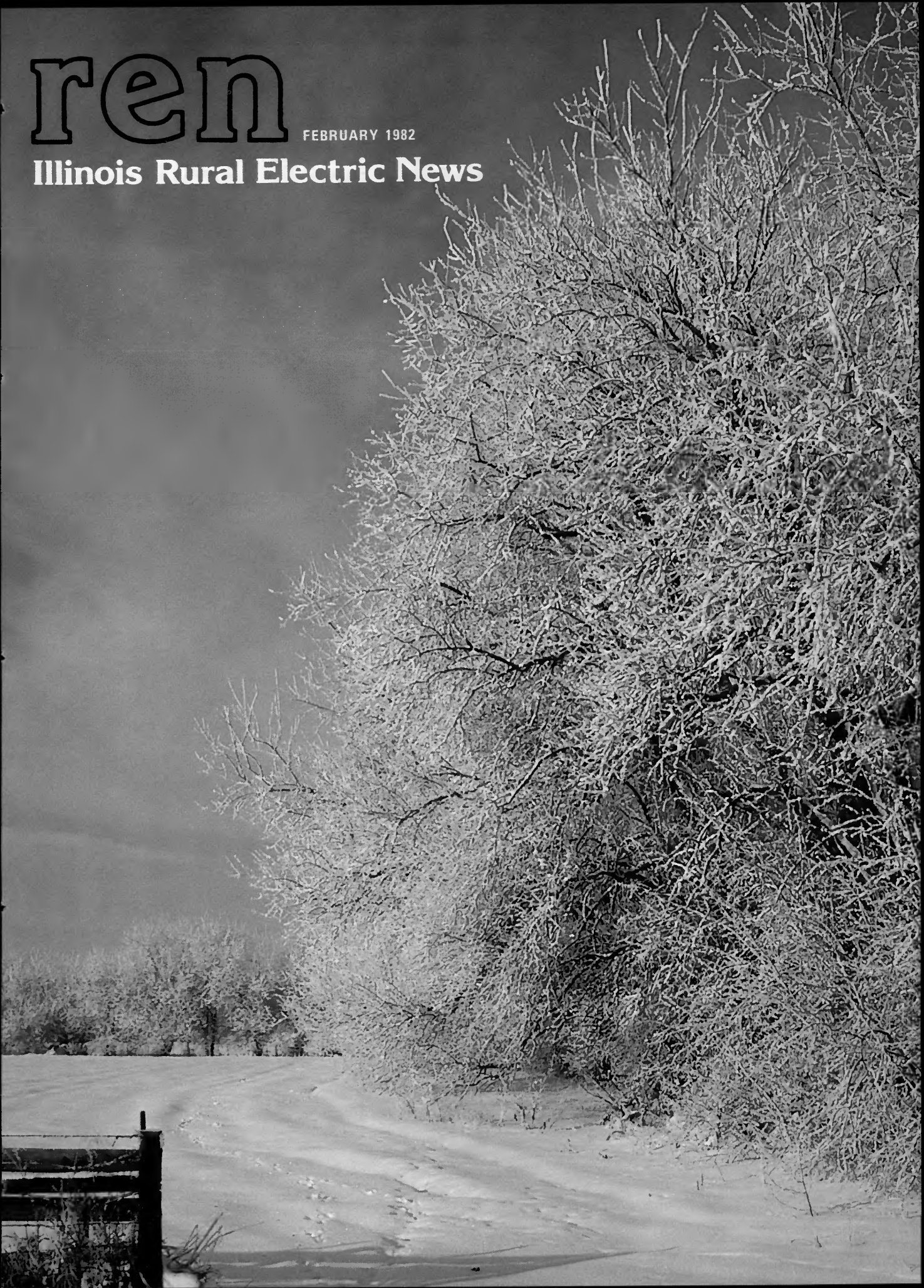


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FEBRUARY 1982

Illinois Rural Electric News



Lady Plugs In Zoysia Grass Saves Time, Work & Money



FREE! UP TO 200 PLUGS!

By Jack T. Johnson
Agronomist

Every year I watch people pour time and money into lawns that fail them just when they want their lawns the most.

I see them reseed, feed, water, weed and mow, mow, mow! When it turns to hay in mid-summer, I feel like calling out, "For Heaven's sake, when are you going to stop throwing money away and switch to Amazoy Zoysia Grass."

In comparison, I'm always happy to get letters from people who have plugged in my Amazoy Zoysia Grass, because they write to tell me how beautiful their lawns are even in midsummer heat and drought.



"MOWED IT 2 TIMES," WRITES WOMAN

For example, Mrs. M. R. Mitter writes me how her lawn "...is the envy of all who see it. When everybody's lawns around here are brown from drought ours just stays as green as ever. I've never watered it, only when I put the plugs in... Last summer, we had it mowed (2) times. Another thing, we never have to pull any

weeds—it's just wonderful!"

Wonderful? Yes, Amazoy Zoysia Grass IS wonderful! Plant it now and like Mrs. Mitter you'll cut mowing by 2/3... never have another weed problem all summer long the rest of your life!

And from Iowa came word that the State's largest Men's Garden Club picked a Zoysia lawn as the "top lawn—nearly perfect" in its area. Yet this lawn had been watered only once all summer up to August!

PERFECT FOR SLOPES

If slopes are a problem, plug in Amazoy and let it stop erosion. Or plug it into hard-to-cover spots, playworn areas, etc.

CUTS YOUR WORK, SAVES YOU MONEY

Your deep-rooted, established Amazoy lawn saves you time and money in many ways. It never needs replacement... ends re-seeding forever. Fertilizing and watering (water costs money, too) are rarely if ever needed. It ends the need for crabgrass killers permanently. It cuts pushing a noisy mower in the blistering sun by 2/3.

WEAR RESISTANT

When America's largest University tested 13 leading grasses for wear resistance, such as foot scuffing, the Zoysia (matrella and japonica Meyer Z-52) led all others.

Your Amazoy lawn takes such wear as cookouts, lawn parties, lawn furniture, etc. Grows so thick you could play football on it and not get your feet muddy. Even if children play on it, they won't hurt it—or themselves.

CHOKES OUT CRABGRASS

Thick, rich, luxurious, established Amazoy grows into a carpet of grass that chokes out crabgrass and weeds all summer long. It will NOT winter kill. Goes off its green color after killing frosts. Begins regaining its green color at the time when the temperature in the spring is consistently warm. This, of course, varies with climate.

NO NEED TO RIP OUT PRESENT GRASS

Now's the time to order your Amazoy Zoysia plugs—to get started on a lawn that will choke out crabgrass and weeds all summer long and year after year.

Plug it into an entire lawn or limited "problem areas." Plug it into poor soil, "builder's soil," clay or sandy soils—even salty, beach areas, and I guarantee it to grow!

Your Own Supply of Plug Transplants

Your established Amazoy lawn provides you with Amazoy Zoysia plugs for other areas as you may desire.

RESISTS DROUGHT

EVERY PLUG GUARANTEED TO GROW In Your Area • In Your Soil

- **AMAZOY WON'T WINTER KILL**—has survived temperatures 30° below zero!
- **AMAZOY WON'T HEAT KILL**—when other grasses burn out, Amazoy remains green and lovely!

Every plug must grow within 45 days or we replace it free. Since we're hardly in business for the fun of it, you know we have to be sure of our product.

PLUG AMAZOY INTO OLD LAWN, NEW GROUND OR NURSERY AREA

Just set Amazoy plugs into holes in ground like a cork in a bottle. Plant 1 foot apart, checkerboard style.

When planted in existing lawn areas plugs will spread to drive out old, unwanted growth, including weeds. Easy planting instructions with order.

NO SOD, NO SEED

There's no seed that produces winter-hardy Meyer Z-52 Zoysia. Grass and sod or ordinary grass carries with it the same problems as seed—like weeds, diseases, frequent mowing, burning out, etc. That's why Amazoy comes in pre-cut plugs...your assurance of lawn success.

FREE! UP TO 200 PLUGS

Just for Ordering Now!

More than a HALF BILLION of our Zoysia plugs have been sold. Our Early Bird Bonus Plug Offer means clear savings to you. Order now — don't take another chance with lawn disappointment. And remember: If it isn't AMAZOY, you're not getting the plugs that made Zoysia famous.

WORK LESS • WORRY LESS • SPEND LESS

- Easy To Plant, Easy To Care For
- Perfect For Problem Areas
- Reduces Mowing 2/3
- Chokes Out Crabgrass
- Resists Blight, Diseases, And Most Insects
- Stays Green Through Droughts
- Won't Winter Kill
- Laughs At Water Bans

Your Established Amazoy Lawn...

No Need to Rip Out Present Grass • Plug in Amazoy!

FREE PATENTED STEP-ON PLUGGER, AVAILABLE EXCLUSIVELY FROM AMAZOY. FREE WITH ORDERS OF 300 PLUGS OR MORE.

A growth-producing 2-way plugger that saves bending, time, work. Cuts away competing growth at same time it digs holes for plugs. Invaluable for transplanting. Rugged yet so light a woman can use it.

Just set Amazoy plugs into holes in ground like a cork in a bottle. (Plant 1 foot apart, checkerboard style.) Easy planting instructions with each order.

Order now for your Bonus Plugs Free, and earliest delivery at correct planting time in your area.

All orders sent shipping/handling charge collect, via most economical means.

© 1982 Zoysia Farm Nurseries

To: Zoysia Farm Nurseries, Dept. 488
(Our 27th Year) General Offices and Store
110 Painters Mill Rd., Owings Mills, Md. 21117

02D-4

Please send me guaranteed Amazoy as checked below:

<input type="checkbox"/> FULL SIZE PLUGGER \$495	<input type="checkbox"/> 100 PLUGS Plus Bonus of 10 FREE TOTAL 110 PLUGS \$695	<input type="checkbox"/> 100 PLUGS & PLUGGER Plus Bonus of 20 FREE TOTAL 120 PLUGS \$995	<input type="checkbox"/> 200 PLUGS Plus Bonus of 20 FREE TOTAL 220 PLUGS \$1120
<input type="checkbox"/> 200 PLUGS & PLUGGER Plus Bonus of 25 FREE TOTAL 225 PLUGS \$1375	<input type="checkbox"/> 300 PLUGS & PLUGGER Plus Bonus of 50 FREE TOTAL 350 PLUGS \$1775	<input type="checkbox"/> 600 PLUGS & PLUGGER Plus Bonus of 100 FREE TOTAL 700 PLUGS \$2795	<input type="checkbox"/> 1100 PLUGS & PLUGGER, Plus Bonus of 200 FREE TOTAL 1300 PLUGS \$3995

NAME _____ I enclose \$ _____
ADDRESS _____ Check Money Order
CITY _____ Visa MasterCard
STATE _____ ZIP _____ Expires _____
Card # _____

Illinois Rural Electric News

Barge fuel taxes costly to rural Illinois

Rural Illinoisans would be especially hard hit by sharply increased federal barge fuel taxes, economists at two Illinois universities have concluded.

A preliminary draft report by economists at the University of Illinois at Urbana-Champaign indicates that if the federal government increases such taxes for operation of the nation's inland waterways, such as the Illinois River, the brunt of the increased tax burden would fall on farmers and other users of river transportation, including generators of electric power.

At the present, a tax of four cents per gallon of barge fuel is levied, as called for by federal legislation effective October 1980. The tax is scheduled to increase gradually until it reaches 10 cents per gallon in 1985.

The Reagan Administration, at the recommendation of David Stockman, Director of the Office of Management and Budget, may seek to increase the present tax rate by 15 to 30 cents per gallon, a move that would mean that farmers would pay heavily for the increased tax by receiving lower prices for their grain and paying higher prices for petroleum products and fertilizers.

Such a sharp increase in the fuel tax, and the accompanying impact on Illinois' farming economy, could jeopardize Illinois' status as the leading agricultural commodity export state in the nation because significant amounts of farm products and supplies move into and out of the state by way of the important waterway system. The Illinois

River and its river transportation system give the state a competitive edge on some of the other top agriculture states.

In the fiscal year ending June 30, 1979, the United States exported \$32-billion in agricultural commodities. Included in that total was \$2.9-billion produced on Illinois farms. Illinois produces nine percent of this nation's agricultural exports, which do so much to offset the payments made for foreign oil.

The nine percent of total agricultural exports places a tremendous burden on the state to maintain this production. Higher production costs and lower prices for grain will not enhance the state's chances of continuing to make such a significant contribution to the nation's economic well-being.

Also of concern to residents of rural areas, such as member-owners of rural electric cooperatives, is the impact of higher barge fuel taxes on the transportation costs of coal used to generate electricity. A large portion of these costs appear on electric bills as fuel or wholesale power cost adjustments.

A Southern Illinois University-Carbondale economist projected that by 1987 a 10-cent per gallon tax rate for barge fuel will increase the cost of Illinois electricity by \$7-million annually, while a 30-cent per gallon rate would push electricity costs up by \$22-million. A 70-cent per gallon rate would increase these costs \$50-million annually.

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Cover: Weather in January brought some of the coldest temperatures in history to Illinois. There was some beauty to accompany the arctic blasts, as evidenced by this Sangamon County scene.

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If you said Larry and Jackie Williams had a bit of an unusual hobby, you would have said a mouthful. The Williamses, who are Menard Electric Cooperative members, collect old horse bits and other equine paraphernalia.

Some 400 or more bits of all shapes and sizes adorn the walls of the couple's home near Riverton, and they are complemented by about 350 strands of barbed wire — all carefully cataloged and mounted — and a small herd of spurs, horse collars, hames, line spreaders and curry combs.

As impressive as the collection is, it had a very modest beginning, notes Jackie, who is a real estate broker. "When I was about 10 years old," she relates, "my dad and I were rummaging around the foundations of an old burned-out house, and we found a couple of old bits and a spur. I kept them for years. When Larry and I married, well, he was interested too, so we started collecting."

Larry, a builder with a sideline backhoe business, says, "We've gone to farm auctions, flea markets and antique shops, and we've even come home at times and found bits lying on our porch, left by people who knew we were collectors. We do some trading, too. Many a bit hanging on our walls was rescued from a scrap iron pile or a local junk yard."

Some of the bits in the Williams collection date back to the Spanish-American War, and the Civil War is represented, too, as is World War I. One of Jackie's favorites is a Santa Barbara bit, named after the California city with a rich Spanish heritage and a tradition of horsemanship dating back to the mission days.

"I guess the reason I like it so much," Jackie says, "is because it's in such good condition and is nicely inlaid with silver. It's an unusual bit, too. It's fairly complex."

Larry explains the unusual nature of the bit lies in the fact that it could



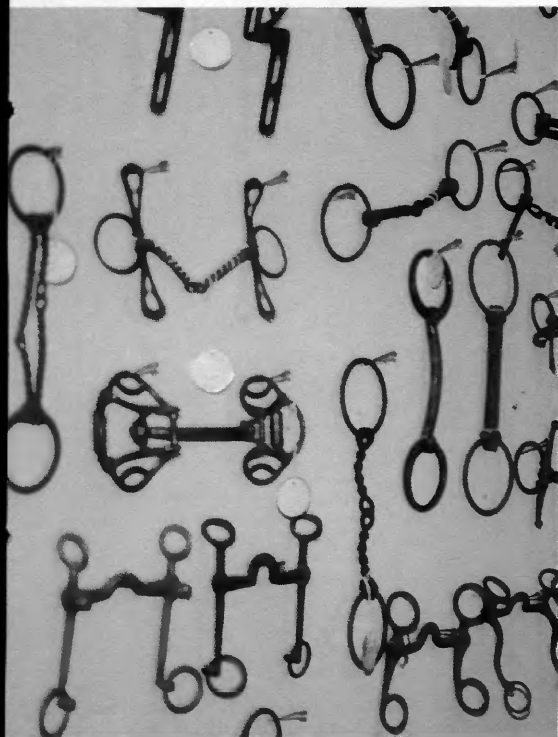
Bit, barbed wire hobb

be rough on the horse's mouth. "They really wanted the horse to know who was boss," he laughs, "and a good tug on the reins could be painful. Then again, if the horse was well-trained and responsive, it would take just a slight, gentle move of the reins to let him know what was expected of him. It wouldn't be a bad bit if the horse and rider were well-matched."

Many of the bits are decorated in varying degrees, often with silver inlays, and some are shaped like a

woman's body, or a shapely leg. By far the most common are the simple, workmanlike bits for horses who pulled wagons, plows and buggies or carried a rider, with or without a saddle.

Collars and hames also show a full range of decoration, from being heavily brass-mounted to plain as dust. "Brass was popular," Jackie notes, "and I guess you could say it was the poor man's chrome. That seems kind of strange when you think how much



Clockwise from left: Larry and Jackie in their family room, with bits, barbed wire, a horse collar and some hames visible in the background. Jackie holds a Santa Barbara bit, an ornate, complex design built to let a horse know who was in charge. A hallway wall lined with bits. A small library flanked by bits, curry combs and barbed wire.

prings up from the ashes

brass mounted antiques cost now! Then, it was fairly cheap and easy to maintain and it looked nice, too. Our hames and collars range in size from those used for little pony carts right up to Clydesdale size."

Barbed wire holds a certain fascination for the Williamses, too. "Not many people in this part of the country relate to barbed wire," Larry says, "but the first was patented by Joseph Glidden, of DeKalb, Illinois. Although barbed wire is notorious as

'the wire that fenced the West,' most of it was manufactured right here in the Midwest.

"There are literally hundreds of different varieties, because making barbed wire was lucrative, and each maker had to avoid others' patents. That's what makes it so interesting — finding the subtle differences, and getting out into the country to find the wire in the first place."

Jackie credits Frank Troxell, a Nemo, South Dakota, man, with

getting them interested in spurs and barbed wire collecting, and lending some expertise. "There is a lot of literature on barbed wire collecting," she says, "and we have a small library of books. Spurs, bits, collars and curry combs, though," she grimaces, "seem to be less popular with collectors — or the people who write for collectors, anyway. We may have to write one ourselves," she laughs.

It wouldn't be all that surprising if they did!

The Key Ingredient Discovered By A World Famous Medical Doctor

THE BRAN DIET

HEALTH NEWS

You can lose up to 13 to 26 pounds or more without eating less food. Amazing weight loss secret shrinks fat right out of your body. Eat three filling, satisfying meals for \$1.00 per day. Save hundreds of dollars per month on family food bills. It's a healing as well as a reducing diet.

(Atlanta, Ga.) The secret of losing weight quickly without a feeling of starvation has been discovered by a world-famous medical doctor and cancer researcher. His personal story is told in an amazing new concise diet manual, *The Bran Diet*.

I've read it and talked with the publisher. It's the most exciting medical story of the last ten years; since it's a healing diet as well as a reducing diet. Read on while I interview the publisher, Wayne K. Wood of F.C. and A Publishing.

QUESTION: Wayne, it is really true that a person on *The Bran Diet* can lose weight without eating less food?

ANSWER: Yes, for example, a person who has had an intestinal bypass operation may still eat as much as he did before the operation, but he'll lose weight, because he now absorbs fewer calories.

Something like this happens on *The Bran Diet*. There have been five different scientific studies which show that people do not absorb or retain as many calories from food that contains the proper amount of bran as they do from the bran-free food that most of us eat.

QUESTION: How much weight can people lose fast on *The Bran Diet*?

ANSWER: Here's a chart that gives possible maximum weight loss from following two of the plans that are given in the complete program. There is only a 20% decrease in calories on Plan No. 2.

QUESTION: Do people feel full with the right amount of bran in their diet?

ANSWER: Correct. *The Bran Diet* reduces the urge to overeat by stimulating secretions that induce a feeling of fullness. You'll enjoy savoring your food longer since bran-containing foods are delicious. Scientific studies show that volunteers with the right amount of bran in their diet stayed full while those on a bran-free diet soon became hungry and ate again.

Do you ever feel this way on your present diet? If so, the reason is simple; it may lack bulk like bran, the outer coat of grain that's usually discarded. You just need a little bit of bran, if it's present in the food you eat.

QUESTION: Have medical authorities verified the claims for *The Bran Diet*?

ANSWER: Two notable medical doctors who write health columns in newspapers all over America recently praised bran dieting in preventing disease. One doctor says, "We now have additional evidence incriminating bland foods in the development of appendicitis, polyps, diverticuli, and cancer of the large intestine."

The other doctor says our typical bran-free diets produce the cramping pain of diverticular disease, and that 90% of the symptoms are relieved by dietary bran. Few people are constipated, too, since food moves smoothly through the body and no blockages form. High blood cholesterol and LDL levels which go with heart, lung, kidney and artery disease are lowered astonishingly by dietary bran. Phlebitis and hemorrhoids are alleviated too.

QUESTION: Is there proof from people who have tried it that *The Bran Diet* helps you shed weight?

ANSWER: Here are some excerpts from unusual letters we've received:

"I lost 110 pounds on *The Bran Diet*"—Mrs. Ann Adkins, Westfield, N.C.

"I'd been fat all my life. I had tried all kinds of diet aids, pills and fad diets. I'd lose 20 or 30 pounds and gain it back—plus more. Then at 31 when I weighed 224 pounds, I put myself on the bran diet. I know it sounds unbelievable, but I stuck with it until I lost 110 pounds. I felt full and satisfied. It's the kind of food that matters. It's wonderful to be slim. People that I work with are fascinated with what I've done. They used to say "She has such a pretty face—if only she weren't so fat!" Now, I get lots of compliments.

P.S.—My husband has lost 40 pounds too, and we are able to get out and do things we've never done before. It's been over 1½ years since I reached 114 pounds, and I have no trouble keeping weight off. I would like to share my newly found joy in life with others and encourage those who have problems losing weight."



Here she is now. Try THE BRAN DIET, and see how easy it will be for you to lose weight.



Here's Ann Adkins of Westfield, N.C. before she went on THE BRAN DIET and lost 110 pounds. Then, people would say, "She has such a pretty face—if only she weren't so fat." Read her full story below.

QUESTION: Is *The Bran Diet* expensive?

ANSWER: Expensive? Not at all. Here are examples based on current supermarket prices of the cost of 15 typical meals.

Breakfast: 13c, 13c, 30c, 35c, 37c

Lunch: 31c, 43c, 34c, 47c, 38c

Dinner: 30c, 25c, 36c, 43c, 46c

The average adult spends over \$1,500.00 per year on food. On *The Bran Diet* you'll spend less than \$500.00 and you'll save over \$1,000.00 per year. It's possible to eat delicious filling nutritious meals at an average cost of only \$1.00 per day.

QUESTION: Bran sounds like an extra-ordinary food. Are there any other foods that compare with it?

ANSWER: Yes, indeed, especially certain fruits and vegetables which provide good dietary bulk. *The Bran Diet* is full of many tasty menus and recipes that contain them. It's well balanced with selections from different food groups to insure adequate nutrients. Of course, it's always a good idea to check with your doctor to see if he wants you to lose weight by dieting.

QUESTION: What are some ways *The Bran Diet* helps you lose weight?

ANSWER: There are six ways. (1) It keeps you off the "YO YO Syndrome." (When you lose a few pounds and then gain it all back.) (2) Your body absorbs fewer calories than with the same amount of regular food. (3) The food is delicious and easy to fix—so you aren't tempted to go back to your old diet. Imagine losing weight with these delicious dishes: Macaroni and Cheese, Pancakes, Brownies, Dinner Rolls, Meatloaf, Beef Stew, Rice Pudding, French Toast, and Bran Cookies. (4) It works fast. You can see results in a few days. You'll soon feel like jumping up and doing things. (5) It mobilizes the fat—not excessive muscle out of your body. (6) That "always hungry feeling" disappears because it fills you up. You don't feel weak.

QUESTION: Does it take a lot of will power to succeed with *The Bran Diet*?

ANSWER: Anyone can follow the simple diet plans. You don't have to count calories; all the menus are worked out for you in advance. You can go to a restaurant and enjoy a good meal. There are many recipes and quick snacks to try in your own kitchen with naturally good ingredients.

QUESTION: How can people buy *The Bran Diet*?

ANSWER: It's easy; you can order just the basic manual or, for only a dollar more, we'll send you both the basic manual and a booklet containing dozens of extra menus, recipes and information.

I guarantee to refund your payment if you don't agree that this is the tastiest, fastest, healthiest diet you've ever tried, or if you're dissatisfied in any other way. Order now for fast service.

Check This Chart To See How Much Weight You Can Lose Without Eating Less Food.

If On A Typical American Diet You Now Weigh	On Plan No. 1 Without Eating Less You Can Soon Weigh Down To	On Plan No. 2 You Can Soon Weigh Down To This Much
120	107	86
130	116	93
140	125	100
150	133	106
160	142	114
170	151	121
180	160	128
190	169	135
200	178	142
210	187	149
220	196	157
230	205	164
240	214	171

"I went from 250 pounds to 178."—The secret: emphasis on one of the choices of *The Bran Diet*. "My blood pressure is back to normal and I've lost 12 inches in my waist. Now I have will power because I enjoy the diet."—Mr. J.C.

"Quite simple to follow."—You made your program quite simple to follow and I do like your recipes. I have already baked the muffins and distributed them among friends. They were delicious."—Mrs. I.C.

"This is a very tasty diet."—"Your Bran Diet Program has been recommended by my doctor from England, he says it has helped many people."—Mr. M.S.


"Don't have that empty feeling."—"My daughter and I have been on Plan No. 1 for awhile. It's easy to stay on, because you don't have that empty feeling."—Mrs. J.S.

"The macaroni and the meat loaf are the best I ever ate."—Mrs. F.B.

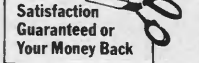
Yes! Wayne, I enclose \$3.99 plus \$1.00 postage and handling for your manual, *The Bran Diet*, described in your ad that will help me lose weight without eating less, and protect my health.

Yes! I enclose \$4.99 plus \$1.00 postage and handling. Please send me *The Bran Diet* plus dozens of delicious extra menus, recipes and information.

Total amount enclosed \$ _____



F.C. & A. PUBLISHING



Satisfaction Guaranteed or Your Money Back

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Peachtree City, GA 30269

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City _____
State _____ Zip _____

NURSERY STOCK SALE OVER 200 VARIETIES TO CHOOSE FROM

PLANTING INSTRUCTIONS INCLUDED IN EACH ORDER, EVERY PLANT WILL BE LABELED.

Notice: Orders of \$25.00 or more—take 10% discount off price of order. Does not apply to \$2.00 postage and handling charge.



RED MAPLE (Acre Rubrum, 3-4 ft.) This is one of the most beautiful of all shade trees. Besides having brilliant scarlet red leaves in the fall of the year, it has another excellent trait—it is an extremely fast grower. It is very easily transplanted and many experts agree it will grow practically anywhere in the U.S.A. Grows up to 60 feet.
1 Tree ... 1.29 4 Trees ... 4.99
8 Trees ... 8.49 16 Trees ... 15.99



WHITE DOGWOOD (2-3 ft.) Large, white, single blossoms are conspicuous early in spring. The foliage is attractive all summer, and the fall colors beautiful. Red berries hang on most of the winter. Use as a specimen, or in groups as a background for borders. Grows up to 30 feet high.
1 tree ... 79 ea. 10 trees ... 7.50



TULIP TREE (3 to 4 ft.) A large growing, hardy tree reaching heights of 80 feet or more. Its bright yellow leaves in the fall have tulip-shaped flowers in the spring. Rapid grower.
1 Tree ... 1.29 4 Trees ... 4.99
8 Trees ... 8.49 16 Trees ... 15.99



PINK DOGWOOD (2 ft.) A most valuable low growing and colorful tree for the lawn. Before the leaves appear, the tree is literally covered with rose-pink flowers suffused with bright red. Grows up to 20 feet high. A gorgeous spectacle.
1 Tree ... 4.95 10 trees ... 48.50



SUGAR MAPLE (3 to 4 ft.) The largest of all maples, and its beautiful array of yellow and orange hues make it a sight to remember due to the foliage thickness—A very hardy northern and southern tree and will grow up to 60 feet.
1 Tree ... 1.29 4 Trees ... 4.99
8 Trees ... 8.49 16 Trees ... 15.99

SHADE TREES—1-2 Years Old

Green Ash, 4-5 ft. 1.95 ea.
Golden Weeping Willow, 4-5 ft. 1.95 ea.
Silver Maple, 4-6 ft. 1.98 ea.
Green Weeping Willow, 4-5 ft. 1.98 ea.
Ginkgo Tree, 1-2 ft. 1.45 ea.
Pin Oak 3-5 ft. 2.95 ea.
Lombardy Poplar, 3-4 ft. .79 ea.
Sycamore, 4-5 ft. 1.95 ea.
Sweet Gum, 4-5 ft. 1.95 ea.
White Birch, 4-6 ft. 2.95 ea.
Crimson King Maple, 3-5 ft. 9.95 ea.
Persimmon, 1-2 ft. .95 ea.
Dawns Redwood, 1-2 ft. 2.95 ea.
Jap. Red Leaf Maple, 1 ft. 2.95 ea.

FRUIT TREES—1-2 Years Old

PEACHES, Varieties: Belle of Ga., Elberta J. H. Hale, Hale Haven, Dixie Red, Golden Jubilee, 1-2 ft. 1.45 ea.
2-3 ft. 2.45 ea.
3-5 ft. 3.45 ea.

APPLES, Varieties: Stayman, Winesap, Red Delicious, Early Harvest, Red Rome Beauty, Red Jonathan, Lodi, Grimes Golden, Yellow Trans., Yellow Del., Early McIntosh.
2-3 ft. 2.75 ea.
3-5 ft. 3.95 ea.

CHERRIES, Varieties: Montmorency, Black Tartarian, 2 1/2-4 ft. 4.49 ea.

PEARS, Varieties: Kieffer, Orient, Bartlett 2-3 ft. 3.45 ea. 3-5 ft. 4.95 ea.

APRICOTS, Varieties: Moorpark, Early Golden, 1-2 ft. 1.45 ea. 2-3 ft. 2.45 ea. 3-5 ft. 3.45 ea.

NECTARINE, 1-2 ft. 1.25 ea. 2-3 ft. 2.45 ea. 3-5 ft. 2.95 ea.

PLUMS, Varieties: Damsun, Red, June, Methley, Burbank, 1-2 ft. 1.25 ea. 2-3 ft. 2.45 ea. 3-5 ft. 3.45 ea.

DWARF FRUIT TREES—2-3 Years Old

DWARF PEACHES, Varieties: Elberta, Red Haven, Belle of Ga., Golden Jubilee.
2 1/2-4 ft. 4.45 ea.

DWARF FRUIT TREES CONT.

DWARF APPLES, Varieties: Red Delicious, Yellow Delicious, Winesap, Early McIntosh, Jonathan, Lodi, Yellow Transparent.
2 1/2-4 ft. 4.45 ea.

DWARF CHERRIES, Varieties: Montmorency or North Star 2 1/2-4 ft. 5.95 ea.

DWARF PEAR, Varieties: Bartlett or Kieffer 2 1/2-4 ft. 5.95 ea.

DWARF PLUM, Varieties: Burbank 2 1/2-4 ft. 4.45 ea.

VINES—1-2 Years Old



GRAPE VARIETIES: Concord, Niagara, Luttie, Fredonia, Delaware, Catawba.
1-2 ft. 1.25 ea.
2-3 ft. 1.25 ea.

WISTERIA, Purple, 1/2-1 ft. 95 ea.
Bittersweet, 1/2-1 ft. 75 ea.

CLEMATIS, White, 1/2-1 ft. 75 ea.
Yellow Jasmine, 1/2-1 ft. 1.25 ea.

VINCA Minor Clumps 25 ea.
English Ivy 4-8 inches 35 ea.
Euonymus Coloratus, 1/2-1 ft. 29 ea.
Ajuga Bronze Ground Cov. 1 yr. 35 ea.

NUT TREES—1-2 Years Old

Hazel Nut, 2-3 ft. 3.45 ea.
Butternut, 3-4 ft. 3.95 ea.
Chinese Chestnut, 3-5 ft. 2.45 ea.
Hardy Pecan Seedlings, 1-2 ft. 1.50 ea.
Stuart Pecan, Papershell, 2-3 ft. 7.95 ea.
Black Walnut, 2-3 ft. 2.45 ea.
English Walnut, 2-3 ft. 7.95 ea.

EVERGREENS—1-2 Years Old

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Rhododendron, 1/2-1 ft. 1.25 ea.
Pfitzer Juniper, 1/2-1 ft. 95 ea.
Boxwood, 1/2-1 ft. 79 ea.
Red Berry Pyracantha, 1 ft. 1.25 ea.
Yellow Berry Pyracantha, 1 ft. 1.25 ea.
Burfordi Holly, 1/2-1 ft. 95 ea.
Dwarf Burfordi Holly, 1/2-1 ft. 95 ea.
Wax Leaf Ligustrum, 1/2-1 ft. 45 ea.
Colorado Blue Spruce, 1/2-1 ft. 75 ea.
Mountain Laurel, 1/2-1 ft. 75 ea.
Canadian Hemlock, 1-2 ft. 75 ea.
Hetzli Holly, 1/2-1 ft. 79 ea.
Phatnia Fraseri—Red Tip 1/2-1 ft. 1.29 ea.

Andora Juniper, 1/2-1 ft. 95 ea.
Jap. Yew, 1/2-1 ft. 1.25 ea.
Baker Arborvitae, 1/2-1 ft. 95 ea.
Globe Arborvitae, 1/2-1 ft. 95 ea.
Gardenia, White, 1/2-1 ft. 95 ea.
Camellia, Red, 4-8 inches 95 ea.
Norway Spruce, 1/2-1 ft. 75 ea.
Euonymus Manhattan, 1/2-1 ft. 39 ea.
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Mugho Pine, 4-6 inches 95 ea.
Scotch Pine, 1/2-1 ft. 75 ea.
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Bush Honeysuckle, Red, 1 ft. 79 ea.
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Bridal Wreath Spirea, 1-2 ft. 1.25 ea.
Hydrangea P.G., 1-2 ft. 79 ea.
Mockorange, White, 1-2 ft. 79 ea.
Sweet Shrub, 1-2 ft. 79 ea.
Rose of Sharon, 1-2 ft. 79 ea.
Pussy Willow, 1-2 ft. 79 ea.
Russian Olive, 2-3 ft. 1.75 ea.
Red Barberry, 1-2 ft. 95 ea.
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Ruzich is new Soyland manager

Richard R. Ruzich, a native of West Frankfort (Franklin County), has been named executive vice president and general manager of Soyland Power Cooperative, a Decatur-based federation of 15 Illinois electric cooperatives. He replaces Royal B. Newman, who announced last November that he would leave the Soyland position in January.

Newman was the first general manager of Soyland. He began in 1977, following several years as executive director of the Florida Keys Aqueduct Authority, Key West, Florida. Newman returned to Florida where he has extensive business interests and will utilize his more than 25 years of experience in power and water administration, operation, engineering, construction planning and finance as a consultant to various segments of the energy industry.

Ruzich, who has worked with Illinois electric cooperatives for the



RUZICH

last nine years, is a 1968 graduate of the University of Missouri at Rolla with a bachelor of science degree in electrical engineering. After five years as an engineer with Illinois Power

Company, Ruzich joined the staff of the Association of Illinois Electric Cooperatives (AIEC) in 1973. In 1976 he became director of the Energy, Environment and Engineering Department of the AIEC. He served in that capacity until he joined Soyland in August 1977 as manager of energy supply. He later was named assistant general manager. Among Ruzich's duties as an employee of the AIEC was involvement in studies and planning for Soyland.

The 15 electric cooperatives which comprise Soyland represent more than 100,000 Illinois farms, homes and businesses. Soyland has 10.5-percent ownership of the nuclear Clinton Power Station in DeWitt County, has reached the "preferred site" stage of planning for a 450-megawatt, coal-fired electric generating station, and is exploring the potential for compressed air energy storage for electric power generation.

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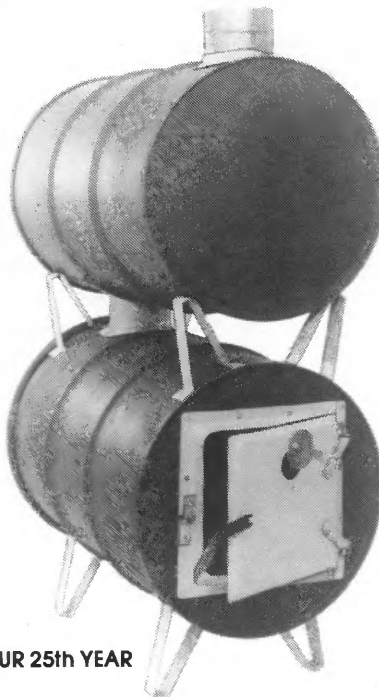
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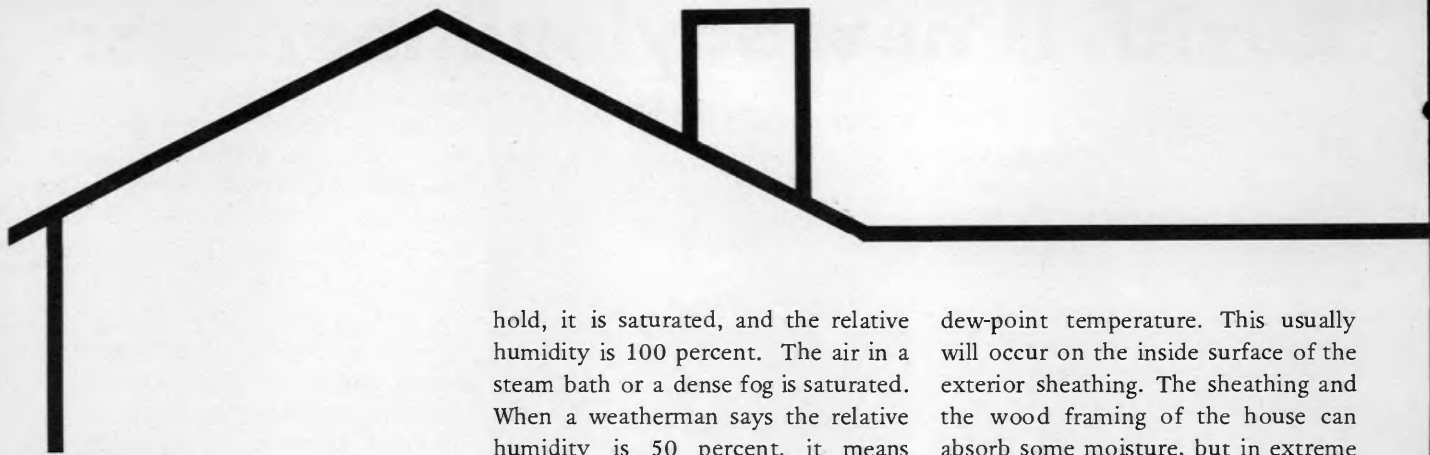
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Moisture control in the home

A proper indoor humidity level must be maintained to prevent structural damage to the house and to assure your comfort. Humidity levels that are too high may cause paint to blister or plywood sheathing to delaminate. When humidity levels are too low, your nasal passages may dry out and your susceptibility to respiratory infections may increase. Fortunately, you can control humidity levels to suit you and your home. The University of Illinois Cooperative Extension Service and the Small Homes Council-Building Research Council offer these suggestions.

Air contains water vapor. You can not see it, and you usually can't feel it, so understanding vapor control is difficult. Warm air holds more moisture than cold air. When air contains as much moisture as it can

hold, it is saturated, and the relative humidity is 100 percent. The air in a steam bath or a dense fog is saturated. When a weatherman says the relative humidity is 50 percent, it means the outdoor air on that particular day holds half as much moisture as it is capable of holding. If that same air was warmed up 20 percent Fahrenheit, its relative humidity would be less than 50 percent because warmer air can hold more moisture. It may surprise you, but the air in your home at 68 degrees Fahrenheit and 20

dew-point temperature. This usually will occur on the inside surface of the exterior sheathing. The sheathing and the wood framing of the house can absorb some moisture, but in extreme cases the water will run down to the bottom of the stud space and eventually rot the plate which supports the wall, and floor system. Also, if vapor penetrates a wall, it raises the moisture content of the insulation material, which then reduces the insulation R-value and increases the structure's heat loss.

Inside air temp	Outside air temperature, °F							
	15	10	5	0	-5	-10	-15	-20
70°	18%	20%	24%	30%	35%	40%	45%	50%
75°	15%	17%	20%	25%	30%	35%	40%	45%

percent relative humidity contains more total moisture than air that is zero degrees Fahrenheit and 100 percent relative humidity.

Because the air in your home usually contains more moisture than the air outdoors during winter, the inside moisture tries to move outside to equalize the vapor pressure. Because water vapor is a gas, it can pass through many building materials. If it passes through the plasterboard, it will continue to migrate through the insulation material until it condenses on a surface that is colder than the

Similarly, water vapor that passes through the ceiling may condense on roof sheathing or rafters in the attic. If there is heavy condensation, water may drop onto the ceiling insulation and stain the ceiling.

In the summer, when you say, "It's not the heat, it's the humidity," the relative humidity of the air is probably 85 percent or above. If, in the winter, static electricity forms as you walk across the carpet, or your nose and throat dry out, the relative humidity is probably 15 percent or below.

You can be comfortable in a wide range of relative humidities. Naturally, if you or a member of your family is particularly sensitive to dry air, you may need to raise the relative humidity in your home. But a range of 20 to 50 percent relative humidity will probably suit you and your home.

When outside temperatures change, the inside relative humidity should change to the levels shown in the table above to minimize condensation on window glass and uninsulated wall and ceiling surfaces. If you own a

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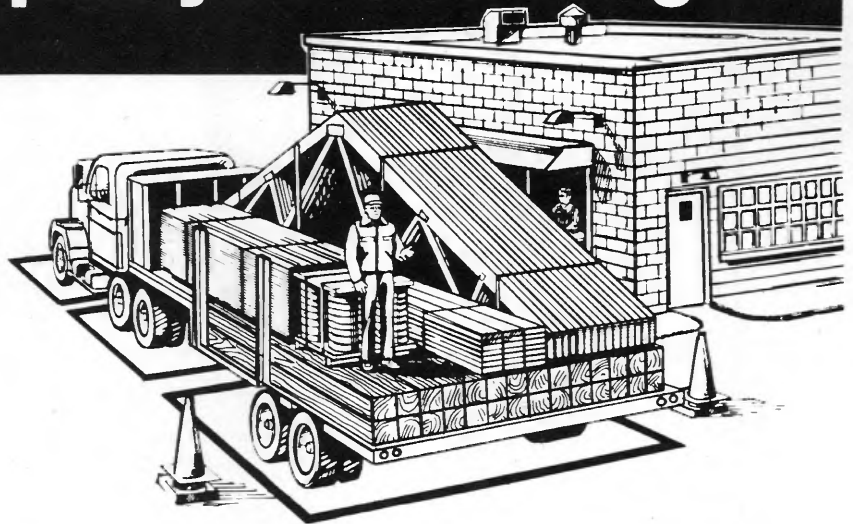
humidifier with a humidistat, adjust the setting as the outside temperature changes.

You can reduce or eliminate the need for a humidifier by tightening up your house with storm windows and doors, caulking, weatherstripping, and vapor retarders. Home weatherization reduces the outside air infiltration, so the relative humidity inside the house increases. You then may not need to add humidity with a humidifier. Doing without a humidifier will save you money. The total energy needed to humidify your home can be substantial. It takes about 1,000 Btu's of heat to evaporate one pound of water. A Btu (British thermal unit) is about the amount of heat released by burning one wooden match.

A tightly built home should not need a humidifier. In fact, the relative humidity may be too high rather than too low in the winter. If this happens in your home, open doors and windows a little or run ventilation fans to increase air flow through the house. Because you notice excess condensation when the outdoor temperature is very cold, you may be reluctant to provide extra ventilation. However, Illinois has very few bitterly cold days, so the heat loss for moisture control will not be excessive.

Wall and ceiling vapor retarders, such as polyethylene plastic sheets or aluminum foil-faced paper, resist undesirable vapor movement. Install vapor retarders at or near the inside surface of all exterior walls and ceilings. Vapor retarders can be installed in several ways in new homes. Insulation batts with paper or aluminum foil backing can be installed. These batts will do a satisfactory job of resisting vapor movement provided there are no tears in the backing. It is becoming more common in new construction to use

(Continued to page 20)



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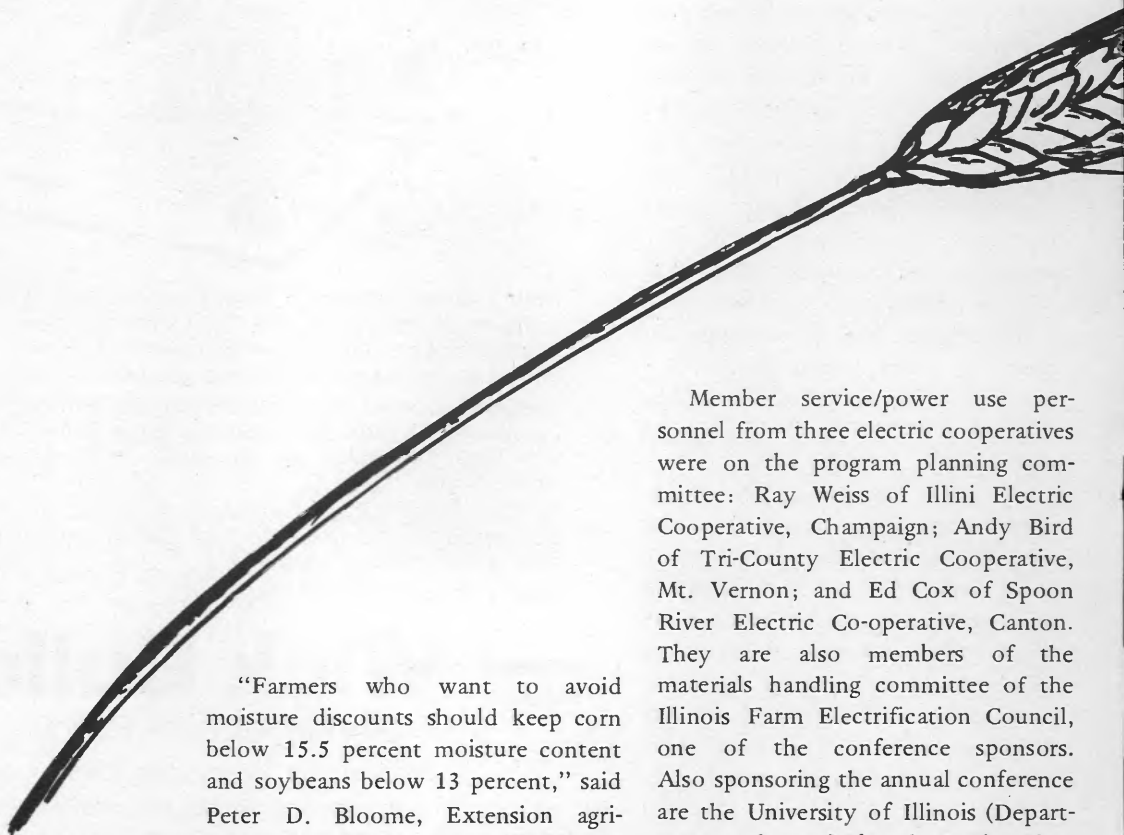
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GR CONDITIONING



Conditioning, rather than just drying, continued to be the central topic of electric utility and agriculture leaders attending the 1982 Grain Conditioning Conference in January at Champaign.

Speakers stirred in various suggestions outlining ways farmers could make their grain more priceworthy in the marketplace. Among those ideas were blending very dry and very moist grain to reach the optimum, adding water, if necessary, and mixing in ammonia to retard spoilage in the event that the farmer runs out of drying capacity with grain still in the field.

"Farmers who want to avoid moisture discounts should keep corn below 15.5 percent moisture content and soybeans below 13 percent," said Peter D. Bloome, Extension agricultural engineer from Oklahoma State University, "but if they dry it too much, that costs them, too. Actually, we've talked far too much about drying grain, and we've suggested in the past that if a farmer couldn't dry his grain right on the money, he should overdry it a little, just to be on the safe side. That's not right either. We haven't talked sufficiently about the cost to farmers of overdried grain. Handling, aeration, labor, insurance and insect control combined cost less than moisture shrink. There should be a price adjustment both above and below the standard. "Actually," he continued, "we should market grain on the basis of dry weight."

Member service/power use personnel from three electric cooperatives were on the program planning committee: Ray Weiss of Illini Electric Cooperative, Champaign; Andy Bird of Tri-County Electric Cooperative, Mt. Vernon; and Ed Cox of Spoon River Electric Co-operative, Canton. They are also members of the materials handling committee of the Illinois Farm Electrification Council, one of the conference sponsors. Also sponsoring the annual conference are the University of Illinois (Department of Agricultural Engineering, Cooperative Extension Service, Agricultural Experiment Station, Office of Continuing Education and Public Service, Division of Conferences and Institutes), and the Department of Energy and Natural Resources.

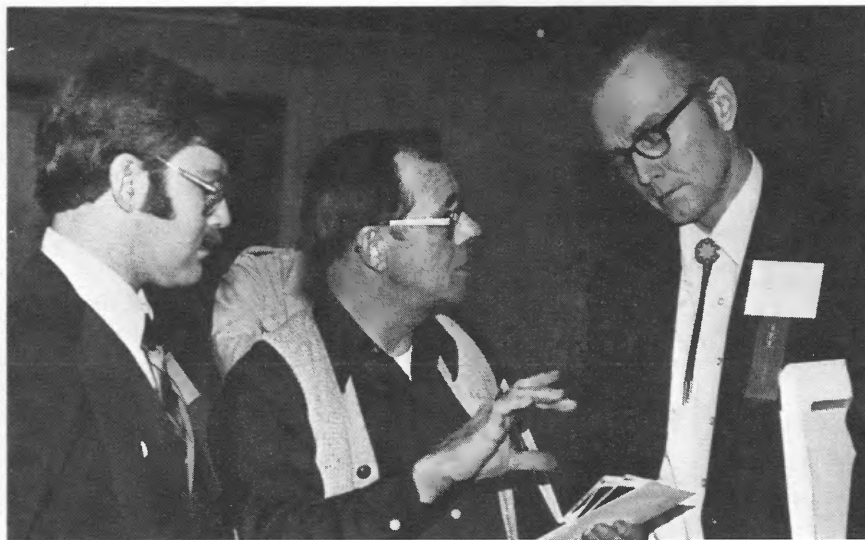
Bloome also outlined a method farmers might be able to use to restore moisture to overdried grain, noting that a farmer in Oklahoma with a batch of very dry wheat had carefully metered a measured flow of water into the intake end of an auger as it loaded a truck, and the grain absorbed the moisture uniformly and evenly. The wheat, when tested, was determined to be in good condition. "Yet adding water just to increase the market value

AIN NING

is also labeled 'adulteration' by the Food and Drug Administration and is, of course, illegal. While it seems to work well, I'm not supposed to discuss it much or tell you how to do it or recommend it because it's illegal. The grain in the truck, incidentally, went to an elevator and the farmer got a good price for it, after the buyer had tested it. There was another farmer

Irene Kelly, a representative of the FDA in the audience, when asked if she would comment on the problem, noted that the FDA had just become aware that there was a problem and was seeking input into the matter for a possible rule change.

Bruce McKenzie, Extension agricultural engineer from Purdue University, outlined the possibility of harvesting corncobs along with the corn, and using them for heat to dry the grain. "There are a lot of problems with this approach," he admitted,



Bill Peterson, right, extension agricultural engineer at the University of Illinois, and a speaker at the grain Conditioning Conference, talks with participants during a break.

who wasn't so fortunate, though," he noted. "He loaded his truck, ran a water hose into it, and let it run for a while, then drove off. When he got to the elevator, water was still running out of his truck. If this practice becomes legal, it'll have to be done carefully."

"but as the price of energy goes up, we need to look at all the possibilities, and we know corncobs will give a good flame. They're wasted now."

McKenzie noted that one of the problems associated with burning cobs is the fact that they have a high silica content, and that translates

into lots of tough slag in the incinerator. "There are people around the country working on the problem, though," he said, "along with the difficulties involved in harvesting this year's cobs, the farmer will have to store them until the next year and use them to dry next year's corn."

McKenzie also suggested that, if energy costs continue to climb, it may become feasible to burn part of the corn crop for heat to dry the remainder.

David Morrison, University of Illinois agricultural engineer, discussed the possibility of using solar energy to dry corn, noting that two systems utilizing solar-heated air required 17-20 percent less energy than identical bins where unheated air was used. He noted that there was no question that solar would pay for itself.

Bill Peterson, also a U. of I. agricultural engineer, suggested the use of low-profile bin would cost more initially, but that the additional cost would be overcome fairly quickly in energy savings.

"Adding one-half of one percent of aqua ammonia to corn as it goes into a bin will retard spoilage for about four months," said Gerald W. Nofsinger, of the Northern Regional Research Center, "and it's not a difficult process. I recommend it only for corn that's to be used for livestock feed, because it discolors the grain. It looks a little darker than it normally would, but it doesn't do any harm to the food value. Higher concentrations discolor it heavily and make it susceptible to breakage." He emphasized that such a procedure will buy time for the farmer who runs out of drying capacity, and that the treatment does not prevent spoilage, but retards it. Higher concentrations of ammonia are not recommended, he stressed.

Robert Peart, also a Purdue agricultural engineer, discussed the possibility of using heat pumps to dry grain, and Howard McKinney of McDonnell Douglas Corp. told of his company's efforts to perfect a microwave vacuum grain drying process, both proving that there is a lot of innovation yet to be done in the business of conditioning grain.

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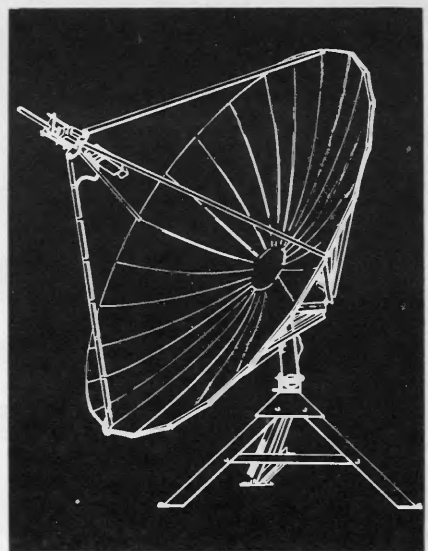
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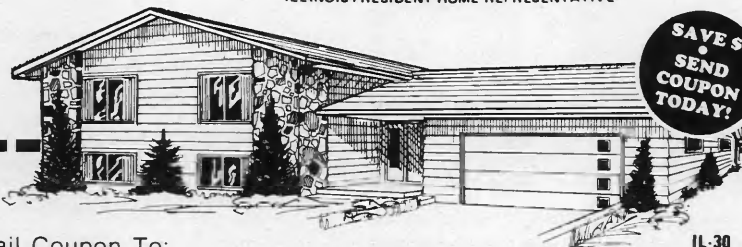
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For the second consecutive year, the work of the Illinois Cooperative Coordinating Committee (ICCC) has received national recognition for its Cooperative Month activities.

The Illinois Cooperative Month Committee, a subcommittee of the ICCC, was one of three such committees that received special citations for their work in 1981 during October Cooperative Month. Also honored with special citations were Minnesota and Wisconsin. The California Cooperative Month Committee received the highest honor, the national award, from the Cooperative Month Planning Committee of Washington, D.C. Illinois was the national winner in 1980.

Two members of the staff of the Association of Illinois Electric Cooperatives (AIEC), the statewide service organization for the state's electric cooperatives, played important roles in Illinois' success in the two years. Thomas H. Moore, executive vice president and general manager, is chairman of the ICCC, while Gordon M. Olsen, director of the AIEC Information and Printing Departments, served as chairman of the Cooperative Month Committee.

The national committee presents awards annually to the state committees conducting the best programs to call attention to the contributions of the cooperatives and to inform members and the public about these contributions. For 1981, these activities centered on the theme, "Cooperatives — Building a Better America."

Activities carried on in Illinois included: a series of interviews distributed to Illinois radio stations, a video tape series distributed to television stations in major Illinois markets and extensive newspaper and radio coverage of Cooperative Month events throughout the state.

The ICCC serves as a clearinghouse on matters affecting the growth and development of Illinois cooperatives. Objectives include developing a leadership role in coordinating cooperative educational activities, encouraging active observance of National Cooperative Month, establishing improved communications between cooperatives, publicizing the purpose and accomplishments of local cooperative organizations, and developing and distributing information relating to Illinois cooperatives.

In addition to the AIEC, membership of the ICCC is made up of: Farmland Industries, Inc.; Federal Land Bank of St. Louis; GROWMARK, Inc.; GROWMARK, Inc. — Grain Division; Illinois Farm Bureau; Illinois Milk Producers Association; Illinois Production Credit Associations; Interstate Producers Livestock Association; Southern Illinois University-Carbondale; St. Louis Bank for Cooperatives; and University of Illinois.

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'Why is my bill higher?'

All homes
are NOT alike

Consumers sometimes ask. "Why is my electric bill higher than my neighbor's? We both have about the same size house."

Of course, the obvious answer to the question is that your bill is higher because you used more kilowatt-hours. You pay only for the exact amount of electricity you use during the month, no more and no less.

The next question is usually, "Well then, why am I using more kilowatt-hours than my neighbor?"

There are four major factors that affect the amount of electricity used in the home and these will account for differences among members. (We are assuming an electrically heated and cooled home with electric appliances.)

First, variations in insulation levels, weatherization (storm windows, caulking, weatherstripping), landscaping and orientation will affect electricity usage. A properly insulated and weatherized house, with trees that shade it from the hot summer sun, will

require much less energy to cool than a home minimally insulated and situated on a treeless lot. Likewise, a properly insulated and weatherized house with south-facing glass can be heated more efficiently than an inadequately insulated house with most of its glass area facing north.

Secondly, houses are usually equipped with vastly different appliances suited to the individual homeowner's needs and preferences. Not only the different appliances but the efficiency of those appliances will affect the amount of electricity used in the home.

The third factor affecting electricity usage is the number of people in the household. It's obvious that an "average" family of six will require more energy than an "average" family of three. The more persons in a household, the more frequently appliances are likely to be used; the greater the hot water needs and so on.

After examining the first three factors that affect electricity usage in the home, the member will sometimes indicate that those items are about the same for his family as for the neighbor with whom he is comparing bills.

Another factor that will affect electricity usage in the home is life-style and living habits. Because we don't observe our neighbors 24-hours a day, these are often difficult to

compare. So let's take a closer look at how lifestyle and living habits can affect energy usage.

The water heater: One of the principal uses of electricity in the home is for water heating. (20 percent of the "average" household's energy use is for heating water, according to the Department of Energy's estimates.) We all know that washing, showering and bathing require hot water. However, our habits govern the amounts used for these tasks. Some people take brief, rather cold showers. Other people fill up a spacious tub to take a steaming hot bath. Some people bathe only once a day, others more frequently. Note that from the comments we've received, teenagers tend to take two, three and even four showers a day. More showers mean not only more hot water is used but the hair-dryer is used more often, too.

The clothes washer and dryer: Some families have generally lightly soiled clothing and wash in cold water. Others use warm water and still others use only hot water to clean a heavily soiled wash. Some families wash three or four full loads of laundry a week, all at one period. Other families might wash a partial load every day. All these factors affect the amount of hot water needed and thus the amount of electricity used by the household. Following those wash loads with drying and ironing means the kilowatt-hour usage will continue to climb.

The refrigerator: Every time the refrigerator door is opened, warm air enters and replaces cold air. Then the refrigerator's compressor must operate to remove the warm air and lower the temperature inside the refrigerator to the desired level. As you can see, the amount of time the refrigerator will

operate depends largely on how often the door is opened. One family may open the refrigerator twice as often as another. And the number of children having access to the refrigerator also will affect its frequency of operation. We know many members may have an "extra" refrigerator on the backporch or in the garage. That means "extra" kilowatt-hours are being used.

The freezer: How full the freezer is loaded will affect the length of time the unit will operate. An almost empty freezer will use more energy than one fully loaded. One family will keep its freezer almost full while another may use it only for a few items. Also, some households have two or

even three freezers. Another household may have none.

The electric range: The electricity used by an electric range will vary according to the number of meals prepared with it and the length of use. One family may use the range only once a day for a hot meal, while another family may use it for three meals a day. Also, one family may bake breads, cakes and desserts in the oven while another family may buy them in the store. Using lids on pots and pans and setting the proper temperature level will mean more efficient use of the stove. Do all families follow proper cooking procedures? Summertime cooking habits will affect energy use as well. One

family may use an outdoor grill much of the time while another will prepare summertime meals on a conventional stove. This will also affect the air-conditioning load in the house.

How aware are you of turning off lights in unoccupied rooms or turning off the radio when you leave the room? These are small items, but they do affect electricity usage.

As you could easily realize from the comparisons we've made here, your living habits and lifestyle will be a determinant in how many kilowatt-hours you use. So when you look at your neighbor's, bill, maybe you'd better live in his shoes for a few days or weeks, before you make any energy use comparisons.

*

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Selecting a contractor

If you have decided that your home is not sufficiently weatherized, you may prefer to hire someone to make the improvements. These suggestions from the Illinois Department of Energy and Natural Resources, prepared with the assistance of the Small Homes Council-Building Research Council, University of Illinois, should be considered.

Check the Yellow Pages in your telephone directory for the names of contractors in your area. Your fuel supplier, electric utility company, or lending agency also may be able to supply you with names. Consult friends who have recently made home improvements. They can tell you who their contractors were and whether they were satisfied with the workmanship. From these sources, make a list of three or four contractors from which to choose.

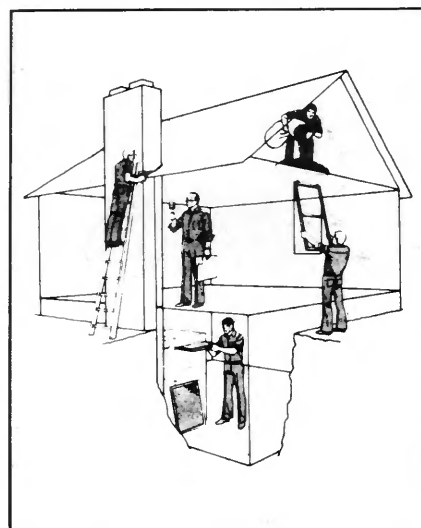
Call each of the contractors on your list and ask them for some names of past customers. Then check with these customers to see whether they have been satisfied with the work. Contact your local Better Business Bureau (listed in the Yellow Pages), or bank or credit agency and ask them to check each contractor's liability and credit rating.

It also might be a good idea to find out whether any of the contractors are members of a national or state association for contractors. These

associations set standards for work and quality, and in some cases will provide warranties to the customers.

Make sure the contractor purchases his materials from a reputable manufacturer.

Ask each contractor to give you a cost estimate for the home improvements you want made. Describe the job identically to each builder, and be specific. Note any modifications or



suggestions the contractor makes. Then choose the contractor who offers you what you are looking for.

Examine the job specifications carefully to determine what the contractor will do and when it will be done. Have the builder write a contract for your job. Insisting on a contract will not indicate that you

distrust the contractor. The contract should outline the responsibilities of both parties and should be fully understood before the work begins. Make sure it covers the complete job. The contract should include job specifications, starting and completion dates, permits and variances, liability coverage, protection against liens, a credit and refund clause, and a cancellation rights clause. It also should include a schedule of payment, hold-back clause, and a warranty.

Ask the contractor about insurance. Are the workmen covered by insurance if they are injured? Are you covered if one of the workmen damages your house? Sign the contract only when you are fully satisfied that it includes everything you want done. You may want to have your attorney review the contract or any other legal forms before you sign them.

Examine the work as it is being done. Discuss any questions or problems with the contractor immediately. Make any changes in the contract or specifications in writing. Find out how much the changes will cost first. Take pictures of the work. Do not sign a "certificate of completion" until all the work is done and you have thoroughly inspected it and are completely satisfied. Do not pay the contractor until he has provided waivers of lien from all material suppliers.

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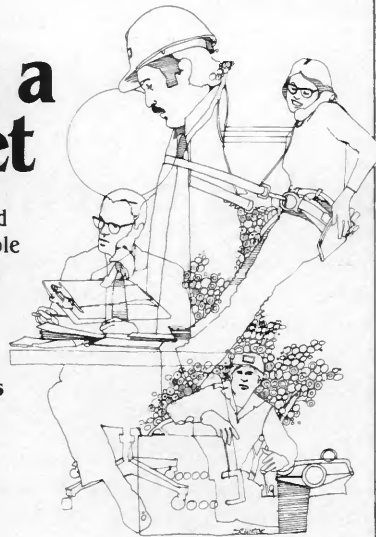
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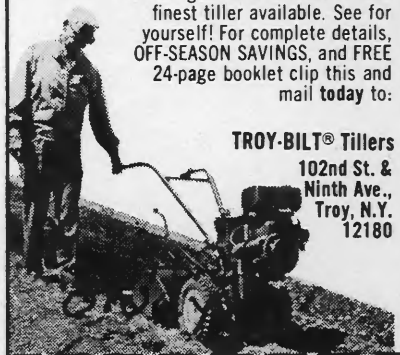
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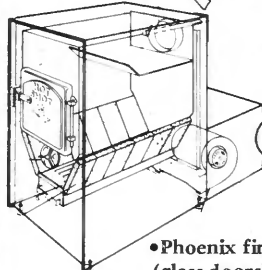
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Fireplace

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Fireplace Dimensions:

Height _____ inches

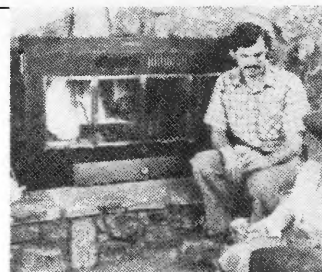
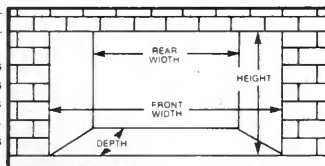
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Moisture control

(Continued from page 11)

a separate vapor retarder with unfaced fiberglass batts or blown cellulose. The separate vapor retarder may be foil-backed drywall or a 4- or 6-mil polyethylene sheet. The polyethylene can be applied all around the house, including the floor and ceiling. When installed, it is stretched across electrical outlet boxes, window frames, and doors. The plastic is then cut out around those areas. Polyethylene film installed over wall studs and ceiling and floor joints provides more effective vapor protection than backed insulation batts or foil-backed drywall.

Some home builders will not install a ceiling vapor retarder, especially one that works as well as 6-mil polyethylene film. They say a house wrapped in polyethylene film will retain too much water vapor and that the high relative humidity will cause condensation on windows. They argue that if a house attic is well ventilated, moisture passing through the ceiling will not cause problems and that the relative humidity will be reduced in the rooms below.

But leaving out the ceiling vapor retarder and letting water vapor drift through the ceiling isn't moisture control. Not all attics are adequately ventilated. And it is difficult to add adequate attic ventilation to older homes where there is little or no roof overhand in which to install vents.

Of course, there are many new homes with good attic ventilations that do not have vapor retarders in the ceiling and do not have any attic moisture problems. However, there are also cases where attic condensation has so severely mildewed and rotted roof rafters and sheathing that the roof must be replaced. Therefore, a ceiling vapor retarder is still recommended.

Houses built before 1945, or those that do not have wall insulation, have no vapor retarder. If you are planning to insulate the walls and ceiling of an uninsulated or older home, add a vapor retarder. There are two ways you can add a vapor retarder to an existing house. If you are

thinking of covering badly cracked plaster, first staple polyethylene film to the wall and/or ceiling and then apply the wall paneling or ceiling tile. If that is not possible, use paint to provide a vapor retarder. Two coats of gloss or semi-gloss oil-base paint makes a satisfactory vapor retarder. There also is a special latex paint that provides a satisfactory vapor retarder if you don't exceed the recommended spreading rate. Apply this special paint and decorate over it. The usual exterior latex decorator paints are not vapor retarders.

Many kitchens and bathrooms in older homes were painted with oil-base semi-gloss paint. These walls probably have a satisfactory vapor retarder. In bedrooms and living rooms, where the plaster was never painted, the wallpaper should be removed, the plaster painted with the special paint, and the wall re-

decorated. It will be difficult, but the vapor retarder will protect the investment you have made in insulation.

A crawl space ground cover is another moisture control recommendation. If the soil in your crawl space is dry, do not assume you do not have a moisture problem. Dry soil indicates moisture evaporation. This moisture can condense on the wooden floor joists and subflooring, causing them to mildew and rot. Moisture can migrate up through several feet of soil. You can stop surface moisture evaporation by covering the ground with a 6-mil polyethylene film. Weigh down the edges, and overlap about six inches of the film where joints are necessary. If the crawl space under your house has never had a ground cover, add one as you make insulation and weather-stripping improvements.

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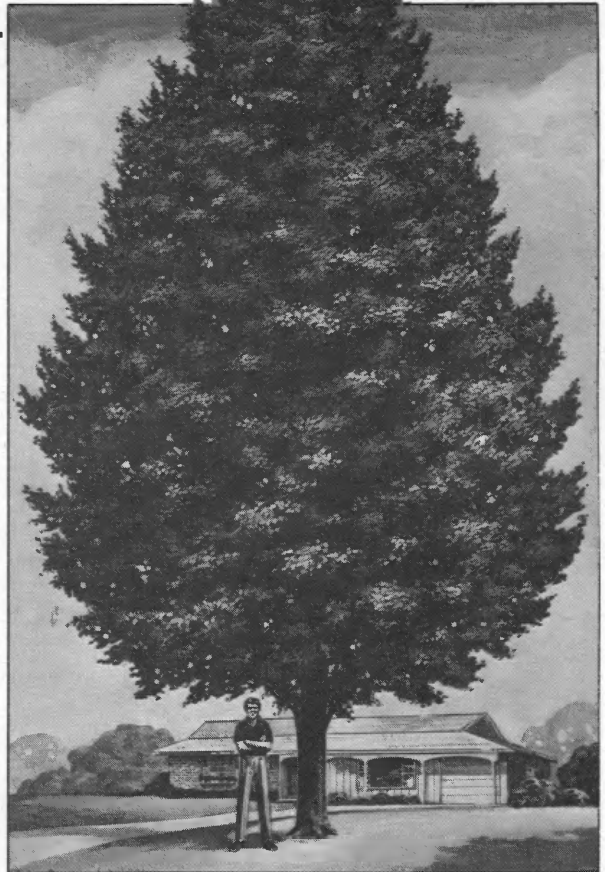
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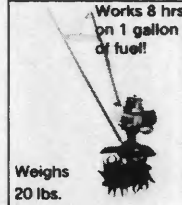
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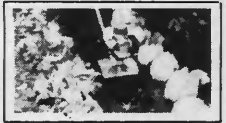
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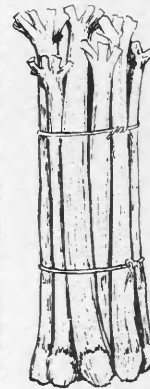


Big, tender, delicious — and perhaps the easiest of all summer vegetables! Once established the original planting usually produces for 20 years! Martha Washington variety produces abundant, giant-size with tender tips.

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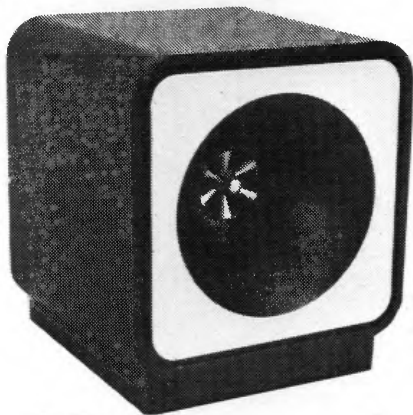
HOW MANY	CAT. NO.	DESCRIPTION	COST
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	735	Rhubarb	

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SCRAM™ is small and unobtrusive--rugged, hi-impact case has black finish with brushed silver face. Measures only 3-1/2" x 4" x 3-1/2". Weighs about a pound.

Clear Your Home of Mice, Rats, Roaches and Other Pests--and Keep Them Out!

SCRAM™ is a home-size version of the commercial pest control device that's safe for people, pets and the ecology. Try it in your home for 30 days.

repelling power for only \$49.95 (plus \$2.85 shipping and handling). Now there's no need to empty messy traps or buy poisonous chemicals again and again.

They don't call them pests for nothing. The bugs and rodents of this world can make life miserable. Traps, sprays and poisons seem to have little effect...and professional exterminators don't come cheap. But now you can eliminate troublesome pests and keep them out thanks to new ultrasonic SCRAM™.

The electronic SCRAM™ unit doesn't kill rodents or insects--it repels them. Early laboratory research showed that ultrasound was effective in modifying the behavior of mice and rats.

As commercial exterminators began using ultrasonic sound to control rodents, other studies indicated that certain frequencies affected the behavior of insects, too. Now, professional pest control companies acknowledge the usefulness of ultrasonics in controlling certain rodents and insects.

UNIVERSITY TESTED

The heart of this new, electronic marvel is a special quartz crystal speaker. It enables SCRAM™ to emit ultrasonic sounds that only pests can hear.

These ultrasonic frequencies "attack" the auditory and nervous systems of rodents and certain insects causing pain and discomfort. The pests are forced to abandon the covered area and will not return while you continue to use SCRAM™.

A leading university tested SCRAM™ as absolutely safe for humans and pets. And since there are no poisonous chemicals, the

SCRAM™ is effective in repelling:

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Crickets	Silver Fish
Water Bugs	Locusts
Fleas	...and many other pests

Note: In spite of some claims, studies show that ultrasound is not effective in controlling bats or spiders.

ecology is not harmed in the slightest.

The ultrasonic output is above the hearing range of humans and household pets, so SCRAM™ is safe for use anywhere. It will not interfere with any electronic burglar alarms, fire or smoke detector, TV reception or other electronic equipment.

SET UP A BARRIER TO KEEP PESTS OUT THIS WINTER.

When you get your SCRAM™ you'll begin to notice some results in a few days. In two to six weeks your infestation will be eliminated. Then continual operation of your unit will prevent further nesting and inhabitations.

Even with colder weather approaching, you can keep pests from coming indoors as long as your SCRAM™ is in operation.

JUST PLUG IT IN.

There's no installation with SCRAM™. All you do is plug it into any 110-Volt AC outlet. The solid-state electronics and quartz crystal speaker require only 5 watts of power--just pennies per month--and it's maintenance free.

Put SCRAM™ anywhere: home, apartment, store, warehouse, or factory. It's the perfect answer for facilities where food is stored or handled such as schools, hospitals, and nursing homes.

It will repel pests from areas that are difficult to seal-off such as garages, farm out-buildings, boats and vacation homes. One unit protects an area up to 2500 cubic feet.

YOU CAN'T BUY BETTER PEST PROTECTION.

SCRAM™ is state-of-the-art technology. Until now, commercial units used by professional pest control companies cost up to \$200--but lower cost solid-state components allow SCRAM™ to give you the same pest

TRY IT FOR 30 DAYS WITHOUT RISK.

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FARMER'S CHICKEN STEW

- 1 5-lb. stewing chicken, cut-up
- 2 cups water
- 3 small onions, cut in half
- 5 whole cloves
- 1 bay leaf
- 1 tablespoon salt
- 1 1/2 teaspoons paprika
- 1/4 teaspoon pepper
- 2 cups carrot slices, cut diagonally in 1/2-inch pieces
- 2 cups celery slices, cut diagonally in 1/2-inch pieces
- 1 10-oz. pkg. frozen peas, unthawed
- 2 cups milk
- 1/2 cup flour

Place chicken in 4-quart Dutch oven. Add water, onions and seasonings. Bring to a boil. Cover; simmer 2 1/2 to 3 hours or until chicken is tender. Remove bay leaf and cloves. Add vegetables; bring to a boil. Cover; simmer 15 to 20 minutes or until vegetables are tender. Drain and reserve broth. Skim off excess fat. Pour 3 cups broth into saucepan. (If necessary, add water to measure 3 cups.) Gradually add milk to flour, stirring until smooth. Add to hot broth; bring to a boil over medium heat, stirring constantly until gravy is thickened. Pour gravy over chicken and vegetables. Heat thoroughly. Sprinkle with paprika before serving, if desired. 6 servings.

PIMIENTO CHEESE BISCUITS

- 2 cups buttermilk biscuit mix
- 1 cup (4 oz.) shredded sharp Cheddar cheese
- 2 tablespoons chopped pimiento
- 1/4 teaspoon oregano leaves, crushed

Combine biscuit mix, cheese, pimiento and oregano. Prepare as directed for drop biscuits. Bake at 425 degrees for 8 to 10 minutes or until lightly browned. Serve warm. 10 biscuits.

BEST EVER CHILI

- 2 lbs. ground beef
- 1 cup chopped onion
- 1 cup chopped green pepper
- 1 cup sliced celery
- 1 (15-oz.) cans kidney beans
- 2 (16-oz.) cans tomatoes, cut up
- 1 6-oz. can tomato paste
- 2 cloves garlic, minced
- 1 to 1 1/2 tablespoons chili powder
- 2 teaspoons salt

In Dutch oven, cook beef, onion, green pepper, celery, till meat is brown and vegetables tender. Drain kidney beans, reserving liquid. Add beans and remaining ingredients. Cover, simmer 1 to 1 1/2 hours. If desired, stir in some reserved bean liquid.

SKILLET CABBAGE

- 1 tablespoon salad oil
- 3 cups finely chopped cabbage
- 1 cup chopped celery
- 1 small green pepper, chopped
- 1 small onion, chopped
- 1/2 teaspoon salt—dash pepper

In medium skillet heat oil on medium heat. Stir all ingredients till well mixed. Cover and cook 5 minutes, stirring occasionally. Serve immediately.

GREEN BEAN CASSEROLE

- 2 cans green beans
- 1/2 cup sliced water chestnuts
- 2 tablespoons water
- 1 tablespoon butter
- 1 can cond. celery soup
- 1 can French onion rings

Place beans in 1 1/2 qt. casserole. Add water chestnuts, water and butter. Top with soup. Cover and bake at 350 degrees for 15 minutes. Remove from oven and stir. Cover and bake 30 minutes longer. Remove cover, top with onion rings and bake uncovered 5 minutes longer.

CREOLE CORN

- 1 can whole kernel corn
- 1 small chopped onion
- 1/2 green hot pepper (chopped)
- 1 small can tomato sauce
- 3 strips bacon
- 1/2 green sweet pepper (chopped)

Fry bacon strips; drain on paper towel. Saute onions and green pepper in small amount of bacon grease. Add tomato sauce and simmer for few minutes. Serve with crumbled bacon bits.

SAUERKRAUT SALAD

- 1 large can sauerkraut, rinsed and drained
- 1 4-oz. can pimiento, drained and chopped
- 1 cup chopped onion (sweet red)
- 1 green bell pepper, diced
- 1/2 cup white vinegar
- 1/2 cup sugar

Combine all ingredients. Mix well. Refrigerate overnight. Goes well with meats or potatoes.

BLACKBERRY PIE

- 1 baked pie shell
- 1 pint blackberries
- 1 small pkg. blackberry jello
- 3/4 cup boiling water
- 2 tablespoons cornstarch
- 1 cup water
- 1 cup sugar
- 1 small container of Cool Whip

Bake pie shell until brown and set out to cool. Mix blackberry jello with boiling water and set aside. Cook 2 tablespoons cornstarch and 1 cup water and 1 cup sugar until thick and clear. Mix this with jello mixture and add blackberries. Refrigerate until chilled. Put in pie shell. Top with Cool Whip and refrigerate until ready to serve.

FRUIT FREEZE

- Crust
- 6 cups Rice or Corn Chex, crushed fine
- 1/2 cup sugar (set aside 1/3 cup of mixture to reserve for topping)
- 1 stick oleo

Melt oleo, pour into cereal/sugar mixture. Mix well and press into a 9 x 13-inch baking dish. Bake at 300 degrees for 12 to 15 minutes. Let cool.

Filling

- 1 can sweetened condensed milk
- 1 can crushed pineapple (drained)
- 2 cans mandarin oranges—drained (one can for pie—one can for top)
- 2 lemons, juiced (1/3 cup)
- 1 small can diced peaches (drained)
- 1 large Cool Whip

In large mixing bowl, pour condensed milk. Add lemon juice and fold in pineapple, peaches and one can mandarin oranges. Mix well. Fold in Cool Whip. Fold into baked pie crust. Sprinkle with 1/3 cup cereal/sugar mixture, and place remaining can of oranges on top. Freeze for 4 hours. Take from freezer about 20 minutes prior to serving.

Return to OLI

MEAT BALLS

- 1 1/2 lbs. ground beef
- 1 1/2 cups croutons
- 3/4 cup applesauce
- 1/2 cup milk
- 1 med. onion, diced
- 1 egg
- Salt and pepper
- 1 can tomato soup

Mix together beef, croutons, applesauce, milk, onion, egg and salt and pepper to taste. Set and let soften. Make into small balls. Pour tomato soup mixed with 1/2 can water over meat balls. Bake at 350 degrees 45 minutes. May be served over noodles or rice or plain.

COCONUT FUDGE

- 1 1/2 sticks margarine
- 1 teaspoon vanilla
- dash of salt
- 1 lb. box powdered sugar
- 1 1/2 cups coconut
- 6 oz. pkg. semi-sweet chocolate morsels

Melt margarine and add vanilla and salt. Empty into large mixing bowl and add powdered sugar. Stir until moist and then add coconut. Knead until well mixed and put in flat pan and spread evenly. Melt semi-sweet chocolate morsels. Spread over coconut mixture and let set, then cut into squares.

NEVER FAIL PEANUT BRITTLE

- 3 cups white sugar
- 1 1/2 cups white Karo
- 1/2 cup water
- 4 cups raw Spanish peanuts
- 3 teaspoons butter
- 1 teaspoon vanilla
- 2 1/2 teaspoons soda

Boil sugar, Karo and water until thread spins, or until temperature has reached 250 degrees. Add peanuts and stir continuously until temperature reaches 290 degrees (hard crack stage). Remove from heat, add butter, vanilla and soda. Pour onto buttered cookie sheets, spreading as thin as possible with spoon. Let cool and break up into desired size pieces.

KARO NUT PIE

- 1 cup light brown sugar mixed with 1 tablespoon flour
- 1 cup white Karo
- 1/2 stick butter
- 3 eggs, beaten
- 1 cup pecans
- 1 teaspoon vanilla

Put sugar with flour, Karo and butter on to heat. Pour over 3 beaten eggs. It is wise to put in a small amount of the hot mixture on the eggs at one time so eggs will not cook. Add vanilla and pour over 1 cup of pecans that have been sprinkled on an uncooked pie shell. Bake at 350 degrees for about 45 minutes or until pie is set. Place pie in the low to center part of the oven so that pie does not get too brown before it is set. I use tart shells for this and freeze each separately for ease in serving.

DISHPAN COOKIES

- 2 cups brown sugar
- 2 cups white sugar
- 2 teaspoons vanilla
- 2 cups cooking oil
- 4 eggs
- 4 cups flour
- 2 teaspoons soda
- 1 teaspoon salt
- 1 1/2 cups quick oats
- 4 cups corn flakes

Cream together first five ingredients. Add flour, soda and salt into first mixture. Fold in quick oats and then corn flakes. Drop on cookie sheet and bake at 350 degrees for 7-8 minutes or until light brown. Makes a dishpan full. Good frozen.

SAUSAGE SAUERKRAUT SKILLET

- 1 lb. bulk pork sausage
- 1 13 1/2-oz. can (1 2/3 cups) pineapple tidbits
- 1 14-oz. can (1 2/3 cups) sauerkraut
- 2 med. unpared apples, sliced
- 1 tablespoon cornstarch

Brown sausage; drain. Drain pineapple, reserving 1/4 cup syrup. Add pineapple and kraut to sausage. Cover, cook over low heat for 20 minutes. Add apples, cook 10 more minutes. Combine reserve syrup and cornstarch; stir into sausage mixture. Cook just until thickened. Makes 4 to 6 servings.

FIG PRESERVES

- 2 cups figs
- 2 cups sugar
- 1 (3-oz.) pkg. strawberry gelatin

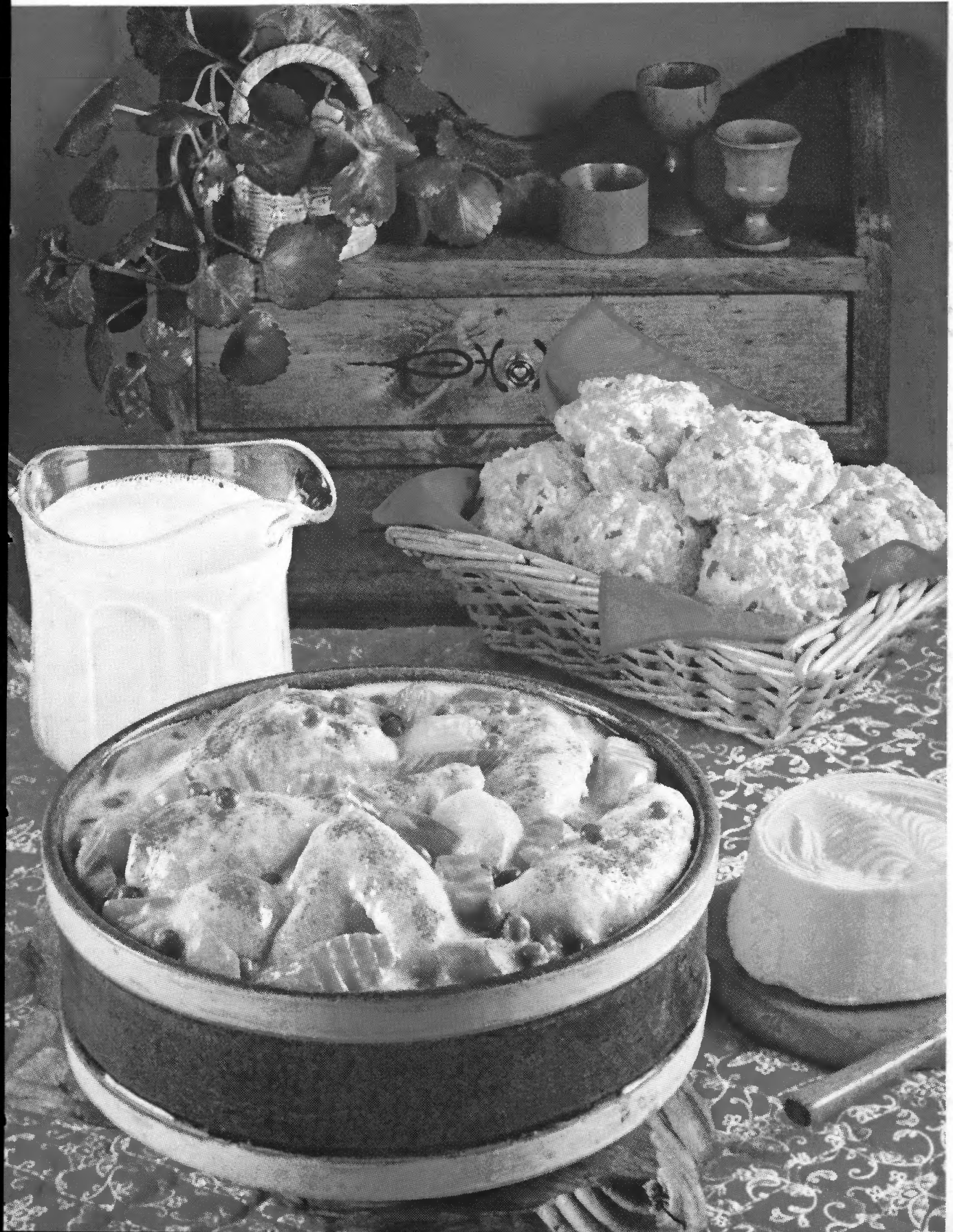
Wash, cut or mash figs. Add sugar and gelatin. Boil together 9 minutes. This keeps good in freezer or you may process in water bath, like canned figs, place in jars and seal.

CHICKEN SALAD

- 4 cups cooked chicken, finely diced
- 2 cups celery, chopped
- 1 tablespoon onion, minced
- 1 tablespoon lemon juice
- 3/4 cup mayonnaise
- 1/4 cup cream
- Salt and pepper
- 1/2 cup chopped nuts

Toss chicken and celery. Mix onion, lemon juice, mayonnaise and cream and mix with chicken. Season to taste and stir in nuts.

FASHIONED COOKING





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SIZES 10½-20½



9352
SIZES 8-20



9340
SIZES 2-8



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9344



9171

SIZES 10½-18½



9266
SIZES 8-18



9388
SIZES 8-18
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SIZES 8-20

9354



9281
10½-22½



9148 SIZES 8-20



9444

10½-22½



8-14 9454



- No. 9065 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) takes 3¼ yards 45-inch fabric.
- No. 9352 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 2 3/8 yards 60-inch fabric.
- No. 9340 is cut in Child's sizes 2, 4, 6, 8. Size 3 knickers 7/8 yard 45-inch nap; shirt 1 1/8 yards 45-inch.
- No. 9344 is cut in Women's waist sizes 31, 33, 35, 37, 39, 41½ inches. See pattern for yardages.
- No. 9171 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) takes 2 3/8 yards 45-inch fabric.
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- No. 9388 is cut in sizes 8, 10, 12, 14, 16, 18; half sizes 10½, 12½, 14½, 16½, 18½. Yardages in pattern.
- No. 9354 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) fitted jacket 1 5/8 yards 54-inch; other 2-1/8.
- No. 9281 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2 7/8 yards 45-inch fabric.
- No. 9148 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) vest, skirt 2¼ yards 54-inch; shirt 1 7/8 yards 45-inch.
- No. 9444 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) dress 2½ yards 60-inch; jacket 1 yard.
- No. 9454 is cut in Girl's sizes 6, 8, 10, 12, 14. Size 10 vest, pants 2 1/8 yards 45-inch; blouse 1 1/8 yards.

TO: PATTERNS

Illinois Rural Electric News
P.O. Box 3787
Springfield, IL 62708

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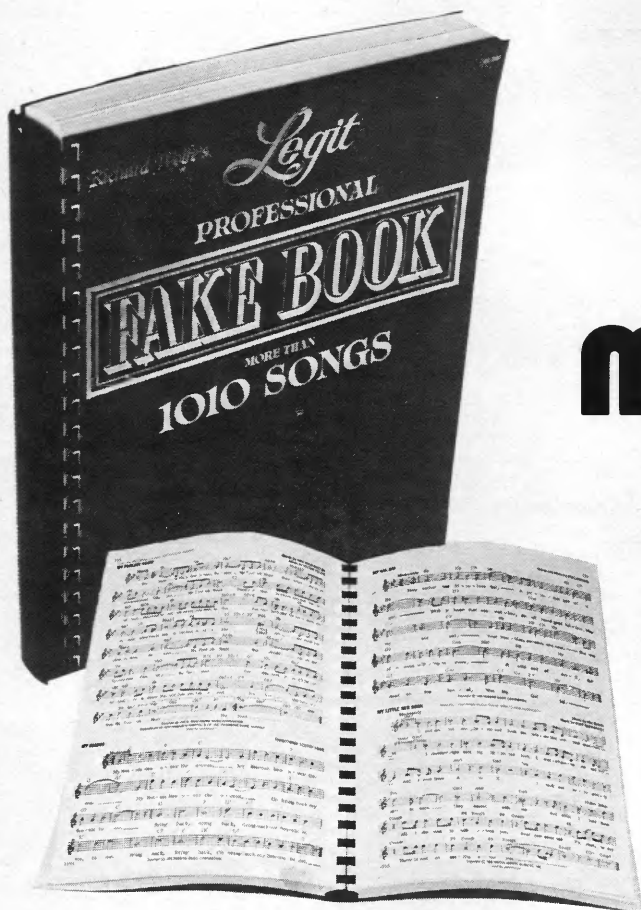
Pattern No.	Size	Pattern No.	Size
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Blue Moon • Roses Are Red My Love • Don't Blame Me
City of New Orleans • El Paso • You Made Me Love You
Peg O' My Heart • Killing Me Softly With His Song
On A Clear Day • Who Can I Turn To • Bouquet Of Roses
Oklahoma • Bye Bye Love • Ruby • Somewhere My Love
Don't Be Cruel • Over The Rainbow • Unchained Melody
The Shadow Of Your Smile • If Ever I Would Leave You
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**MONEY
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GUARANTEE**



I have to keep busy, and I don't watch much television. I'd grown tired of crewel embroidery, crocheting and knitting, and when a friend, Laura Farson, lent me some books on weaving, that seemed to be an interesting way to go." That is how Vicki Hedrick got started learning the fine points of the ancient art of weaving. The Hedricks are members of Rural Electric Convenience Cooperative.

"It was especially interesting," she adds, "because I could do some original work, and that appealed to me."

Vicki got deeper into the subject when her friend stepped up to an eight-harness loom and lent Vicki her four-harness machine, which she eventually bought. A harness, she notes, is a frame midway between the back beam and the breast beam. It holds and controls heddles, which are sets of parallel cords or wires, through which the warp threads or yarn is strung.

Vicki's friend also introduced her to several professional weavers in the Springfield area, and she quickly joined the Springfield Fibers Guild. After weaving for several months on the four-harness loom, Vicki took a weaving class at the Art Association in Springfield. "Lynn Westfall, who lives near Tallulah, taught the class," she says enthusiastically, "and she's

been weaving for years. I learned a lot there."

Much of what she learned, though, came from talking with other weavers and putting what she has read about designing woven fabric and using color into practice on the loom.

"As in many other areas, the weaver can never know all there is to know. It's much more complex and extensive than I had realized three years ago when I first started," she says.

"There is a large variety of weave structures a weaver can choose for cloth," she relates, and just a few are familiar to most people, like the twill weave of jeans, the Tartan plaids of Scotland, and the tapestry techniques of the American Southwest and of

Oriental rugs. Actually, those barely scratch the surface.

"By learning the rules to produce each weave," she continues, "the weaver can use his or her originality to develop a unique pattern, can use a traditional weave in a contemporary way, or can completely copy a weave for which there are written records or woven remnants, or both."

Besides variety in weaves and patterns, there is also variety in looms. Many people have used simple frame looms and hoops for weaving. Plain weaving is done on these, and tapestry techniques can be used for pattern areas. Inkle looms, which are small, narrow looms, and cards can be used for band weaving, allowing weavers to create such items as belts and guitar



A weaving woman'



Clockwise from left: Vicki at her massive loom. A small wall hanging workmanship, attention to detail. Weaving hands shown from over the weaver's shoulder are making a complex, colorful pattern. Vicki shows her son Jason and daughter Trina the finer points of weaving.

wondrous works

straps. The bands can also be sewn together for larger pieces. Though tapestry can be done on most looms, the vertical loom is most satisfactory because it allows more of the woven surface to be visible at any one time.

Most of Vicki's weaving is done on four-harness or eight-harness floor looms, but she sometimes uses an inkle loom and cards. "I do mostly household textiles such as placemats, table runners, wall hangings, wool rugs and blankets, but I also enjoy doing ponchos, serapes and shawls," she says. Those items are done mostly on special order, but some go to consignment shops.

When Vicki starts a project, she must decide the finished size of the item, the suitable fiber, the color or

colors, and whether or not there will be a pattern. She prefers cotton, wool and synthetic-blend yards. Once in a while, she uses an all-synthetic yarn. She has to make allowances for take-up during weaving, shrinkage, and hem, seam and fringe waste. She also needs to decide how tight the fabric should be, a factor decided by the end use of the item to be woven. For example, upholstery fabric should be sturdy and not loose-woven, while a shawl might call for a lacy, open weave.

"The time I spend on an item depends on the size, how closely woven it is, and the kind of weaving I'm doing," she says, "And I need to spend some time finishing an item, too. This may include edging stitching,

washing, binding the edges, making a decorative fringe, or assembling woven pieces for clothing or panels for tablecloths.

"Finishing may take more time than the weaving, and it's very important to the article's appearance and wearability, especially if it's clothing, she says.

While she says she is still learning weaving, she is passing her skills on, too. She has demonstrated weaving at the Clayville Rural Life Center near Pleasant Plains, the Macoupin County Historical Society's Fall Arts and Crafts Fair, the Macon County Historical Society's Yesteryear Fair and the H. E. Nursery's Octoberfest in Litchfield, so that others may get a look at the ins and outs of weaving.

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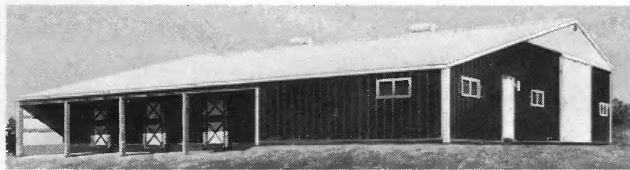
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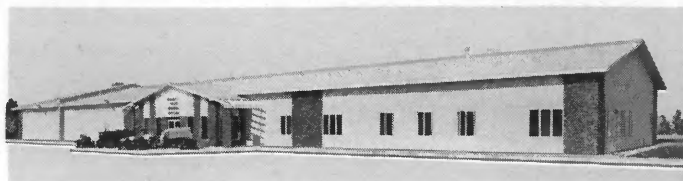
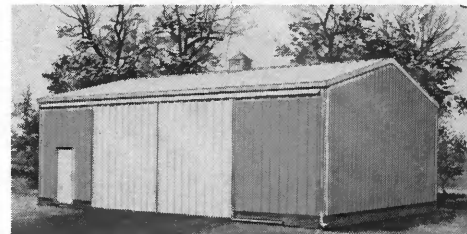
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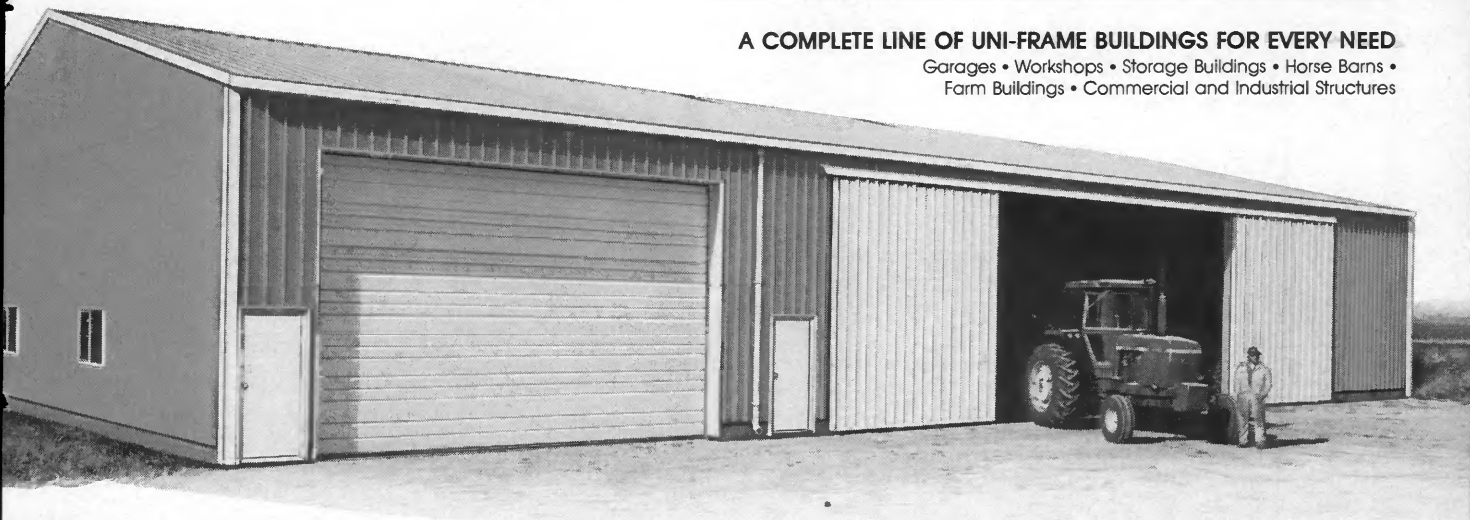
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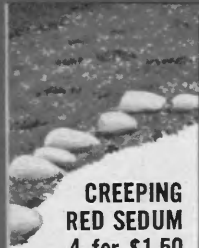
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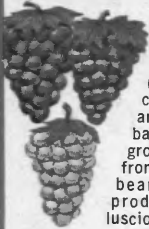
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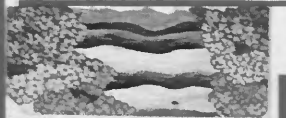
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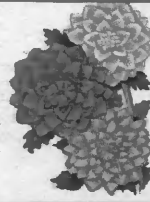


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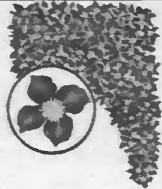
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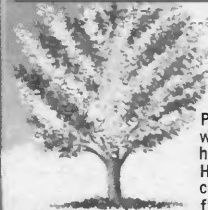


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