THE AMERICAN HOME

January 35¢

642f

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

PROPERTY OF THE
DEC 28
WOMAN'S COLLEGE
UNIVERSITY OF NORTH CAROLINA

Style 86538. Use a Tessera Corlon floor in any room—upstairs, ground level, downstairs. Tessera and Corlon® are trademarks of Armstrong Cork Co.

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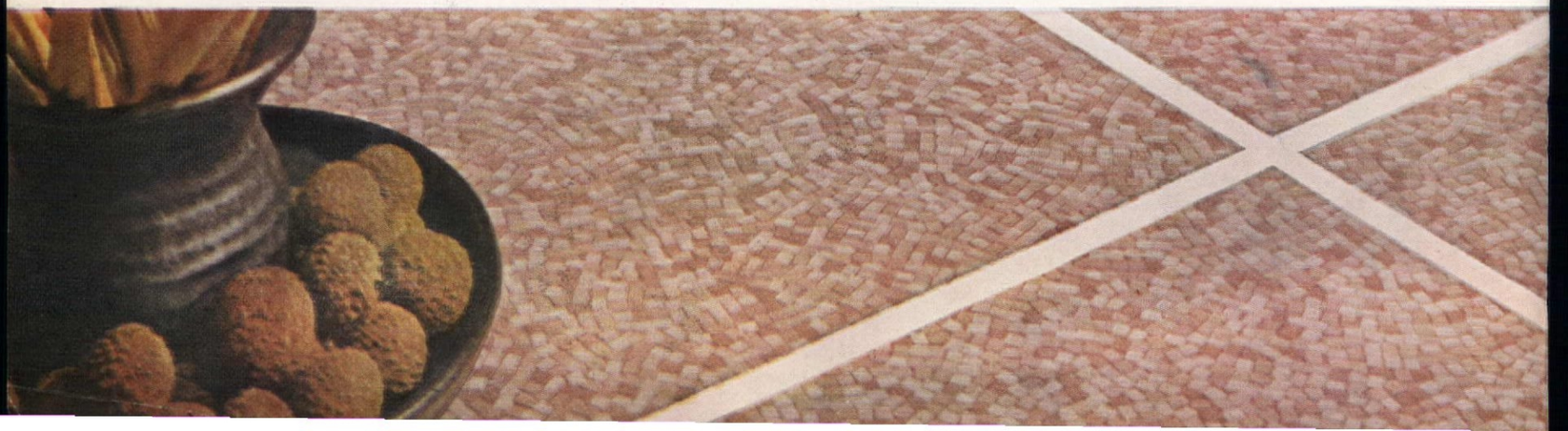


why reflect fuel grime?

Keep fuel grime out of your home with economical, flameless electric house heating

Only electric house heating is flameless.

This is important because it means there's positively no fuel grime to coat walls, dull windows or mirrors. Your home is clean when you heat with flameless electricity.

And flameless electric house heating is economical because it does away with waste. Needing no chimney, this truly modern method of home heating wastes no warmth. You pay only for the heat you use. No money goes up in smoke.

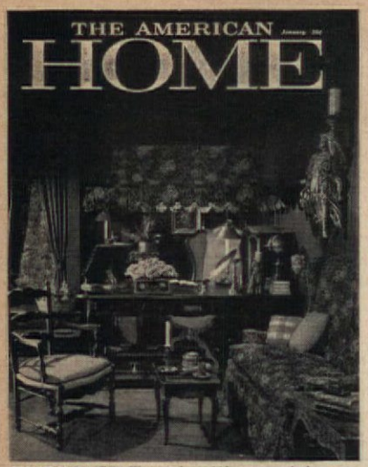
Those who now have electric house heating report a new kind of comfort, free of chilly drafts and hot blasts. And they're enjoying an evenness of temperature they never before thought possible.

And the low maintenance costs that go with heating electrically are another attraction. Having electric house heating also enhances the value of your home today and helps it hold this value over the years to come.

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

Edison Electric Institute
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

A Curtis Publication

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1. Also 10 more soothing instrumentals — While We're Young, others.

341. New calypso album Belafonte fans have waited 6 yrs. for.

24. Plus: Too Young, Warsaw Concerto, Charmaine, others.

4. Younger Than Springtime, Some Enchanted Evening, 13 more hits.

14. Love Is a Many-Splendored Thing, many more favorites.

124. Prisoner of Love, Till the End of Time, etc. (Regular L.P. only)

274. And 10 more by TV trumpet star with swing band/strings.

255. And other hits by the country-pop stylist. (Regular L.P. only)

269. Nation's hottest folk-singing trio recorded in concert.

214. Also: Blue Skies, Goody Goody, The Lady Is a Tramp, 6 others.

261. Also: Secret Love, Unchained Melody, etc. by new vocal sensation.

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219. Country-pop star also sings Dear Hearts and Gentle People, etc.

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243. Plus: other Romberg delights sung by the late, great tenor.

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295. Also: Wonderland by Night, Danny Boy, etc. by piano ace.

298. My Prayer, East of the Sun, etc. Mellow instrumentals.

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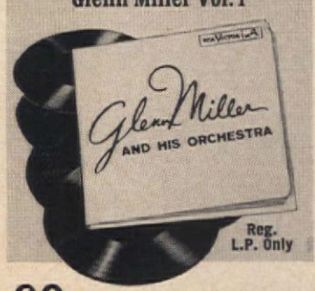

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Includes deluxe illustrated album

The Original Miller band—his biggest disc hits and specially selected broadcasts. Little Brown Jug, String of Pearls, Chattanooga Choo Choo, American Patrol, Blueberry Hill, Perfidia, Rhapsody in Blue, 62 more.

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Each month you will be offered a Featured Selection for the Division you join—either Popular or Classical. If you want this record, you need do nothing. It will come to you automatically. Or, you may choose any other record you wish from *either* Division, or take none that particular month.

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OR [ ] 5 RECORD GLENN MILLER ALBUM (36)

Enroll me in the following Division of the Club:

[ ] CLASSICAL [ ] POPULAR
(Check only one)

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

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(please print)

Address.....

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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.

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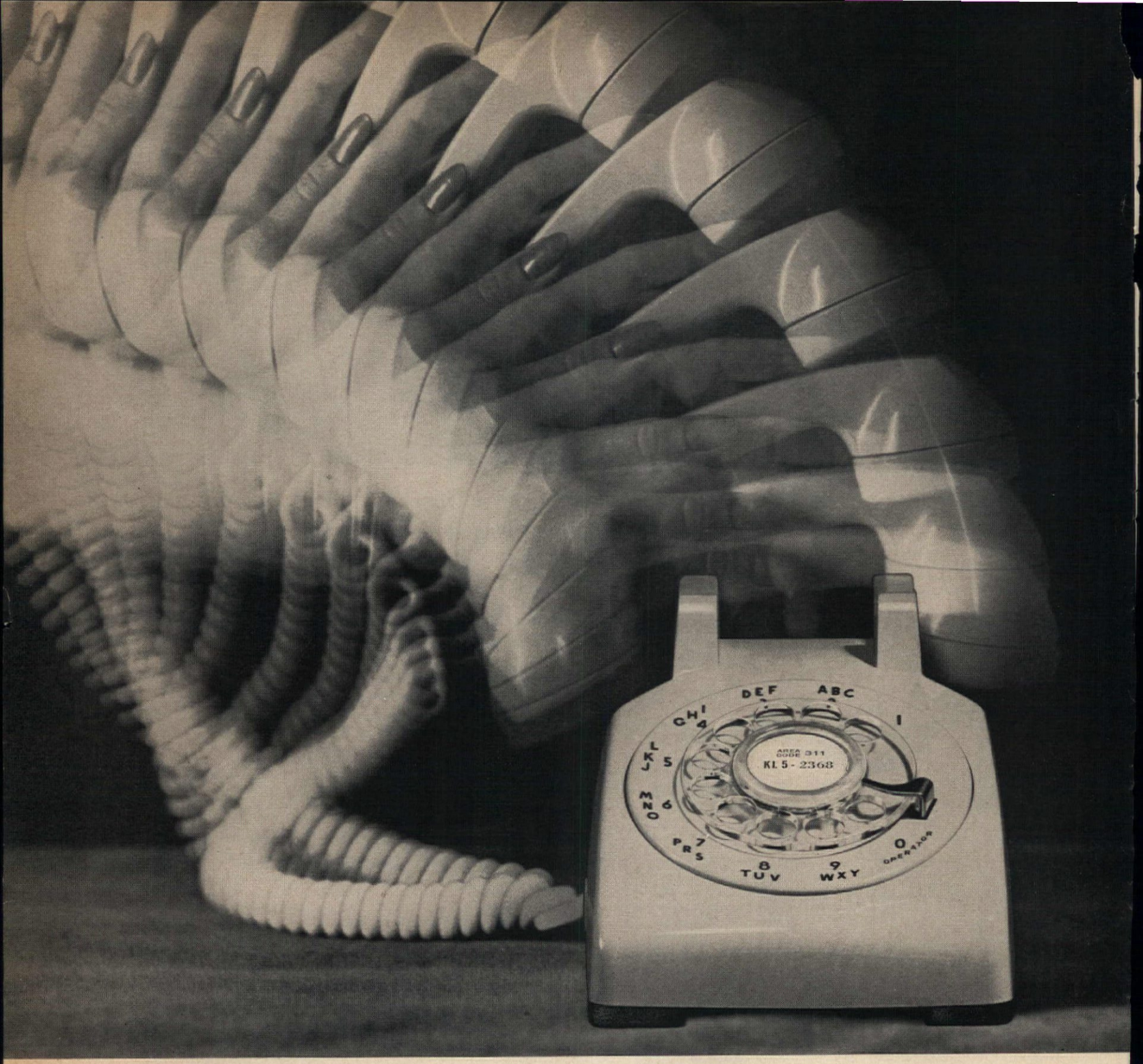


Does anything else you use so often give you such trouble-free service?

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.

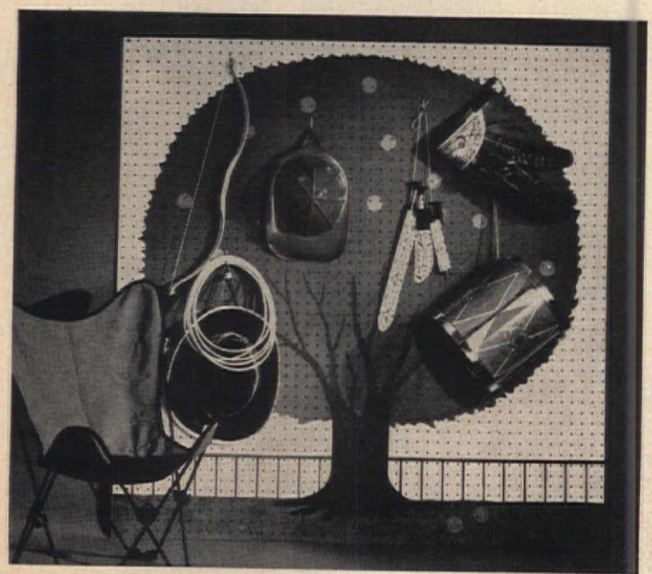
Service so good you can take it for granted.

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, white 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. Quevreaux, 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

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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_____

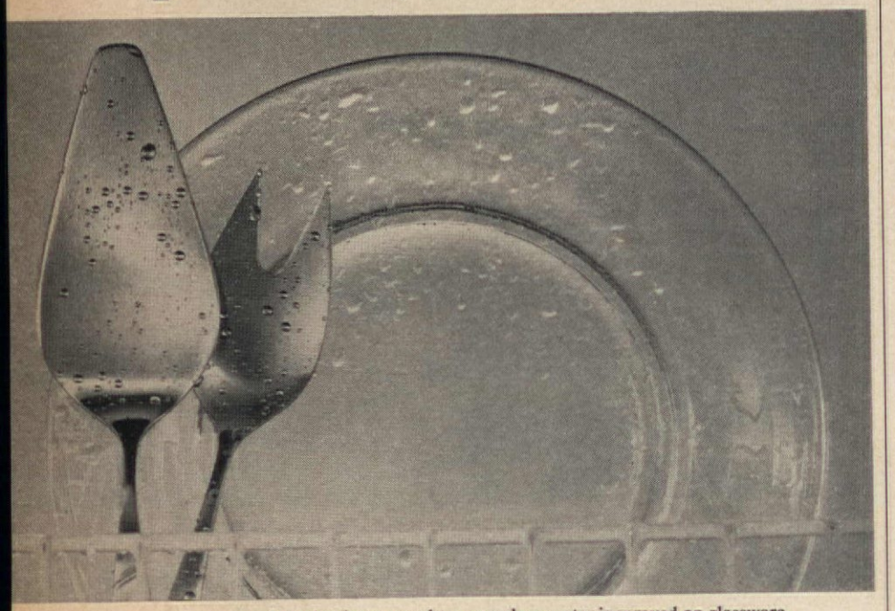
Date of Birth_____

Business Address_____

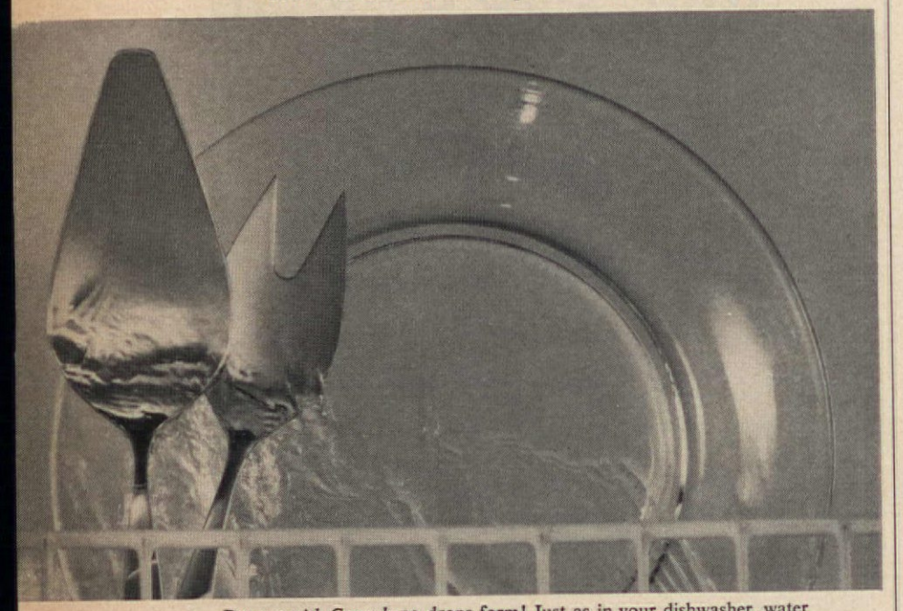
Home Address_____

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.



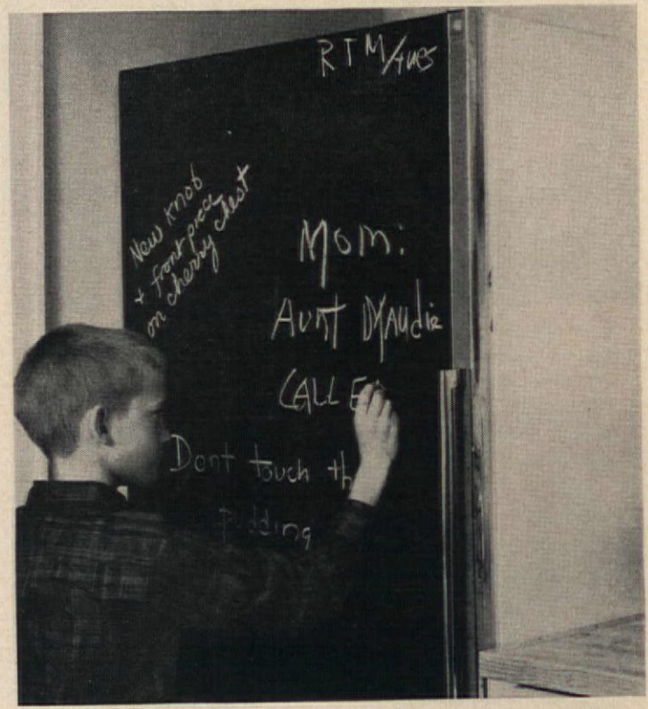
CASCADE But see *with Cascade* no drops form! Just as in your dishwasher, water slides off in clear-rinsing "sheets." Dishes, silver dry spotless, sparkling.

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 "chalkboard" 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.

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when you become a Trial Member of the Capitol Record Club and agree to buy as few as six future record selections during the next 12 months

321. JACKIE GLEASON. MUSIC, MARTINIS AND MEMORIES in the lush Gleason manner: *Once In A While, I Remember You, I Can't Get Started*, 9 more.

328. COME TO THE FAIR. Tennessee Ernie Ford recorded *LIVE* at the Indiana State Fair. *Sixteen Tons, Your Cheatin' Heart, Bill Bailey*, 8 more.

316. JACKIE GLEASON. LAZY, LIVELY LOVE. *Because Of You, On The Street Where You Live, Speak Low, It Had To Be You*, 8 more.

342. JUDY! THAT'S ENTERTAINMENT. Judy Garland sings: *If I Love Again, Old Devil Moon, Alone Together, Who Cares?, Yes*, 6 more "greats".

333. FOUR PREPS ON CAMPUS. A real hot best-seller! *Heart and Soul, Swing Down Chariot, Tom Dooley*, 16 more! Recorded *LIVE!*

348. PEGGY LEE. OLÉ ALA LEE. Sultry swinging Latin singing. *Olé! Just Squeeze Me, Fantastico, Love And Marriage*, 8 more.

142. PAUL WESTON. A new album of "Music for Dreaming". Hear *Laura, Out of Nowhere, My Blue Heaven*, nine other favorites.

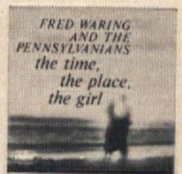
115. SOUNDS OF THE GREAT BANDS. Glen Gray and his Casa Lomans recreate the sound of Gene Krupa, Tommy Dorsey, Glenn Miller, others.

260. NAT KING COLE. BALLADS OF THE DAY. The King sings 12 big all-time hits! *Angel Eyes, Return To Paradise*, 10 more. (Monaural Only)

197. PHIL NAPOLEON. His Memphis Five in a dozen "red hot" Dixieland specials: *Creole Rag, After You've Gone, Wang Wang Blues*, etc.

212. SOLD OUT: The Kingston Trio in a superb vocalisation of *Carrier Pigeon, Bimini, Don't Cry Katie*, plus 9 more selections.

194. DAKOTA STATON. MORE THAN THE MOST. Here's "blues" dressed up in style! *Love Walked In, It's You Or No One*, 10 more torrid numbers.



198. FRED WARING. If you've the time, the place, the girl—Fred's magic with chorus, orchestra make your dreams come true. 12 "greats".

257. SATURDAY NIGHT... POLKA! Ray Budzilek recorded in person. *Ice Cubes And Beer, Springtime Polka, Cleveland Mazurka*, 9 more.

108. FRANK SINATRA. ONLY THE LONELY. *Ebb Tide, Spring Is Here, Goodbye, What's New, Blues In The Night*, 7 more great hits.

297. BAND OF THE IRISH GUARDS in stirring renditions of *Trumpets Wild, Ouvre Ton Coeur, Thunder And Lightning Polka*, other concert pieces.

190. JUNE CHRISTY. June's greatest hits from her days with Stan Kenton: *How High The Moon, Come Rain Or Come Shine*, 9 others.

195. SWINGIN' DECADE. Glen Gray, his Casa Lomans recreate the swingin' sounds of Tommy Dorsey, Benny Goodman, 11 others.

352. DAKOTA STATON. DAKOTA! Her greatest album yet: *If I Love Again, Pick Yourself Up*, 10 other fabulous song stylings.

74. KEELY SMITH. I WISH YOU LOVE. Keely gives out with *Fools Rush In, Mr. Wonderful, You Go To My Head, When Day Is Done*, 7 more.

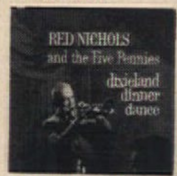
189. FOUR FRESHMEN AND FIVE GUITARS. 'Way out—but good! Imaginative stylings of *The More I See You, It All Depends On You, Nancy*, 9 more.

103. JONAH JONES. JUMPIN' WITH JONAH in a swingin' new set of tunes: *Just A Gigolo, A Kiss to Build a Dream On*, ten others.

185. LOVE IS THE THING. Nat King Cole spins 12 love songs smoother than silk. *It's All In The Game, At Last, Love Letters*, more of your favorites.

134. Hollywood Bowl String ENSEMBLE. Felix Slatkin conducts "Strings by Starlight"... works by Tchaikovsky, Bach, Grainger, Borodin, others.

191. DINAH SHORE. SOMEBODY LOVES ME. Dinah's appealing in this album arranged and conducted by Andre Previn. *Remember, All Alone*, 10 more.



179. RED NICHOLS. "Red" and the Five Pennies serve a musical menu a la Dixieland. Hear *Ja-Da, September Song, Ballin' the Jack*—11 others.

144. SLEEP WARM. DEAN MARTIN. Dean sings and Frank Sinatra conducts the orchestra in "sleepy" tunes: *Sleepy Time Gal*, 11 more.

227. HARRY JAMES blows, and the Music Makers follow in big band style. *Blues For Sale, You're My Thrill, Just For Fun, Willow Weep For Me*, more.

254. HAPPY CHA CHA CHA. 12 Latin favorites get special spice by Laurindo Almeida's guitar. *Luna De Miel, Pica Pau, Club Caballero* and others.

192. GUY LOMBARDO. The master of melody plays beloved favorites in three-quarter time: *Beautiful Ohio, Alice Blue Gown*, 10 other waltzes.

169. SAM BUTERA. THE BIG HORN. His sax and The Witnesses meet old favorites head on in *Hey There, La Vie En Rose, Too Young*, other hits.

241. TEX RITTER. BLOOD ON THE SADDLE. *Bury Me Not On The Lone Prairie, Billy The Kid, Streets of Laredo* sung by the favorite of the West.

165. MEREDITH WILLSON'S MARCHING BAND. Here are 16 rousing and thrilling marches, including 6 great original marches by John Philip Sousa.

217. THE SONG IS JUNE. June Christy sings ten of her greatest hits including *The Song Is You, The One I Love Belongs to Somebody Else*, others.

102. CAROUSEL. Movie sound track, with Gordon MacRae and Shirley Jones. They sing *If I Loved You, Mister Snow, You'll Never Walk Alone*, others.

105. TENNESSEE ERNIE sings inspiring hymns with beauty and reverence: *Now the Day is Over, Jesus, Savior, Pilot Me*, ten other favorites.

146. FIRE GODDESS. Webley Edwards plays Hawaiian chants and songs. Exotic music and exciting sounds from authentic Island instruments.

149. DINAH, YES INDEED! Dinah Shore sings golden melodies. *Falling In Love With Love, Where Or When, Love Is Here To Stay, Yes Indeed*, 8 more.

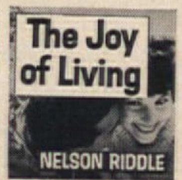
1. GERSHWIN. His most famous works—*Rhapsody in Blue* and *An American in Paris*. Leonard Pennario with the Hollywood Bowl Symphony.

345. THE LES BROWN STORY in songs from 1939 to today — *Leapfrog, Ramona, Mexican Hat Dance, Lover's Leap*, 8 more.

356. GERMAN BEER-DRINKING MUSIC. A foaming stein full of Walter Schacht's brass band, groups and soloists in 12 numbers. (Monaural Only)

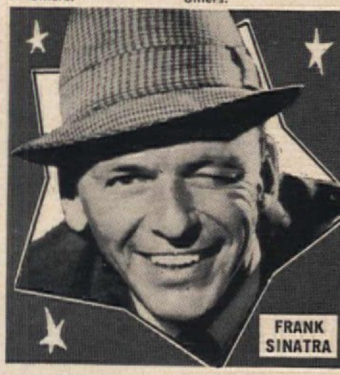
199. KINGSTON TRIO. HERE WE GO AGAIN. Guitars, banjos and bongos going like crazy. *Haul Away, Molly Dee, Goober Peas, A Worried Man*, 9 more.

188. KAY STARR. Kay swings through a dozen great songs: *Night Train, Lazy River, Sentimental Journey, Slow Boat to China*, etc.



135. NELSON RIDDLE. Zestful songs about the joys of living and loving: *Isn't It A Lovely Day, You Make Me Feel So Young*, 10 others.

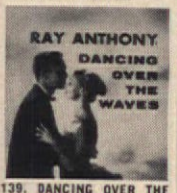
127. JOE "FINGERS" CARR AND HIS SWINGIN' STRING BAND. A cheerful nosegay of tunes: *Harbor Lights, Vanessa*, 10 more.



236. TOMMY SANDS. Love songs never sounded so inviting as Tommy caresses *I'm Confessin', My Happiness, That Old Feeling*, 9 more.

152. FRANK SINATRA. COME DANCE WITH ME. 1960 winner of 3 awards: Album of Year, Best Male Vocalist Performance, Best Arrangements!

231. FREDDY MARTIN with medleys of 39 greatest dance hits in the Martin Manner. Includes *Love Walked In, Honey Bun, Rosalie, I Love You*.



139. DANCING OVER THE WAVES. Ray Anthony and orchestra at their danceable best. They play *Dancing Over the Waves, Intermezzo*, 10 others.

355. GEORGE SHEARING. THE SHEARING TOUCH. Superb stylings of *Nola, Misty, Bewitched*, 8 more. All with Billy May strings.

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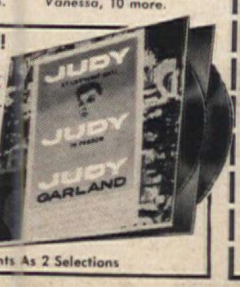

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You'll send me FREE each month the illustrated Capitol Record Club Review which pictures and describes the monthly selections and alternate selections. I will enroll in one of the three Divisions of the Club listed below, and whenever I want the monthly selection of my division I need do nothing; it will be sent to me automatically. But if I wish any of the *other selections*—or wish no record at all that month—I'll notify the Club on the form always provided. I'll purchase at least one record every two months.

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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.)

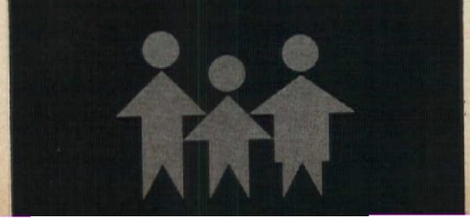
Special mention should be made of the need for protection against terrifying firestorms that might sweep through built-up areas following a nuclear bomb hit. A 20 megaton bomb exploded at least three miles above the ground could start firestorms igniting houses 25 to 35 miles away. Such fires not only 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 air-tight 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 air-tight seal. Installing a small oxygen tank is also a good idea. (continued on page 75)

AN AMERICAN HOME KIT

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This wonderful new easy-do clock is as handsome as the day is long . . . and accurate, too. Think how many times a day you'll enjoy your handiwork, as you tell time by the big readable numerals and antiqued black hands. Stand it on the mantel or hang it on a wall—it's an heirloom-in-the-making that you'll treasure for years. Colorful fruit and numerals are embroidered on fine linen with cross-stitch. Wood frame is ready to assemble and stain or paint—all parts are presanded, and grooves and holes for screws are already in place. It's easy to install the fine electric clock movement. Over-all size is 13½x17½x3¼". Glass is not included. Kit #PSC-23, price $12.98, postpaid, Federal excise tax included.

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Within its 50 full-color pages you'll see many new 1962 roses – like the exotic new *SOUTH SEAS* (shown on the opposite page) and the four new roses described here – plus many, many more! You'll also see all the established J&P favorites . . . glorious Hybrid Teas that bloom up to 7½" across . . . Floribunda Roses that produce hundreds of blooms on every bush . . . breathtaking Climbers that provide curtains of color to drape over fences, porches, trellis, etc . . not to mention the magnificent Tree Roses that produce blooms at eye level!

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MEDLEY
(Pl.P.R.R.) A truly distinctive color – a lovely new salmon pink Hybrid Tea. 5" blooms

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(Pl.P.R.R.) Here's still another very, very fragrant rose –a two-tone pink and yellow bloom

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"...the most beautiful Hybrid Tea in my collection." Mrs. R. D., Bloomfield Hills, Mich.

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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.

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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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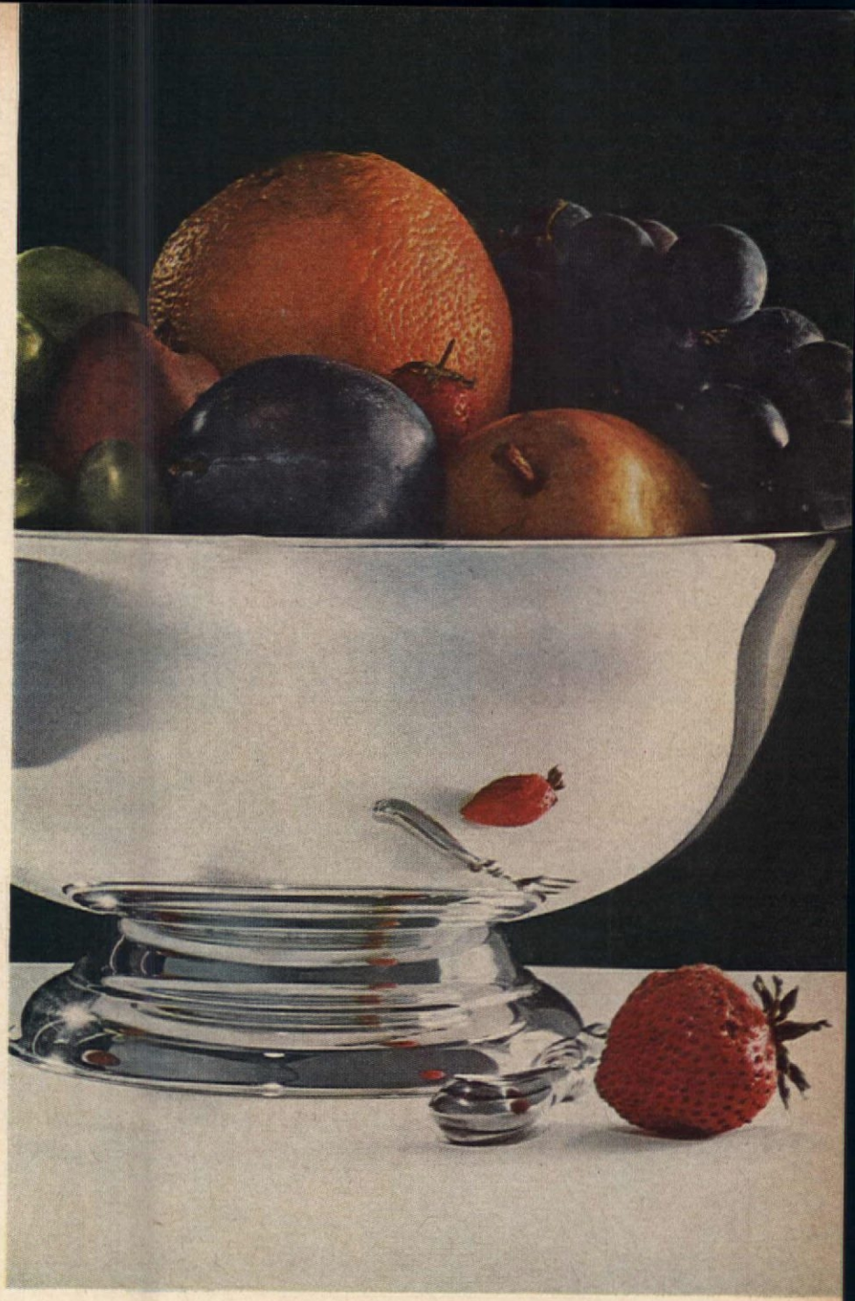

New Twinkle Cream for Silver

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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!

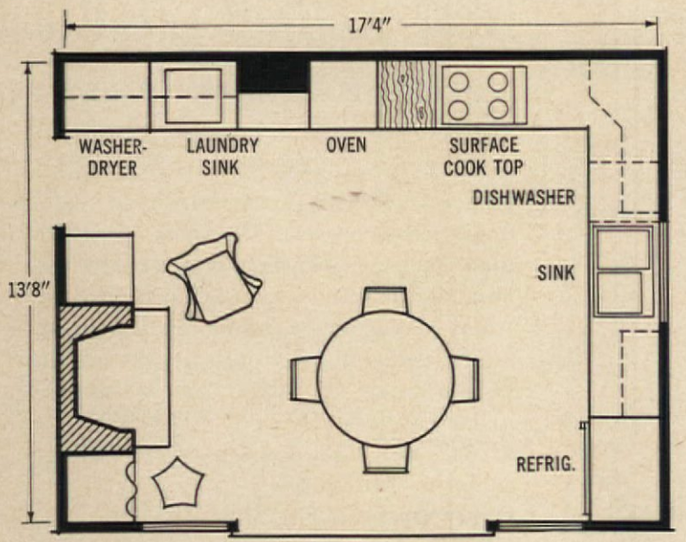
SILVER OFFER! 8-inch Paul Revere Bowl by Oneida Ltd. Silversmiths for only $6.00 including tax. (Value $11.00) Heavy silverplate. Send name, address and front panel from Twinkle Cream for Silver box with check or money order to Box 1560-B, Clinton, Iowa. (Offer good in U.S.A. only while supply lasts.)

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. HABEEB

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-upkeep 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.

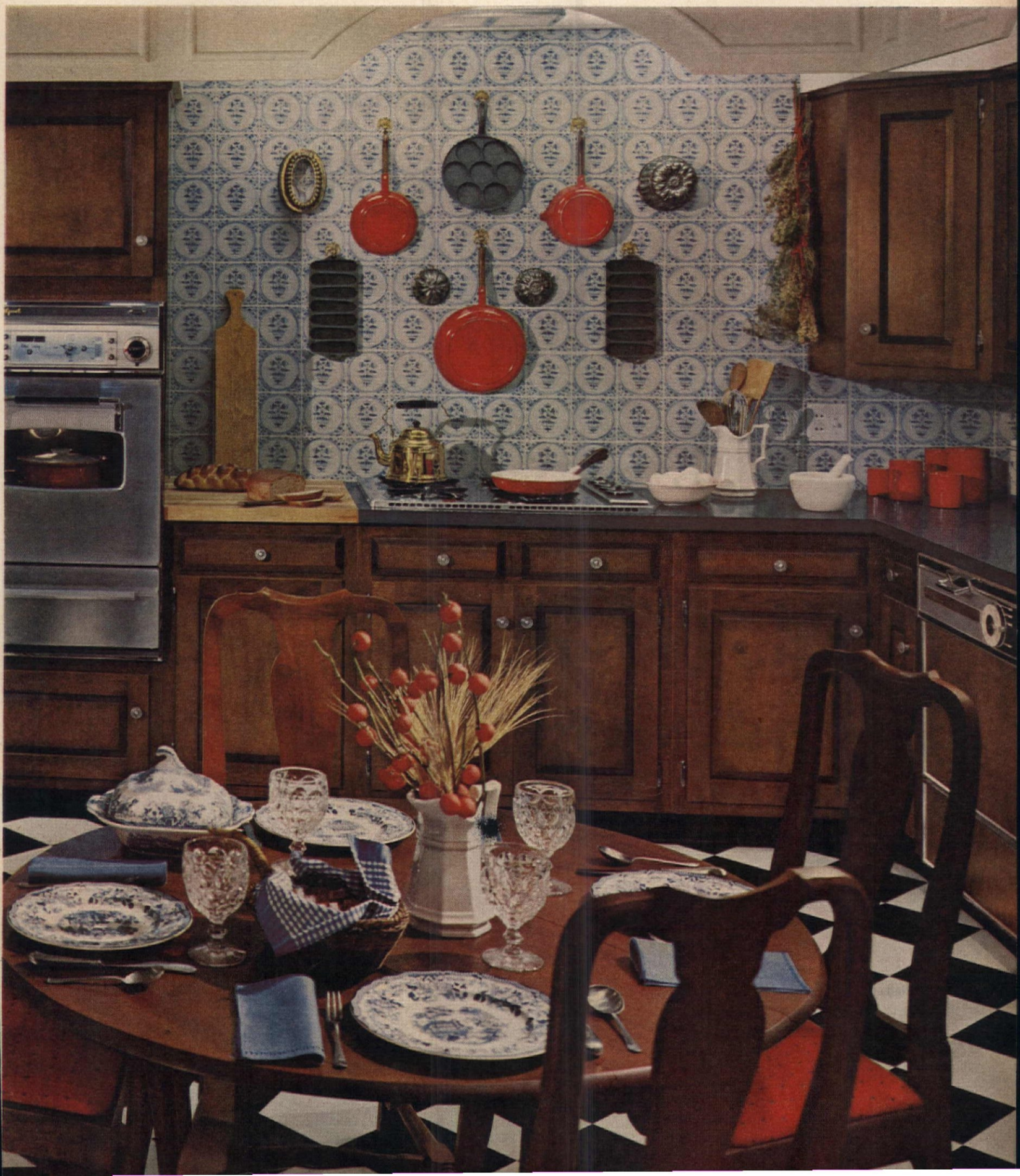
(continued)

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



The American

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 calking 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.

Home Reporter

J. H. INGERSOLL, EDITOR

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.

Rudy Muller

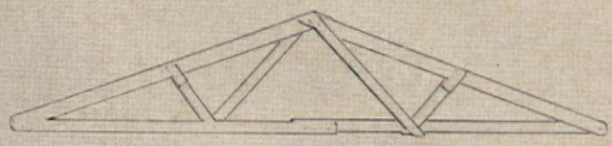
Trusses Do More Than Substitute for Rafters, Beams

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 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.

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.

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 $1\frac{1}{8}$″ 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.

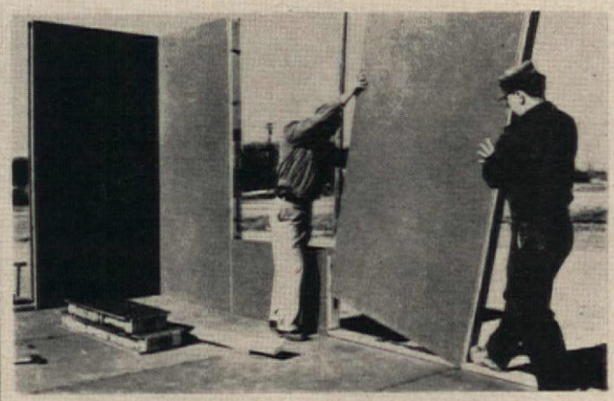
Wall Panels Have Sturdy Present, Exciting Future

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

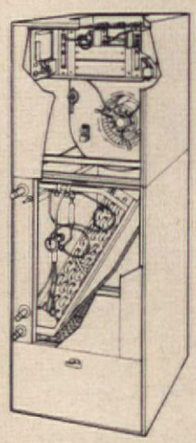


Typical wall panel is positioned by two men in about two minutes. All four walls are up in less than half a day.

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 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.



Here is typical indoor unit.

They are operated electrically, 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 somewhere 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.*

LISANTI

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!

F. M. DEMAREST

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."

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.*

LISANTI

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

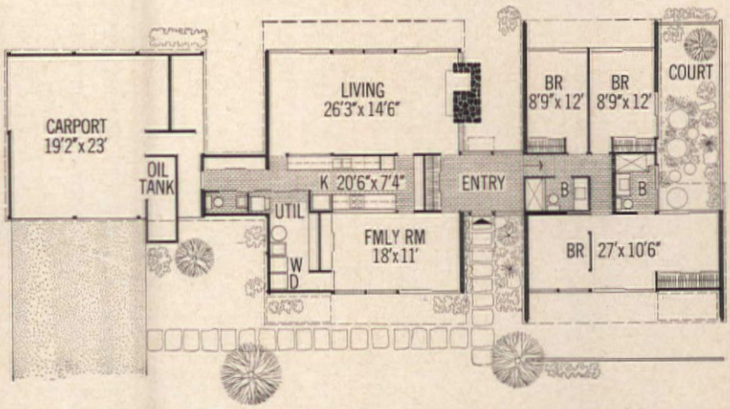
Long, angular lines of the house make the most of the beautiful wooded site. Entry is recessed between the two zones.

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.

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



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

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!*

Shopping Information, page 81

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:

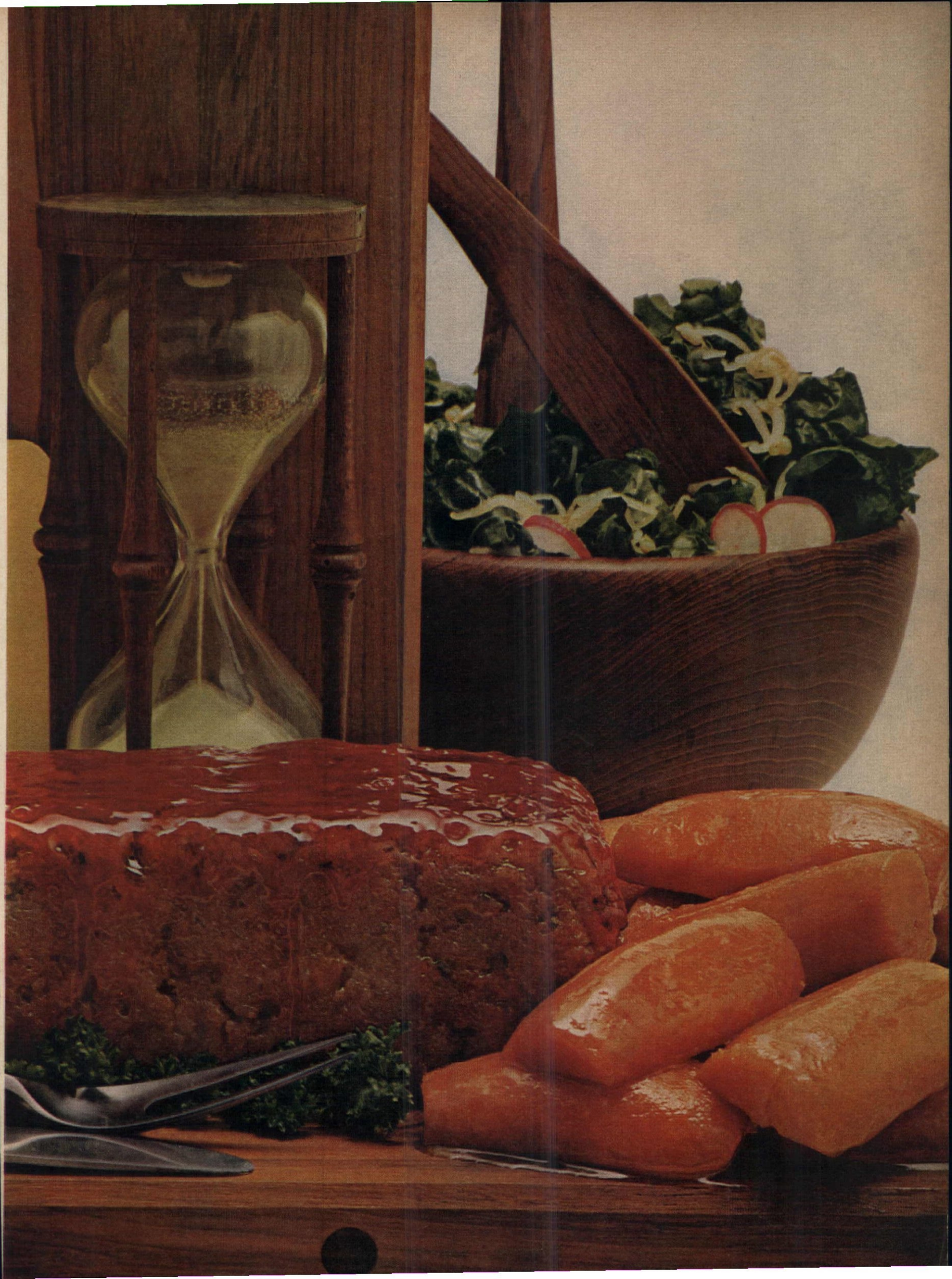
*Apple Glazed Supper Loaf**
with Yams
*Spinach and Bean Sprout Salad**
French Dressing
*Lemon Apple Whip**
Ginger Cookies

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

Irwin Horowitz



A SPECIAL SMÖRGÅSBORD

The smörgåsbord was originally a country feast to which each lady brought the specialty of her own shining kitchen. It has now become one of America's most popular and elegant entertaining institutions.

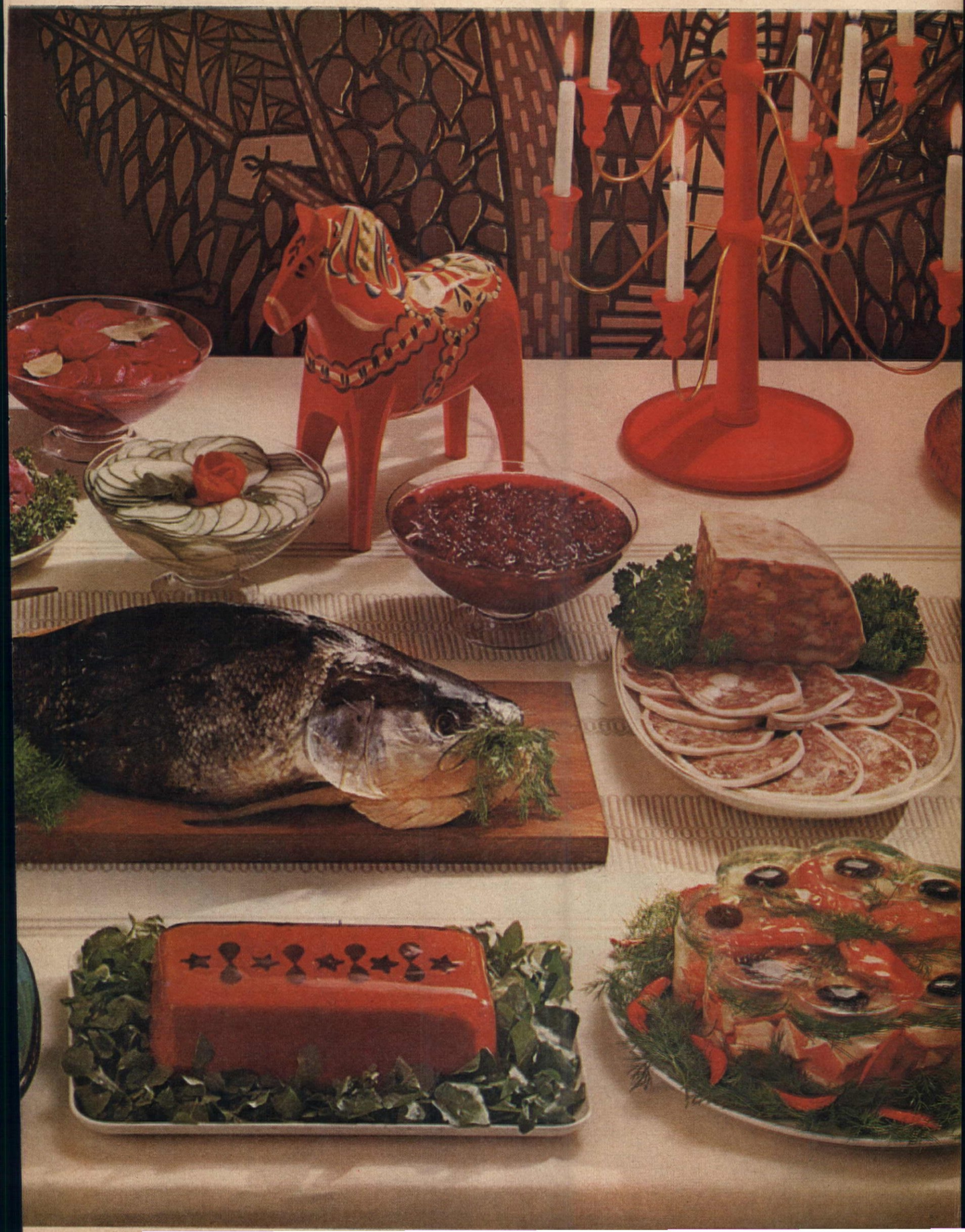
Does the long, glittering table with its array of colorful, mouth-watering concoctions seem bewildering? On these pages, we show you how to prepare, arrange, and *enjoy* a special-occasion smörgåsbord.

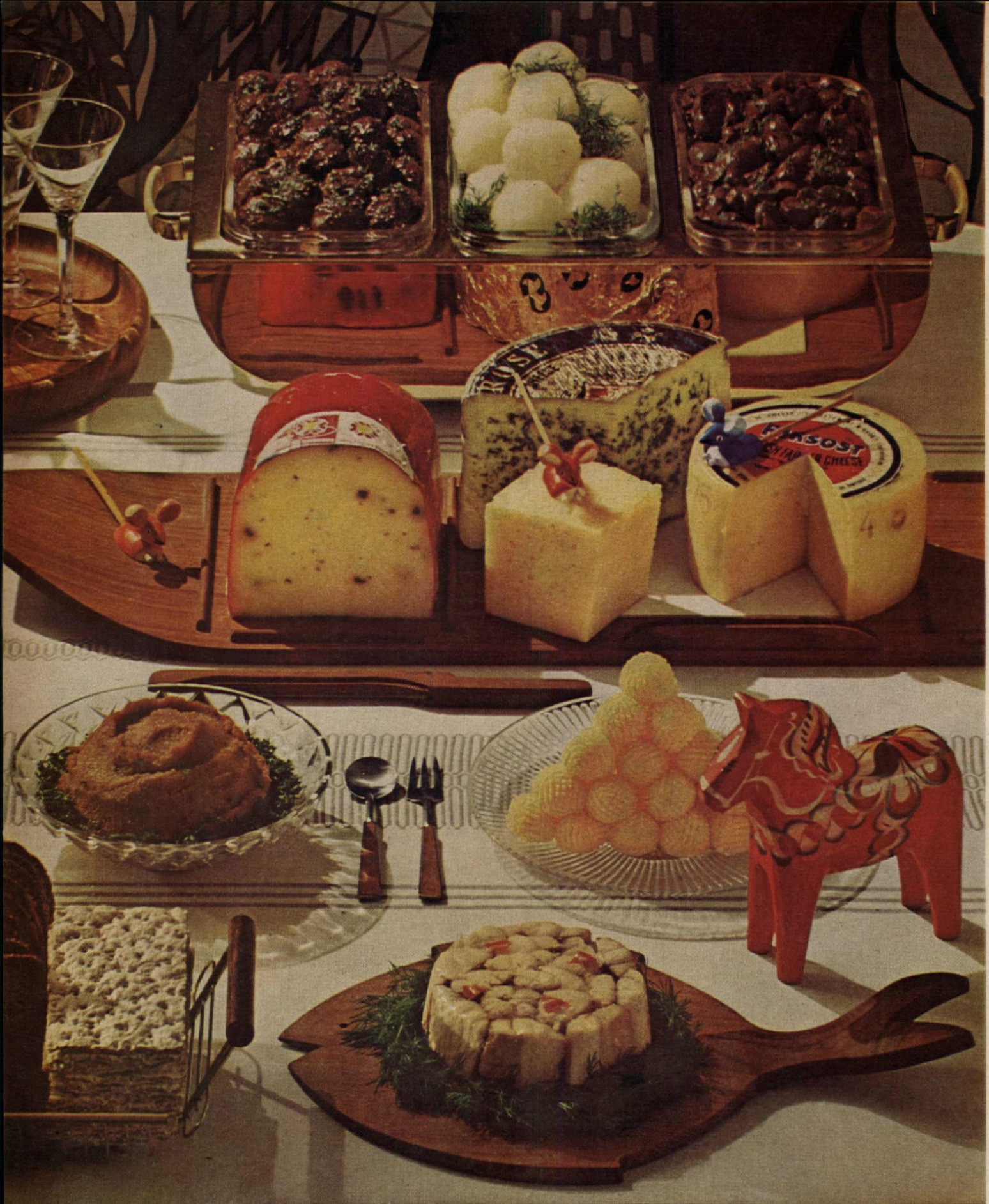
Whatever the number of dishes, smörgåsbord should be eaten in courses. Begin with one of the palate-teasing herring or anchovy dishes. Take a *clean* plate and meander through the fish combinations, such as Lobster Mold, then on to the cold cuts and rich Liver Pâté. The hot dishes come next—tiny Swedish Meat Balls bubbling in gravy, potatoes, succulent Kidney Sauté with mushrooms. Linger awhile over a light salad—then over to the cheese board! (continued)

***Top to bottom, left to right:** Danish Ham with Asparagus and Tomatoes, Herring Salad,* Pickled Beets, Pickled Cucumber, Lingonberries, Smoked Salmon, Pressed Headcheese,* Smoked Eel, Anchovies Swedish, Pickled Herring, Liver Pâté,* Lobster Mold.**

***Recipes on page 53**

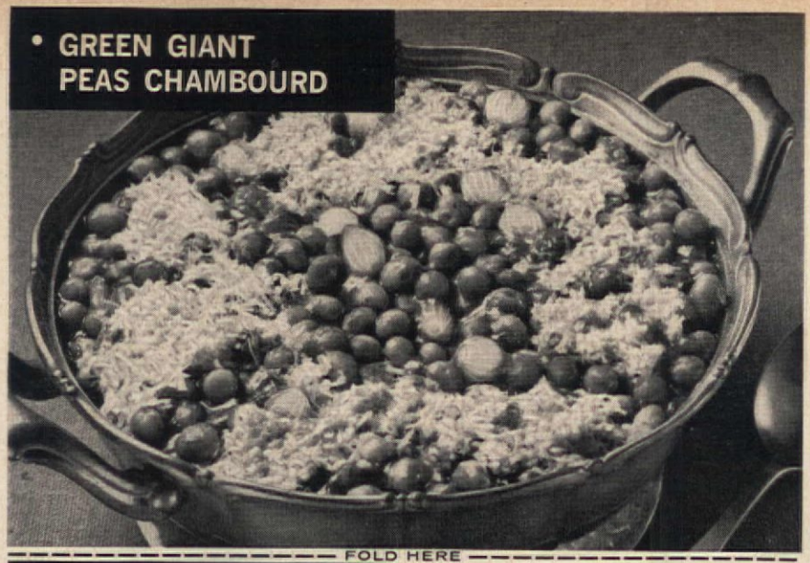
F. M. Demarest Shopping Information, page 81





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, Riksost, Swedish Caviar, Butter Balls, and Jellied Pickled Eel.*



• GREEN GIANT PEAS CHAMBOURD

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• 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
⅓ 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.

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Good things from the garden

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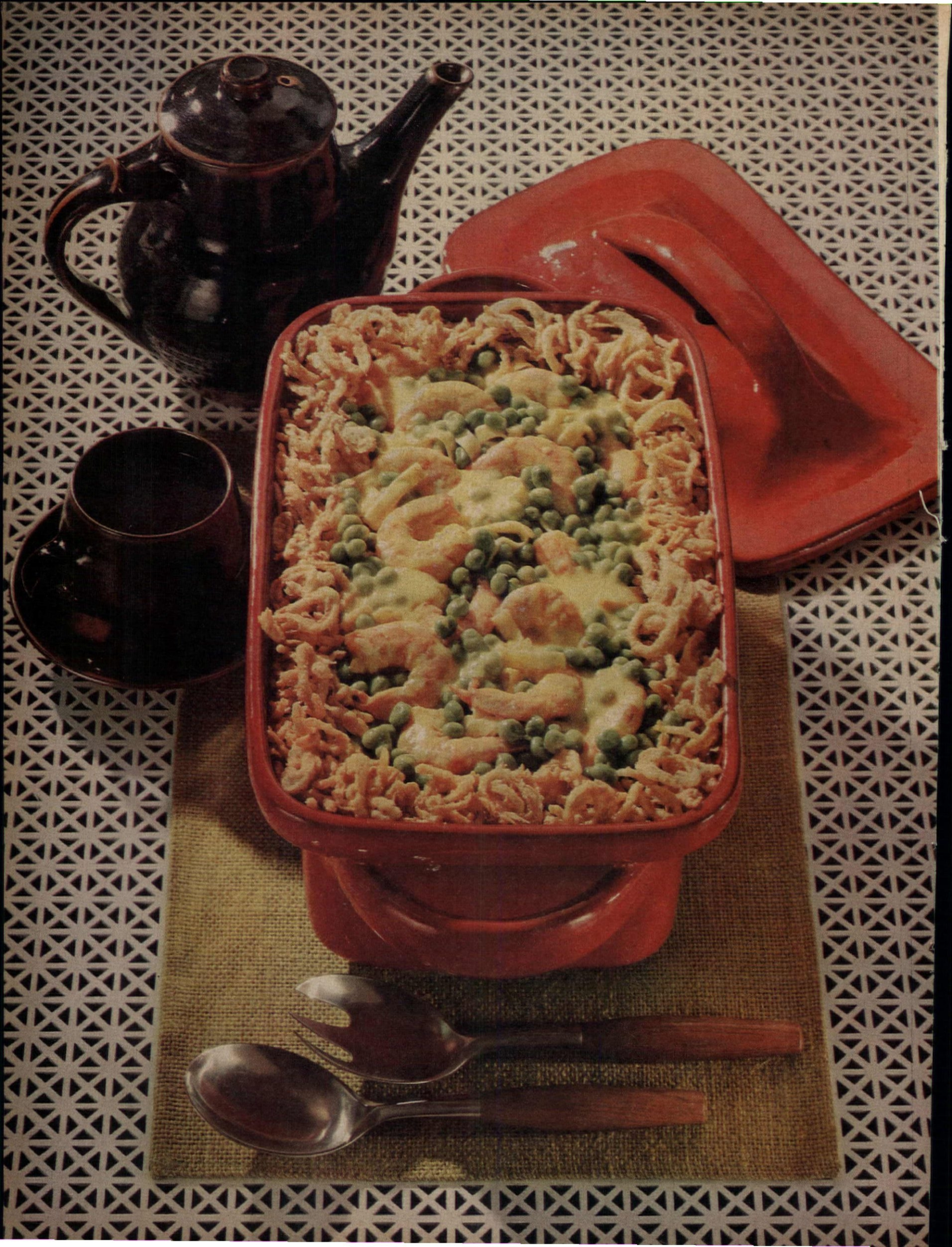
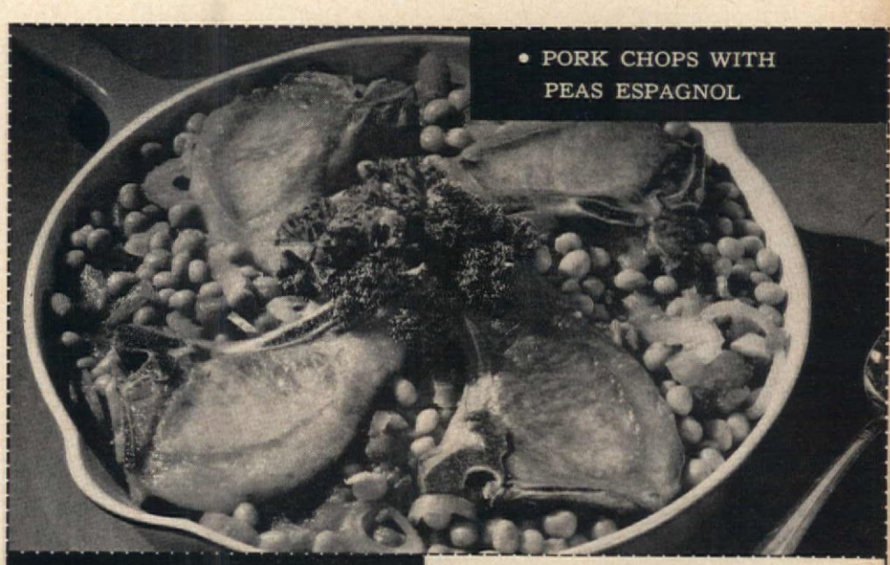


JUNE M. TOWNE and Food Staff

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.

¼ c. butter or margarine
¼ c. flour
1 tsp. salt
½ 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 2½-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

M. DEMAREST

Shopping Information, page 81

• PORK CHOPS WITH PEAS ESPAGNOL

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

4 loin pork chops
2 tbs. pure vegetable oil
1 medium-sized onion, sliced
½ c. diced celery
½ diced green pepper
1 tsp. salt
½ tsp. basil or oregano
¼ 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

• 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**

• GREEN PEA SUPPER SOUFFLÉ

• GREEN PEAS WITH SHRIMP CURRY

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

⅓ c. butter or margarine
3 tbs. flour
1 tsp. seasoned salt
1 tsp. curry powder
¼ tsp. pepper
1½ cups milk
1 pkg. (8 oz.) noodles, cooked and drained
1 can (about 1 lb.) green peas, drained; or 1 can (about 1 lb.) green peas with onions, drained
1 pkg. (10 oz.) shelled, de-veined frozen shrimp, cooked; or 2 cans (4½–5 oz. each) shrimp
1 tbs. chopped parsley
1 can (3½ oz.) French-fried onion rings

• 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**

MORE WAYS TO SERVE PEAS

● **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 ¼ 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 ½ 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 ¼ 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 ¼ 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.

AMERICAN HOME RECIPES (pictured in color on pages 42 and 43)

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.

• 60 MINUTE MEAL

MENU

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

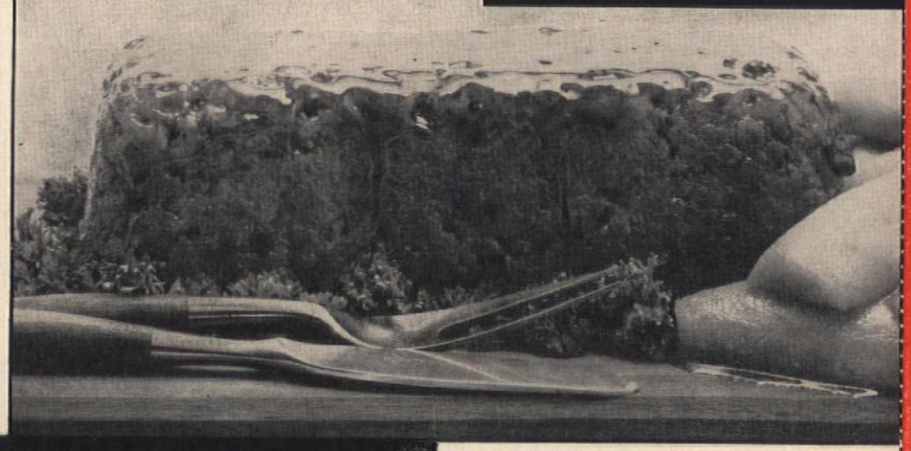
SHOPPING LIST

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

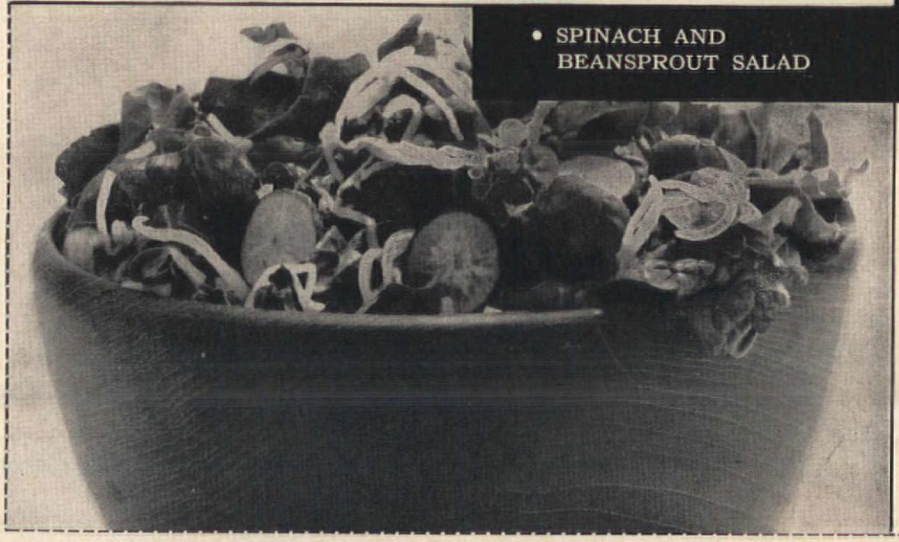
Check your staples shelf to be sure these are on hand: dry mustard, seasoned salt, sugar, butter or margarine.

See other side of card for time schedule.

• APPLE GLAZED SUPPER LOAF WITH YAMS



• SPINACH AND BEANSPROUT SALAD



• LEMON APPLE WHIP

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

1 pkg. lemon-flavored chiffon pie filling mix
½ c. boiling water
½ c. cold water
¼ c. sugar
1 jar (8 oz.) applesauce
Raspberry jelly

● Combine pie filling mix and ½ cup boiling water; mix thoroughly. Add ½ cup cold water; beat vigorously with rotary beater or at highest speed on electric mixer until mixture is very foamy. Add ¼ 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**

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 ¼ cup molasses and ¼ 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 2½ 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

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.

AMERICAN HOME RECIPES (pictured in color on pages 42 and 43)

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.

• LEMON APPLE WHIP

• APPLE GLAZED SUPPER LOAF WITH YAMS

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

2 cans (12 oz. each) luncheon meat
1½ c. packaged dry bread crumbs
1 egg
½ c. milk
¼ c. pickle relish
1 tsp. dry mustard
1 can (1 lb. 10 oz.) syrup-packed yams
¼ c. melted butter or margarine
½ c. apple jelly

● 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**

• 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.

½ of 10 oz. pkg. washed spinach
1 can (1 lb.) bean sprouts, drained
1 tsp. seasoned salt
¼ c. French dressing

● 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.

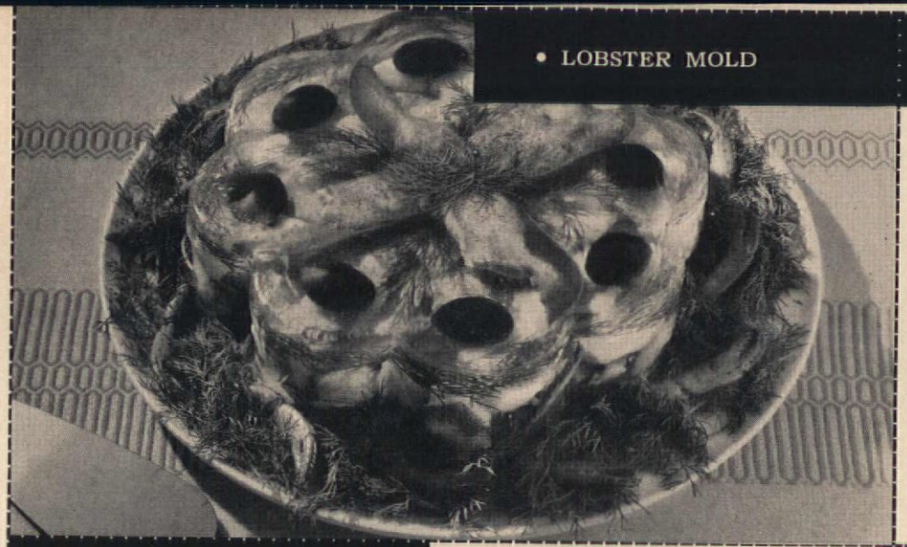
Makes 4 servings *125 cal. per serving* *Source of vitamins A, C*

***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)



• LOBSTER MOLD

• LIVER PÂTÉ

Soaking time: 6–8 hrs.
Preparation time: 30 min.
Chilling time: overnight
Baking time: 1 hr. 50 min.

1½ lbs. calves' liver
1 medium-sized onion, chopped (½ c.)
1 can anchovy fillets in oil
1 tbs. salt
¼ tsp. ginger
⅛ tsp. ground cloves
Dash of cayenne
¾ c. flour
1½ c. heavy cream
7 slices bacon
1 envelope plain gelatin
¼ c. cold water
1 can consommé
Truffles or ripe olives
Water cress

● 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 ¼-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

• HERRING SALAD

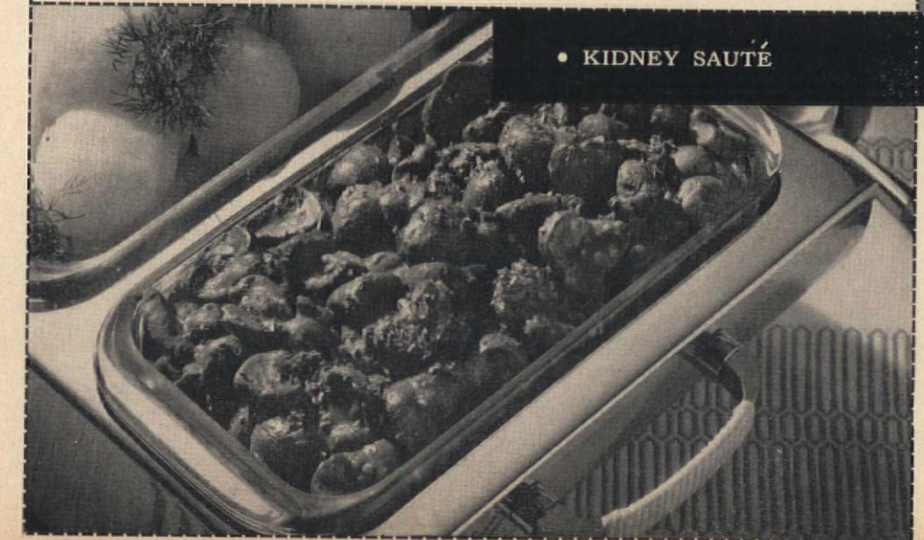
Soaking time: 6–8 hrs.
Preparation time: 30 min.
Chilling time: several hrs.

1 salt herring
2 c. boiled, diced potatoes
2 c. diced cooked beets
1 small onion, chopped (¼ c.)
½ c. chopped dill pickles
1 tbs. salt
3 tbs. vinegar
2 tbs. water
2 tbs. sugar
Hard-cooked egg
Parsley

● Clean herring; remove head; soak in cold water 6 to 8 hours, or overnight. Drain; skin; bone; chop. Mix chopped herring, potatoes, beets, onion, and pickles. Blend carefully with salt, vinegar, water, and sugar. Rinse 1½-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

• SWEDISH MEAT BALLS



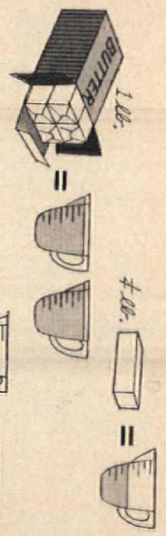
• KIDNEY SAUTÉ

• PRESSED HEADCHEESE

Preparation time: 30 min.
Cooking time: 2½ hrs.
Chilling time: overnight

2 lbs. lean pork
3 lbs. breast of veal
1½ qts. water
1 tbs. salt
10 whole allspice
10 whole white peppercorns
1 bay leaf
1 carrot
2 slices onion
1 lb. salt pork
2 tsp. salt
½ tsp. ground white pepper
¼ tsp. ground allspice
¼ tsp. ground cloves
1 envelope plain gelatin
¼ c. cold water

● Rinse pork and veal in cold water; place in kettle with 1½ 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 1½-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 ¼ 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



How to measure butter or margarine:

4 sticks (1 lb.)=2 c.
1 stick (¼ lb.)=½ c.
½ stick (⅛ lb.)=¼ c. or 4 tbs.

Smörgåsbord

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

• KIDNEY SAUTÉ

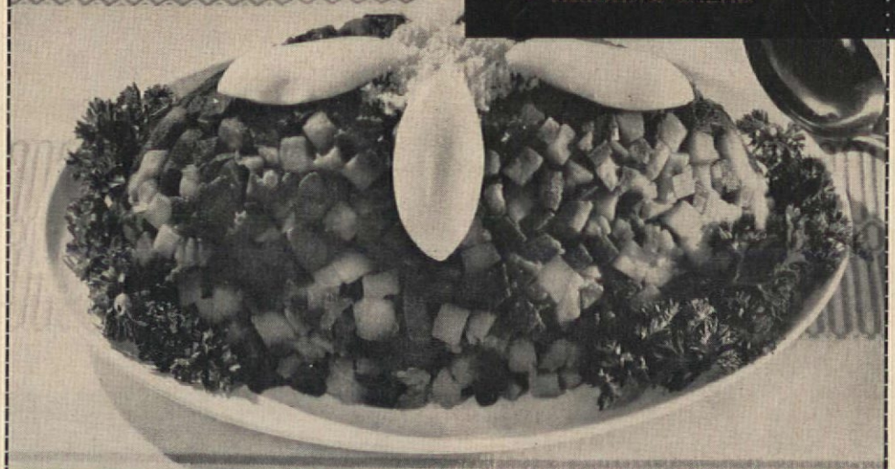
Preparation time: 20 min.
Cooking time: 30 min.

2 veal kidneys (about 1 lb. each)
4 tbs. butter or margarine
1 lb. mushrooms, sliced
2 tbs. flour
1 can consommé
¼ 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**

• PRESSED HEADCHEESE



• HERRING SALAD

• SWEDISH MEAT BALLS

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

2 lbs. ground beef
⅔ c. pkg. bread crumbs
1 can consommé
4 tsp. grated onion
2 tsp. salt
¼ tsp. pepper
Fat for frying
1 tbs. flour
1 c. heavy cream
2 tbs. chopped parsley

● 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 ½ 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**

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.

• LOBSTER MOLD

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

3 live lobsters (2 lbs. each), boiled or: 6 cans (6½ oz. each) lobster
4 envelopes plain gelatin
2 c. cold water
3 c. white wine
¼ 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 ½-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, ½ teaspoon sugar, and 2 tablespoons chopped fresh dill. Chill until serving time.

***Tested in* THE AMERICAN HOME KITCHENS**

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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.

Shopping Information, page 81

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 porcelain 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

AMERICAN HOME TESTING CENTER

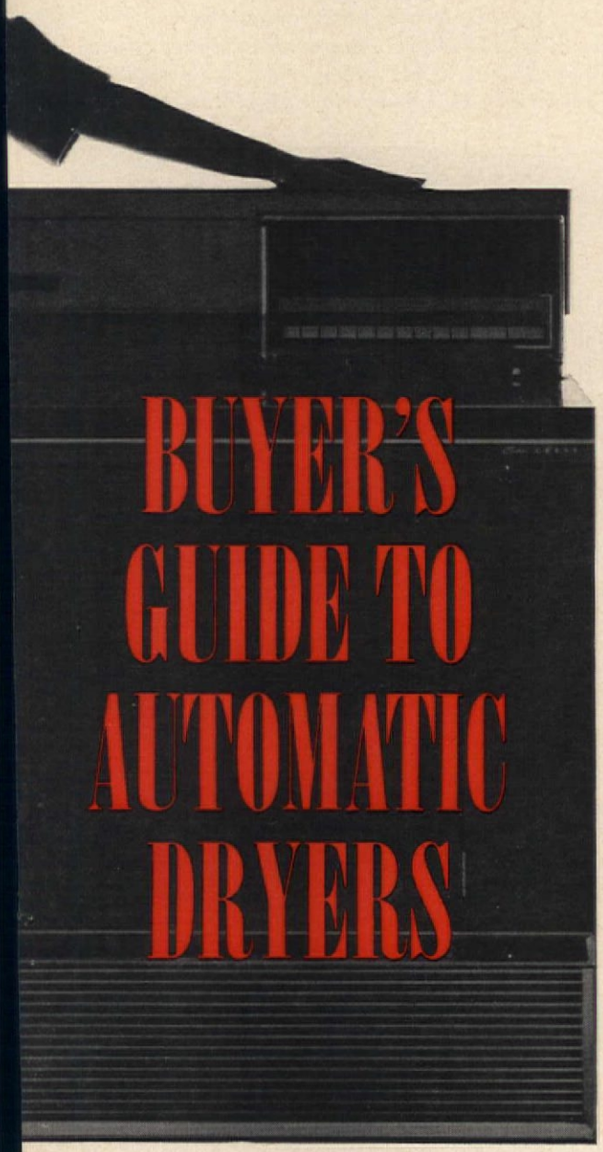
thermostatic devices that measure temperature changes, or electronic sensors that actually feel moisture in fabrics, and stop drying automatically.

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.



BUYER'S GUIDE TO AUTOMATIC DRYERS

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 moisture 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

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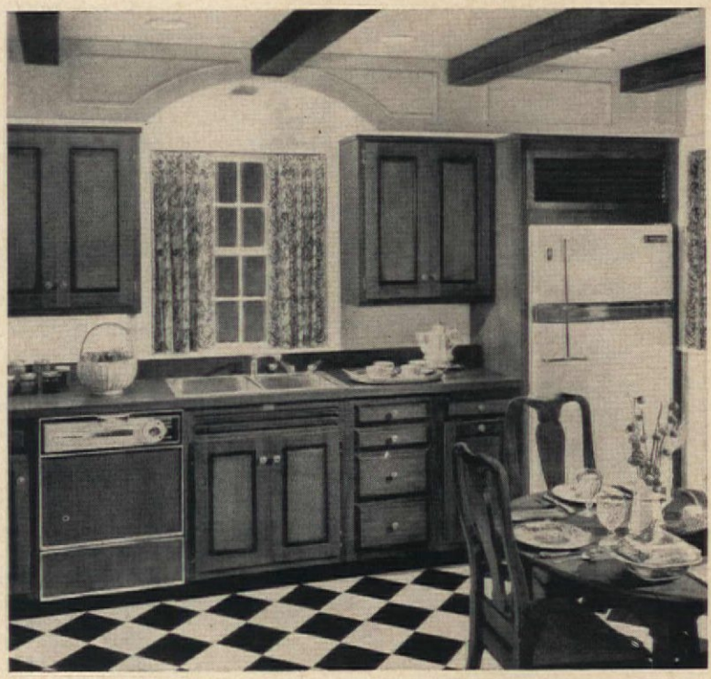
THE AMERICAN HOME, Dept. AS, American Home Bldg. Forest Hills 75, N. Y.

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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AMERICAN HOME CONSTRUCTION PATTERN

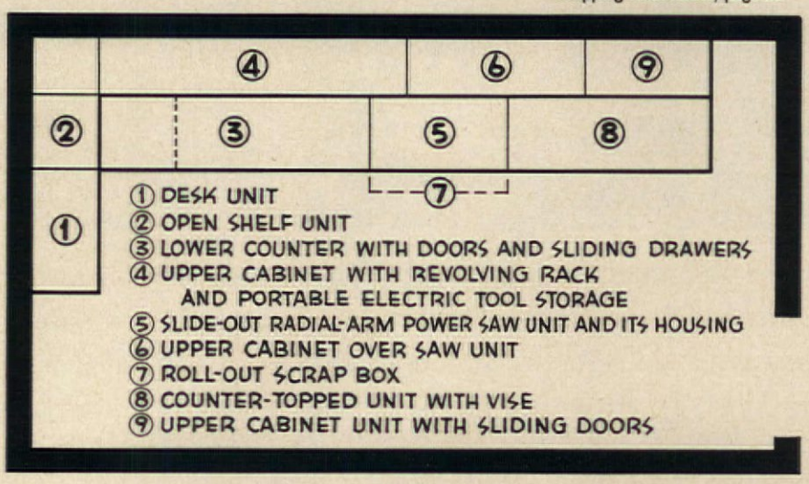
BUILD YOUR OWN WORKSHOP STORAGE CABINETS

DESIGNER: BILL BAKER PHOTOGRAPHER: F. 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 vanitory, 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.

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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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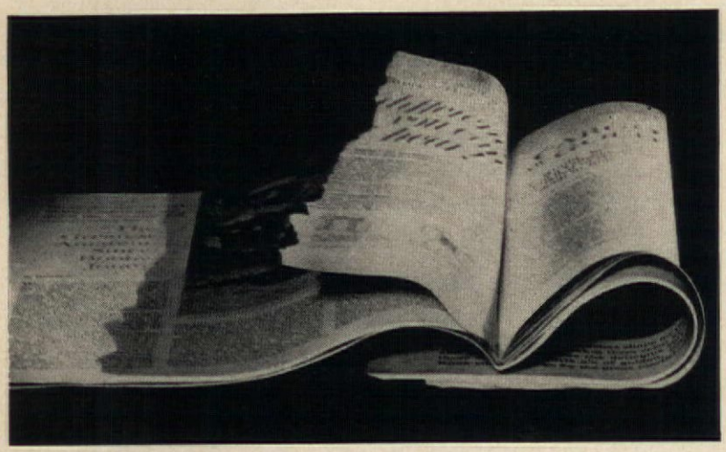

Who makes it this easy to shop for a new appliance?

Brand Name appliance manufacturers! Each year, these reliable firms use many types of media (magazine advertising is just one example) to keep you informed of the latest improvements.

Why? Because Brand Name appliance manufacturers have a basic conviction about their products.

Count on Brand Name companies. They're leaders—in new products—new ideas—and quality (of course). They're the authorities on style and fashion. Be sure to look closely at the ads in this magazine. You'll see what we mean.

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HELPFUL BOOKLETS YOU CAN SEND FOR

101 Rust Stopping Tips. There are 36 fact-packed pages of helpful, money-saving ideas on controlling rust on the outside and inside of your house, garage, car. Try it on the children's toys. Free from Rust-Oleum Corp., Dept. AH, 2990 Oakton Street, Evanston, Ill.

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, Oreg.

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.

THE NEW MARCH OF DIMES NF THE NATIONAL FOUNDATION

VACCINE POLIO BIRTH DEFECTS ARTHRITIS

THEODORE A. WESTON AND GRETCHEN HARSHBARGER

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.

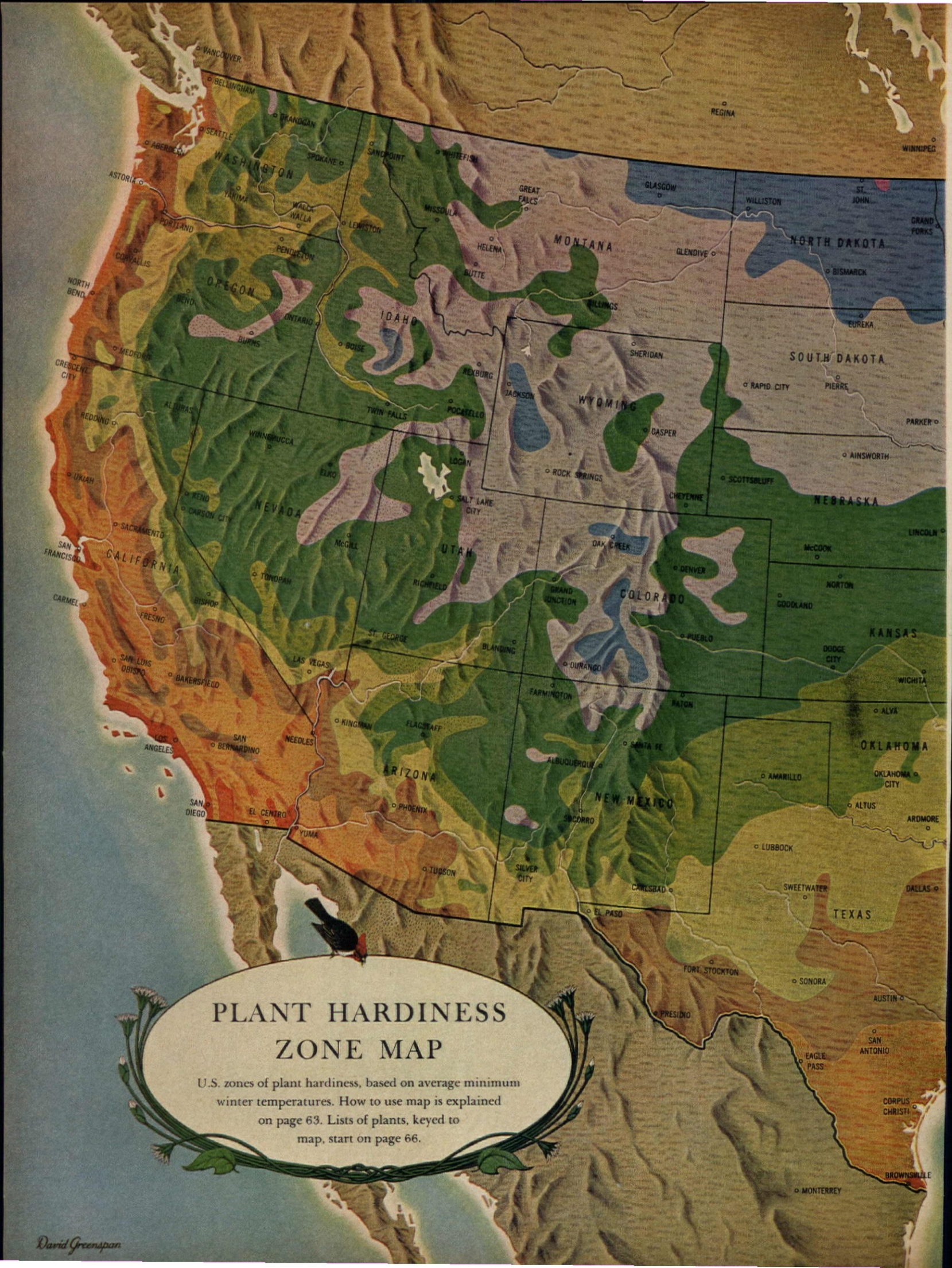
Our zone ratings are intended to indicate zones of **satisfactory** adaptability of the plants listed. Many plants may survive in colder or warmer zones than those indicated. But in such cases mere survival may not represent satisfactory performance, and so unless you wish to

(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.

David Greenspan

INTERNATIONAL FALLS
THIEF RIVER FALLS
FERGUS FALLS
DULUTH
ASHLAND
IRON RIVER
SAULT STE MARIE
MINNESOTA
MINNEAPOLIS
EAU CLAIRE
GREEN BAY
WISCONSIN
PIPESTONE
ROCHESTER
MADISON
TRAVERSE CITY
MICHIGAN
GRAND RAPIDS
DETROIT
MASON CITY
SIOUX CITY
IOWA
CEDAR RAPIDS
DES MOINES
OMAHA
CHICAGO
SOUTH BEND
TOLEDO
CLEVELAND
ILLINOIS
INDIANA
OHIO
QUINCY
SPRINGFIELD
INDIANAPOLIS
COLUMBUS
CINCINNATI
KANSAS CITY
TOPEKA
ST. LOUIS
MISSOURI
EVANSVILLE
LOUISVILLE
HARRISBURG
KENTUCKY
BOWLING GREEN
JOPLIN
SIKESTON
NASHVILLE
KNOXVILLE
TULSA
EUREKA SPRINGS
TENNESSEE
MEMPHIS
ARKANSAS
McALESTER
LITTLE ROCK
OXFORD
DECATUR
BIRMINGHAM
ATLANTA
TEXARKANA
EL DORADO
MISSISSIPPI
ALABAMA
MACON
SHREVEPORT
JACKSON
MONTGOMERY
GEORGIA
TYLER
ALEXANDRIA
HATTIESBURG
TIFTON
DE QUINCY
MOBILE
TALLAHASSEE
LOUISIANA
NEW ORLEANS
HOUSTON
GALVESTON
JACKSONVILLE
ORLANDO
TAMPA
FLORIDA
FORT MYERS
MIAMI
SAVANNAH
CHARLESTON
COLUMBIA
GREENVILLE
SOUTH CAROLINA
WILMINGTON
RALEIGH
HICKORY
NORTH CAROLINA
HATTERAS
ROANOKE
NORFOLK
RICHMOND
CHARLESTON
CLARKSBURG
W. VA
VIRGINIA
WASHINGTON
BALTIMORE
MD.
DEL.
CAPE MAY
PITTSBURGH
HARRISBURG
PHILADELPHIA
TRENTON
N. J.
NEW YORK CITY
PENNSYLVANIA
ERIE
JAMESTOWN
BUFFALO
TOWANDA
SCRANTON
ALBANY
SYRACUSE
NEW YORK
TORONTO
WATERTOWN
OTTAWA
MONTREAL
QUEBEC
MALONE
MONTPELIER
VT.
N. H.
CONCORD
PORTLAND
BOSTON
MASS.
CONN.
R. I.
FORT KENT
HOULTON
MAINE
OLD TOWN
AUGUSTA
N
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
SCALE 0 60 120 180 MILES

Plant Hardiness Ratings

CONIFEROUS TREES & SHRUBS (NEEDLED EVERGREENS)

	Zones
ARAUCARIA	
Bunya-Bunya Tree (A.bidwilli)	9–10
Monkey-Puzzle Tree (A.araucana)	7b–10
Norfolk Island Pine (A.excelsa)	10–10
ARBORVITAE	
American (Thuja occidentalis), including 'Globe,' 'Pyramidal,' 'Wareana'	3–8
'Nigra,' 'Woodward'	4–8
Oriental (T.orientalis), including 'Baker,' 'Bonita,' 'Golden,' 'Pyramidal,' 'Texas Blue'	6–10a
AUSTRALIAN PINE or BEEFWOOD	
Australian Pine (Casuarina cunninghamiana)	9b–10
Coast Beefwood (C.stricta)	9–10
Horsetail Beefwood (C.equisetifolia)	9–10
CEDAR	
Atlas (Cedrus atlantica)	7–9
Cedar of Lebanon (C.libani)	6–9
Deodar (C.deodara)	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 (C.japonica)	6b–9a
CYPRESS	
Arizona (Cupressus arizonica)	6b–9
Bald (Taxodium distichum)	5–10
Dawn—see Redwood	
False—see False-Cypress	
Forbes or Tecate (C.forbesi)	7–9
Italian (C.sempervirens), including 'Blue,' 'Columnar,' 'Spreading'	7b–9
Monterey (C.macrocarpa)	7b–9b
Montezuma (T.mucronatum)	8–10
Nootka—see False-Cypress	
FALSE-CYPRESS or RETINOSPORA	
Hinoki (Chamaecyparis obtusa)	5–8
Lawson or Port Orford Cedar (C.lawsoniana), including 'Birdsnest,' 'Blue,' 'Golden,' 'Ellwood,' 'Dwarf,' 'Silver'	6b–9a
Nootka, Alaska or Yellow (C.nootkatensis)	5b–9a
Sawara (C.pisifera), including 'Plume,' 'Moss,' 'Golden,' 'Thread'	5–9
FIR	
Balsam (Abies balsamea)	3–7
Cork (A.lasiocarpa arizonica)	5–7
Douglas (Pseudotsuga taxifolia)	3b–9
White or Silver (A.concolor)	4–8
HEMLOCK	
Canada (Tsuga canadensis)	3–9a
Carolina (T.caroliniana)	5–8a
INCENSE CEDAR, CALIFORNIA (Libocedrus decurrens)	6–9
JUNIPER	
Chinese (Juniperus chinensis), including 'Armstrong,' 'Hetz,' 'Japanese,' 'Keteleer,' 'Pfitzer,' 'Pyramidal,' 'Sargent,' 'Twisted,' 'Weaver'	4–10
Common (J.communis), including 'Prostrate,' 'Swedish,' 'Irish'	3–9 5b–10
Creeping (J.horizontalis), including 'Andorra,' 'Bar Harbor,' 'Glauca,' 'Waukegan'	3–9
Japgarden (J.procumbens)	4–9
Meyer (J.squamata meyeri)	5–9
Red Cedar, Eastern (J.virginiana)	3–10
Red Cedar, Southern (J.silicicola)	8–10
Red Cedar, Western, or Rocky Mountain Juniper (J.scopulorum), including 'Silver Glow,' 'Silver Beauty,' 'Springtime,' 'Colo-Green,' 'Admiral,' 'Platinum'	3–10
Savin (J.sabina)	3–9
Tamarix (J.s.tamaricifolia)	5–10
Shore (J.conferta)	5b–10
Spiny Greek (J.excelsa stricta)	6b–9
LARCH	
Eastern (Larix laricina)	2–8
European (L.decidua)	3–9
Western (L.occidentalis)	5–9
METASEQUOIA—see Redwood	
MONKEY-PUZZLE TREE—see Araucaria	
PINE	
Aleppo (Pinus halepensis)	8–10
Australian—see Australian Pine	
Austrian (P.nigra)	4–8
Canary (P.canariensis)	8–10
Fern—see Podocarpus	
Himalayan (P.griffithi)	6–9
Italian Stone (P.pinea)	8–10
Japanese Black (P.thunbergi)	5b–9
Japanese Red (P.densiflora)	5–8
Jelecote (P.patula)	8–10
Limber (P.flexilis)	3b–9
Monterey (P.radiata)	7b–9
Mugho (P.mugo mughus)	3–8
Norfolk Island—see Araucaria	
Norway or Red (P.resinosa)	3–8
Scotch (P.sylvestris)	3–8a
Swiss Stone (P.cembra)	3–8
White, Eastern (P. strobus)	3b–9a
Yew—see Podocarpus	
PLUM-YEW	
Japanese (Cephalotaxus drupacea)	6–8
Chinese (C.fortunei)	7–9a
PODOCARPUS	
Fern Pine (P.elongatus)	9–10
Yew Pine (P.macrophyllus)	8b–10
REDWOOD (Sequoia sempervirens)	7b–9a
REDWOOD, DAWN (Metasequoia glyptostroboides)	5b–9
RETINOSPORA—see False-Cypress	
SEQUOIA, GIANT (Sequoiadendron giganteum)	7–8
SPRUCE	
Black Hills (Picea glauca densata)	3–8
Colorado (P.pungens)	3–8a
Norway (P.abies, P.excelsa)	3–8a
Serbian (P.omorika)	4b–8
White (P.glauca)	3–8
YEW	
Canada (Taxus canadensis)	3–9a
English (T.baccata), most forms	7–9a
'Spreading'	5b–8
Intermediate (T.media), including 'Brown,' 'Hatfield,' 'Hicks'	6b–9a
Japanese (T.cuspidata), most forms	5–8
Plum—see Plum-Yew	

BROADLEAF TREES

	Zones
ACACIA, ROSE—see Locust	
ACACIA, WATTLE, or MIMOSA—see also Shrub List	
Most kinds, including Cootamundra (A.baileyana) and Silver (A.decurrens dealbata)	9–10
Pearl (A.podalyriaefolia)	10–10
AILANTHUS—see Tree of Heaven	
ALBIZZIA—see Silk Tree	
ALDER	
Italian (Alnus cordata)	5b–9
Black or European (A.glutinosa)	4–8
White (A.rhombifolia)	6–9
ASH	
Blue (Fraxinus quadrangulata)	4–9a
Flowering (F.ornus)	6–9
Green (F.pennsylvanica lanceolata)	3–9a
Mountain—see Mountain Ash	
Velvet (F.velutina), including 'Modesto' and 'Montebello'	6–9
White (F.americana)	4–8
AZARA, LANCELEAF (A.lanceolata)	9–10
BANYAN—see Ficus	
BASSWOOD—see Linden	
BAY	
Loblolly—see Gordonia	
Red or Bull (Persea borbonia)	7b–10
Sweet—see Laurel and Magnolia	
BEECH	
American (Fagus grandifolia)	4b–8
European (F.sylvatica), including 'Weeping' and 'Purpleleaf'	5–8
BELL FLAMBEAU or AFRICAN TULIP TREE (Spathodea campanulata)	10–10
BIRCH	
Canoe or Paper (Betula papyrifera)	2–8
Chinese Paper (B.albo-sinensis)	6–9a
European White (B.pendula)	3–8
Gray or Clump (B.populifolia)	4b–8a
BIRD-OF-PARADISE BUSH—see Poinciana	
BLACKHAW (Viburnum prunifolium)	4–8
BOTTLE TREE or FLAME TREE	
Flame Tree (Brachychiton acerifolium)	9–10
Kurrajong (B.populneum)	9b–10
BOX, BRISBANE (Tristania conferta)	9b–10
BOX ELDER—see Maple	
BUCKEYE—see Horse Chestnut	
CAJEPUT or PUNK TREE (Melaleuca leucadendron)	9b–10
CAMPHOR TREE (Cinnamomum camphora)	8b–10
CANDLENUT or VARNISH TREE (Aleurites moluccana)	9b–10
CAPE CHESTNUT (Calodendrum capensis)	9–10
CAROB or ST. JOHN'S BREAD TREE (Ceratonia siliqua)	9–10
CASSIA or SHOWER	
Candle Shower (Cassia alata)	9–10
Golden Shower (C.fistula)	10–10
Java Shower (C.javanica)	10–10
CATALPA or INDIAN BEAN	
Common or Southern (C. bignonioides)	5–9
Western or Northern (C.speciosa)	5–9
CHASTE TREE (Vitex agnus-castus)	5b–9
CHERRY, ORNAMENTAL	
Brush or Surinam—see Eugenia	
Cornelian—see Dogwood	
Oriental or Japanese Flowering (Prunus species and hybrids)	
Most named varieties	6b–9a
Hardiest, including P.sargenti and P.yedoensis	6–8
CHINABERRY or TEXAS UMBRELLA TREE (Melia azedarach)	7b–10a
CHITTAMWOOD or WOLLY BUCKET BUMELIA (Bumelia lanuginosa)	6–9
CHRISTMAS TREE—see Iron Tree	
CORK OAK, AMUR (Phellodendron amurense)	3b–9a
COTTONWOOD—see Poplar	
CRABAPPLE, ORNAMENTAL FLOWERING (Malus species and hybrids)	
Most named varieties	4–9a
Hardiest, including 'Bechtel' (M. ioensis plena) and 'Siberian' (M.baccata)	3–8
CRAPEMYRTLE (Lagerstroemia indica)	7–9
CUCUMBER TREE—see Magnolia	
DESERT WILLOW (Chilopsis linearis)	6b–10
DEVILWOOD (Osmanthus americanus)	7–9
DOGWOOD	
Cornelian Cherry (Cornus mas)	5–8
Evergreen (C.capitata)	8–9a
Flowering (C.florida)	5–9
Japanese (C.kousa)	5b–9a
Pacific or Western (C.nuttalli)	7–9a
DOVETREE (Davidia involucrata)	6b–9a
ELM	
American (Ulmus americana)	2–8
Chinese (U.parvifolia)	6–9
Evergreen (U.parvifolia sempervirens)	8–10
Scotch (U.glabra)	5–9a
Siberian (U.pumila)	3b–10
Smoothleaf (U.carpinifolia) 'Christine Buisman'	5–9
Winged or Wahoo (U.alata)	5b–9a
EMPRESS TREE (Paulownia tomentosa)	6–9
EUCALYPTUS or GUM	
Most kinds	9–10
Cider (E.gunni) and Snow (E. perriniana)	8–10
Snowland (E.niphophila)	7b–10
EUGENIA	
Brush Cherry (E.paniculata)	9–10
Surinam Cherry (E.uniflora)	9b–10
FICUS or FIG	
Banyan (Ficus benghalensis)	9b–10
Fiddleleaf Fig (F.lyrata)	9b–10
Moreton Bay Fig (F.macrophylla)	9b–10
Rubber Plant (F.elastica)	10–10
FIREWHEEL TREE (Stenocarpus sinuatus)	9–10
FLAME TREE—see Bottle Tree and Poinciana	
FRANKLINIA (F.alatamaha)	6b–9a
GINKGO or MAIDENHAIR TREE (G.biloba)	5–9
GOLDEN CHAIN TREE—see Laburnum	
GOLDEN RAIN TREE	
Koelreuteria paniculata	6–8
K.formosanum	9b–10
GOLD TREE—see Trumpet Tree	
GORDONIA or LOBLOLLY BAY G.lasianthus	7b–10a
GUAVA, STRAWBERRY (Psidium cattleianum)	8b–10
GUM	
Sour—see Sourgum	
Sweet—see Sweetgum	
GUM TREE—see Eucalyptus	
HACKBERRY	
Common (Celtis occidentalis)	4b–9a
Sugar (C.laevigata)	6–9
HAW, BLACK—see Blackhaw	
HAWTHORN (Crataegus)	
Most species	5–9a
HICKORY (Carya)	
Most species	5–8
HOLLY—see also Shrub List	
American (Ilex opaca)	6–10
English (I.aquifolium)	7–9a
HONEY LOCUST (Gleditsia triacanthos), including 'Moraine,' 'Sunburst,' 'Shademaster,' etc.	4b–9
HORSE CHESTNUT or BUCKEYE	
Common Horse Chestnut (Aesculus hippocastanum)	3b–9a
Ohio Buckeye (A.glabra)	4–8
Red or Ruby Horse Chestnut (A.carnea brioti)	4–9a
IRON TREE or CHRISTMAS TREE (Metrosideros tomentosa)	9–10
JACARANDA, SHARPLEAF (J.acutifolia)	9b–10
JERUSALEM THORN (Parkinsonia aculeata)	8b–10a
JUDAS TREE—see Redbud	
JUJUBE (Ziziphus jujuba)	5b–10a
KAFIR PLUM (Harpephyllum caffrum)	9b–10
KAPOK or SILK COTTON TREE (Ceiba pentandra)	10–10
KATSURA TREE (Cercidiphyllum japonicum)	4b–9a
KENTUCKY COFFEE TREE (Gymnocladus dioicus)	5–8
LABURNUM or GOLDEN CHAIN TREE	
L. anagyroides	6–8
L.watereri (L.vossi)	5b–8
LAUREL or SWEET BAY (Laurus nobilis)	8–10a
LILAC—see also Shrub List	
Japanese Tree (Syringa amurensis japonica)	5–8
LILY-OF-THE-VALLEY TREE (Clethra arborea)	9b–10
LINDEN or BASSWOOD	
American Linden (Tilia americana)	4–8
European Linden (T.europaea)	4b–9a
Littleleaf Linden (T.cordata)	4b–9a
Silver Linden (T.tomentosa)	4–9
LOCUST	
Black (Robinia pseudocacacia)	4b–9a
Honey—see Honey Locust	
MADRONE, PACIFIC (Arbutus menziesi)	8–9a
MAGNOLIA	
Bigleaf (M.macrophylla)	7–9
Merrill (M. x 'Merrill')	5–9a
Saucer (M.soulangeana)	5b–9
Southern (M.grandiflora)	7b–10
Star (M.stellata)	5b–9
Sweet Bay (M.virginiana)	5b–10a
MAHOGANY (Swietenia mahogani)	10–10
MAIDENHAIR TREE—see Ginkgo	
MAPLE	
Amur (Acer ginnala)	3–8
Bigleaf (A.macrophyllum)	7–10a
Black (A.nigrum)	4–8a
Box Elder (A.negundo)	3–10a
Japanese (A. palmatum)	6–9
Norway (A.platanoides), including 'Crimson King,' 'Harlequin,' 'Schwedler'	4–8
Red or Swamp (A.rubrum)	3–9
Soft or Silver (A.saccharinum)	4b–9
Sugar or Rock (A.saccharum)	4–8
Sycamore (A.pseudoplatanus)	5–8a
MAY DAY TREE (Prunus padus commutata)	3b–8
MIMOSA—see Acacia and Silk Tree	
MOUNTAIN ASH	
American (Sorbus americana)	4b–8a
European (S.aucuparia)	3–9a
Korean (S.alnifolia)	4–9a
White Beam (S.aria)	6–8
MULBERRY	
Paper (Broussonetia papyrifera)	5b–10
White or Russian (Morus alba), including 'Fruitless'	5–9
OAK	
Black (Quercus velutina)	4b–9
California Black (Q.kelloggi)	8–10a
Cork (Q.suber)	8–9
Holly (Q.ilex)	8–9
Laurel (Q.laurifolia)	8–10
Live (Q.virginiana)	8b–10
Pin (Q.palustris)	5–9
Red, Northern (Q.borealis)	4b–8
Scarlet (Q.coccinea)	4b–9
Silk—see Silk Oak	
Texas or Spanish (Q.shumardi)	5–9a

	Zones
Water (Q.nigra)	6b–10a
White (Q.alba)	4–9a
Willow (Q.phellos)	6–9
OLIVE, RUSSIAN—see Russian Olive	
ORANGE, HARDY—see Poncirus	
ORCHID TREE (Bauhinia variegata)	9b–10
PAGODA TREE—see Sophora	
PALM	
Coconut (Cocos nucifera)	10–10
Date: Canary Island (Phoenix canariensis)	9–10
Pigmy (P.roebeleni)	9b–10
Senegal (P.reclinata)	9b–10
Fan: California or Native (Washingtoniana filifera)	9a–10
European or Mediterranean (Chamaerops humilis)	9–10
Guadalupe (Erythea edulis)	9b–10
Mexican (Washingtoniana robusta)	9a–10
Household (Chamaedorea elegans)	9b–10
King (Archontophoenix cunninghamiana)	10–10
Palmetto: Cabbage (Sabal palmetto)	9–10
Saw (Serenoa repens)	9–10
Pindo (Butia capitata)	8b–10
Queen (Arecastrum romanzoffianum)	9b–10
Royal, Cuban (Roystonea regia)	10–10
Sago (Cycas revoluta)	9–10
Sargent Cherry (Pseudophoenix sargenti)	10–10
Windmill (Trachycarpus fortunei)	8b–10
PAULOWNIA—see Empress Tree	
PAWPAW (Asimina triloba)	5b–8
PEACH, FLOWERING (Prunus persica)	6–8
PEAR, EVERGREEN or FLOWERING (Pyrus kawakami)	8b–10
PECAN (Carya pecan)	
Most kinds	7–10a
Hardiest	6–9
PEPPER TREE	
Brazil (Schinus terebinthifolius)	9b–10
California (S. molle)	9–10
PERSIMMON	
Common (Diospyros virginiana)	5b–9
Japanese or Kaki (D.kaki)	7b–10a
PISTACH, CHINESE (Pistacia chinensis)	6b–9
PLANE or SYCAMORE	
American (Platanus occidentalis)	5–9
California (P.racemosa)	7–10
London (P.acerifolia)	5b–9
Oriental (P.orientalis)	7–9
PLUM	
Blireiana (Prunus blireiana), including 'Newport' and 'Ruby Tree'	4–10a
Kafir—see Kafir Plum	
Pissard (P.cerasifera atropurpurea)	5–10a
POINCIANA	
Bird-of-Paradise Bush (Poinciana gilliesi)	8–10
Royal or Flame Tree (Delonix regia)	10–10
POPLAR and COTTONWOOD	
Carolina Poplar (Populus canadensis)	4b–8
Lanceleaf Poplar (P.acuminata)	3b–7
Lombardy Poplar (P.nigra italica)	4b–8
Western Cottonwood (P.sargenti)	3–8
White Poplar (P.alba), including 'Bolleana'	4–9
PRIMROSE or SUGAR PLUM TREE (Lagunaria patersoni)	9–10
PUNK TREE—see Cajeput	
QUEENSLAND NUT (Macadamia ternifolia)	9b–10
REDBUD or JUDAS TREE	
Chinese (Cercis chinensis)	6b–10a
Eastern (C.canadensis)	5b–9
Western (C.occidentalis)	7b–9
ROSE ACACIA—see Locust	
RUBBER PLANT—see Ficus	
RUSSIAN OLIVE (Elaeagnus angustifolia)	3–9
SASSAFRAS (S.albidum)	5–9
SAUSAGE TREE (Kigelis pinnata)	10–10
SEA GRAPE (Coccolobis uvifera)	10–10
SHADBLOW or SERVICEBERRY (Amelanchier canadensis)	3b–9a
SHOWER—see Cassia	
SILK TREE or MIMOSA (Albizzia julibrissin)	7–10a
Pink (A.j.rosea)	6–9
SILVERBELL (Halesia carolina)	5–9a
Mountain (H.monticola)	5b–8
Two-Wing (H.diptera)	6b–9
SNOWBELL	
Fragrant (Styrax obassia)	6b–9a
Japanese (S.japonica)	6–9a
SOPHORA	
Japanese Pagoda Tree (Sophora japonica)	5b–9
Mescal Bean Sophora (S. secundiflora)	7–9
SORREL or SOURWOOD (Oxydendrum arboreum)	5–8
SOUR GUM or TUPELO (Nyssa sylvatica)	5–9a
STEWARTIA—see also Shrub List	
Japanese (S.pseudo-camellia)	6–9a
STRAWBERRY TREE (Arbutus unedo)	8–10
SUGAR PLUM TREE—see Primrose Tree	
SWEET BAY—see Magnolia	
SWEET GUM	
Liquidambar styraciflua	6–10a
L.formosa	7–10
SWEETLEAF, ASIATIC (Symplocus paniculata)	5b–8
SYCAMORE—see Plane	
TALLOW TREE, CHINESE (Sapium sebiferum)	8b–9
TEA TREE, AUSTRALIAN (Leptospermum laevigatum)	9–10
THORN—see Hawthorn	
TIPU TREE (Tipuana tipu)	9–10
TREE-OF-HEAVEN (Ailanthus altissima)	5–9
TRUMPET TREE or SILVER or GOLD TREE (Tabebuia argentia)	9b–10
TULIP TREE (Liriodendron tulipifera)	5–9
TULIP TREE, AFRICAN—see Bell Flambeau	
TUNG-OIL TREE (Aleurites fordi)	9–10
TUPELO—see Sour Gum	
UMBRELLA TREE—see Chinaberry	
VARNISH TREE—see Candlenut	
WALNUT	
Eastern Black (Juglans nigra)	5–8
English or Persian (J.regia)	
Most varieties	7–10a
Hardiest varieties	5b–9
WATTLE—see Acacia	
WILLOW	
Black (Salix nigra)	4–8
Corkscrew or Hankow Contorted (S. matsundana tortuosa)	5–8
Desert—see Desert Willow	
Laurel (S.pentandra)	3–8
Pussy (S.discolor)	3–9
Weeping: Babylon (S.babylonica), including 'Ram's Horn' and 'Niobe'	5–9
Thurlow (S.elegantissima)	5–9
Wisconsin (S.blanda)	4–9
Yellowstem (S.alba vitellina)	3–8
YELLOW-WOOD (Cladastris lutea)	5b–8
ZELKOVIA, JAPANESE (Zelkovia serrata)	5b–8

BROADLEAF SHRUBS

	Zones
ABELIA	
Glossy (A.grandiflora)	6b–10a
'Edward Goucher'	6b–10a
ABELIA-LEAF or WHITE FORSYTHIA (Abeliophyllum distichum)	5b–8a
ACACIA or WATTLE—see also Tree List	
Blue-Leaf (A.cyanophylla)	9–10
Broadleaf or Bush (A.latifolia)	9–10
Cassie, Popinac, or Huisache (A.farnesiana)	8b–10
ACALYPHA—see Copperleaf	
ACOKANTHERA	
Bushman's Poison (A.venenata)	9b–10
Wintersweet (A.spectabilis)	9–10
ALDER, BLACK—see Holly	
ALLAMANDA, OLEANDER (Allamanda neriifolia)	9b–10
ALLSPICE, CAROLINA—see Sweet Shrub	
ALMOND, FLOWERING—see Prunus	
ALTHEA—see Hibiscus	
ANDROMEDA	
Japanese (Pieris japonica)	6–9
Mountain (P.floribunda)	5–9
ANISE, FLORIDA (Illicium floridum)	7b–9
ARALIA	
Chinese Angelica Tree (Aralia chinensis)	6–10
Fivefinger (Acanthopanax sieboldianus or A.pentaphylla)	5b–8a
Japonica or Sieboldi—see Fatsia	
Papyrifera—see Rice Paper Plant	
ARDISIA	
Coral (A.crispa)	8b–10a
Japanese (A.japonica)	7b–9
AUCUBA, JAPANESE (Aucuba japonica), including varieties	7b–10a
AZALEA (Rhododendron)	
Species: Flame (R.calendulaceum)	5b–8
Hiryu (R.obtusum), including 'Hinodegiri' and 'Hino-Crimson'	6b–9
Korean (R.mucronulatum)	5b–8
Pinkshell (R.vaseyi)	5–9
Pinxterbloom (R.nudiflorum)	4b–9
Roseshell (R.roseum)	4–8
Rhodora (R.canadense)	3–7
Royal (R.schlippenbachi)	5b–9
Snow (R.mucronatum)	6–9
Swamp (R.viscosum)	4–8
Sweet (R.arborescens)	5–9
Hybrids: Exbury	5–7b
Ghent	5–8
Glenn Dale	7–9
Indian, Southern	8–10a
Indian, Belgian	9–10
Kaempferi (Torch)	5b–9a
Kurume	7–10a
Macrantha	7–10a
Mollis	5–7b
Rutherford	9–10
BANANA, ABYSSINIAN (Musa ensete)	10–10
BANANA SHRUB (Michelia fuscata)	8–10
BARBERRY	
Coral (Berberis stenophylla)	7–9a
Darwin (B.darwini)	8–9a
Japanese (B.thunbergi), including 'Red' or 'Purple Leaf' ('Atropurpurea') and 'Crimson Pigmy'	3–10a
Mentor or Greenleaf (B.mentorensis)	3b–9
Threespine (B.tricanthophora)	6–9
Warty (B.verruculosa)	3b–9
Wintergreen (B.julianae)	5b–10a
BAUHINIA, RED (B.galpini)	9b–10
BAYBERRY (Myrica pennsylvanica)	4b–8
BEAUTYBERRY—see Callicarpa	
BEAUTYBUSH (Kolkwitzia amabilis)	5–9
BIRD-OF-PARADISE BUSH—see Poinciana	
BITTERSWEET, EVERGREEN—see Euonymus	
BLEEDINGHEART—see Clerodendrum	
BLUEBEARD or BLUE SPIREA (Caryopteris incana), including 'Blue Mist' and 'Heavenly Blue'	5–10a
BOTANICAL WONDER—see Fatshedera	
BOTTLE BRUSH (Callistemon and Melaleuca species)	8b–10
BOUVARDIA (B.humboldti)	9b–10
BOX or BOXWOOD	
African (Myrsine africana)	8b–10
Common or English (Buxus sempervirens)	6–9a
'Edging,' 'Golden,' 'Variegated'	7–8
Harland (B.harlandi)	7–9a
Littleleaf (B.microphylla)	6–9
'Japanese'	6–10a
'Korean'	5–8
Victorian—see Pittosporum	
BOX-ORANGE, CHINESE, or BOXTHORN (Severina buxifolia)	9–10
BREATH-OF-HEAVEN, PINK (Coleanema pulchrum)	9–10
BRIDALWREATH—see Spirea	
BROOM	
Provence (Cytisus purgans)	7–8
Scotch (C.scoparius)	6–8
Spanish (C.junceum)	6–9a
Warminster (C.praecox)	6–8
Hybrids	7–8
BURNING BUSH—see Euonymus	
BUSH-CLOVER, JAPANESE (Lespedeza japonica)	6–9
BUSHMAN'S POISON—see Acokanthera	
BUTTERFLY BUSH or SUMMER LILAC	
Orange-Eye (Buddleia davidi), including hybrids	6–9
Fountain (B.alternifolia)	5b–9
CALLIANDRA	
Trinidad Flame Bush (C.guildingi)	9b–10
Pink Powder Puff (C.inaequilatera)	9b–10
CALLICARPA or BEAUTYBERRY	
Beautyberry (C.dichotoma)	6–9a
Violet Jewel Berry (C.bondinieri)	6–9a
CAMELLIA	
Common (C.japonica), including varieties	7–10a
Sasanqua (C.sasanqua), including varieties	7b–10a
CANARYBIRD BUSH (Crotolaria agatifolia)	9b–10
CAPE JASMINE—see Gardenia	
CARDINAL SHRUB—see Weigela	
CARISSA	
Natal Plum (C.grandiflora), including 'Boxwood Beauty,' 'Natal Creeper,' etc.	9b–10
CASSIA or SENNA	
Feathery or Wormwood (C.artemisioides)	9–10a
Golden Wonder (C.splendida)	9–10a
CEANOTHUS or WILD LILAC	
Blue-Blossom (C.thyrsiflorus)	8–10
Carmel (C.griseus)	8–10
Holly-Leaf (C.purpureus)	7b–10
New Jersey Tea (C.americanus)	4–9
Point Reyes (C.gloriosus)	8–10
San Diego (C.cyaneus), including 'Sierra Blue,' 'Mountain Haze,' etc.	8–9
Santa Barbara (C.impressus)	8–10
CHASTE TREE (Vitex agnus-castus)	7–9
'Latifolia' or 'Macrophylla'	5b–9
CHERRY	
Australian Bush—see Eugenia	
Barbados—see Malpighia	
Most shrub kinds—see Prunus	
CHINESE HAT PLANT (Holmskioldia sanguinea)	9b–10
CHOKEBERRY	
Black (Aronia melanocarpa)	4–8
Red (A.arbutifolia)	4–9a
CHRISTMAS BERRY or TOYON (Heteromeles arbutifolia)	8b–10
CLERODENDRUM or GLORY BOWER	
Harlequin Glory Bower (C.trichotomum)	6b–10
Kashmir Bouquet (C.bungei)	8b–10
CLEYERA—see Eurya	
COPPERLEAF (Acalypha wilkesiana) and varieties	9b–10
CORALBERRY or INDIAN CURRANT	
Symphoricarpos orbiculatus	3b–9
S.chenaulti	5b–9
'Hancock'	5–9
CORAL TREE, COCKSPUR (Erythrina crista-galli)	8–10a
COTONEASTER	
Cherry Bush (C.zabeli)	6–9
Cranberry (C.apiculata)	5b–9
Creeping (C.adpressa)	5b–9
Franchet (C.francheti)	7–10a
Necklace (C.conspicua decora)	7–10a
Peking (C.acutifolia)	3–9
Red Clusterberry (C.parneyi)	7b–10a
Rockspray (C.horizontalis)	6–10a
Silverleaf (C.pannosa)	7b–10a
Small-Leaf (C.microphylla)	7–10a
Spreading (C.divaricata)	5b–9
Sungari (C.racemiflora soongorica)	4b–9
White-Leaved or Bright-Bead (C.glaucophylla)	7b–10
Willowleaf (C.salicifolia)	6b–9
CRANBERRY BUSH—see Viburnum	
CRAPEMYRTLE (Lagerstroemia indica)	7–10a
CROTALARIA—see Canarybird Bush	
CROTON (Codiaeum variegatum and varieties)	9b–10
CURRANT	
Alpine (Ribes alpinum)	2–7
Clove or Flowering (R.odoratum)	3–8a
CYDONIA—see Quince	
DAHOON—see Holly	
DAISY BUSH, NEW ZEALAND (Olearia haasti)	8–10
DAPHNE	
February (D.mezereum)	5–8
Lilac (D.genkwa)	5–9a
Rose (D.cneorum)	5b–8a
Winter (D.odora)	7b–10a
DAUBENTONIA or RATTLEBOX	
Scarlet Wisteria Tree (D.tripeti)	8b–10
Sesban or Red Locust (D.punicea)	9–10
DEUTZIA	
Elegant (D.elengantissima)	6–9
Lemoine (D.lemoinei)	4b–8
Most other varieties	5–8

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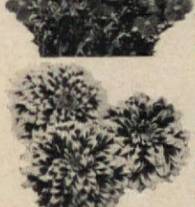

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	Zones
DOGWOOD—see also Tree List	
Red Osier (Cornus stolonifera), including 'Goldentwig,' 'Colorado,' etc.	3–8
Siberian or Tatarian (C.alba), including 'Coral Beauty,' 'Bailey,' 'Variegated,' etc.	3–8
DURANTA	
Brazil Skyflower (D.stenostachya)	9b–10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

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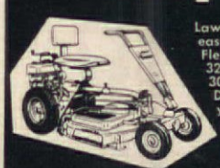

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	Zones
WINTERSWEET (Chimonanthus praecox)	7b–9
See also Acokanthera	
WISTERIA-TREE—see Daubentonia	
WITCH-HAZEL	
Chinese (Hamamelis mollis)	6–9
Common (H.virginiana)	4–8
Vernal (H.vernalis)	5–8
YAUPON—see Holly	
YELLOW-BELLS, -TRUMPET, -ELDER (Stenolobium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

VINES

AKEBIA, FIVE-LEAF (A.quinata)	5b–9
ALLAMANDA, YELLOW, or GOLDEN TRUMPET (A.cathartica)	9b–10
AMPELOPSIS, PORCELAIN (A.brevipedunculata)	5b–8
ASPARAGUS, FERN (A.plumosus and A.sprengeri)	9–10
BITTERSWEET	
American (Celastrus scandens)	4–8
Chinese (C.loeseneri)	4b–8
Evergreen—see Euonymus	
Oriental (C.orbiculatus)	5b–8
BLEEDINGHEART GLORYBOWER (Clerodendrum thomsoniae)	9b–10
BOUGAINVILLAEA	
Most kinds	10–10
B.glabra varieties	9–10
CAT'S CLAW—see Trumpet Vine	
CLEMATIS	
Anemone (C.montana)	6b–10a
Armand (C.armandi)	7b–10
Cream (C.florida)	7b–9a
'Belle of Woking' and 'Duchess of Edinburgh'	6–8
Golden (C.tangutica)	3–10a
Jouin (C.jouiniana), including 'Mrs. Robert Brydon'	5b–8
Scarlet (C.texensis)	4b–8a
Sweet Autumn (C.paniculata)	4–9
"Large-Flowered Hybrids" (including C. jackmani and named hybrids of C.lanuginosa, C. viticella, etc.), most kinds	5–8
CLOCK VINE	
Bengal or Blue Sky Vine (Thunbergia grandiflora)	9b–10
Orange (T.gibsoni)	10–10
CORAL VINE (Antigonon leptopus)	9–10
CROSS VINE—see Trumpet Vine	
CUP-OF-GOLD VINE or GOLDCUP CHALICE VINE (Solandra guttata)	10–10
DUTCHMAN'S PIPE or PELICAN FLOWER	
Aristolochia durior	4b–9
A.grandiflora	10–10
EASTER LILY VINE—see Trumpet Vine	
EUONYMUS	
Wintercreeper (E.fortunei), most varieties	5–9a
Purpleleaf (E.f.coloratus)	4b–8
Silveredge (E.f.gracilis)	6–9
Evergreen Bittersweet (E.f. vegetus)	5–9a
FATSHEDERA LIZEI or BOTANICAL WONDER	8–10
FIG, CREEPING (Ficus pumila)	9–10a
FLAME VINE—see Trumpet Vine	
GLORYBOWER—see Bleedingheart	
GLORY-PEA (Clianthus dampieri)	9b–10
GRAPE IVY—see Ivy	
HERALD'S TRUMPET—see Trumpet Vine	
HONEYSUCKLE	
Cape (Tecomaria capensis)	9b–10
Everblooming (Lonicera hecrotti), including 'Gold Flame'	4b–9a
Hall's (L.japonica halliana)	5b–9a
Trumpet (L.sempervirens)	4b–9
HYDRANGEA, CLIMBING (H.petiolaris)	5–9a
IVY	
Algerian (Hedera canariensis)	8–10
Boston (Parthenocissus tricuspidata)	5–9
English (Hedera helix), most kinds	6–10
'Baltic'	5b–9
Grape (Cissus rhombifolia)	10–10
Kangaroo (C. antarctica)	10–10
Marine or Treebine (C.incisa)	6b–9
JASMINE or JESSAMINE	
Carolina or Yellow (Gelsemium sempervirens)	7b–10a
Gold Coast (Jasminum dichotomum)	10–10
Madagascar—see Madagascar Jasmine	
Primrose (J.mesnyi)	8b–10a
Star or Confederate (Trachelospermum jasminoides)	8b–10
KANGAROO VINE—see Ivy	
KUDZU VINE (Pueraria thunbergiana)	6–9
MADAGASCAR JASMINE (Stephanotis floribunda)	10–10
MADEIRA VINE (Boussingaultia gracilis pseudobaselloides)	9–10
MATRIMONY VINE (Lycium halimifolium)	4–10a
PANDOREA	
Jasmine Pandorea or Bower Plant (P.jasminoides)	9b–10
Wonga-Wonga Vine (P.pandorana)	10–10
PARROT'S BILL (Clianthus puniceus)	9b–10
PASSION FLOWER	
Bluecrown (Passiflora caerulea)	10–10
Mayhop (P.incarnata)	7–10
Purple Granadilla (P.edulis)	10–10
Scarlet (P.coccinea)	9b–10
PELICAN FLOWER—see Dutchman's Pipe	
PHILODENDRON (many species and varieties)	10–10
PLUMBAGO, CAPE (P.capensis)	8b–10
PORCELAIN BERRY—see Ampelopsis	
RANGOON CREEPER (Quisqualis indica)	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 (Polygonum auberti)	5–10a
SKY VINE—see Clock Vine	
STEPHANOTIS—see Madagascar Jasmine	
SWEETPEA, HARDY or PERENNIAL (Lathyrus latifolius)	4b–10a
TRUMPET VINE	
Cat's Claw or Funnelcreeper (Doxantha unguis-cati)	8b–10
Common (Campsis radicans)	4b–9
Chinese (C.grandiflora)	7–10a
Cross Vine (Bignonia capreolata)	7–10a
Flame Vine (Pyrostegia ignea)	9b–10
Golden Trumpet—see Allamanda	
Herald's Trumpet or Easterlily Vine (Beaumontia grandiflora)	9b–10
Royal, or Vanilla-Scented (Distictis lactiflora)	9b–10
Scarlet or Blood (Phaedranthus buccinatorius)	9b–10
VIRGINIA CREEPER or WOODBINE (Parthenocissus quinquefolia)	4–10a
WAX PLANT (Hoya carnosa)	9b–10
WINTERCREEPER—see Euonymus	
WISTERIA	
Chinese (W.sinensis) and varieties	5b–9
Japanese (W.floribunda) and varieties	5–9
WONGA-WONGA VINE—see Pandorea	
WOOD ROSE (Ipomoea tuberosa)	9b–10

GROUNDCOVERS

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

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

GARDEN FLOWERS—GENERAL

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

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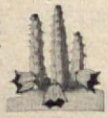

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	Zones
BLUEBELL—see Bellflower and Mertensia; also Squill in Bulb List	
BOLTONIA ASTEROIDES and B.LATISQUAMA	4–8
BUGLOSS—see Anchusa	
BUTTERCUP, DOUBLE YELLOW (Ranunculus repens pleniflorus)	4–8
BUTTERFLY WEED (Asclepias tuberosa)	3b–9
CANDYTUFT	
Evergreen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

	Zones
SWEET-WILLIAM—see Pinks	
THALICTRUM or MEADOWRUE, Most kinds	4b–9a
THISTLE, GLOBE—see Globe Thistle	
THRIFT or SEA PINK (Armeria maritima and varieties)	5–9
THYME (Thymus species and varieties), Most kinds	5–10a
TRILLIUM or WAKE-ROBIN—see Bulb List	
TRITOMA or TORCH LILY (Kniphofia species and hybrids), Most kinds	6b–10a
Hardiest	5–9
TROLLIUS or GLOBE FLOWER Most species and varieties	4b–9a
VALERIAN—see Red Valerian	
VERBASCUM—see Mullein	
VERBENA	
V.bonariensis	9–10
Clump (V.canadensis)	6–9
V. tennisecta	8–9
VERONICA or SPEEDWELL	
Hoary (V.incana)	4–9
Most other species and varieties	5–10a
VINCA—see Periwinkle	
VIOLETS and VIOLAS	
Sweet Violets (Viola odorata varieties)	8–10
Most wild species	3–8
Viola hybrids, including Pansies (V.tricolor hybrids)	6–9a
WINDFLOWER—see Anemone	
YARROW or MILFOIL	
Pink Milfoil (Achillea millefolium) and varieties	3–9a
A.ptarmica and varieties	4–9a
Woolly Yarrow (A.tomentosa)	3–9a
YUCCA	
Adam's Needle (Y.filamentosa)	4b–10
Bear Grass (Y.glauca)	4–10
Red Yucca (Hesperaloe parvifolia)	8–10
Spanish Bayonet (Y.aloifolia)	8b–10

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
ACHIMENES	9–10
ACIDANTHERA	8–10
ALLIUM or FLOWERING ONION	
Giant (A.gigantium)	5b–9
Daffodil (A.neapolitanum)	8b–10
Most other species and varieties	5–9
ALSTROEMERIA	
Most kinds	7–10
Golden Peruvian Lily (A.aurantiaca)	6–8
AMARYLLIS	
Belladonna Lily (A.belladonna)	8b–10
Hardy—see Lycoris	
Dutch and American Hybrids (Hippeastrum hybrids)	8b–10
ANEMONE	
Flame or Scarlet (A.fulgens)	8–9
Poppy-Flowered (A.coronaria)	8–9
AUTUMN DAFFODIL (Sternbergia lutea)	5–8
BEGONIA	
B.multiflora	8b–10
B.sutherlandi	8–10
Hardy (B.evansiana)	6–10
Tuberous-Rooted Hybrids	9b–10
BERMUDA BUTTERCUP—see Oxalis	
BLUEBELL, ENGLISH—see Squill	
BRODIAEA, Hardy species	7b–10
CALADIUM, Most species and varieties	9b–10
CALLA (Zantedeschia species and varieties)	9–10
CAMAS (Camassia species and varieties)	4b–9a
CANNA, Most species and varieties	8–10
CAPE COWSLIP (Lachenalia species and varieties)	10–10
CHINCHERINCHEE—see Star-of-Bethlehem	
CHIONODOXA or GLORY-OF-THE-SNOW (C.luciliae and varieties)	4–10
COLCHICUM or MEADOW SAFFRON	4–8
CRINUM or MILK-AND-WINE LILY	8b–10
CROCUS, Most spring and autumn flowering species and varieties	4–9
CROWN IMPERIAL—see Fritillaria	
CYCLAMEN	
Florist's (C.indicum varieties)	9b–10
C.europaeum	6–9
C.coum and C.neapolitanum	7b–9
DAFFODIL (Narcissus species and hybrids), Most kinds	4b–9
Autumn—see Autumn Daffodil	
Paperwhite Narcissus	9–10
Peruvian—see Peruvian Daffodil	
DAHLIA, Most kinds	8–10
DESERT CANDLE—see Eremurus	
DOGTOOTH VIOLET—see Lily-Like Plants	
ELEPHANT EAR (Colocasia antiquorum)	9–10
EREMURUS, FOXTAIL LILY, or DESERT CANDLE	
Most species and hybrids	5b–9
EUCHARIS or AMAZON LILY (E.grandiflora or E.amazonica)	9b–10
FREESIA (hybrid varieties)	9–10
FRITILLARIA	
Crown Imperial (F.imperialis)	4–10
Guineahen Flower or Checkered Lily (F. meleagris)	4–10a
GALTONIA or SUMMER HYACINTH (G.candicans)	7–10
GLADIOLUS (hybrid garden varieties)	8b–10
GLORIOSA or CLIMBING LILY (G. rothschildiana and G.superba)	9b–10
GRAPE HYACINTH (Muscari armeniacum, M.botryoides and hybrids)	3–9
GUINEAHEN FLOWER—see Fritillaria	
HYACINTH	
Common (Hyacinthus orientalis hybrids)	4b–8
Grape—see Grape Hyacinth	
Miniature (H.ciliatus or Muscari azureum)	4b–8
Wood—see Squill	
IRIS, BULBOUS	
Dutch (I.xiphium hybrids)	8–10a
English (I.xiphioides)	8–10a
I. reticulata	5b–8a
Spanish (I.xiphium)	7b–10a
ISMENE—see Peruvian Daffodil	
IXIA, Most species and varieties	9–10
LILY (Lilium)	
Aurelian Hybrids	4–8
Candlestick or Orange (L.dauricum)	4–8
L.centifolium 'Olympic Hybrids'	4b–8
Coral (L.pumilum)	4–8
Easter (L.longiflorum) 'Croft' and 'Estate'	7b–10 6–10
Fiesta Hybrids	4–8
Formosa (L.formosanum)	6–9
Gold Band (L.auratum)	4b–8
Madonna (L.candidum)	4b–8
Mid-Century Hybrids	4b–8
Regal (L.regale)	5–9a
Showy (L.speciosum, L.s.album, and L.s.rubrum)	4b–9a
Tiger (L.tigrinum)	3–8a
LILY-LIKE PLANTS	
Amazon Lily (Eucharis)	9b–10
Aztec or Jacobean Lily (Sprekelia)	8b–10
Belladonna Lily—see Amaryllis	
Blackberry Lily (Belamcanda)	4–9a
Blood Lily (Haemanthus)	9b–10
Bugle Lily (Watsonia)	9–10a
Checkered Lily—see Fritillaria	
Climbing Lily (Gloriosa)	9b–10
Daylily—see Garden Flowers—General	
Dogtooth Violet or Trout Lily (Erythronium)	3b–9a
Foxtail Lily (Eremurus)	5–9
Guernsey Lily (Nerine)	9–10
Lily-of-the-Valley (Convallaria)	3–8
Magic Lily—see Lycoris	
Mariposa Lily (Calochortus)	4–10a
Milk-and-Wine Lily (Crinum)	8b–10
Peruvian Lily—see Alstroemeria	
Pineapple Lily (Eucomis)	8–10
Rain Lily (Cooperia)	9–10
Sand or Star Lily (Leucocrinum)	4b–10
Spider Lily—see Peruvian Daffodil and Lycoris	
LYCORIS	
Magic Lily or Hardy Amaryllis (L.squamigera)	4b–9
Golden Spider Lily (L.aurea)	8–10
Short-Tube Lycoris (L.radiata)	7–10
MEADOW SAFFRON—see Colchicum	

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	Zones
MEXICAN STAR (Milla biflora)	9–10
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.elwesi)	5–9
SNOWFLAKE (Leucojum aestivum and L.vernum)	4–9
SOCIETY GARLIC (Tulbaghia)	9b–10
SPREKELIA, AZTEC or JACOBEAN 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	
Chincherinchee (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 15c). The U.S.D.A. map is 19x28½" and shows ten hardiness zones (each with a 10-degree range of minimum winter temperatures) for the United States and southern Canada. It includes county lines and divides each 10-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 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

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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 midwinter 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-milliampere flashlight 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

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(as shown on page 60)

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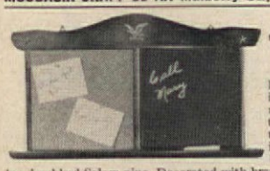

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For brief but intelligent communication in the family, use this early American bulletin board made of hand-rubbed Salem pine. Decorated with brass stars, a brass spread eagle and brass hanging rings; tray for chalk and pencils—it is 20"x12". **$3.95** ppd.

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Height 42" Seat 17½"w., 14"d., 17½"h.

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Easy to do cross-stitch sampler for guest room or entrance hall. Greets friends with a message of simple warmth. Stamped for cross-stitch on white linen, with mylar and colored embroidery floss, complete with 11½" x 14" wood frame and instructions. $2.95 ppd.

Pa. Res. Add 4% Tax. Sorry No Stamps or COD's

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Bryn Mawr, AH 1, Penna.

EARLY AMERICAN **JOHNNY SEAT**

An original creation. Striking Brass Eagle adorns cover. Decorative, hand rubbed pine finish captures beauty of wood grains. Perfect match to any bath. Of molded wood, jointless, seamless (one piece construction). Has wipe-clean finish. Cannot crack, chip, peel or warp. Complete with break-proof matching hinges, cover fits all units. Only $9.95 ppd.

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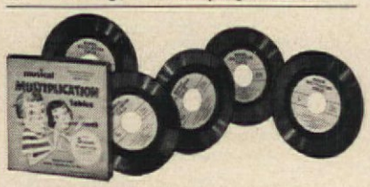

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Get these new *Musical Multiplication Records*—and see his marks in arithmetic go up, *quickly!* All the Multiplication Tables from 2's through 12's have been *set to music* on 5 records. Each table has its own catchy tune and musical quiz. Children love to play them. Used in thousands of schools. Parents and teachers report wonderful results. Write for free folder today. Send name to—**Bremner Records, Dept. S-4, Wilmette, Illinois.**

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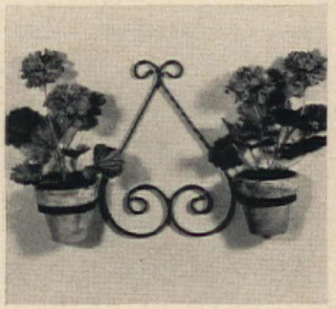
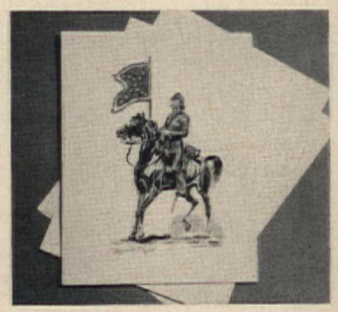
AMERICAN HOME

COUNTING THE DAYS of 1962, 63, and 64, this three-year calendar is an attractive new way to mark time. The antique white laminated paper in a 20x11" eagle-topped frame is in time for the new year, but in keeping with the spirit of early American years. Try this old-fashioned way of bringing your home up-to-date. $3.98. Crescent House, Dept. AE, Box 621, Plainview, N.Y.



FIRMLY PLANTED in a twin-sized pot holder, your two favorite plants can be shown off to their best advantage. The bands of this double-duty planter adjust to hold pots 3½" to 5" in diameter. Made of heavy-gauge steel painted dull black, it stretches 13½" high and 20" across, which decorates a lot of wall. $3. Colchester Forge, Dept. AH, Hartford Road, Colchester, Conn.

PRETTY TIERFUL curtains of unbleached muslin dressed up with calico will put a smile into any room. The 3" ruffles in red, green, yellow, or brown prints are colorfast and machine washable. The pair is 80" wide to use with a 10" valance or another tier. Valance, $2. Tiers: 25", 30", 36", or 40" long, $4. Country Curtains, Dept. AHC2, Stockbridge, Mass.



C'EST LA GUERRE! Eugene Leliepvre, painter to the French Army, has done four fine prints of the American wars. The hand-colored drawings of a dragoon from the Indian Wars or the Revolution, or a Union or Confederate cavalryman, depict all their military splendor. On 10x13" heavy stock, the ready-to-frame fighters are $3 each. Jeff Elliot, Dept. AH-1, Statesville, N.C.

Welcome to the Market Place! Merchandise, if not personalized, may be returned within seven days for a full refund. Most of the firms mentioned in the Market Place prefer not to handle C.O.D.'s. Unless otherwise stated, postage is included in price.

Helen De Motte

MARKET PLACE

A PERFECT SET, UP in looks but down in price, these authentic-looking pieces are reproductions of old Victorian pressed glass toothpick holders. 2½x2½" holders in a set of four assorted colors, they are now useful as cigarette servers or for holding small cut flowers. Well placed on dining or coffee tables. Set of 4 for $3. Miles Kimball, 126 Bond St., Oshkosh, Wis.

PROUD AS A PEACOCK of the effects you achieve in your home on a small budget? You'll really preen when you make a focal point of this regal Oriental Peacock chair—it can't help but steal the show anywhere. Made in the British Crown Colony of natural rattan, it is 48" high. $14.88. Freight collect. Palley's, Dept. A, 2263 East Vernon Ave., Los Angeles 58, Calif.

ACROSS THE BOARD, in these see-through containers, keep nails and small parts in plain sight. The 3" plastic jars have brackets welded to their black, rustproof caps so that they fit standard pegboard holes. A quick twist releases the jars. Makes lots of handy storage space in kitchen, garage, or workshop. Set of 6 (board not included), $2.50. Meredith's, Evanston 3, Ill.

OTTO MAYA

ROOMS FOR IMPROVEMENT can be planned in a professional manner with the help of Plan-It-Kit. Made of durable cardboard, the kit contains 69 punch-out furniture models and an 8x10" graph board that is large enough to lay out a room. The ¼" architect's scale is used so that cutouts may be placed directly on blueprints. $2.98. Plan-It-Kit, Dept. A, Box 429, Westport, Conn.

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Lovely wall grouping! Early Americana scenes printed in striking colors on white mats. Mounted on thick Vermont-finished pine. Brass rings for hanging. Size 4½x5" ea. 4 in set.

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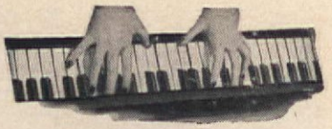

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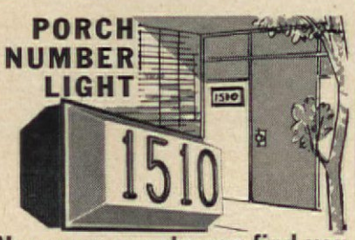

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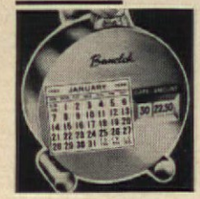

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of emerald green Scandinavian crackled glass, each 4½" high to hold bulb up and allow roots to trail in water. Guaranteed to lift your spirits. Bulbs not incl. Pair, **$2.95** Ppd.

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Lincoln Cents 1909 S V.D.B.	484,000	35.00

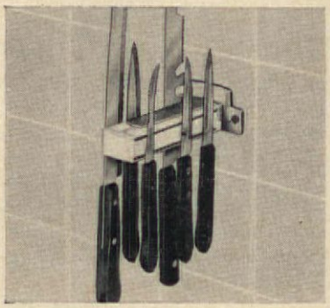
There are many other valuable coins listed in our catalogue.

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.

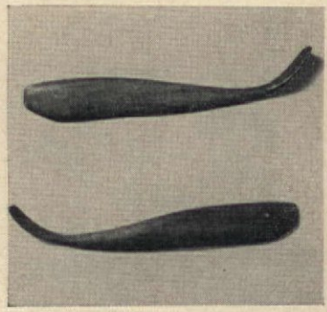
COME CLEAN tablecloths that are easy and attractive are a saving grace on any dining table. These vinyl impregnated covers require only a whisk of a damp cloth. Turquoise or white with gold stripes and white cotton trim, they are pretty enough for company. 60" round, $3.98; 60" x 80" with rounded corners, $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 5¼" 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.

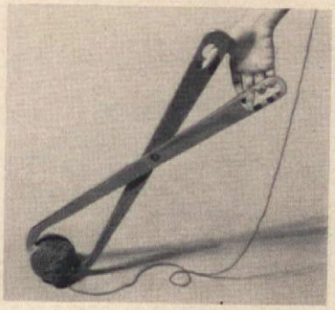


SPOUTING OFF about this pair of whales will be allowed, since they are really something to blubber over. 11" long and made of genuine taverneau, these cousins of Moby Dick have been hand carved and hand finished in Haiti. An adhesive wax allows hanging and rehanging without using nails or marring walls. $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 2½" 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.

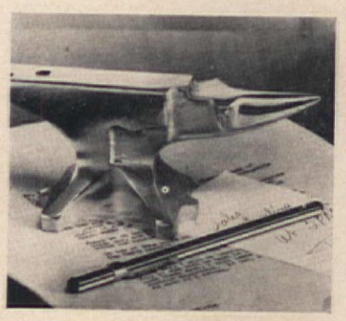


OUT-OF-HAND objects that you want in your hand can be brought there quickly and easily by the E-Z Reach. Adding 27" onto your arms, these mahogany plywood stretchers have a scissor-like grasp and magnet-tipped ends that will even pick up a pin, and will reach the topmost shelves. A sick-in-bed would 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.

It's beautiful, practical in her kitchen! A graceful teakettle made of polished copper and bright brass that keeps its gleam. Heats 40 oz. of water jiffy-quick for instant coffee, hot tea, bouillon. Heat-proof bound handle for easy pouring. Satisfaction guaranteed. Order today!

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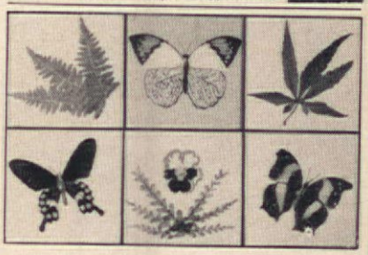

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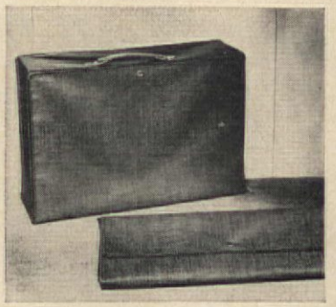
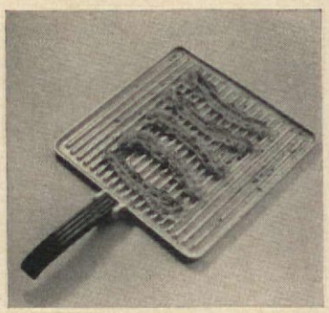
STOOL PIGEONS wouldn't mind perching on either of these Firenze stools. Handmade of natural Alpine willow, both the 18″ mushroom and its 30″ full-sized twin have 15″ hand-woven seats. Highstool, $6.95, 4 for $26; low, $4.98. Shipping chgs. coll. Plastic, foam-lined covers in white, black, persimmon,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

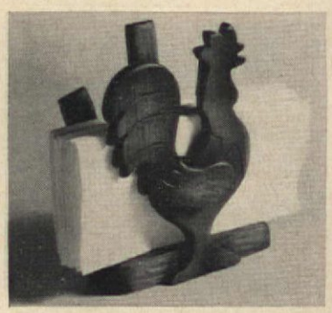
GIVE A LITTLE WHISTLE to a little teakettle, and it will do a full-sized job of heating two cups. Polished aluminum with a black flip-top pourer and a long, low build, it boils water quickly and sings about it. You'll love the time you can save on that single cup of tea or the instant coffee in the morning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



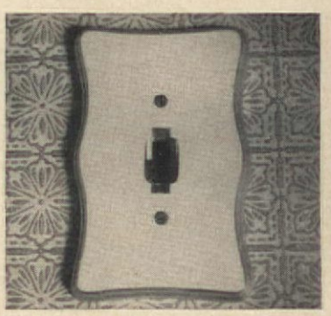
BIG RETURNS from a visit or vacation trip can be carried home with no trouble if you take this fold-away suitcase with you. Only 1″ wide when folded, it opens into a 19x12x5½″ lightweight carrier for taking back more than you came with. The latex-backed rayon shark-skin cover is color fast and waterproof.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

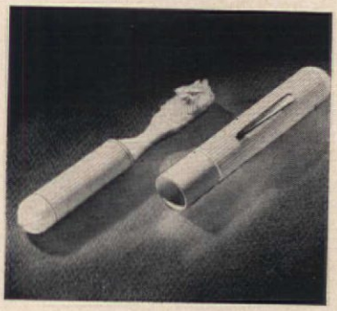


FOWL PLAY an important part in your décor when this rooster gets started holding your paper napkin supply. The 6¼″ high holder adds a "bit of chick" just right to perk up that dull kitchen shelf. Made of mellow pine, this bird would also prove itself a fine feathered friend as a rack for your milk bills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

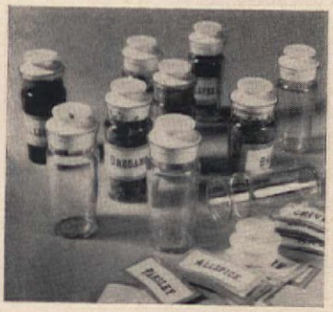


ALL DRESSED IN WHITE, your switches will flip with pride. Solid hardwood switch-plate covers are beautifully lacquered antique white and trimmed with gold to blend with French or Italian Provincial furniture, or just to look pretty and feminine. Single switch plate, $1.75; double, $2. Double plug plate, $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 *Brusheze* 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 3¼″, 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—Greeff. 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 Vesy. 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" rugs—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. Landesman. Fireplace screen—Gustafson's. Fireplace tools—Segno. Sliding glass doors—Slide View. **Page 40:** Gas burners—Roper. Blue cheese dish—Dansk. "Kashmire 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, cheese 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 combination of special dyes and a special printing process make these fabrics the ultimate in colorfastness.

Push-button butter, as well as salad dressings, dessert 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 premeasured packets of detergents and bleaches now on the market should alleviate the situation.

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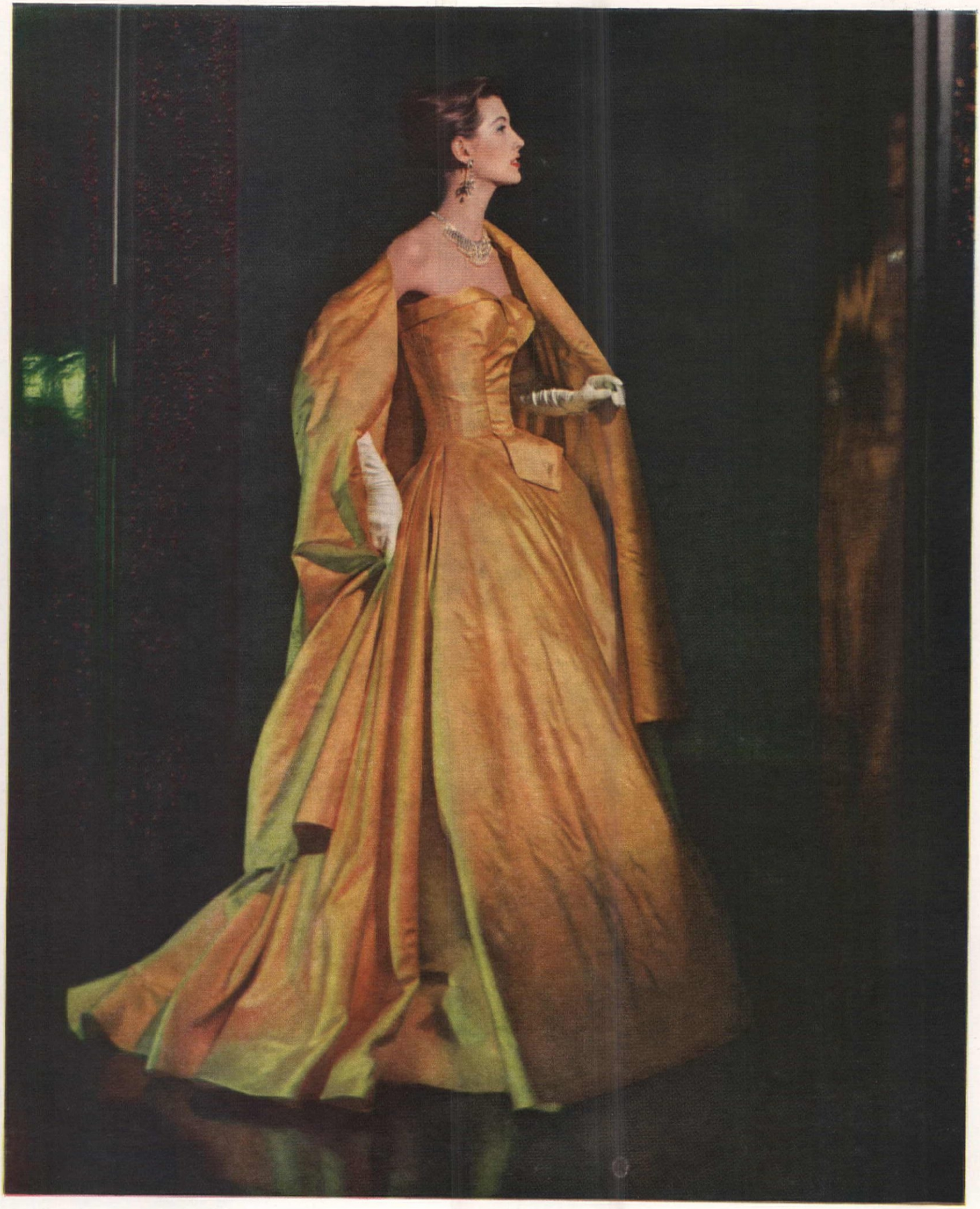

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