10
White (Q.alba)	4-9a	Mountain (H.monticola)	5b-8	ARALIA		CALLICARPA or BEAUTYBERRY	
Willow (Q.phellos)	6-9	Two-Wing (H.diptera)	6b-9	Chinese Angelica Tree (Aralia chinensis)	6-10	Beautyberry (C.dichotoma)	6-9a
OLIVE, RUSSIAN —see Russian Olive		SNOWBELL		Fivefinger (Acanthopanax sieboldianus or A.pentaphylla)	5b-8a	Violet Jewel Berry (C.bondinieri)	6-9a
ORANGE, HARDY —see Poncirus		Fragrant (Styrax obassia)	6b-9a	Japonica or Sieboldi—see Fatsia		CAMELLIA	
ORCHID TREE (Bauhinia variegata)	9b-10	Japanese (S.japonica)	6-9a	Papyrifera—see Rice Paper Plant		Common (C.japonica), including varieties	7-10a
PAGODA TREE —see Sophora		SOPHORA		ARDISIA		Sasanqua (C.sasanqua), including varieties	7b-10a
PALM		Japanese Pagoda Tree (Sophora japonica)	5b-9	Coral (A.crispa)	8b-10a	CANARYBIRD BUSH (Crotalaria agatifolia)	9b-10
Coconut (Cocos nucifera)	10-10	Mescal Bean Sophora (S. secundiflora)	7-9	Japanese (A.japonica)	7b-9	CAPE JASMINE —see Gardenia	
Date: Canary Island (Phoenix canariensis)	9-10	SORREL or SOURWOOD (Oxydendrum arboreum)	5-8	AUCUBA, JAPANESE (Aucuba japonica), including varieties	7b-10a	CARDINAL SHRUB —see Weigela	
Pigmy (P.roebeleni)	9b-10	SOUR GUM or TUPELO (Nyssa sylvatica)	5-9a	AZALEA (Rhododendron)		CARISSA	
Senegal (P.reclinata)	9b-10	STEWARTIA —see also Shrub List		Species: Flame (R.calendulaceum)	5b-8	Natal Plum (C.grandiflora), including 'Boxwood Beauty,' 'Natal Creeper,' etc.	9b-10
Fan: California or Native (Washingtonia filifera)	9a-10	Japanese (S.pseudo-camellia)	6-9a	Hiryu (R.obtutum), including 'Hinodegiri' and 'Hinode-Crimson'	6b-9	CASSIA or SENNA	
European or Mediterranean (Chamaerops humilis)	9-10	STRAWBERRY TREE (Arbutus unedo)	8-10	Korean (R.mucronulatum)	5b-8	Feathery or Wormwood (C.artemisioides)	9-10a
Guadalupe (Erythra edulis)	9b-10	SUGAR PLUM TREE —see Primrose Tree		Pinkshell (R.vaseyi)	5-9	Golden Wonder (C.splendida)	9-10a
Mexican (Washingtonia robusta)	9a-10	SWEET BAY —see Magnolia		Pinxterbloom (R.nudiflorum)	4b-9	CEANOTHUS or WILD LILAC	
Household (Chamaedorea elegans)	9b-10	SWEET GUM		Roseshell (R.roseum)	4-8	Blue-Blossom (C.thyriflorus)	8-10
King (Archontophoenix cunninghamiana)	10-10	Liquidambar styraciflua	6-10a	Rhodora (R.canadense)	3-7	Carmel (C.griseus)	8-10
Palmetto: Cabbage (Sabal palmetto)	9-10	L.formosa	7-10	Royal (R.schlippenbachii)	5b-9	Holly-Leaf (C.purpureus)	7b-10
Saw (Serenoa repens)	9-10	SWEETLEAF, ASIATIC (Symplocos paniculata)	5b-8	Snow (R.mucronatum)	6-9	New Jersey Tea (C.americanus)	4-9
Pindo (Butia capitata)	8b-10	SYCAMORE —see Plane		Swamp (R.viscosum)	4-8	Point Reyes (C.gloriosus)	8-10
Queen (Arecastrum romanzoffianum)	9b-10	TALLOW TREE, CHINESE (Sapium sebiferum)	8b-9	Sweet (R.arborescens)	5-9	San Diego (C.cyanus), including 'Sierra Blue,' 'Mountain Haze,' etc.	8-9
Royal, Cuban (Roystonea regia)	10-10	TEA TREE, AUSTRALIAN (Leptospermum laevigatum)	9-10	Hybrids: Exbury	5-7b	Santa Barbara (C.impressus)	8-10
Sago (Cycas revoluta)	9-10	THORN —see Hawthorn		Ghent	5-8	CHASTE TREE (Vitex agnus-castus)	7-9
Sargent Cherry (Pseudophoenix sargentii)	10-10	TIPU TREE (Tipuana tipu)	9-10	Glenn Dale	7-9	'Latifolia' or 'Macrophylla'	5b-9
Windmill (Trachycarpus fortunei)	8b-10	TREE-OF-HEAVEN (Ailanthus altissima)	5-9	Indian, Southern	8-10a	CHERRY	
PAULOWNIA —see Empress Tree		TRUMPET TREE or SILVER or GOLD TREE (Tabebuia argentea)	9b-10	Indian, Belgian	9-10	Australian Bush—see Eugenia	
PAWPAW (Asimina triloba)	5b-8	TULIP TREE (Liriodendron tulipifera)	5-9	Kaempferi (Torch)	5b-9a	Barbados—see Malpighia	
PEACH, FLOWERING (Prunus persica)	6-8	TULIP TREE, AFRICAN —see Bell Flambeau		Kurume	7-10a	Most shrub kinds—see Prunus	
PEAR, EVERGREEN or FLOWERING (Pyrus kawakami)	8b-10	TUNG-OIL TREE (Aleurites fordii)	9-10	Macrantha	7-10a	CHINESE HAT PLANT (Holmskioldia sanguinea)	9b-10
PECAN (Carya pecan)		TUPELO —see Sour Gum		Mollis	5-7b	CHOKEBERRY	
Most kinds	7-10a	UMBRELLA TREE —see Chinaberry		Rutherford	9-10	Black (Aronia melanocarpa)	4-8
Hardest	6-9	VARNISH TREE —see Candelnut		BANANA, ABYSSINIAN (Musa ensete)	10-10	Red (A.arbutifolia)	4-9a
PEPPER TREE		WALNUT		BANANA SHRUB (Michelia fuscata)	8-10	CHRISTMAS BERRY or TOYON (Heteromeles arbutifolia)	8b-10
Brazil (Schinus terebinthifolius)	9b-10	Eastern Black (Juglans nigra)	5-8	BARBERRY		CLERODENDRUM or GLORY BOWER	
California (S. molle)	9-10	English or Persian (J.regia)	7-10a	Coral (Berberis stenophylla)	7-9a	Harlequin Glory Bower (C.trichotomum)	6b-10
PERSIMMON		Most varieties	7-10a	Darwin (B.darwini)	8-9a	Kashmir Bouquet (C.bungei)	8b-10
Common (Diospyros virginiana)	5b-9	Hardest varieties	5b-9	Japanese (B.thunbergii), including 'Red' or 'Purple Leaf' ('Atropurpurea') and 'Crimson Pigmy'	3-10a	CLEYERA —see Eurya	
Japanese or Kaki (D.kaki)	7b-10a	WATTLE —see Acacia		Mentor or Greenleaf (B.mentor-ensis)	3b-9	COPPERLEAF (Acalypha wilkesiana) and varieties	9b-10
PISTACH, CHINESE (Pistacia chinensis)	6b-9	WILLOW		Threespine (B.tricanthophora)	6-9	CORALBERRY or INDIAN CURRANT	
PLANE or SYCAMORE		Black (Salix nigra)	4-8	Warty (B.verruculosa)	3b-9	Symphoricarpos orbiculatus	3b-9
American (Platanus occidentalis)	5-9	Corkscrew or Hankow Contorted (S. matsundana tortuosa)	5-8	Wintergreen (B.julianae)	5b-10a	S.chenaulti	5b-9
California (P.racemosa)	7-10	Desert—see Desert Willow		BAUHINIA, RED (B.galpini)	9b-10	'Hancock'	5-9
London (P.acerifolia)	5b-9	Laurel (S.pentandra)	3-8	BAYBERRY (Myrica pennsylvanica)	4b-8	CORAL TREE, COCKSPUR (Erythrina crista-galli)	8-10a
Oriental (P.orientalis)	7-9	Pussy (S.discolor)	3-9	BEAUTYBERRY —see Callicarpa		COTONEASTER	
PLUM		Weeping: Babylon (S.babylonica), including 'Ram's Horn' and 'Niobe'	5-9	BEAUTYBUSH (Kolkwitzia amabilis)	5-9	Cherry Bush (C.zabeli)	6-9
Blireiana (Prunus blireiana), including 'Newport' and 'Ruby Tree'	4-10a	Thurlo (S.elegantissima)	5-9	BIRD-OF-PARADISE BUSH —see Poinciana		Cranberry (C.apiculata)	5b-9
Kafir—see Kafir Plum		Wisconsin (S.blanda)	4-9	BITTERSWEET, EVERGREEN —see Euonymus		Creeping (C.adpressa)	5b-9
Pissard (P.cerasifera atropurpurea)	5-10a	Yellowstem (S.alba vitellina)	3-8	BLEEDINGHEART —see Clerodendrum		Franchet (C.franchetii)	7-10a
POINCIANA		YELLOW-WOOD (Cladastria lutea)	5b-8	BLUEBEARD or BLUE SPIREA (Caryopteris incana), including 'Blue Mist' and 'Heavenly Blue'	5-10a	Necklace (C.conspicua decora)	7-10a
Bird-of-Paradise Bush (Poinciana gilliesii)	8-10	ZELKOVIA, JAPANESE (Zelkovia serrata)	5b-8	BOTANICAL WONDER —see Fatsydera		Peking (C.acutifolia)	3-9
Royal or Flame Tree (Delonix regia)	10-10			BOTTLE BRUSH (Callistemon and Melaleuca species)	8b-10	Red Clusterberry (C.parneyi)	7b-10a
POPLAR and COTTONWOOD				BOUVARDIA (B.humboldtii)	9b-10	Rockspray (C.horizontalis)	6-10a
Carolina Poplar (Populus canadensis)	4b-8			BOX or BOXWOOD		Silverleaf (C.pannosa)	7b-10a
Lanceleaf Poplar (P.acuminata)	3b-7			African (Myrsine africana)	8b-10	Small-Leaf (C.microphylla)	7-10a
Lombardy Poplar (P.nigra italica)	4b-8			Common or English (Buxus sempervirens)	6-9a	Spreading (C.divaricata)	5b-9
Western Cottonwood (P.sargentii)	3-8			'Edging,' 'Golden,' 'Variegated'	7-8	Sungari (C.racemiflora soon-gorica)	4b-9
White Poplar (P.alba), including 'Boleana'	4-9			Harland (B.harlandi)	7-9a	White-Leaved or Bright-Bead (C.glaucophylla)	7b-10
PRIMROSE or SUGAR PLUM TREE (Lagunaria patersoni)	9-10			Littleleaf (B.microphylla)	6-9	Willowleaf (C.salicifolia)	6b-9
PUNK TREE —see Cajepit				'Japanese'	6-10a	CRANBERRY BUSH —see Viburnum	
QUEENSLAND NUT (Macadamia ternifolia)	9b-10			'Korean'	5-8	CRAPMYRTLE (Lagerstroemia indica)	7-10a
REDBUD or JUDAS TREE				Victorian—see Pittosporum		CROTALARIA —see Canarybird Bush	
Chinese (Cercis chinensis)	6b-10a			BOX-ORANGE, CHINESE, or BOXTHORN (Severina buxifolia)	9-10	CROTON (Codiaeum variegatum and varieties)	9b-10
Eastern (C.canadensis)	5b-9			BREATH-OF-HEAVEN, PINK (Coleanema pulchrum)	9-10	CURRENT	
Western (C.occidentalis)	7b-9			BRIDALWREATH —see Spirea		Alpine (Ribes alpinum)	2-7
ROSE ACACIA —see Locust				BROOM		Clove or Flowering (R.odoratum)	3-8a
RUBBER PLANT —see Ficus				Provence (Cytisus purgans)	7-8	CYDONIA —see Quince	
RUSSIAN OLIVE (Elaeagnus angustifolia)	3-9			Scotch (C.scoparius)	6-8	DAHOON —see Holly	
SASSAFRAS (S.albidum)	5-9			Spanish (C.junceum)	6-9a	DAISY BUSH, NEW ZEALAND (Olearia haasti)	8-10
SAUSAGE TREE (Kigelis pinnata)	10-10			Warminster (C.praecox)	6-8	DAPHNE	
SEA GRAPE (Coccolobis uvifera)	10-10			Hybrids	7-8	February (D.mezereum)	5-8
SHADBLOW or SERVICEBERRY (Amelanchier canadensis)	3b-9a			BURNING BUSH —see Euonymus		Lilac (D.genkwa)	5-9a
SHOWER —see Cassia				BUSH-CLOVER, JAPANESE (Lespedeza japonica)	6-9	Rose (D.cneorum)	5b-8a
SILK TREE or MIMOSA (Albizia julibrissin)	7-10a			BUSHMAN'S POISON —see Acokanthera		Winter (D.odorata)	7b-10a
Pink (A.j.rosea)	6-9			BUTTERFLY BUSH or SUMMER LILAC		DAUBENTONIA or RATTLEBOX	
				Orange-Eye (Buddleia davidii), including hybrids	6-9	Scarlet Wisteria Tree (D.tripeti)	8b-10
				Fountain (B.alternifolia)	5b-9	Sesban or Red Locust (D.punicea)	9-10
				CALLIANDRA		DEUTZIA	
				Trinidad Flame Bush (C.guilingi)	9b-10	Elegant (D.elgantissima)	6-9
						Lemoine (D.lemoinei)	4b-8
						Most other varieties	5-8

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	Zones		Zones		Zones
DOGWOOD —see also Tree List Red Osier (<i>Cornus stolonifera</i>), including 'Goldentwig,' 'Col- orado,' etc.	3-8	including 'Purple-Leaved' and 'Contorted'	5b-9	Chinese (<i>Syringa chinensis</i>)	3b-7b
Siberian or Tatarian (<i>C. alba</i>), including 'Coral Beauty,' 'Bailey,' 'Variegated,' etc.	3-8	Winter—see Winter Hazel Witch—see Witch-Hazel		Common (<i>S. vulgaris</i>), including 'French' hybrids	3b-8a
DURANTA Brazil Skyflower (<i>D. stenostachya</i>)	9b-10	HEATH and HEATHER Black Eyed Heath (<i>E. melanthera</i>)	8b-10a	Daphne or Littleleaf (<i>S. micro- phylla</i>)	4-8a
Golden Dewdrop, Pigeon Berry, or Creeping Skyflower (<i>D. repens</i>)	9b-10	Cornish Heath (<i>Erica vagans</i> and varieties)	7-8	Hungarian (<i>S. josikaea</i>)	4-7b
ELAAGNUS —see also Tree List Gumi (<i>E. multiflora</i>)	5-9a	Irish Heath (<i>Daboecia cantabrica</i>)	7-9a	Japanese Tree (<i>S. amurensis ja- ponica</i>)	4b-8
Silverberry (<i>E. commutata</i>)	2b-7	Mediterranean Heath (<i>Erica mediter- ranea</i>)	7b-9a	Korean Early (<i>S. oblata dilatata</i>)	4b-8
Thorny (<i>E. pungens</i>), including 'Golden,' 'Fruitland,' 'Silver- edge,' etc.	7-10a	Scotch Heather or Ling (<i>Calluna vulgaris</i> and varieties)	5-8	Late (<i>S. villosa</i>)	3b-8a
ENKIANTHUS Redvein (<i>E. campanulatus</i>)	5-8	Spanish Heath (<i>E. lusitanica</i>)	8b-10a	Persian (<i>S. persica</i>)	5-8
White (<i>E. perulatus</i>)	5b-8	Spring Heath (<i>E. carnea</i> and varieties)	6-8	Summer—see Butterfly Bush	
ESCALLONIA Appleblossom (<i>E. viscosa</i>)	8b-10	HEAVENLY BAMBOO —see Nandina		LOCUST, RED —see Daubentonia	
Pink (<i>E. organensis</i>)	8b-10	HEBE or VERONICA Autumn Glory (<i>H. elliptica</i>)	8-10a	LUPINE, CANARY ISLAND —see Canary Island Lupine	
White (<i>E. montevidensis</i>)	8b-10	Boxleaf (<i>H. buxifolia</i>)	7b-10a	MAGNOLIA —see also Tree List Purple Lily (<i>M. liliflora nigra</i>)	6-9
EUONYMUS Burning Bush or Winged Spindle Tree (<i>E. alatus</i>)	3b-10a	<i>H. speciosa</i>	9-10	Star (<i>M. stellata</i>)	5b-9
Fernleaf (<i>E. nanus turkestanicus</i>)	3-7	HIBISCUS Chinese (<i>H. rosa-sinensis</i> and varieties)	9-10	MAHONIA or HOLLY-GRAPE Chinese (<i>M. lomarifolia</i>)	8b-10a
Green or Evergreen (<i>E. ja- ponicus</i>)	7b-10a	Confederate or Cotton-Rose (<i>H. mutabilis</i>)	9-10	Leatherleaf (<i>M. beali</i>)	7-10
Patens (<i>E. kiautschovica</i>)	6-10	Rose-of-Sharon or Shrub Althea (<i>H. syriacus</i> and varieties)	5b-10a	Oregon (<i>M. aquifolium</i>)	5b-9
Wintercreeper (<i>E. fortunei</i>), in- cluding 'Variegated'	6-10	HOLLY —see also Tree List Chinese (<i>Ilex cornuta</i>), includ- ing 'Burford' and other varieties	7b-10a	MALPIGHIA Barbados Cherry (<i>M. glabra</i>)	9-10
EURYA Cleyera (<i>Cleyera japonica</i> or <i>Eurya ochracea</i>), including 'Tricolor' or 'Variegated'	7b-10	Dwarf—see Malpighia		Dwarf-Holly (<i>M. coccigera</i>)	9-10
<i>Eurya (E. emarginata)</i>	8-10	Grape—see Mahonia		MELALEUCA —see Bottle Brush	
Ternstroemia (<i>T. gymnanthera</i> , often called <i>Cleyera ja- ponica</i>)	7b-10	Inkberry (<i>I. glabra</i>)	5-10a	MIRROR PLANT (<i>Coprosma baueri</i>)	9b-10
FATSHEDERA or BOTANICAL WONDER (<i>F. lizei</i>)	8-10	Japanese (<i>I. crenata</i> and varie- ties)	6b-9	MOCKORANGE Lemoine (<i>Philadelphus lemoinei</i>), including 'Avalanche,' 'Mont Blanc,' 'Innocence,' 'Belle Etoile'	5-9a
FATSIA, ARALIA, or GLOSSY- LEAVED RICE PAPER PLANT (<i>F. japonica</i>)	8-10	Long-Stalk (<i>I. pedunculosa</i>)	6-9	Sweet (<i>P. coronarius</i>)	4b-9a
FERN, SWEET —see Sweetfern		Wilson (<i>I. altaclarensis wilsoni</i>)	7b-9a	'Golden-Leaved'	4-9a
FIG, FIDDLELEAF (<i>Ficus lyrata</i> or <i>F. pandurata</i>)	9b-10	Winterberry or Black Alder (<i>I. verticillata</i>)	3b-8	Virginal (<i>P. virginialis</i>)	5-9a
FIRETHORN Pyracantha angustifolia	5b-10a	Yaupon (<i>I. vomitoria</i>)	7b-9	'Atlas,' 'Minnesota Snowflake,' 'Silver Stars'	4-9a
<i>P. coccinea</i> , including <i>P. c. lalandi</i> , <i>P. c. pauciflora</i> , 'Kasan,' 'Runyan,' etc.	5b-10a	HONEY BUSH (<i>Melanthus major</i>)	9b-10	MORNING-GLORY, BUSH Morocco (<i>Convolvulus cneorum</i>)	8-10
<i>P. crenato-serrata</i> , including 'Grabber' and 'Rosedale'	7b-10	HONEYSUCKLE —see also Vine List Amur (<i>Lonicera maackii</i>)	3-9	C. mauritanicus	9-10
<i>P. crenulata</i>	6b-10	Box (<i>L. nitida</i>)	7b-10	MOUNTAIN LAUREL (<i>Kalmia latifolia</i>)	5-9a
<i>P. koidzumi</i>	8-10	Lilac (<i>L. syringantha</i>)	4b-10a	MYRTLE —see also Groundcovers Myrtus communis, including 'Boxleaf,' 'Dwarf,' 'Variegated'	8b-10
FLAME BUSH, TRINIDAD —see Calliandra		Morrow (<i>L. morrowi</i>)	4b-9a	NANDINA or HEAVENLY BAMBOO (<i>N. domestica</i>)	7-9
FLAME-OF-THE-WOODS (<i>Ixora coccinea</i>)	9b-10	Privet (<i>L. pileata</i>)	6-10a	NATAL PLUM —see Carissa	
FLAME-PEA BUSH (<i>Chorizema varium</i>)	9-10	Tatarian (<i>L. tatarica</i>), including 'Clavey's Dwarf'	3-8	NEW ZEALAND FLAX (<i>Phormium tenax</i>)	9-10
FLANNEL BUSH (<i>Fremontia mexicana</i>)	8b-10	Winter (<i>L. fragrantissima</i>)	6b-9	NIGHTSHADE —see Solanum	
FLAX, YELLOW (<i>Reinwardtia indica</i>)	9-10	Zabel (<i>L. korolkowi zabeli</i>)	5-8	NINEBARK, EASTERN (<i>Physocarpus opulifolius</i>)	3b-9
FORSYTHIA or GOLDENBELL Early (<i>F. ovata</i>)	4b-8	HYDRANGEA French, House, or Big-Leaf (<i>H. macrophylla</i>)	7-10a	OCEAN SPRAY —see Rock Spirea	
Showy (<i>F. intermedia spectabilis</i>)	5b-8	'Blue Wave'	6b-10a	OLEANDER (<i>Nerium oleander</i>)	8b-10
Weeping (<i>F. suspensa</i>)	5b-8	'Nikko Blue'	5b-9	OLEANDER, YELLOW (<i>Thevetia nerifolia</i>)	9b-10
White—see Abelia-Leaf Hybrids such as 'Beatrix Farrand,' 'Lynwood Gold,' 'Spring Glory'	5b-8	Hills-of-Snow or Snowhill (<i>H. arbor- escens grandiflora</i>)	4-10a	OLIVE, SWEET —see Osmanthus	
'Arnold Dwarf'	4-8	Oak-Leaved (<i>H. quercifolia</i>)	5b-9	ORANGE Box—see Box-Orange Hardy (<i>Poncirus trifoliata</i>)	6b-10
FRINGETREE (<i>Chionanthus vir- ginicus</i>)	5-10a	Peegee (<i>H. paniculata grandiflora</i>)	4-10a	Mexican (<i>Choisya ternata</i>)	8-10
FUCHSIA Most kinds	9-10	HYPERICUM or ST. JOHN SWORT Aaron's Beard (<i>H. calycinum</i>)	6-10	OREGON GRAPE —see Mahonia	
Magellan (<i>F. magellanica</i>)	7b-10	Golden (<i>H. frondosum aureum</i>)	6-8	OSMANTHUS —see also Tree List Chinese (<i>O. armatus</i>)	7b-9
GARDENIA or CAPE JASMINE Gardenia jasminoides, including 'Mystery,' 'Veitchi,' 'Rad- icans,' etc.	8-10	Gold-Flower (<i>H. moserianum</i>)	7-10	Fortune's (<i>O. fortunei</i>)	8-10a
GENISTA —see Broom		Henry or Golden Cup (<i>H. patulum henryi</i>)	7b-10	Holly (<i>O. ilicifolius</i>)	7-10a
GERMANDER Bush (<i>Teucrium fruticans</i>)	8b-10	'Hidcote'	6-10	Orange (<i>O. aurantiacus</i>)	8b-10
Chamaedrys (<i>T. chamaedrys</i>)	6-10a	'Sungold'	5b-10	San Jose Hybrids	8-10
GLORY-BOWER —see Clerodendrum		Sunshine Shrub or Kalm (<i>H. kal- mianum</i>)	5-8	Sweet Olive (<i>O. fragrans</i>)	8b-10
GOLD DUST PLANT —see Aucuba		ILEX —see Holly		PACHISTIMA, CANBY (<i>P. canbyi</i>)	5-8a
GOLDENBELL —see Forsythia		INKBERRY —see Holly		PEA-BUSH, SWAN RIVER — see Scimitar Plant	
GOLDEN DEW DROP —see Duranta		JASMINE or JESSAMINE —see also Vines Cape—see Gardenia Italian (<i>Jasminum humile revo- lutum</i>)	7b-10	PEA-TREE, SIBERIAN Caragana arborescens	2b-9a
GUAVA Pineapple (<i>Feijoa sellowiana</i>)	8b-10a	Orange (<i>Murraea exotica</i>)	9b-10	C. pygmaea	3-9a
Strawberry (<i>Psidium cattlei- anum</i>)	9b-10	Parker (<i>J. parkeri</i>)	7b-10	PEARL BUSH (<i>Exochorda racemosa</i>)	5-9
HAWTHORN, INDIA —see Raphiolepis		Showy (<i>J. floridum</i>)	7b-10	PEPPER BUSH —see Summersweet	
HAZEL or FILBERT Corylus species and varieties,		Winter (<i>J. nudiflorum</i>)	6-9	PERNETTIA, CHILEAN (<i>P. mucronata</i>)	8-10a
		KASHMIR BOUQUET —see Clerodendrum		PHOTINIA Chinese (<i>P. serrulata</i>)	7b-10a
		KERRIA or GLOBE FLOWER (<i>K. japonica pleniflora</i>)	6a-9a	Japanese (<i>P. glabra</i>)	7b-9
		KING'S MANTLE (<i>Thunbergia erecta</i>)	9b-10	Oriental (<i>P. villosa</i>)	5b-9
		LANTANA (<i>L. camara</i>)	9-10	PIGEON BERRY —see Duranta	
		LAUREL —see also Tree List English or Cherry—see Prunus Mountain—see Mountain Laurel		PITTOSPORUM Japanese (<i>P. tobira</i>)	8-10
		LAURESTINUS —see Viburnum		Karo or Evergreen (<i>P. crassifolium</i>)	9-10
		LAVENDER-COTTON (<i>Santolina chamaecyparissus</i>)	7b-10	Queensland or Diamondleaf (<i>P. rhombifolium</i>)	9b-10
		LAVENDER STAR PLANT (<i>Grewia caffra</i>)	10-10	Rock (<i>P. heterophyllum</i>)	9b-10
		LAVENDER, TRUE (<i>Lavandula offici- nalis</i>)	6-10a	Tarata (<i>P. eugenoides</i>)	9b-10
		'Hidcote'	6-9	Tawhiwhi (<i>P. tenuifolium</i>)	9b-10
		LEADWORT —see Plumbago		Victorian Box (<i>P. undulatum</i>)	8b-10
		LEUCOTHOE, DROOPING (<i>L. catesbaei</i>)	5-9	PLUM, NATAL —see Carissa	
		LIGUSTRUM —see Privet		PLUMBAGO Cape (<i>P. capensis</i>)	9b-10
		LILAC California or Wild—see Ceanothus		Chinese or Willmott Blue Lead- wort (<i>Ceratostigma willmottii- anum</i>)	7-10a

Zones		Zones	
POINCIANA or BIRD-OF-PARADISE BUSH (P.gillesii)	8-10	SNAIL-SEED, LAUREL-LEAF (Cocculus laurifolius)	8-10
POINSETTIA (Euphorbia pulcherrima)	9b-10	SNOWBALL—see Viburnum	
POMEGRANATE (Punica granatum)	7b-10a	SNOWBERRY (Symphoricarpos albus)	3-9
POTENTILLA or BUSH CINQUEFOIL P.fruticosa	2b-9	SOLANUM, BLUE, or NIGHTSHADE (S.rantonnetii)	9b-10
'Gold Drop,' 'Katherine Dykes,' 'Moonlight,' 'Primrose Beauty'	3-9	SPINDLE TREE—see Euonymus	
POWDER PUFF, PINK—see Calliandra		SPIREA	
PRINCESS FLOWER (Tibouchina semi-decandra)	9b-10	Blue—see Bluebeard	
PRIVET or LIGUSTRUM		Bridalwreath (Spiraea prunifolia plena)	5-9
Amur (L.amurensis)	4b-9	Bumalda (S.bumalda) 'Anthony Waterer'	4-9a
Border (L.obtusifolium)	4-8	'Froebel'	5-9a
Regel's (L.o.regelianum)	5-9	S.b.crispa	5b-9a
California (L.ovalifolium)	6-10	Dwarf Bridalwreath (S.trilobata)	3b-9a
Chinese (Amur in South) (L.sin-ensis)	7-10	Garland (S.arguta)	4-9
Common (L.vulgare)	5-9	Mikado or Red (S.japonica coccinea)	5-9a
Glossy (L.lucidum)	7b-10	Reeve's (S.cantonensis)	6-9
Ibodium or Hardy California (L.ibodium)	5b-9	Rock—see Rock-Spirea	
Japanese (L.japonicum)	7b-10	Thunberg (S.thunbergi)	5-10a
'Suwanee River'	7-10	Vanhoutte (S.vanhouttei)	4-10a
Vicary Golden or Chartreuse Shrub (L.vicaryi)	5b-10	ST. JOHN SWORT—see Hypericum	
PRUNUS		STEPHANANDRA, CUTLEAF (S.incisa)	5b-9a
Catalina Cherry (P.lyoni)	8-10	STEWARTIA—see also Tree List	
Dwarf Flowering Almond (P.glandulosa)	4b-9	Showy (S.ovata grandiflora)	6-9
Carolina Cherry-Laurel (P.caroliniana)	7-10	STRAWBERRY TREE (Arbutus unedo)	8-10a
Flowering Almond or Rose Tree of China (P.triloba multiplex)	3b-8	SUMAC	
Nanking or Manchu Cherry (P.tomentosa)	3-9a	Fragrant (Rhus aromatica)	4-9
Portugal Laurel (P.lusitanica)	7b-10	Shining (R.copallina)	5-9
Purple-Leaf Sand Cherry (P.cistena)	3b-8	Staghorn (R.typhina)	3-9
Western Sand Cherry (P.besseyi)	3-8	SUMMERSWEET or PEPPER BUSH (Clethra alnifolia)	3b-9
PYRACANTHA—see Firethorn		SWEETFERN (Comptonia peregrina)	2b-8
QUINCE, FLOWERING, or CYDONIA (Chaenomeles lagenaria, C.japonica, and hybrids)	5-9a	SWEETPEA SHRUB (Polygala dalmatiana)	9-10
RAPHIOLEPIS		SWEETSHRUB or CAROLINA ALLSPICE (Calycanthus floridus)	5b-10a
India Hawthorn (R.indica)	8-10	SYRINGA—see Mockorange and Lilac	
Roundleaf (R.japonica)	8-10	TAMARISK or SALT-CEDRAR	
RHODODENDRON—see also Azalea		Five-Stamen (Tamarix pentandra)	3-8
California (R.macrophyllum)	7-9a	Kashgar (T.hispida)	5-9
Carolina (R.carolinianum)	5b-8a	TEA TREE	
Catawba (R.catawbiense) and hybrids	5-8a	Australian (Leptospermum laevigatum)	9b-10
Rosebay (R.maximum)	4-8	Dwarf Australian (L.reevesii)	9b-10
For additional species and garden hybrids, see hardiness ratings published by American Rhododendron Society, 3514 N. Russet St., Portland 17, Oregon.		Keatley (L.keatleyi)	9b-10
RICE PAPER PLANT (Tetrapanax papyriferum)	8-10a	'Ruby Glow'	9-10a
RICE PAPER PLANT, GLOSSY-LEAVED—see Fatsia		TERNSTROEMIA—see Eurya	
ROCK-ROSE		TOYON—see Christmas Berry	
Brown-Eyed (Cistus ladaniferus maculatus)	8-10a	UMBRELLA TREE—see Chinaberry	
Laurel (C.laurifolius)	7-9	VERBENA, LEMON (Lippia citriodora)	8b-10a
Purple or Orchid (C.purpureus)	8-10a	VERONICA—see Hebe	
White (C.hybridus)	8-10a	VIBURNUM	
ROCK-SPIREA (Holodiscus discolor)	5-9a	Arrow-Wood (V.dentatum)	3-8
ROCKSPRAY—see Cotoneaster		Black Haw (V.prunifolium)	3b-8
ROSE—see also Vines		Burkwood (V.burkwoodii)	5b-8
Bush Garden Types (Hybrid Tea, Grandiflora, Floribunda, Polyantha)—with protection	3b-9	Carles, Fragrant, Pink Snowball, or Korean Spice (V.carlesii)	5-9
Without protection	6-9	Cranberry Bush, American (V.trilobum)	2b-8a
Miniature—with protection	4-9	Cranberry Bush, European (V.opulus)	3-8a
Without protection	6-9	'Nanum'	4-8a
Hedge or Shrub Types		'Compactum'	3b-8a
Grootendorst	4-8	David (V.davidi)	7b-10a
Harrison's Yellow	5-9a	Doublefile (V.plicatum tomentosum)	5b-8
Multiflora	6-9a	Japanese (V.japonicum)	7-10a
Rugosa	3-8	Judd (V.juddi)	5b-9
Confederate—see Hibiscus		Laurestinus (V.tinus)	7b-10a
Rock—see Rock-Rose		Leather (V.rhytidophyllum)	6-9
ROSE-OF-SHARON—see Hibiscus		Linden (V.dilatatum)	5b-9a
ROSE TREE OF CHINA—see Prunus		Nannyberry (V.lentago)	3-8
RUBBER PLANT (Ficus elastica)	10-10	Sandankwa (V.suspensum)	8b-10a
SARCOCOCCA		Snowball, Chinese (V.macrocephalum)	7-8
Fragrant (S.ruscifolia)	7-10a	Snowball, Common (V.opulus roseum)	3b-8
Willowleaf (S.saligna)	7-10a	Snowball, Fragrant (V.carlcephalum)	5b-10a
Hooker (S.hookeriana humilis)	6-10a	Snowball, Japanese (V.plicatum)	5b-8
SCHEFFLERA (S.actinophylla)	10-10	Sweet (V.odoratissimum)	8-10a
SCIMITAR PLANT or SWAN RIVER PEA BUSH (Brachysema lanceolatum)	9b-10	Tea (V.setigerum)	6-9a
SENNA—see Cassia		Wayfaring Tree (V.lantana)	3-8
SESBAN—see Daubentonia		Wright (V.wrightii)	5b-9a
SILVERBERRY—see Elaeagnus		VITEX—see Chaste Tree	
SKIMMIA (S.japonica)	7b-10a	WATTLE—see Acacia	
SMOKE BUSH (Cotinus coggygia), including 'Purple-Leaved'	5b-9	WAXFLOWER, Geraldton (Chamaelium uncinatum or C.ciliatum)	9b-10
		WEIGELA	
		Most species and hybrid varieties	4b-9a
		WINTERBERRY—see Holly	
		WINTER-HAZEL	
		Chinese (Corylopsis sinensis)	6-9a
		Fragrant (C.glabrescens)	6-9a
		Spike (C.spicata)	6b-9a

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	Zones
WINTERSWEET (<i>Chimonanthus praecox</i>)	7b-9
See also <i>Acokanthera</i>	
WISTERIA-TREE—see <i>Daubentonia</i>	
WITCH-HAZEL	
Chinese (<i>Hamelis mollis</i>)	6-9
Common (<i>H. virginiana</i>)	4-8
Vernal (<i>H. nalis</i>)	5-8
YAUPON—see <i>Holly</i>	
YELLOW-BELLS, -TRUMPET, -ELDER (<i>Stenolobium stans</i>)	9b-10

VINES

AKEBIA, FIVE-LEAF (<i>A. quinata</i>)	5b-9
ALLAMANDA, YELLOW, or GOLDEN TRUMPET (<i>A. cathartica</i>)	9b-10
AMPELOPSIS, PORCELAIN (<i>A. brevipedunculata</i>)	5b-8
ASPARAGUS, FERN (<i>A. plumosus</i> and <i>A. sprengeri</i>)	9-10
BITTERSWEET	
American (<i>Celastrus scandens</i>)	4-8
Chinese (<i>C. loeseneri</i>)	4b-8
Evergreen—see <i>Euonymus</i>	
Oriental (<i>C. orbiculatus</i>)	5b-8
BLEEDINGHEART GLORYBOWER (<i>Clerodendrum thomsoniae</i>)	9b-10
BOUGAINVILLEA	
Most kinds	10-10
B. glabra varieties	9-10
CAT'S CLAW—see <i>Trumpet Vine</i>	
CLEMATIS	
Anemone (<i>C. montana</i>)	6b-10a
Armand (<i>C. armandi</i>)	7b-10
Cream (<i>C. florida</i>)	7b-9a
'Belle of Woking' and 'Duchess of Edinburgh'	6-8
Golden (<i>C. tangutica</i>)	3-10a
Jouin (<i>C. jouiniana</i>), including 'Mrs. Robert Brydon'	5b-8
Scarlet (<i>C. texensis</i>)	4b-8a
Sweet Autumn (<i>C. paniculata</i>)	4-9
"Large-Flowered Hybrids" (including <i>C. jackmani</i> and named hybrids of <i>C. lanuginosa</i> , <i>C. viticella</i> , etc.), most kinds	5-8
CLOCK VINE	
Bengal or Blue Sky Vine (<i>Thunbergia grandiflora</i>)	9b-10
Orange (<i>T. gibsoni</i>)	10-10
CORAL VINE (<i>Antigonon leptopus</i>)	9-10
CROSS VINE—see <i>Trumpet Vine</i>	
CUP-OF-GOLD VINE or GOLDCUP	
CHALICE VINE (<i>Solandra guttata</i>)	10-10
DUTCHMAN'S PIPE or PELICAN FLOWER	
<i>Aristolochia durior</i>	4b-9
<i>A. grandiflora</i>	10-10
EASTER LILY VINE—see <i>Trumpet Vine</i>	
EUONYMUS	
Wintercreeper (<i>E. fortunei</i>), most varieties	5-9a
Purpleleaf (<i>E. f. coloratus</i>)	4b-8
Silvered (<i>E. f. gracilis</i>)	6-9
Evergreen Bittersweet (<i>E. f. vegetus</i>)	5-9a
FATSHEDERA LIZEI or BOTANICAL WONDER	8-10
FIG, CREEPING (<i>Ficus pumila</i>)	9-10a
FLAME VINE—see <i>Trumpet Vine</i>	
GLORYBOWER—see <i>Bleedingheart</i>	
GLORY-PEA (<i>Clianthus damieri</i>)	9b-10
GRAPE IVY—see <i>Ivy</i>	
HERALD'S TRUMPET—see <i>Trumpet Vine</i>	
HONEYSUCKLE	
Cape (<i>Tecomaria capensis</i>)	9b-10
Everblooming (<i>Lonicera hecrotii</i>), including 'Gold Flame'	4b-9a
Hall's (<i>L. japonica halliana</i>)	5b-9a
Trumpet (<i>L. sempervirens</i>)	4b-9
HYDRANGEA, CLIMBING (<i>H. petiolaris</i>)	5-9a
IVY	
Algerian (<i>Hedera canariensis</i>)	8-10
Boston (<i>Parthenocissus tricuspidata</i>)	5-9
English (<i>Hedera helix</i>), most kinds	6-10
'Baltic'	5b-9
Grape (<i>Cissus rhombifolia</i>)	10-10
Kangaroo (<i>C. antarctica</i>)	10-10
Marine or Treebine (<i>C. incisa</i>)	6b-9
JASMINE or JESSAMINE	
Carolina or Yellow (<i>Gelsemium sempervirens</i>)	7b-10a
Gold Coast (<i>Jasminum dichotomum</i>)	10-10
Madagascar—see <i>Madagascar Jasmine</i>	
Primrose (<i>J. mesnyi</i>)	8b-10a
Star or Confederate (<i>Trachelospermum jasminoides</i>)	8b-10

	Zones
KANGAROO VINE—see <i>Ivy</i>	
KUDZU VINE (<i>Pueraria thunbergiana</i>)	6-9
MADAGASCAR JASMINE (<i>Stephanotis floribunda</i>)	10-10
MADEIRA VINE (<i>Boussingaultia gracilis pseudobaselloides</i>)	9-10
MATRIMONY VINE (<i>Lycium halimifolium</i>)	4-10a
PANDOREA	
Jasmine Pandorea or Bower Plant (<i>P. jasminoides</i>)	9b-10
Wonga-Wonga Vine (<i>P. pandorana</i>)	10-10
PARROT'S BILL (<i>Clianthus puniceus</i>)	9b-10
PASSION FLOWER	
Bluecrown (<i>Passiflora caerulea</i>)	10-10
Mayhop (<i>P. incarnata</i>)	7-10
Purple Granadilla (<i>P. edulis</i>)	10-10
Scarlet (<i>P. coccinea</i>)	9b-10
PELICAN FLOWER—see <i>Dutchman's Pipe</i>	
PHILODENDRON (many species and varieties)	10-10
PLUMBAGO, CAPE (<i>P. capensis</i>)	8b-10
PORCELAIN BERRY—see <i>Ampelopsis</i>	
RANGOON CREEPER (<i>Quisqualis indica</i>)	9b-10
ROSES, CLIMBING	
Most hybrid varieties classed as "climbers" or "ramblers," without winter protection	6b-10a
With winter protection	4b-10a
Banksias, white and yellow	8-10
Noisettes, such as 'Lamarque' and 'Marechal Niel'	8-10a
Teas, such as 'Climbing Gloire,' 'De Dijon,' 'Climbing Maman Cochet'	8-10a
SILVER FLEECE or SILVER LACE VINE (<i>Polygonum auberti</i>)	5-10a
SKY VINE—see <i>Clock Vine</i>	
STEPHANOTIS—see <i>Madagascar Jasmine</i>	
SWEETPEA, HARDY or PERENNIAL (<i>Lathyrus latifolius</i>)	4b-10a
TRUMPET VINE	
Cat's Claw or Funnelcreeper (<i>Doxantha unguis-cati</i>)	8b-10
Common (<i>Campsis radicans</i>)	4b-9
Chinese (<i>C. grandiflora</i>)	7-10a
Cross Vine (<i>Bignonia capreolata</i>)	7-10a
Flame Vine (<i>Pyrostegia ignea</i>)	9b-10
Golden Trumpet—see <i>Allamanda</i>	
Herald's Trumpet or Easterlily Vine (<i>Beaumontia grandiflora</i>)	9b-10
Royal, or Vanilla-Scented (<i>Distictis lactiflora</i>)	9b-10
Scarlet or Blood (<i>Phaedoranthus buccinatorius</i>)	9b-10
VIRGINIA CREEPER or WOODBINE (<i>Parthenocissus quinquefolia</i>)	4-10a
WAX PLANT (<i>Hoya carnosa</i>)	9b-10
WINTERCREEPER—see <i>Euonymus</i>	
WISTERIA	
Chinese (<i>W. sinensis</i>) and varieties	5b-9
Japanese (<i>W. floribunda</i>) and varieties	5-9
WONGA-WONGA VINE—see <i>Pandorea</i>	
WOOD ROSE (<i>Ipomoea tuberosa</i>)	9b-10

GROUNDCOVERS

AJUGA or BUGLE (<i>A. reptans</i>)	5-9
ARTEMISIA, SILVER MOUND (<i>A. schmidtiana nana</i>)	3-9
BABY'S TEARS (<i>Helxine soleirolii</i>)	10-10
BAMBOO, DWARF (<i>Shibataea kamasasa</i>)	6b-10
BAYBERRY—see <i>Shrub List</i>	
BEARBERRY (<i>Arctostaphylos uva-ursi</i>)	2b-9a
BERGENIA, HEARTLEAF (<i>B. cordifolia</i>)	5b-10
CAMOMILE, ROMAN (<i>Anthemis nobilis</i>)	5a-10a
CATMINT or CATNIP—see <i>Nepeta</i>	
CEANOTHUS, POINT REYES—see <i>Shrub List</i>	
CORALBERRY—see <i>Shrub List</i>	
COTONEASTER	
Bearberry (<i>C. dammeri</i>)	6-10a
Creeper and Rockspray—see <i>Shrubs</i>	
COWBERRY or LINGONBERRY (<i>Vaccinium vitis-idaea</i>)	5-9a
CREEPING CHARLIE or JENNY—see <i>Moneywort</i>	
DAISY, SOUTH AFRICAN—see <i>Gazania</i>	
DICHONDRA (<i>D. carolinensis</i>)	9-10
EPIMEDIUM or BARRENWORT (<i>E. grandiflorum</i> and <i>E. alpinum</i>)	4-8

Zones		Zones
EUONYMUS —see Wintercreeper		STEPHANANDRA, CUTLEAF —see Shrub List
FESCUE, BLUE —see Grass		STRAWBERRY
FLEECEFLOWER —see Polygonum		American (<i>Fragaria vesca americana</i>) 3b-10
GAZANIA or SOUTH AFRICAN DAISY 9b-10		Barren or False (<i>Waldsteinia fragarioides</i>) 5b-10a
GERANIUM		Wild or Sand (<i>F. chiloensis</i>) 6-10
Ivy-Leaf or Ivy-Vine (<i>Pelargonium peltatum</i>) 9b-10		STRAWBERRY GERANIUM (<i>Saxifraga sarmentosa</i>) 7-9
Strawberry—see Strawberry Geranium		SUNROSE (<i>Helianthemum nummularium</i>) 5b-10a
GERMANDER —see Shrub List		THRIFT —see Flower List
GOUTWEED, BISHOP'S (<i>Aegopodium podagraria</i>) 4-9		THYME, CREEPING, or MOTHER-OF-THYME (<i>Thymus serpyllum</i>) 5-10a
GRASS, ORNAMENTAL		WANDERING JEW (<i>Tradescantia fluminensis</i>) 10-10
Ribbon (<i>Phalaris arundinacea picta</i>) 4b-9		WINTERCREEPER
Blue Fescue (<i>Festuca ovina glauca</i>) 4b-9a		Purpleleaf (<i>Euonymus fortunei coloratus</i>) 4b-8
GROUND IVY or GILL-OVER-THE-GROUND (<i>Nepeta hederacea</i>) 3-9a		Most other varieties of <i>E. fortunei</i> 5-9a
HEATH and HEATHER		WOADWAXEN, SILKY-LEAF (<i>Genista pilosa</i>) 6-8
Darley Heath (<i>Erica darleyensis</i>) 6-8		
Other kinds—see Shrub List		
HONEYSUCKLE —see Vine List		
ICE PLANT or MESEMBRYANTHEMUM (<i>Cryptanthus crystallinum</i>) 9b-10		
IVY		
Algerian and English—see Vine List		
Ground—see Ground Ivy		
JUNIPER		
Andorra (<i>J. horizontalis plumosa</i>) 3-9		
Creeping (<i>J. horizontalis</i>) 3-9		
Japparden (<i>J. procumbens</i>) 4-9		
Sargent (<i>J. chinensis sargentii</i>) 4-10		
Waukegan (<i>J. horizontalis douglasii</i>) 3-9		
LANTANA, TRAILING (<i>L. montevidensis</i> or <i>L. sellowiana</i>) 8-10		
LAVENDER COTTON (<i>Santolina chamaecyparissus</i>) 7b-10		
LEUCOTHOE —see Shrub List		
LILY-OF-THE-VALLEY (<i>Convallaria majalis</i>) 3-8		
LILY TURF		
Big Blue (<i>Liriope muscari</i>) 7-10		
Creeping (<i>L. spicata</i>) 5b-10		
Dwarf (<i>Ophiopogon japonicus</i> or <i>Mondo japonicum</i>) 7-10		
White (<i>O. jaburan</i> or <i>M. jaburan</i>) 7b-10		
LIRIOPE —see Lily Turf		
MAHONIA, CREEPING (<i>M. repens</i>) 5-8a		
MESEMBRYANTHEMUM —see Ice Plant		
MONEYWORT, CREEPING CHARLIE or JENNY (<i>Lysimachia nummularia</i>) 4-8		
MYRTLE or PERIWINKLE		
Bigleaf (<i>Vinca major</i>) 7-10		
Common (<i>V. minor</i>) 5-10a		
NEPETA		
Catmint or Persian Nepeta (<i>N. mussini</i>) 4b-8		
Ground Ivy (<i>N. hederacea</i>) 3-9a		
OCONEE BELLS (<i>Shortia galacifolia</i>) 5-9a		
PACHISTIMA, CANBY —see Shrub List		
PACHYSANDRA or JAPANESE SPURGE (<i>P. terminalis</i>) 5-8		
PERIWINKLE —see Myrtle		
PERNETTYA, CHILEAN (<i>P. mucronata</i>) 8-10a		
PHLOX, CREEPING —see Flower List		
PLANTAIN LILY —see Flower List		
POLYGONUM		
Reynoutria Fleecflower (<i>P. reynoutria</i>) 4b-10a		
PLUMBAGO or LEADWORT (<i>Ceratostigma plumbaginoides</i>) 5b-10a		
ROSE		
'Max Graf' 5b-9a		
Memorial (<i>Rosa wichuraiana</i>) 5b-9a		
SALAL (<i>Gaultheria shallon</i>) 6-9a		
SANDWORT		
Corsican (<i>Arenaria balearica</i>) 7-9		
Moss (<i>A. verna caespitosa</i>) 4-8		
SANTOLINA —see Lavender Cotton		
SARCOCOCCA HOOKERIANA HUMILIS 6-9		
SAXIFRAGE, HEARTLEAF —see Bergenia		
SAXIFRAGE, STRAWBERRY (<i>Saxifraga sarmentosa</i>) 7-9		
ST. JOHN SWORT —see Shrub List		
SEDUM		
Hardest kinds, such as <i>S. acre</i> , <i>S. album</i> , <i>S. spurium</i> 4-10a		
SHORTIA —see Oconee Bells		
SNOW-IN-SUMMER (<i>Cerastium tomentosum</i>) 4b-10a		
SPURGE —see Pachysandra		

GARDEN FLOWERS—GENERAL

ACANTHUS or BEAR'S BREECH (<i>A. mollis</i>) 6b-10	
ACHILLEA —see Yarrow	
AGERATUM, HARDY —see Mistflower	
ALOE, TRUE (<i>A. barbadensis</i> or <i>A. vera</i>) 10-10	
ALYSSUM SAXATILE or BASKET-OF-GOLD 4-9a	
ANCHUSA, BUGLOSS, or ALKANET	
Dwarf or Forget-Me-Not (<i>Anchusa</i> (<i>Brunnera macrophylla</i>) 5-9	
Italian Alkanet (<i>Anchusa azurea</i>) 4-8	
'Dropmore' 2b-8a	
ANEMONE or WINDFLOWER —see also Bulb List	
European Wood (<i>A. nemorosa</i>) 5b-8	
Dwarf Japanese (<i>A. hupehensis</i>) 5-8	
Japanese (<i>A. hupehensis japonica</i>) 5-10a	
Pasque Flower (<i>A. pulsatilla</i>) 3-8a	
Snowdrop (<i>A. sylvestris</i>) 3-8a	
ANTHEMIS or CHAMOMILE	
Golden Marguerite (<i>A. tinctoria</i>) 4b-8	
ARTEMISIA or WORMWOOD	
Most ornamental herbaceous kinds, including 'Dusty Miller' and 'Silver King' 4-9	
'Silver Mound' 3-9	
ASTER, PERENNIAL	
Alpine (<i>A. alpinus</i>) varieties, such as 'Goliath' 4-9a	
Dwarf Cushion varieties 4b-8	
New York and New England (<i>A. novi-belgii</i> and <i>A. novae-angliae</i>) or Michaelmas Daisy varieties 3b-8	
ASTILBE or SPIREA	
Most hybrid varieties 4-9b	
AUBRIETA DELTOIDEA or PURPLE ROCKCRESS . Most varieties 6-8a	
BABY'S BREATH (<i>Gypsophila paniculata</i> and varieties) 3-8a	
BACHELOR BUTTON, PERENNIAL, or MOUNTAIN BLUET (<i>Centaurea montana</i>) 3b-8	
BALLOON FLOWER (<i>Platycodon grandiflorum</i> and varieties) 4-8a	
BASKET-OF-GOLD (<i>Alyssum saxatile</i>) 4-9a	
BEAR'S BREECH —see Acanthus	
BEEBALM or BERGAMOT (<i>Monarda didyma</i> , <i>M. fistulosa</i> and varieties) 4-9	
BEGONIA —see Bulb List	
BELLFLOWER	
Carpathian (<i>Campanula carpatica</i>) 3-8	
Canterbury Bell (<i>C. medium</i>) (biennial) 4-9	
Dalmatian (<i>C. portenschlagiana</i>) 4-10a	
Danesblood (<i>C. glomerata</i>) 4-9	
Harebell or Bluebell of Scotland (<i>C. rotundifolia</i>) 3-8	
Peach-Leaved (<i>C. persicifolia</i>) 3-8	
Serbian (<i>C. poscharskyana</i>) 3-8	
BERGENIA CORDIFOLIA or GIANT-LEAVED SAXIFRAGE 5b-10	
BIRD-OF-PARADISE FLOWER (<i>Strelitzia reginae</i>) 9b-10	
BLACKBERRY LILY (<i>Belamcanda chinensis</i>) 4-9a	
BLANKETFLOWER —see Gaillardia	
BLEEDINGHEART	
Old-Fashioned (<i>Dicentra spectabilis</i>) 4-8	
Plumy or Fern-Leaved (<i>D. eximia</i>) 4-8	

YES WE ARE GETTING SOMEWHERE!

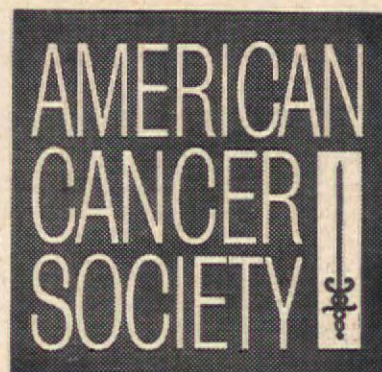


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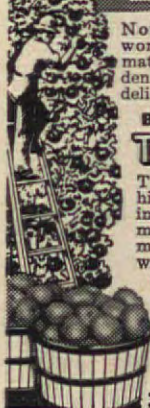
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Zones		Zones		Zones	
BLUEBELL—see Bellflower and Mertensia; also Squill in Bulb List		GERBERA or TRANSVAAL DAISY (G.jamesoni and varieties)	8-10a	Sundrops (O.tetragona or O. youngi)	3-10a
BOLTONIA ASTEROIDES and B.LATISQUAMA	4-8	GEUM or AVENS Most species and varieties	4-10	ORCHID—see also Ladyslipper Hardy (Bletilla striata or B. hyacinthina)	6-9
BUGLOSS—see Anchusa		GINGER, SHELL-FLOWER (Alpinia speciosa)	9-10	PANSY—see Viola	
BUTTERCUP, DOUBLE YELLOW (Ranunculus repens pleniflorus)	4-8	GLOBEFLOWER (Trollius species and varieties). Most kinds	4b-9a	PELARGONIUM—see Geranium	
BUTTERFLY WEED (Asclepias tuberosa)	3b-9	GLOBE THISTLE (Echinops species and varieties). Most kinds	4-8	PENSTEMON P.barbatus 4b-10a P.digitalis 4-10 P.grandiflorus 4-10a Most hybrids 6b-10	
CANDYTUFT Evergreen (Iberis sempervirens) 5-9 I.gibraltarica 5-7 Persian (Aethionema grandiflorum) 4b-9		GRASSES, ORNAMENTAL Blue Fescue (Festuca ovina glauca) 4b-9a Blue Lime or Pampas (Erianthus ravennae) 5b-9 Eulalia, Zebra, or Fountain (Miscanthus sinensis) 4-9 Fountain Grass (Pennisetum ruppellii) 5-8 Horsetail Reed (Equisetum hyemale) 5-8 Job's Tears (Coix lacryma-jobi) 9-10 Lily Turf or Mondo—see Groundcovers New Zealand Flax (Phormium tenax) 9b-10 Oat (Arrhenatherum elatius tuberosum) 8-10 Pampas (Cortaderia selloana) 8b-10		PEONY Herbaceous (Paeonia albiflora hybrids) 3b-8 Tree (P.suffruticosa hybrids) 5-8	
CARDINAL FLOWER—see Lobelia		GYPHOPHILA—see Baby's Breath		PERIWINKLE—see also Groundcover List Madagascar (Vinca rosea) 9-10	
CARNATION—see Pink		HELENIUM or SNEEZEWEED Most garden varieties	4-10a	PHLOX Moss or Ground (P.subulata and varieties) 3-9 Summer (P. paniculata varieties) 4-9a Wild Sweet-William (P.divaricata) 4-9	
CATMINT (Nepeta mussini)	4-8	HELIOTROPE Garden (Valeriana officinalis) 4b-8 True (Heliotropium arborescens) 10-10		PHYSOSTEGIA—see False-Dragonhead	
CELANDINE POPPY (Stylophorum diphyllum)	4b-8	HEMEROCALLIS—see Daylily		PINCUSHION FLOWER (Scabiosa species and varieties). Most kinds 5-10a	
CENTURY PLANT or AMERICAN ALOE (Agave americana)	10-10	HOLLYHOCK (Althaea rosea) (usually biennial)	3-9a	PINKS (Dianthus species and hybrids) Allwood Hybrids 5-9 Carnations 8-10 Cheddar Pink 4-8 Cottage, Border, or Grass Pink 4-10 Garden Pink (D.latifolius) 5-10 Hardy Carnation 6-10 Maiden Pink 5-8 Sweet-William (biennial) 4-9	
CHRISTMAS ROSE and LENTEN ROSE (Helleborus niger and H.orientalis)	4b-10a	IRIS Crested (I. cristata) 5-8 Japanese (I.kaempferi hybrids) 4-9a Louisiana (hybrids of I.foliosa, I.fulva, I.giganticaerulea, etc.) 7-9a Siberian (I.sibirica hybrids) 3b-9a Spuria or Butterfly (I.spuria hybrids) 6-9a Tall Bearded hybrids 3-9		PLANTAIN LILY (Hosta species and varieties). Most kinds 3b-8	
CLEMATIS—see also Vine List C.heracleifolia davidiana 4-9 C.integrifolia 3b-8 C.recta mandshurica 3-8		LADYSLIPPER or MOCCASIN FLOWER Cypripedium acaule 3-9 C.calceolus pubescens 3-9a C.reginae 3-9a		PLATYCODON—see Balloon Flower	
COLUMBINE (Aquilegia species and varieties). Most kinds 3b-9a		LAMB'S EARS or WOOLLY WOUNDWORT (Stachys lanata) 3-9		POPPY Celandine—see Celandine Poppy Iceland (Papaver nudicaule) 3-10a Oriental (P.orientale and varieties) 3-8	
CONEFLOWER Golden Glow (Rudbeckia laciniata hortensis) 3-9 Purple (Echinacea purpurea) 3-8a		LAVENDER—see Shrub List		PRIMROSE English (Primula vulgaris) 5-9a Evening—see Oenothera Missouri—see Oenothera Polyantha (P.polyantha) 5-9a	
CORAL BELLS (Heuchera sanguinea and varieties) 5-10a		LAVENDER COTTON (Santolina chamaecyparissus) 7b-10		RED VALERIAN (Centranthus ruber) 6-8	
COREOPSIS (C. grandiflora or C. lanceolata) 4-9a		LEADWORT—see Plumbago		ROCKCRESS (Arabis alba and A. alpina) 5-8	
CUP FLOWER (Nierembergia repens or N.rivularis) 7-9a		LEOPARD'S BANE (Doronicum species and varieties) 4b-9a		ROCKCRESS, PURPLE—see Aubrieta	
CUPID'S DART or LOVE PLANT (Catananche caerulea) 6-10a		LIATRIS—see Gayfeather		ROSES—see Shrub and Vine Lists	
CYCLAMEN—see Bulb List		LILIES—see Bulb List		RUDBECKIA—see Coneflower	
DAISY Blue—see Felicia 5b-9 English (Bellis perennis) Michaelmas—see Aster Painted or Pyrethrum (Chrysanthemum coccineum) 4-10a Shasta (C. maximum and varieties). Most kinds 6-10a Hardest 4b-9 Transvaal—see Gerbera		LILY TURF—see Groundcover List		SALVIA Blue Sage (S.azurea) 5-9 Mealycup (S.farinacea) 7-10a S.pitcheri 5-8 Purple Spire (S.superba) 5b-9 Vatican (S.sclarea variety) 6-10a	
DAYLILY (Hemerocallis hybrids) Evergreen kinds 5b-10 Deciduous (winter-dormant) 3-9		LILY-OF-THE-VALLEY (Convallaria majalis) 4-8		SANDWORT (Arenaria verna) 4b-8	
DELPHINIUM Chinese (D.grandiflora and varieties) 4-9 'Belladonna' and 'Bellamosum' Large-Flowered Hybrids 3b-8a		LITHOSPERMUM or GROMWELL 'Heavenly Blue' 6-9		SANTOLINA—see Lavender Cotton	
DIANTHUS—see Pink		LOBELIA CARDINALIS or CARDINAL FLOWER 3-9		SAXIFRAGE, GIANT-LEAVED—see Bergenia	
DORONICUM—see Leopard's Bane		LUNGWORT (Pulmonaria species) 4-8		SCABIOSA—see Pincushion Flower	
EPIMEDIUM or BARRENWORT Most species and varieties 4-8		LUPINE, PERENNIAL (Lupinus species and varieties) 3b-8		SEA HOLLY (Eryngium maritimum) 5-8	
EREMURUS or FOXTAIL LILY Most species and varieties 6b-9 Hardest 5-8		LYCHNIS Campion or Catchfly (L.viscaria) 4-8 L. haageana 5-9a Maltese Cross (L.chalcedonica) 3-8		SEDUM Hardest kinds, including S.sacre, S.album, S.spurium, and S.spectabile 4-10a S.sieboldi 5b-10a	
FALSE-DRAGONHEAD (Physostegia virginiana and varieties) 3-10a		LYTHRUM or LOOSTRIFE Most species and varieties 3b-8		SHELL FLOWER—see Ginger	
FELICIA, BLUE DAISY or BLUE MARGUERITE (F.ammeloides) 8-10		MALTESE CROSS—see Lychnis		SHRIMP PLANT (Beloperone guttata) 8b-10	
FILIPENDULA (Spirea). Most species and varieties 4-8		MARGUERITE Blue—see Felicia Golden—see Anthemis		SNAPDRAGON (Antirrhinum majus hybrids) 7-10a	
FLAX Blue (Linum narbonense and L. perenne) 5-9a Golden (L.flavum) 5-9a New Zealand—see Grasses		MEADOWRU—see Thalictrum		SNEEZEWEED—see Yarrow	
FORGET-ME-NOT (Myosotis scorpioides or M. palustris) 4-9a		MERTENSIA Virginia Bluebell or Cowslip (M.virginica) 3-8		SNOW-IN-SUMMER (Cerastium tomentosum) 4b-10a	
FORGET-ME-NOT ANCHUSA—see Anchusa		MISTFLOWER or HARDY AGERATUM (Eupatorium coelestinum) 5b-9		SPIREA—see Astilbe and Filipendula; also Shrub List	
FOXGLOVE (Digitalis species and varieties, mostly biennial) 5-9		MOCCASIN FLOWER—see Ladyslipper		SPURGE Japanese—see Pachysandra in Groundcover List Yellow (Euphorbia epithymoides) 4-9a	
FUCHSIA—see Shrub List		MONARDA, BEEBALM, or BERGAMOT (M.didyma, M.fistulosa, and varieties) 4-9		STARCLUSTER (Pentas lanceolata) 9-10	
FUNKIA—see Plantain Lily		MONKSHOOD (Aconitum species and varieties) 3-8		STOKES ASTER (Stokesia laevis), including 'Blue Moon' 5b-10	
GAILLARDIA or BLANKET FLOWER (G.aristata and varieties) 3b-8		MULLEIN (Verbascum) English Hybrids 5b-9a		STONECROP—see Sedum	
GAS PLANT (Dictamnus alba or D. fraxinella and varieties) 4-8		OENOTHERA Missouri Evening Primrose (O. missouriensis) 5b-10		STRELITZIA—see Bird-of-Paradise	
GAYFEATHER (Liatis pycnostachya, L.scariosa and varieties) 3-9a				SUNDROPS—see Oenothera	
GERANIUM Pelargonium species and hybrids 9b-10 True (G.sanguineum) 4-8				SUNFLOWER, PERENNIAL (Helianthus and Heliothis species and varieties). Most kinds 5-10	
				SUNROSE (Helianthemum species and varieties). Most kinds 5b-10a	

	Zones		Zones
SWEET-WILLIAM —see Pinks		COLCHICUM or MEADOW SAFFRON	4-8
THALICTRUM or MEADOWRUE , Most kinds	4b-9a	CRINUM or MILK-AND-WINE LILY	8b-10
THISTLE, GLOBE —see Globe Thistle		CROCUS , Most spring and autumn flowering species and varieties	4-9
THRIFT or SEA PINK (<i>Armeria maritima</i> and varieties)	5-9	CROWN IMPERIAL —see <i>Fritillaria</i>	
THYME (<i>Thymus</i> species and varieties), Most kinds	5-10a	CYCLAMEN , Florist's (<i>C. indicum</i> varieties)	9b-10
TRILLIUM or WAKE-ROBIN —see Bulb List		<i>C. europaeum</i>	6-9
TRITOMA or TORCH LILY (<i>Kniphofia</i> species and hybrids), Most kinds	6b-10a	<i>C. coum</i> and <i>C. neapolitanum</i>	7b-9
Hardest	5-9	DAFFODIL (<i>Narcissus</i> species and hybrids), Most kinds	4b-9
TROLLIUS or GLOBE FLOWER , Most species and varieties	4b-9a	Autumn—see Autumn Daffodil	
VALERIAN —see Red Valerian		Paperwhite <i>Narcissus</i>	9-10
VERBASCUM —see Mullein		Peruvian—see Peruvian Daffodil	
VERBENA , <i>V. bonariensis</i>	9-10	DAHLIA , Most kinds	8-10
Clump (<i>V. canadensis</i>)	6-9	DESERT CANDLE —see <i>Eremurus</i>	
<i>V. tenuisecta</i>	8-9	DOGTUOTH VIOLET —see Lily-Like Plants	
VERONICA or SPEEDWELL , Hoary (<i>V. incana</i>)	4-9	ELEPHANT EAR (<i>Colocasia antiquorum</i>)	9-10
Most other species and varieties	5-10a	EREMURUS , FOXTAIL LILY, or DESERT CANDLE	
VINCA —see Periwinkle		Most species and hybrids	5b-9
VIOLETS and VIOLAS , Sweet Violets (<i>Viola odorata</i> varieties)	8-10	EUCHARIS or AMAZON LILY (<i>E. grandiflora</i> or <i>E. amazonica</i>)	9b-10
Most wild species	3-8	FREESIA (hybrid varieties)	9-10
<i>Viola</i> hybrids, including Pansies (<i>V. tricolor</i> hybrids)	6-9a	FRITILLARIA , Crown Imperial (<i>F. imperialis</i>)	4-10
WINDFLOWER —see <i>Anemone</i>		Guineahen Flower or Checkered Lily (<i>F. meleagris</i>)	4-10a
YARROW or MILFOIL , Pink Milfoil (<i>Achillea millefolium</i>) and varieties	3-9a	GALTONIA or SUMMER HYACINTH (<i>G. candicans</i>)	7-10
<i>A. ptarmica</i> and varieties	4-9a	GLADIOLUS (hybrid garden varieties)	8b-10
Woolly Yarrow (<i>A. tomentosa</i>)	3-9a	GLORIOSA or CLIMBING LILY (<i>G. rothschildiana</i> and <i>G. superba</i>)	9b-10
YUCCA , Adam's Needle (<i>Y. filamentosa</i>)	4b-10	GRAPE HYACINTH (<i>Muscari armeniacum</i> , <i>M. botryoides</i> and hybrids)	3-9
Bear Grass (<i>Y. glauca</i>)	4-10	GUINEAHEN FLOWER —see <i>Fritillaria</i>	
Red Yucca (<i>Hesperaloe parvifolia</i>)	8-10	HYACINTH , Common (<i>Hyacinthus orientalis</i> hybrids)	4b-8
Spanish Bayonet (<i>Y. aloifolia</i>)	8b-10	Grape—see Grape Hyacinth	

GARDEN FLOWERS—BULBS AND TUBEROUS ROOTS

NOTE: Many bulbs that are winter-hardy only in the South and on the West Coast (Zones 8, 9, 10) are grown in other parts of the country as "summer flowering bulbs"—that is, are planted in the spring, dug in the fall, and stored indoors over winter. Some can be left in the ground one zone farther north if covered with a heavy winter mulch.

	Zones		Zones
ACHIMENES	9-10	IRIS, BULBOUS , Dutch (<i>I. xiphium</i> hybrids)	8-10a
ACIDANTHERA	8-10	English (<i>I. xiphoides</i>)	8-10a
ALLIUM or FLOWERING ONION , Giant (<i>A. giganteum</i>)	5b-9	<i>I. reticulata</i>	5b-8a
Daffodil (<i>A. neapolitanum</i>)	8b-10	Spanish (<i>I. xiphium</i>)	7b-10a
Most other species and varieties	5-9	ISMENE —see Peruvian Daffodil	
ALSTROEMERIA , Most kinds	7-10	IXIA , Most species and varieties	9-10
Golden Peruvian Lily (<i>A. aurantiaca</i>)	6-8	LILY (<i>Lilium</i>), Aurelian Hybrids	4-8
AMARYLLIS , Belladonna Lily (<i>A. belladonna</i>)	8b-10	Candlestick or Orange (<i>L. dauricum</i>)	4-8
Hardy—see <i>Lycoris</i>		<i>L. centifolium</i> 'Olympic Hybrids'	4b-8
Dutch and American Hybrids (<i>Hippeastrum</i> hybrids)	8b-10	<i>L. coral</i> (<i>L. pumilum</i>)	4-8
ANEMONE , Flame or Scarlet (<i>A. fulgens</i>)	8-9	Easter (<i>L. longiflorum</i>)	7b-10
Poppy-Flowered (<i>A. coronaria</i>)	8-9	'Croft' and 'Estate'	6-10
AUTUMN DAFFODIL (<i>Sternbergia lutea</i>)	5-8	Fiesta Hybrids	4-8
BEGONIA , <i>B. multiflora</i>	8b-10	Formosa (<i>L. formosanum</i>)	6-9
<i>B. sutherlandii</i>	8-10	Gold Band (<i>L. auratum</i>)	4b-8
Hardy (<i>B. evansiana</i>)	6-10	Madonna (<i>L. candidum</i>)	4b-8
Tuberous-rooted Hybrids	9b-10	Mid-Century Hybrids	4b-8
BERMUDA BUTTERCUP —see <i>Oxalis</i>		Regal (<i>L. regale</i>)	5-9a
BLUEBELL, ENGLISH —see Squill		Showy (<i>L. speciosum</i> , <i>L. s. album</i> , and <i>L. s. rubrum</i>)	4b-9a
BRODIAEA , Hardy species	7b-10	Tiger (<i>L. tigrinum</i>)	3-8a
CALADIUM , Most species and varieties	9b-10	LILY-LIKE PLANTS , Amazon Lily (<i>Eucharis</i>)	9b-10
CALLA (<i>Zantedeschia</i> species and varieties)	9-10	Aztec or Jacobean Lily (<i>Sprekelia</i>)	8b-10
CAMAS (<i>Camassia</i> species and varieties)	4b-9a	Belladonna Lily—see <i>Amaryllis</i>	
CANNA , Most species and varieties	8-10	Blackberry Lily (<i>Belamcanda</i>)	4-9a
CAPE COWSLIP (<i>Lachenalia</i> species and varieties)	10-10	Blood Lily (<i>Haemanthus</i>)	9b-10
CHINCHERINCHEE —see Star-of-Bethlehem		Bugle Lily (<i>Watsonia</i>)	9-10a
CHIONODOXA or GLORY-OF-THE-SNOW (<i>C. lucillae</i> and varieties)	4-10	Checkered Lily—see <i>Fritillaria</i>	
		Climbing Lily (<i>Gloriosa</i>)	9b-10
		Daylily—see Garden Flowers—General	
		Dogtooth Violet or Trout Lily (<i>Erythronium</i>)	3b-9a
		Foxtail Lily (<i>Eremurus</i>)	5-9
		Guernsey Lily (<i>Nerine</i>)	9-10
		Lily-of-the-Valley (<i>Convallaria</i>)	3-8
		Mariposa Lily (<i>Calochortus</i>)	4-10a
		Milk-and-Wine Lily (<i>Crinum</i>)	8b-10
		Peruvian Lily—see <i>Alstroemeria</i>	
		Pineapple Lily (<i>Eucomis</i>)	8-10
		Rain Lily (<i>Cooperia</i>)	9-10
		Sand or Star Lily (<i>Leucocrinum</i>)	4b-10
		Spider Lily—see Peruvian Daffodil and <i>Lycoris</i>	
		LYCORIS , Magic Lily or Hardy <i>Amaryllis</i> (<i>L. squamigera</i>)	4b-9
		Golden Spider Lily (<i>L. aurea</i>)	8-10
		Short-Tube <i>Lycoris</i> (<i>L. radiata</i>)	7-10
		MEADOW SAFFRON —see <i>Colchicum</i>	

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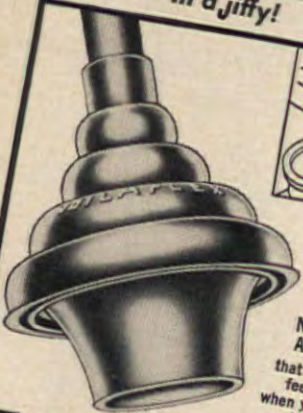
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MONTBRETIA (Tritonia species and varieties)	8-10
NARCISSUS—see Daffodil	
ONION—see Allium	
OXALIS or BERMUDA BUTTERCUP (O.cernua)	9-10
PERUVIAN DAFFODIL, SPIDER LILY, or ISMENE (Hymenocallis calathina)	9-10
PUSCHKINIA or STRIPED SQUILL (P.scilloides)	4b-8
RANUNCULUS, PEONY-FLOWERED (R.asiaticus)	8b-10
SNOWDROP (Galanthus nivalis and G.elwesii)	5-9
SNOWFLAKE (Leucojum aestivum and L.vernum)	4-9
SOCIETY GARLIC (Tulbaghia)	9b-10
SPREKELIA, AZTEC or JACOBIN LILY (S.formosissima)	8b-10
SQUILL English Bluebell (Scilla nonscripta)	5-10a
Siberian (S.sibirica)	4-8
Spanish or Wood Hyacinth (S.hispanica)	5-9
Striped—see Puschkinia	
STAR-OF-BETHLEHEM Chinchierchee (Ornithogalum thyrsoides)	8-10
O.nutans	4-9
O.umbellatum	4-9a
TIGRIDIA (T.pavonia and varieties)	9-10
TRILLIUM Large-Flowered (T.grandiflorum)	3-8
Wake Robin (T.sessile)	5-9
TUBEROSE (Polianthes tuberosa)	9-10
TULIP Most garden kinds (Tulipa species and hybrids)	3-8
Globe or Butterfly (Calochortus)	4-10a
VELTHEIMIA VIRIDIFOLIA	9b-10
WATSONIA or BUGLE LILY, Most species and varieties	9-10a
WINTER ACONITE (Eranthis hyemalis)	4-9
ZEPHYRANTHES or FAIRY LILY Most species and varieties	7b-10

Plant Hardiness

(continued from page 63)

experiment you'd do well to depend on the zone ranges given.

In our future garden articles, references to trees, shrubs, vines, groundcovers, and herbaceous perennials will include hardiness zone ratings for recommended species and varieties.

ABOUT THE MAP. Our zone map is adapted from the U.S. Department of Agriculture Plant Hardiness Zone Map published in 1960 (available from the U.S. Government Printing Office, Washington 25, D.C. for 15¢). The U.S.D.A. map is 19x28 1/2" and shows ten hardiness zones (each with a 10-degree range of minimum winter temperatures) for the United States and southern Canada. It includes degree climate zone into 5-degree subzones, lettered a and b. It is accompanied by lists of six "indicator" or representative woody plants for each of the ten zones, plus an additional list of 32 woody plants, and gives the northernmost

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zones in which each of these 92 plants can be expected to be winter-hardy.

The limited plant lists of the U.S.D.A. map restrict its usefulness to experienced gardeners and horticulturists, since these lists include only woody plants and also do not include the southernmost zones of plant adaptability. Therefore we have undertaken to publish the map with comprehensive lists of both woody and non-woody plants and with both northern and southern limits of their adaptability. Thus our Plant Hardiness Zone Map becomes extremely useful to experienced and inexperienced gardeners alike.

To preserve clarity in our smaller 13x19-inch map, we have eliminated county lines and have substituted the guide cities located in different parts of each state. We have also eliminated the zone subdivisions (lettered a and b) of the U.S.D.A. map. Neither of these changes, we're sure, will materially affect the usefulness of the map.

OUR BOARD OF EXPERTS. The zone ratings indicated in our plant lists were compiled from reports submitted by a board of horticultural scientists in various parts of the country. Our chief consultant was Henry T. Skinner, director of the U.S. National Arboretum, Washington, D.C. Dr. Skinner supervised the preparation of the U.S.D.A. map by the National Arboretum in co-operation with the American Horticultural Society. It was for this work that he was awarded last year's American Home Achievement Medal, as reported in our June 1961 issue.

Other members of our board of consultants were: E. L. Kammerer, Morton Arboretum, Lisle, Ill.; R. E. Lee, Cornell University, Ithaca, N.Y.; Fred Galle, Ida Cason Callaway Gardens, Pine Mountain, Ga.; E. A. Menninger, Stuart, Fla.; L. C. Snyder, University of Minnesota, St. Paul, Minn.; D. J. Martel, Oregon State College, Corvallis, Ore.; A. C. Hildreth, Denver Botanic Gardens, Denver, Colo.; and George H. Spalding, Los Angeles State and County Arboretum, Arcadia, Calif. Extensive use was also made of the writings of Donald Wyman of the Arnold Arboretum, Jamaica Plain, Mass. Dr. Wyman's hardiness ratings of woody plants have heretofore been keyed to a hardiness zone map compiled by the Arnold Arboretum in 1948.

Many other authorities in different parts of the country also helped with the ratings of special classes of plants.

THE END

Fallout Shelters

(continued from page 10)

4. HUMAN WASTE DISPOSAL. This could pose a severe occupancy hazard unless you spend at least \$500 for a regular toilet and septic tank system plus extra money for a well or tank water supply. At the very least you should make sure that you obtain a reliable chemical toilet.

5. WATERTIGHT CONSTRUCTION. An underground shelter should be enveloped with a thick polyethylene plastic skin to keep out seepage. Above ground it could be wrapped in the same way or thoroughly sealed with waterproofing compound. Waterproofing is recommended for a basement shelter, particularly if a wet condition exists. A floor drain may be needed.

6. HUMIDITY, CONDENSATION, AND HEATING SAFEGUARDS. A dehumidifier could be used if the electricity doesn't fail. The best solution, however, is to line the interior surfaces of a shelter with about one inch of insulation.

The insulation will also help keep a shelter warm in winter, although heating may not be as big a factor as you think. Evidence exists that there may be excessive heat rather than cold. Even in mid-winter ground temperature below the frost line in our northernmost states seldom falls below 35° to 40°. Body temperature will help warm up a shelter. In fact, one of the simulated National Bureau of Standards tests indicated you can be "very comfortable in a sweater." However, it would be a good idea to stock warm clothes and blankets, especially for children.

Knowledge of your own basement temperature in winter will guide you if you build a basement shelter. An electric heater could be used if the power doesn't fail; a kerosene or similar open-flame heater could serve a basement shelter, but not necessarily an isolated outdoor shelter where it would consume vital oxygen.

7. ENTRANCE-WAY DESIGN. This is crucial. To reduce radiation, the shelter door should not open directly to the basement or outdoors; a short passageway with at least one right-angle turn is required between the shelter and its outside entrance. Radiation scatters mainly in a straight line; only some will go around corners.

8. GOOD DRAINAGE AWAY FROM THE SHELTER. This is important because radioactive fallout on the ground can be washed away with "amazing success," scientists report, by a good rain, for example.

9. RADIO RECEPTION. An antenna to the outside may be needed because thick construction could cut down reception. You should check this when your shelter is finished.

10. ADEQUATE ILLUMINATION. Provide at least one electric light and one outlet, as power may continue. An obvious necessity is a 4-cell, hot-shot battery wired to a 150-milliamper flash light bulb, plus spares. You should also have flashlights, batteries, candles, and a lantern. Open flame lights should be used judiciously to conserve oxygen.

11. ADEQUATE SPACE. At least 10 square feet of floor area per person is the *minimum* for survival. Try for more, especially if you have small children. Before building, lay out the boundaries on the floor and judge for yourself if they are adequate. To conserve space, use fold-up bunks, drop-down tables, and put storage shelves high on walls. Painting the interior white can make a shelter appear larger.

FINANCING A SHELTER

You can finance a shelter the same way you would any other home improvement project. Shelters have been approved for both FHA-insured home improvement loan programs: FHA Title I loans of up to \$3500 with five years and one month to repay, and FHA's new plan of loans up to \$10,000 at 6 per cent interest with 20 years to pay. Many lenders will also provide financing under their own home improvement loan plans.

An open-end mortgage is an excellent way to finance a shelter. You may even refinance your present mortgage. It is possible to obtain a straight low-interest personal loan from your bank. Personal loans from finance companies are also available, but here you pay the steepest interest rates and credit charges.

Be wary of some of the installment-payment loans offered by dealers. Compute the total credit and interest charges before you sign up, and compare them with other methods of financing.

URGENT ACTION IS NEEDED

Much planning and decisive action remains to be done by local, state, and federal officials in the shelter program. Mere words and advice from our elected leaders are not enough. Most people left to their own devices, even for self-preservation, are inclined to do nothing. It is the duty of all of us to call or write our elected officials and congressmen to prod them into action.

The American Home believes that state and federal action is essential to carry out the following urgently needed proposals:

1. Research and development of design and occupancy standards for large community shelters for the guidance of local communities and contractors. Equipment and supplies, as well as the structural requirements, should be thoroughly tested before being recommended.

2. A total reappraisal of family fallout shelter requirements, not just for radiation protection, but to develop foolproof standards covering every aspect of shelter construction and occupancy. Genuine occupancy tests of actual shelters are long overdue.

3. A standard inspection system by experts for newly completed shelters. Human error during construction is inevitable. Local building inspectors, probably the best solution, should be trained by state or federal civil-defense authorities.

4. An effective plan to provide for decontamination work following a nuclear attack. This means training local fire departments, for example, in the hosing down of streets, sidewalks, and buildings in all populated areas to wash away radioactive fallout.

5. An investigation into the best methods of financing, particularly for community shelters. Many communities, such as Norwalk, would gladly approve local bond issues. A special one-shot tax may be another solution. Banks could and should provide low-interest loans to finance the addition of dual-purpose shelters in new buildings. Using shelters for two purposes could pay back their cost.

THE END

WORKSHOP ORDER FORM

(as shown on page 60)

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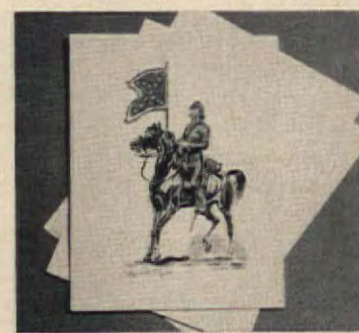
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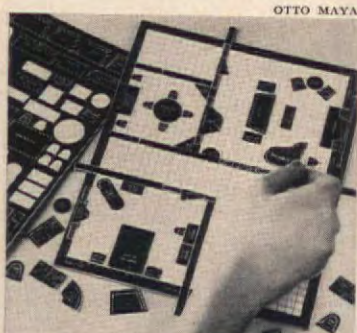


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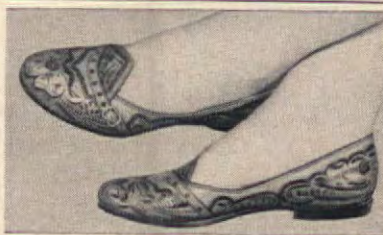
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CHALK ONE UP on this Early American slate whenever you want to remember what you're sure to forget, from shopping lists to notes for Junior. The 18x13" shield-shaped frame, pine with a Salem finish, sports an eagle above and a chalk holder below the easy-on-the-eyes sea-green slate. \$4.50. Sturbridge Yankee Workshop, 1 Brimfield Turnpike, Sturbridge, Mass.



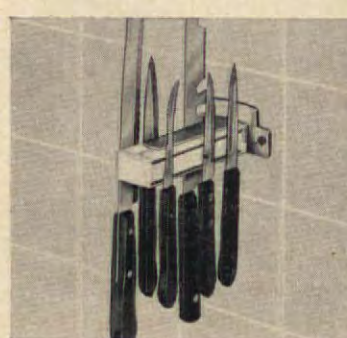
COME CLEAN tablecloths that are easy and attractive are a saving grace on any dining table. These vinyl impregnated covers require only a whisk of a damp cloth. Turquoise or white with gold stripes and white cotton trim, they are pretty enough for company. 60" round, \$3.98; 60" x 80" with rounded corners, \$5.98. Post. 45c. Here's How, 95-AJ Fifth Ave., New York, N.Y.



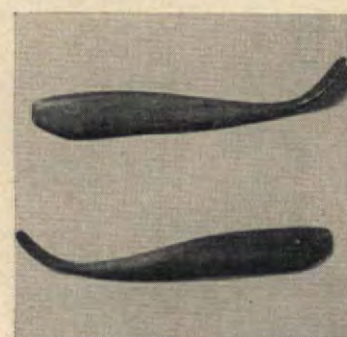
OVERNIGHT PARKING for a man's clothes is provided by a Windsor-type Valet Chair that also gives him a seat while dressing. It has wide hanger back and trouser rod, drawer or recessed seat for pocket gear, and rungs for shoes. Choose honey tone pine or maple finish. \$19.95, Exp. chgs. coll. Unfinished kit, \$14.50 ppd. (Add \$1 W. of Miss.) Yield Hse., Dept. A2, No. Conway, N.H.



THE MAJOR ATTRACTION of metals to magnets is the force behind this knife rack. It uses only 3" of wall space, and extends 5 1/4" to hold up to 10 knives along its two sides. Made of a combination of white and beige plastic, gardeners and do-it-yourselfers will find it handy for keeping small tools together. \$1. From Sunset House, 71 Sunset Building, Beverly Hills, Calif.



SPOUTING OFF about this pair of whales will be allowed, since they are really something to blubber over. 11" long and made of genuine taverneau, these cousins of Moby Dick have been hand carved and hand finished in Haiti. An adhesive wax allows hanging and re-hanging without using nails or marring walls. \$2.98 a pr. Deer Hill, Dept. AH1, College Point 56, N.Y.

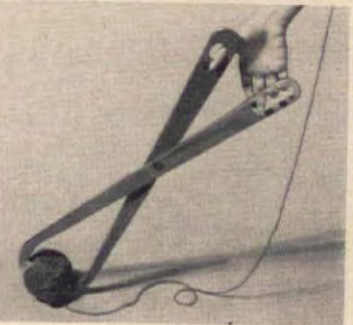


SINGING THE BLUE Willow praises, this casserole quartet is right in tune with your plans to glamorize the table. Each 2 1/2" deep and 5" wide bowl sits in its own wicker basket. Good for meat pies, vegetables, or soups, they can also leave the dining room, with or without baskets, as snack servers. Set of 4, \$2.95 plus 35c post. The Added Touch, Dept. AH, Bryn Mawr, Pa.





ONION ADDS FLAVOR to your table when you use place mats and a matching tile in a reproduction of this well-loved blue and white pattern. These accessories will accent "onion pattern" pieces or rest beautifully beneath any plain china. 11½x17½", each wipe-clean plastic mat with foam back is \$1.25. The 6" square ceramic tile, \$1.95. Edith Chapman, Dept. AH, Blauvelt, N.Y.



OUT-OF-HAND objects that you want in your hand can be brought there quickly and easily by the E-Z Reach. Adding 27" onto your arms, these mahogany plywood stretchers have a scissor-like grasp and magnet-tipped ends that will even pick up a pin, and will reach the top-most shelves. A sick-in-bed would adore a pair! \$2.95. Better Sleep, Dept. AH, New Providence, N.J.



BLOSSOMING OUT into a spray orchid which is always in bloom, this delicate pink flower is so real you can almost see it growing. The plastic plant is about 12" high, set in a small, white china rice bowl. It doesn't need any work or water—and there's no worrying about temperature. Also, it is washable. \$5.59. Constance Spry, 507-AH Madison Ave., New York 22, N.Y.



FROZEN ASSETS in the freezer or frozen food compartment, can be easily identified with these time-saving labels telling what's what. On the 2x1¼" stickers you have space to write the kind of food, its weight, and when it was frozen. Peel off the backing and apply—even to foil or plastic. 100 for \$1; 200, \$1.75; 400, \$3. Handy Gifts, Box 509-AH-1, Culver City, Calif.



SHEDDING LIGHT into all corners, these ceiling-light diffusers will soften the glare of an uncovered bulb. Made of heat resistant, unbreakable, and translucent plastic, they will hold up to a 60-watt bulb. White only, the 9x7" fixture screws into any overhead socket. In bubble (left) or cone shape (front), they are \$2 ea. Frances-Morris, 125-A Ashland Place, Brooklyn 1, N.Y.



WITH A BANG of the hammer against this tiny anvil, there's almost nothing the amateur jeweler or hobbyist can't do. Only 7" long and 2½ pounds light, the hard chrome-plated tool is the smallest of its kind. Essential for working with small parts, it could also be used as a paperweight in a den or office. \$5.95. Fisher and Norris, 301-AH Monmouth Street, Trenton, N.J.



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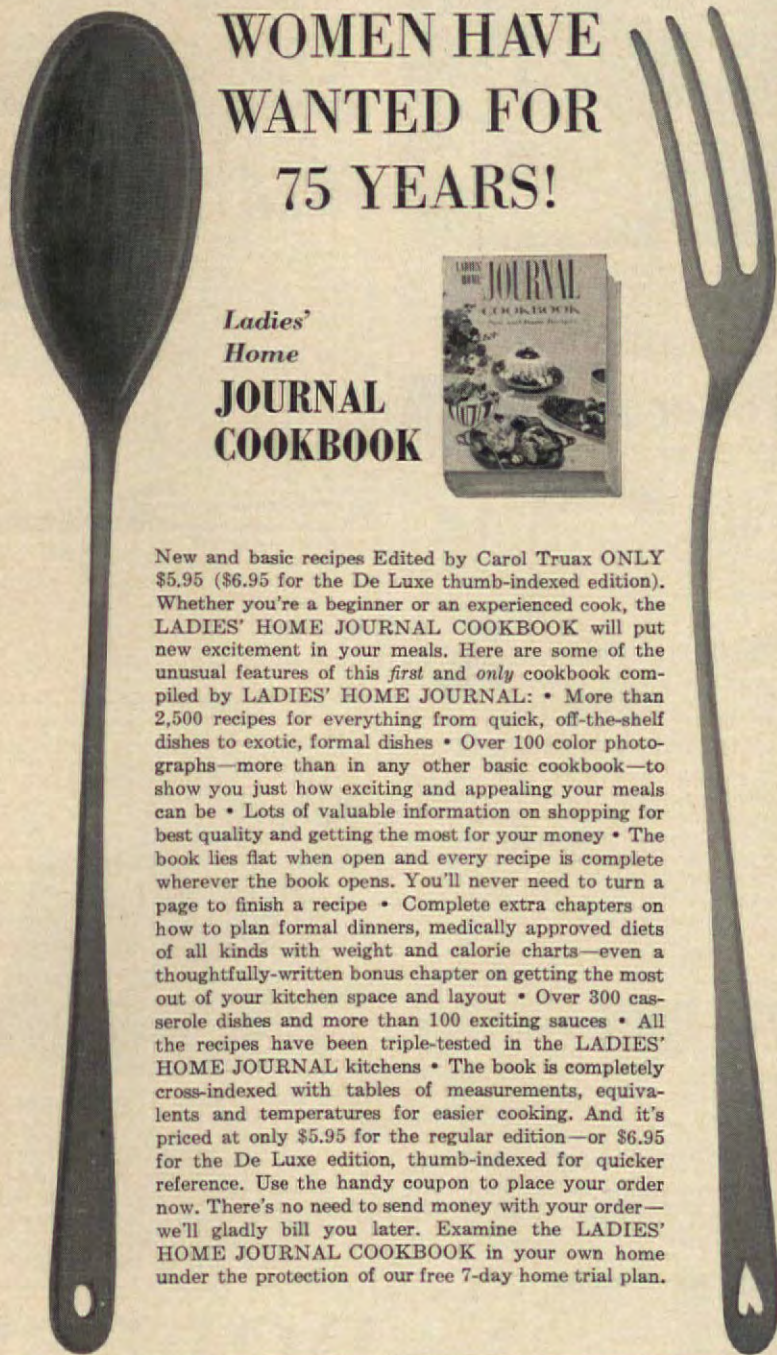


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STOOL PIGEONS wouldn't mind perching on either of these Firenze stools. Handmade of natural Alpine willow, both the 18" mushroom and its 30" full-sized twin have 15" hand-woven seats. Highstool, \$6.95, 4 for \$26; low, \$4.98. Shipping chgs. coll. Plastic, foam-lined covers in white, black, persimmon, or turquoise, \$3.95 each. Patio Sales, Box 25-AH, Highland Park, Ill.



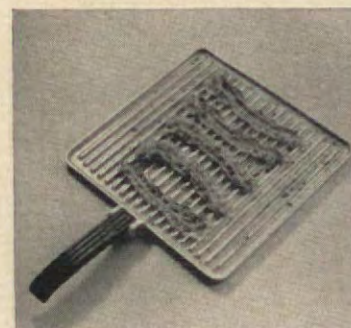
GIVE A LITTLE WHISTLE to a little teakettle, and it will do a full-sized job of heating two cups. Polished aluminum with a black flip-top pourer and a long, low build, it boils water quickly and sings about it. You'll love the time you can save on that single cup of tea or the instant coffee in the morning rush. \$1. Spencer Gifts, 601 Spencer Building, Atlantic City, N.J.



BIG RETURNS from a visit or vacation trip can be carried home with no trouble if you take this fold-away suitcase with you. Only 1" wide when folded, it opens into a 19x12x5½" lightweight carrier for taking back more than you came with. The latex-backed rayon shark-skin cover is color fast and waterproof. \$8.95, post. 65c. Mastercraft, 275-A Congress St., Boston, Mass.



FAT ON THE RIBS of this new type of kitchen utensil drains as you cook down into the deep ridges that can hold over a cup of grease. On the Grid-Way, bacon cooks without a curl, to just-right crispness; steaks, hamburgers, and frankfurters taste cooked out-of-doors. It is heavy cast aluminum, 10½" sq. \$5.95. O'Reilly Mfg. Co., 205-AH West 19 St., N.Y. 11, N.Y.



FOWL PLAY an important part in your décor when this rooster gets started holding your paper napkin supply. The 6¼" high holder adds a "bit of chick" just right to perk up that dull kitchen shelf. Made of mellow pine, this bird would also prove itself a fine feathered friend as a rack for your milk bills and shopping lists. \$1.98. Medford, 752-AH Fulton St., Farmingdale, N.Y.



ALL DRESSED IN WHITE, your switches will flip with pride. Solid hardwood switch-plate covers are beautifully lacquered antique white and trimmed with gold to blend with French or Italian Provincial furniture, or just to look pretty and feminine. Single switch plate, \$1.75; double, \$2. Double plug plate, \$1.75. Marian Bowater, Dept AH, Box 3037, Granada Hills, Calif.





GET SWINGING arm brackets to hold your potted plants or an oil lamp. Cast in satin black iron and measuring 9" up and 9" out, this groovy arm shaped like a leafy branch of acorns swings into all positions. Fill the bowl with dainty guest soap and throw a towel over the arm. \$3.25. (Add 50c W. of Miss.) The Ox Bow, 281-AH White Plains Rd., Tuckahoe, N.Y.



THE BRUSH-OFF you give your teeth is very important for dental health, and now you can brush after eating no matter where you are. The *Brushze* has both bristles and a refillable handle which releases toothpaste with a squeeze. Plastic, in pastel colors, the whole unit is about the size of a pen. \$1.50. Whirlee, Dept. AH, 31-01 Steinway St., Long Island City, N.Y.



JARRING NOTE for the spices in your life are these unbreakable "apothecary jars." Of clear plastic, each jar is 3 1/4", topped off by a white, airtight lid. They wear labels trimmed with black and gold, and keep small amounts of spices fresh. 10 for \$2.98; 20 for \$4.98; each set with 20 spice labels, 7 blanks. Heritage House, 529-HH Firethorn Dr., Monroeville, Pa.



SHADES OF MEANING to the owner of a student lamp in need of a new shade are these milk glass swirls. The 6" high cover and the brass-plated steel ring it rests on are only a couple of the many parts this company has available for old lamps retrieved from the attic. Shades: 7", \$3.75; 10", \$5.50. Rings: 7", \$1.65; 10", \$2.50. Old Guilford Forge, Dept. AH, Guilford, Conn.



IN FULL BLOOM on a plot the size of a postage stamp, an assortment of 25 rare and exotic flowers from 17 countries around the world decorate the faces of this spectacular collection. These all-different, all-beautiful stamps from far-off gardens will make any philatelist's dream blossom into reality. The bouquet of 25 stamps is 10c. H. E. Harris, Dept. Z2, Boston 17, Mass.



COMING TO GRIPS with the backs of your carpets, a sprinkle of Rug Safe keeps the slipping and sliding out of scatter rugs. Held down when stepped on, they can be moved easily when the weight is off. A powder that is harmless to floors or rugs, each can does 8 to 10 average scatter rugs. One treatment lasts months. \$1. Farlin Ind., Dept. AH, Box 115, Reading, Mass.

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SHOPPING INFORMATION

Cover: Fabrics—Everfast. Furniture, accessories—Bloomingdale's.

FLOWER ARRANGING

Page 17: Wood sculpture—Highgate Gallery.

RENAISSANCE IN KITCHEN DESIGN

Pages 22-25, 58: Cabinets—Mutschler. Refrigerator, washer-dryer, oven, surface cooking top, dishwasher—Whirlpool. Sink—Elkay. Counter tops, Dutch wall tile covering—Formica. Vinyl wall covering—Armstrong. Flooring—Goodyear. Red porcelain finish cast iron cookware—Prizer-Ware. Cast iron cookware—Griswold. Bell telephone. Furniture—Century. Upholstery fabric—Greiff. Curtain fabric—Payne. Fire tools, andirons, fender, sconces—Harvin. Candlestick, snuffer—Virginia Metalcrafters. "Blue Tonquin" dinnerware—B. Altman & Co. Stainless steel flatware—I. Freeman. Ironstone—Red-Cliff. Red and white dinnerware—Rich's. Glassware—Imperial. Chestnut roaster, pewter ware—S. P. Skinner. Tin molds, wire whisk, chocolate roll board, mortar and pestle—Bazar Francais. Red canisters—Azuma. Blue and white delft canister—Braat's. Shelf brackets, eagle hooks—Paul Assoc. Blue pitcher and covered cup—Bloomingdale's. Flower print—Old Print Center of Phyllis Lucas.

1962 DECORATING

Page 31: Resilient tile flooring and vinyl walls—Kentile. Round table—John Vesey. Furniture—Janet Rosenblum. Lamps—Hansen Lamps. Page 32: Avisco rayon fabrics—Cohama. "Windswept" rug—The Boss Co. Desk, bamboo chairs—Traditional Reproductions. Bedside tables—Yale Burge. Lamps—Paul Jones. (Bottom) Avisco rayon print fabric—Eaglesham. Page 33: All merchandise—R. H. Macy. Pages 34-35: Furniture—Auffray & Co. Tile floor—Herbert Bright. Fabric—Eaglesham Prints. Vinyl burlap wall covering—Murals Inc. Gas char-grill barbecue and hood—Majestic Co. Designer TV—General Electric. Accessories—Red Shutters. Lamps—Lang and Williams. Accent rug—Berven Carpets. Sculpture, paintings—Nordness Gallery. Bar-sink—Elkay Mfg. "Random Seadrift" dado paneling—Masonite Corp. Rattan chest—Luten-Clarey-Stern, Inc.

THIS CONTEMPORARY CAN SAVE YOU MONEY

All furniture—Kroehler Mfg. Co. Page 38: "Sunburst" rug—Bigelow. Page 39: "Sea Flower" rug—Bigelow Rugs & Carpets. Brass box on small table, accessories on coffee table, brass magazine holder—antiques. Blue ash tray on small table—Imported from Italy. Lamp—Frederick Cooper Studios. Painting—D. Landelman. Fireplace screen—Gustafson's. Fireplace tools—Segno. Sliding glass doors—Slide View. Page 40: Gas burners—Roper. Blue cheese dish—Dansk. "Kashmere Stripe" rug—Regal. Counter top—Formica. Blue china plates, bowls, tea pot, cups, saucers—Imported from Japan. Drapery fabric—Forster Textile Mills. Blue bowl with fruit, Eskimo family sculpture—Raymor. Pewter cheese dish, duck decoys—antiques. Place mats—Marshall Field & Co. Blue bowl with flowers—C. S. Goodfriend. Knit tapestry—New York Graphic. Page 41: Carpet—V'Soski. "Prism" drapery fabric—Kroll Assoc. Lamp—Marshall Studios. Ash tray, vase, pottery animal in foreground—Raymor. Silk screen—Segno. Hat boxes, copper pencil holder—The Red Door.

A SPECIAL SMÖRGÅSBORD

Pages 44-46: Yellow plates, tablecloth and napkins, napkin rings, forks, carving set, turquoise fish bottle opener, stainless steel platter, green glass plate, candelabra, round wooden tray, green tray, wooden fish tray, white rectangular platter, wooden mice, wooden handled spoon & fork, small Swedish horses—Seabon. Brass three-part server—Hammacher Schlemmer. Large Swedish horse, rooster—Swedish Imports.

TAKE A CAN OF PEAS

Pages 48, 49: Casserole, place mat, spoon and fork, coffee pot, cup and saucer—Bonnier's

BUYER'S GUIDE TO AUTOMATIC DRYERS

Pages 56, 57: Automatic dryer—Hotpoint.

WORKSHOP STORAGE CABINETS

Page 60: Workshop—U.S. Plywood. Portable power tools, hand tools—Stanley Tools. Ceiling—Armstrong. Floor—Amtico. Hardware—Grant Pulley and Hardware Corp. Radial arm saw—De Walt Power Tools, Inc. Lighting—Lightolier.

current outlook

Here's the last word as we go to press on last minute news, trends, or possibly gossip from the notebooks of your ever-on-the-go editors.

Fuel savings should be a warm note for a cold winter. The Humble Oil and Refining Co. has developed a Magic Grid to increase combustion efficiency on high-pressure oil burners. It's a heat booster that can save you from 20 to 40 per cent on fuel bills, and will make operation cleaner and quieter. If you are not satisfied in twelve months, the company will take it out, and refund the full price of \$54.60.

More on shell homes: Good news to our ears from Certain-teed Products Corp. President Malcolm Meyer has announced that the company's wholly owned subsidiary, the Institute of Essential Housing (better known among shell house firms as IEH), has wiped out the controversial balloon-note method from its financing package. In its place: a sensible 12-year mortgage plan.

Lawn squabble: Who would have thought a lawn would grow into a lawsuit? In a San Francisco suburb, the Jack Kleins, frustrated to find grass wouldn't grow on a portion of their lawn, put in an ivy cover. Fireworks began when a citizen's group, calling themselves the Westlake Subdivisions Improvement Association, told the Kleins, in effect, "Since everyone else here has grass, you must too. Take out the

ivy cover." The Kleins said no, and WSIA promptly sued. The famous—and flamboyant—lawyer Marvin Belli was so amazed at WSIA's effrontery, he took on the case for the Kleins. Now eight months later, it's still dragging through the courts. We're not so worried about who will win—what scares us is the frightening conformist implications.

Defaults are overrated. Some financial conservatives have pointed a nervous finger recently at foreclosures of FHA-insured mortgages. FHA chief Neal Hardy countered by pointing out that foreclosures are still well below 1 per cent of outstanding FHA-backed mortgages—an "abnormally low" rate in the field of home mortgages.

Freeze-dried food should be showing up in your supermarket pretty soon. You've probably heard about these foods developed for outdoorsmen and until now available only in camping stores. About one-third to one-eighth of their original weights (all the moisture has been removed), they enable campers to prepare a variety of meals that can compete with home-cooked dinners. Because they don't require refrigeration or special storage, you'll be able to keep a supply in your cupboard against any emergency.

Steering wheels may become "old hat" in automobiles. To take their place you may have a panel that sits on your lap like a ouija board.

On it will be two round knobs about four inches in diameter that are interconnected. Turning one or both will steer the car. The brainchild of Oldsmobile, it is expected to be an option on their 1963 models.

Sproutless potatoes will reach your vegetable bin soon as a result of a chemical developed by the Naugatuck Chemical division of United States Rubber Co. Mixed with water and sprayed over potato plants before harvesting, it keeps spuds sprout-free and in good condition for a month or more. Commercial users have had the advantage of these for some time, but now they are reaching the consumer market. You will be able to buy in larger quantities—and forget that chore of paring budding eyes.

A preview of furniture at the High Point, N.C., Furniture Market was unusually colorful. Not only was color important in upholstery, but the wood itself was often either painted or impregnated with color. We're sorry to report that prices will probably be somewhat higher, but quality and design have never been better.

Speaking of color, if you are looking for fabrics in bright, fresh prints that you can wash (even with bleach), dry clean, or hang out in the noonday sun, look for Riverdale's new prints with the words "Color styled with Du Pont Savalux® fast colors" on the selvage. The combina-

tion of special dyes and a special printing process make these fabrics the ultimate in colorfastness.

Push-button butter, as well as salad dressings, desert toppings, canapé spreads, and mustard may follow improved whipped cream in aerosol cans as a result of a new liquefied gas propellant announced by Du Pont. Union Carbide is also perfecting a better spray can to handle solids. Powdered products slated for this type of packaging include cosmetics, pharmaceuticals, household items, and agricultural and industrial materials.

Ham in cans will be easier to get at starting about Easter. An entirely new type of can will have a key that gives greater leverage in opening and won't run off the track. When the cover comes off, the exposed edges will be smooth. Only canned hams packed in the United States will have this new safety feature.

Tattletale gray has been blamed on a lot of things, but from the Home Laundry Conference comes the word that studies show women just aren't using enough detergent in their washers. Fear of over-sudsing makes them too cautious, and they overlook the fact that increased capacity of machines using more water calls for more detergent. All of the pre-measured packets of detergents and bleaches now on the market should alleviate the situation.



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