



41st Annual Meeting

NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION

RURAL ELECTRIC
& exposition

January 30 • February 2, 1983
Las Vegas Convention Center

Program

RURAL ELECTRIC
Financing
FOR THE
Future

NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORPORATION

CFC

Committee
on Objectives
and Planning

March 1983

ren

Illinois Rural Electric News

Lady Plugs In Zoysia Grass Saves Time, Work & Money

FREE! UP TO 600 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!

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

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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.

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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.

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Illinois Rural Electric News

Agriculture Day

March 21 is a very important day for some 23 million Americans. Actually, its an important day for all Americans. It is National Agriculture Day, a special day set aside to celebrate this nation's agriculture success in providing the world's most abundant and highest quality food supply.

Since 1973 Agriculture Day has been celebrated as a salute to the entire food chain: the farm suppliers and the men, women and firms who grow, raise, process, ship and sell the most abundant food supply that the world has ever known. That is where the 23 million Americans come in. That figure, nearly one fourth of the nation's work force, includes not only those who produce food, feed fiber, fish and horticultural products, but also those who supply producers and those who hold down jobs all the way through the system to supermarkets, convenience stores, restaurants and other retail outlets as well.

The food and agriculture sector of this nation is the world's largest commercial industry, Harold Guither, University of Illinois Extension agricultural economist, notes.

The importance of Illinois in this industry is a matter of record. This state's farms and farmland are valued at more than \$61-billion and they produced about \$8-billion in gross sales during 1982, Guither says. Illinois leads the nation in total value of agriculture exports, with sales abroad of more than \$3.6-billion last year.

The state's predominance in terms of agriculture is

illustrated also by the fact that it ranks first among states in value added by the manufacture of food products, Guither adds, and Illinois ranks first in soybean acreage and second in the production of corn for grain, hog and pig production, and seventh in marketing grain-fed cattle.

He adds that this state is fifth in red-meat production, second in cash receipts from crops, tenth in livestock products and fourth in total agricultural cash receipts.

Of importance in observing Agriculture Day and all of Agriculture Week (March 18-24) is the advancement made by the agriculture sector in productivity. Today's modern farms — highly mechanized to no small degree by the growth of electricity use on the farm — are models of productivity that the rest of our industries envy.

Guither notes that today's U.S. farms are more productive than ever. "Fifty years ago, there were 6.5 million farms in the U.S. and the average size farm was 145 acres. Today there are 2.4 million farms, the average size is 430 acres," he says. In the last 20 years, Guither notes agricultural productivity has increased more than three times faster than the nonagricultural productivity rate, and, today, one hour of farm labor produces 14 times as much food and crops as it did 60 years ago.

The theme of the observance, "America's Heartbeat," signifies agriculture's role in our nation's economic health much the same as electricity does in today's modern farming industry.

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In this issue

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Cover: Rural electric system leaders across the nation are confronted with questions about the future of rural electric financing. The recent annual meeting of the National Rural Electric Cooperative Association focused on this concern. (See story starting on page 4.)

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NRECA ANNUAL MEETING

Rural electric financing top priority of delegates

Rural electric leaders have approved a course of action designed to preserve the Rural Electrification Administration (REA) program and assure cooperatives of the lowest-cost, most feasible loan program available.

During the business session of the 41st Annual Meeting of the National Rural Electric Cooperative Association (NRECA), delegates of the nation's more than 1,000 rural electric systems endorsed recommendations of the NRECA Committee on Financing for the Future. The Committee's findings and recommendations were developed over a period of more than a year. Some 21 leaders of the rural electric program, including three former REA administrators, made up the panel, appointed in the fall of 1981.

The subject of rural electric systems' financing future was the underlying theme of the meeting, held in Las Vegas, Nevada. "Our continued

ability to raise the capital necessary to maintain a strong and reliable distribution network and build new generation and transmission facilities will be a major determinant of our future. I believe that most of us agree that our continuing success will depend on preserving an adequate and workable system for REA financing," Robert D. Partridge, NRECA general manager, told the delegates during his report.

The key element of the NRECA committee's report is a proposal to seek amendments to the Rural Electrification Act that would permit interest rates to vary periodically. The purpose of the change would be to keep in balance a self-replenishing revolving fund which is the primary loan source for electric distribution cooperatives.

Partridge called the Committee's recommendations the "blueprint from which we can build even a stronger and in many ways better REA financ-

ing program."

The revolving fund insured loans and guaranteed loans with access to the Federal Financing Bank are of major importance to the nation's electric cooperatives. Without either program, the expense of providing rural areas with adequate, reliable electric power would be increased sharply, resulting in even higher rates.

Electric cooperatives have little equity with which to attract private sector funds. Their equity is produced solely by cumulative operating margins. Accelerating the growth in equity would require substantial increases in retail electric rates charged to member-consumers, an unwelcome prospect in light of the fact that rural electric systems' rates are on the average some 12 percent higher than those of neighboring non-cooperative utilities.

In addition, even if private sector lenders were willing to provide the

Delegates conducting business during the final day of the meet





Above: A number of Illinois delegates discuss proposed resolutions prior to the business session. Upper left: Les Boegemann, a Norris City high school student and a member of the NRECA Youth Consulting Board, was one of 24 young people from across the nation who served as guides and information assistants during the meeting. Left: U.S. Secretary of Energy Donald P. Hodel was a featured speaker.



large amount of funds the rural electric systems require, at the best of prevailing interest rates, the cost of money for the cooperatives would be significantly higher than for non-cooperative utilities, due to tax advantages and benefits available for the investor-owned utilities (IOU's). And, rural electric leaders are especially perplexed when Reagan Administration proposals include major cutbacks in rural electric federal assistance at a time when IOU's enjoy steadily growing federal tax benefits that effectively reduce their interest rates.

Cooperatives have built and maintain 53 percent of the nation's electric lines, but account for less than 10 percent of the total electric sales across the nation.

Yet the average revenue per mile of installed line is about eight percent of that of the average power company, and cooperative's consumer density is only 13 percent of the typical IOU.

The NRECA committee is one of the two panels that have studied the rural electrification financing program. A committee of 26 representatives of

systems across the nation served as the Committee on Objectives and Planning for the National Rural Utilities Cooperative Finance Corporation (CFC). (CFC is the rural electric systems' self-help financing institution to provide capital required by the systems to supplement their loans from the REA.)

The CFC committee, also appointed in the fall of 1981, was charged with making an in-depth study of CFC's structure and organization to assure that the organization was and would continue to fill its appropriate role in the rural electrification program. The Committee's study of the future of supplemental financing determined that:

- Continuation of the REA loan program for distribution systems at levels which will assure viability of the REA revolving fund is essential,

- CFC has the capability to provide all of the supplemental capital requirements of its distribution members and should be prepared to expand its role as the need arises, and

- Rural electric power supply projects will continue to require REA loan guarantees and funding by the FFB to develop generation facilities necessary to meet rural power needs.

Illinois was represented on both committees. James D. Holloway, who until early February was manager of Egyptian Electric Cooperative Association, Steeleville, was on the NRECA committee. Holloway is now executive assistant to Illinois Attorney General

Neil Hartigan. Thomas H. Moore, executive vice president and general manager of the Association of Illinois Electric Cooperatives, served on the CFC committee.

The NRECA committee focused its attention on several main points: how much capital will be needed by the rural electric program during the next two to three decades, what action is necessary to ensure long-term viability of the revolving fund, and possible financing sources for future needs.

Guy Lewis of Bowling Green, Virginia, chairman of the NRECA committee, outlined the next step for the rural electric systems. "Many of the modifications to REA lending terms and policies suggested here will require major legislative 'surgery' involving changes in the Rural Electrification Act. As with any surgery — legislative or otherwise — there is a certain amount of risk. We believe, however, that given the present condition of the revolving fund the obvious benefit all of us will derive from a strong, long-lasting and adequate REA financing program, we should pursue these remedies without undue delay," he reported.

The revolving fund was established in 1973 as a source of capital for insured loans to rural electric and telephone systems. The combined effects of high interest rates and heavy demand for insured loans have taxed the revolving fund beyond what was anticipated a decade ago, Lewis added. It is the source of about 15 percent of

the capital needs of electric cooperatives.

The remaining 85 percent is borrowed under federal guarantee by generation and transmission cooperatives. The Committee recommended that the guaranteed loan program, including access to the FFB, be retained in essentially its present form.

Endorsement of the financing proposals came the same week as Reagan Administration plans to cut deeply into rural electric programs. The Administration's proposed 1984 federal budget would cut in half the amount of funds available to distribution cooperatives from the self-replenishing revolving fund, despite action in the last two years by Congress to reject such cutbacks.

Partridge called the budget proposal "a blueprint for higher rates to rural electric consumers and increased hardship for rural America."

In addition to the reduced loan authorization levels, the Administration has proposed to alter current budget language that sets out the 70-30 ratio of REA loan funds to pri-

vately obtained money. The Administration has indicated it would like to increase the share of non-REA loan funds.

Angus Hastings, NRECA board president, called for the rural electric leaders to "mount an all-out effort to deal with the fundamental problem of the rural and agriculture economy. It is obvious that we should be doing all we can to keep electric rates down, but we should also be providing as much support as we can to realistic, well conceived efforts to improve the overall economic picture for farmers and other rural people."

U.S. Secretary of Energy Donald P. Hodel, speaking during the last day of the three-day meeting, told the delegates that energy and economic stability will result in renewed electrical growth in America.

"I hope we will shake off the gloomy forecasts as we look to the future and revitalize ourselves like rural America did when it started converting to electricity," Hodel said.

The Secretary said he agreed with NRECA that electric power is the

"backbone of the entire system of rural energy," and added, "Electrical energy must continue to be a component part of any energy consensus in America."

REA Administrator Harold V. Hunter spoke on the importance of dedication by electric cooperative directors. He used a hypothetical story to illustrate "the importance I place on the role of a co-op director. It is a responsibility that requires total dedication but, most importantly, hard work."

An Illinois manager, C. E. (Ed) Ferguson, was reelected to the board of directors of CFC during that organization's 14th annual meeting, conducted during the week of the NRECA meeting. Ferguson, manager of Coles-Moultrie Electric Cooperative, Mattoon, will serve his second three-year term.

Stanley L. Greathouse, a director of Wayne-White Counties Electric Cooperative, Fairfield, and Illinois director on the NRECA board, was a panelist during a discussion on board-management cooperation.



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7/14/81	IV Fluids	480-02	15.00
7/15/81	IV Fluids	480-02	15.00
7/16/81	X-ray chest	490-01	25.00
7/16/81	X-ray chest	490-01	25.00
7/18/81	X-ray chest	490-01	25.00
7/24/81	Oxygen set up	5466-08	10.00
7/14/81	Oxygen set up	5466-08	10.00
7/15/81	EKG	5788-05	35.00
7/14/81	EKG	5788-05	35.00
7/16/81	EKG	5788-05	35.00
7/24/81	Blood tes	4432-03	35.00
7/14/81	Blood tes	4432-03	35.00
7/15/81	Blood tes	4432-03	35.00
7/21/81	Blood tes	4432-03	35.00
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Rebuilt memories



Loren Ottwell's roots go deep into the history of Pike County. Among the early settlers in the county was an ancestor, John Ottwell, who is thought to be the first person to take up residence in Pearl Township, along Bee Creek.

Loren was born in that same area, in 1927, in a log home that was built near the upper end of Bee Creek. For almost 20 years, until he left for the military in 1946, the log cabin was home. While he was in the service, his family moved from the rustic home, into Pittsfield.

Loren Ottwell, a member of Illinois Rural Electric Co., never forgot that old cabin.

Finally, in 1976, 30 years after he had left it, Ottwell's interest in his home county's history and the old cabin led him to begin planning to take that old log building apart, move it to his new homesite southwest of Pearl, and rebuild the structure in his back yard.

"It was my birthplace," Ottwell explains as he shows visitors through the door of the historic cabin, which now sits behind his modern home on the Ottwell farmstead.

"My family moved into this cabin in 1925," he says. "The cabin was

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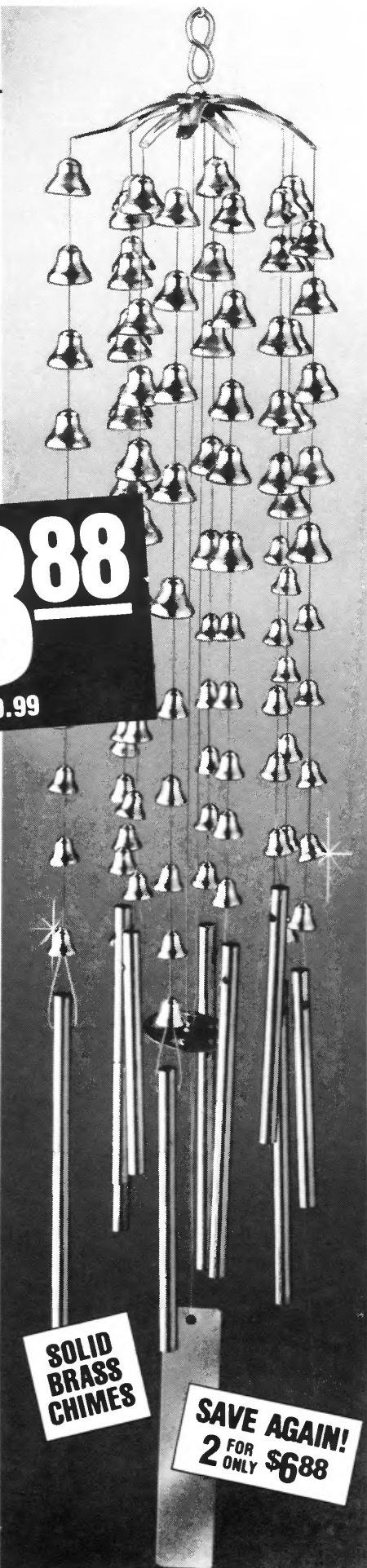
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SOLID BRASS CHIMES

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Left: The rebuilt cabin sits in the backyard of the Ottwell place southwest of Pearl. Lower left: Loren Ottwell uses the cabin mainly for his writing, which includes a published book of poems entitled, "Drink at the Fountain."

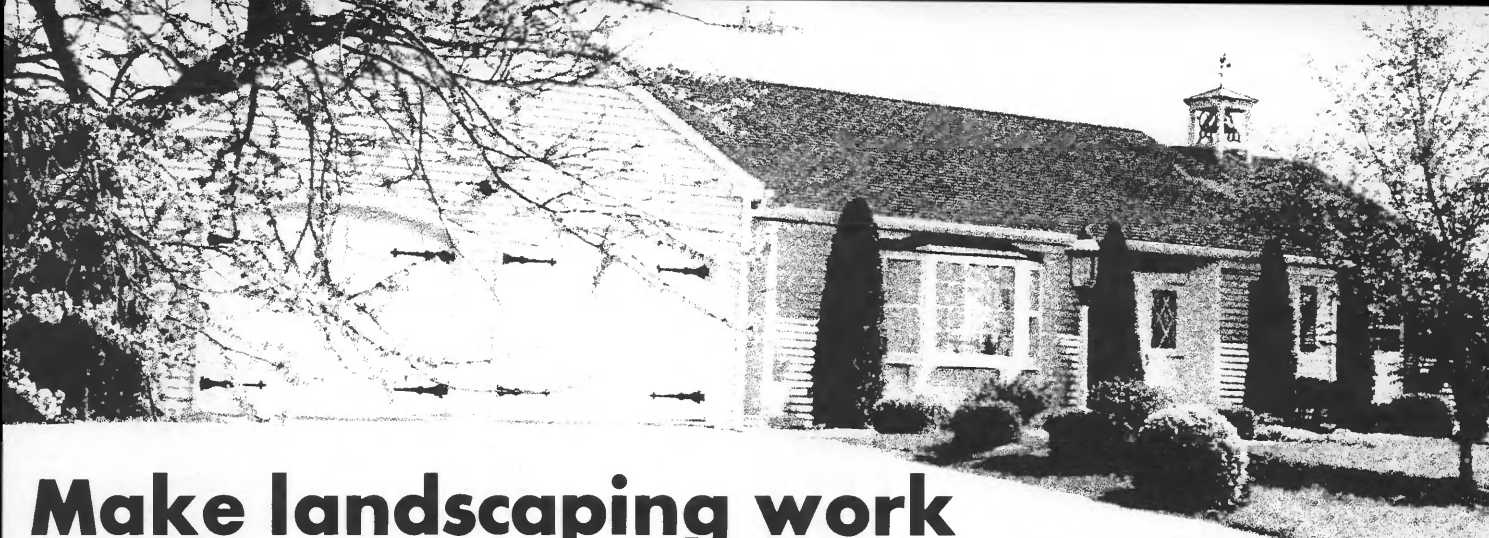
built about 1885, he adds. "After I left for the Army in 1946, my family moved out about 1950 while I was gone, and it was unoccupied after that."

The cabin was "only a mile and a half away, the way the crow flies," Ottwell says. "I first planned to move it in 1976. I would go down and look at it. Some people told me it was in too bad a shape to restore, but I decided to go ahead with it. Some of the logs were pretty badly rotted, but I reversed them, and didn't have to replace any," he goes on.

Ottwell and a friend who had a crane took the cabin apart in 1979, and moved the pieces to his home. He stored it until spring of 1980, then he, two sons, and a cousin put the cabin frame and logs up in about a week.

He has a special purpose for the cabin, Ottwell explains. He uses the cabin for his writing, which includes a book of poems, "Drink at the Fountain." The poems seem to draw energy from the old cabin. Ottwell has filled his book with poetic remembrances of country schools and churches, the drought of 1934, and his boyhood days in the log cabin.

The cabin has been adapted for today's uses. The floor is from an old school house; the original flooring is now sheeting in the loft, where Ottwell and his brother slept. Doors and windows are more modern additions, too, as is the wood stove. Ottwell says that furniture from the cabin was discarded or sold when his family moved into Pittsfield.



Make landscaping work

There are many ways to make your home more energy efficient — you can insulate it or put a lot of time and effort into caulking and weatherstripping, and both will help reduce your heating and cooling bills. What you do in your yard can help, too. One good way to help get control of your utility bills is through energy efficient landscaping.

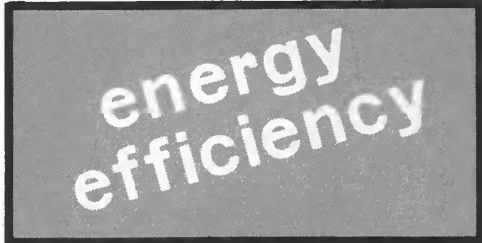
James D. Hayward, secretary of the Illinois State Nurserymen's Association, notes that the savings can be quite impressive. "People are often amazed at the difference properly placed landscaping materials can make in their cooling and heating costs," he notes.

Trees, shrubs, ground covers and vines can all help control the amount of solar radiation on your house and yard, and you will also enjoy the added value of a well-landscaped yard. Leaf surfaces on trees reflect some of the sun's heat back into the atmosphere, while additional amounts of the radiation are absorbed and converted to plant energy in the tree's growth process. Any tree will help, but deciduous trees — the ones that shed their leaves in the winter — are best for

summer shading, especially if they have good, full crowns.

Surprisingly, shade is not the only benefit trees offer. They transpire. A large tree will give off as much as 75 gallons of water a day, and will act as a giant evaporative cooler. Breezes flowing under it will pick up cool air. If the tree is correctly placed, that cool air can be directed into your home. Ideally, if you are thinking of planting a tree (or trees) to cool your house in the summer, you will plant one close enough to the house to provide some shade on the house itself. Do not worry if you cannot shade the entire roof. Studies have shown that shading just 20 percent of a roof will provide a worthwhile reduction in air conditioning costs.

A tree also needs to be fairly close to the house to give the full benefit of the evaporative cooling effect. If a summer breeze blows over a tree, some of its force goes under the tree, carrying the cool air with it. If the tree is near the house, the air cools it. When the tree is away from the house, warm air, flowing over the treetop, mixes with the cool draft from under the crown, and some value is lost.



While trees are useful in keeping houses cool, there are other things you can do, too, and they will not take several years to pay off. You can use berms or rows of shrubs to do a reasonably effective job of channeling airflow so breezes that would normally bypass your house will, instead, help with your cooling. A properly placed berm will also provide an early "sunset" by shading a wall in the final moments of daylight. The effectiveness is increased if a few short shrubs are planted on top of the bank.

You may want to use vines to provide some protection from the sun. Deciduous vines on trellises or wires along the walls can protect the south and east sides of your house from the sun's rays. By shading the walls they reduce surface temperatures and provide additional cooling through evaporation of moisture produced by the leaves. Be sure there is an air space between the wall and the foliage of the vine. This permits air circulation between the vine and wall, and protects the wall from damage resulting from humidity and moisture.

There are other things you can do to make your landscaping work for you to keep heating and cooling costs within reason, and next month we will discuss lawns and other ground cover, decks and other facets of the landscaping picture.

To: **A. I. E. C. Publications**
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GIVE YOU ARMFULS OF LUSCIOUS FRUIT IN JUST 90 DAYS!

It's one of the most incredible sights you've ever seen. Imagine! The amazing CLIMBING VINE PEACH . . . nature's own wonder plant that was first discovered in Asia . . . then test-grown at U.S. Dept. of Agriculture's Plant Research Station . . . and that this year will reward you with armfuls of the most unique and magnificent looking fruit starting in just 90 days!

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Yes! Dozens of luscious golden beauties from each and every plant! Each and every fruit the size of a ripe, juicy orange. Also—masses of golden flowers that adorn your fences, trellises, garden walls in a dazzling yellow cascade. And because it's a climber, it means that from just a square foot or two in your garden, per plant, you'll pick fruit week in, week out, July to frost.

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Now, the price of these wondrous CLIMBING VINE PEACHES is not the \$5 or \$10 apiece you might expect . . . but a mere \$2.00 for each to grow and bear fruit this summer. A mere \$2.00 apiece for magnificent, super growing climbing vine peaches that come to you direct from the nursery in their own growing pots . . . all set for you to simply plunk into the ground . . . and reward you with armfuls of luscious fruit. Because supplies of CLIMBING VINE PEACHES are extremely limited . . . this offer may not be repeated this year. The time to plant is almost upon us. You must act immediately!

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Beautiful climber for trellises, garden walls, fences. Gives fruit in approx. 90 days from planting.

FLOWERS & FOLIAGE: Bush green leaves, rich outpouring of dazzling yellow blooms.

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GENERAL CHARACTERISTICS

Truly a garden rarity not normally found in U.S. This plant, commonly called the Vine Peach should not be confused with the stone fruit peaches

Cucumis Meio var. chito



obtained from trees (*Prunus persica*). According to horticulturists it is in reality a variety of the melon family so unique you've never seen anything quite like it in all your life. Guaranteed to be the garden sensation of your neighborhood.



PLANT-PICK LUSCIOUS FRUITS LIKE THESE BY THIS JULY!

Yes, this sensational CLIMBING VINE PEACH grows so fast and bears fruit so quickly . . . that just 90 days after planting you'll actually start picking fruit by the armful . . . and keep on picking it all summer long! For full details on this amazing wonder-fruit read what the experts have to say about it . . . then take advantage of no-risk trial offer below.

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RED MAPLE (Acer Rubrum 4.5 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 practically grow anywhere in the U.S.A. Grows up to 60 feet.
1 Tree ... 1.50 10 Trees ... 12.50



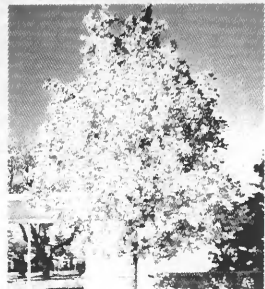
WHITE DOGWOOD (4.5 ft.)
Large, white, single blossoms are conspicuous early in spring. The foliage is attractive all summer, and the fall colors beautiful. Red berries hang on most of the winter. Use as a specimen or in groups as a background for borders. Grows up to 30 feet high.
1 tree ... 1.99 10 trees ... 17.50



TULIP TREE (4.5 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 ... 1.50 10 Trees ... 12.50



WHITE BIRCH (4.5 ft.)
Many people know this eye-catching native tree as White Birch or Cane Birch. The white bark and clear yellow leaves in fall provide showy colors. Height 60 feet, spread 30 feet.
1 Tree ... 1.75 ea. 10 Trees ... 15.00



SUGAR MAPLE (4.5 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 ... 1.50 10 Trees ... 12.50

FLOWERING SHRUBS — 1-2 Years Old

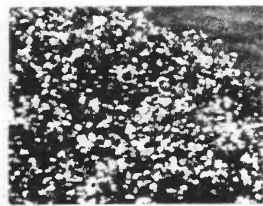
- Crepe Myrtle, Red, Pink, 1 ft.99 ea.
- Spirea Van Houttei, 1.2 ft. ... 1.25 ea.
- Weigela, Red, 1.2 ft.95 ea.
- Forsythia Yellow79 ea.
- Pink Spirea, 1.2 ft.79 ea.
- Bush Honeysuckle, Red, 1 ft.79 ea.
- Pussy Willow, 3.5 ft. ... 1.95 ea.
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- Sweet Shrub, 1.2 ft.79 ea.
- Pussy Willow, 1.2 ft.79 ea.
- Russian Olive, 1.2 ft.75 ea.
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- Jap. Snowball, 1.2 ft.95 ea.
- French Lilac, Red, 1.2 ft. ... 2.95 ea.
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BURNING BUSH
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20 for ... 14.50 50 for ... 28.00
In the fall leaves turn a brilliant mirror-bright crimson. A 4.5 ft. showpiece with unusual corky bark. Hardy in sun or partial shade.

FLOWERING TREES — 1-2 Years Old

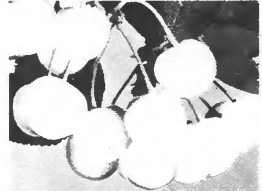
- Magnolia Grandiflora, ½ 1 ft. 1.45 ea.
- Mimosa, Pink, 4.5 ft. ... 1.75 ea.
- American Red Bud, 4.5 ft. ... 1.75 ea.
- Pink Flow. Dogwood, 2 ft. ... 6.95 ea.
- Bradford Flow. Pear, 2½ 4 ft. 6.95 ea.
- Golden Chain Tree, 3.4 ft. ... 2.95 ea.
- Golden Rain Tree, 3.4 ft. ... 2.95 ea.
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- Magnolia Soulangiana, 1.2 ft. 2.95 ea.
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- Red Flow. Dogwood, 2 ft. ... 6.95 ea.



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Popular perennial ground cover that beautifies problem slopes and banks. Needs no maintenance or mowing. Thrives in any climate, in sun or semishade. Winter hardy, it provides effective erosion control, actually improves soil.

SHADE TREES — 1-2 Years Old

- Green Ash, 4.5 ft. ... 1.95 ea.
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- Pin Oak, 3.5 ft. ... 2.95 ea.
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- Sweet Gum, 4.5 ft. ... 1.95 ea.
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- 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, Hate Haven, Dixie Red, Golden Jubilee, 1.2 ft. ... 1.45 ea.
2.3 ft. ... 1.98 ea. 3.5 ft. ... 2.98 ea.
- APPLES**, Varieties: Stayman Winesap, Red Delicious, Early Harvest, Red Rome Beauty, Red Jonathan, Lodi, Grimes Golden, Yellow Trans., Yellow Delicious, Early McIntosh, 2.3 ft. ... 2.25 ea. 3.5 ft. ... 2.98 ea.
- CHERRIES**, Varieties: Montmorency, Black Tartarian, 2½ 4 ft. ... 5.98 ea.
- PEARS**, Varieties: Kieffer, Orient, Bartlett 2.3 ft. ... 3.45 ea. 3.5 ft. ... 4.95 ea.
- APRICOTS**, Varieties: Moorpark, Early Golden, 2.3 ft. ... 2.45 ea. 3.5 ft. ... 3.45 ea.
- NECTARINE**, 2.3 ft. ... 2.45 ea. 3.5 ft. ... 3.45 ea.
- PLUMS**, Varieties: Damson, Red, June, Methley, Burbank, Santa Rosa, 2.3 ft. ... 1.98 ea. 3.5 ft. ... 2.98 ea.

DWARF FRUIT TREES — 2-3 Years Old

- DWARF PEACHES**, Varieties: Elberta, Red Haven, Belle of Ga., Golden Jubilee 2½ 4 ft. ... 2.98 ea.
- DWARF APPLES**, Varieties: Red Delicious, Yellow Delicious, Winesap, Jonathan, Early McIntosh, Lodi, Yellow Trans. 2½ 4 ft. ... 2.98 ea.
- DWARF CHERRIES**, Varieties: North Star or Montmorency 2½ 4 ft. ... 6.45 ea.
- DWARF PEAR**, Varieties: Bartlett, Kieffer 2½ 4 ft. ... 5.95 ea.
- DWARF PLUM**, Varieties: Burbank, 2½ 4 ft. ... 2.98 ea.



SEEDLESS GRAPES, Varieties: Concord (Blue), Lakemont (White), Suffolk (Red). These seedless grapes ripen in Sept. ½ 1 ft. ... 3.79 ea. 10 for ... 37.50

BERRY PLANTS, ETC. — 1-2 Years Old

- Blackberry, 1 ft.95 ea.
- Black Raspberry, 1 ft.95 ea.
- Red Everbearing Raspberry, 1 ft. 95 ea.
- Dewberry, 1 ft.95 ea.
- Boysenberry, 1 ft.95 ea.
- Gooseberry, 2 yr. 1 ft. ... 1.75 ea.
- Figs, 1.2 ft. ... 2.45 ea.



BLUEBERRIES — Weymouth, Earliblue, Blueray, Berkeley, Bluecrop, Rancocas, Rubel, Jersey.
1 ft. ... 2.98 ea. 10 for ... 29.50
During July and August, every bush is loaded with huge, grape-like clusters of sapphire blueberries. Need acid soil and plant very shallow.

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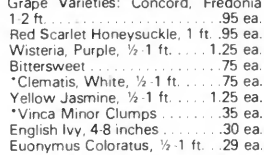
SPRING: Jan. 15 - May 1
FALL: October 1 - December 1
ALL OTHER STATES
SPRING: March 1 - May 1
FALL: Sept. 25 - Dec. 1

EVERGREENS — 1-2 Years Old

- *American Holly, ½ 1 ft. ... 65 ea.
- *Rhododendron, ½ 1 ft. ... 1.25 ea.
- Pfitzer Juniper, ½ 1 ft.95 ea.
- Boxwood, ½ 1 ft.79 ea.
- Red Berry Pyracantha, 1 ft. ... 1.25 ea.
- Burfordi Holly, ½ 1 ft.95 ea.
- Dwarf Burfordi Holly, ½ 1 ft.95 ea.
- Wax Leaf Ligustrum, ½ 1 ft. ... 45 ea.
- Colorado Blue Spruce, ½ 1 ft. 75 ea.
- *Mountain Laurel, ½ 1 ft. ... 75 ea.
- *Canadian Hemlock, 1.2 ft. ... 75 ea.
- Andora Juniper, ½ 1 ft. ... 95 ea.
- Jap. Yew, ½ 1 ft. ... 1.25 ea.
- Baker Arborvitae, ½ 1 ft. ... 95 ea.
- Globe Arborvitae, ½ 1 ft. ... 95 ea.
- Norway Spruce, ½ 1 ft. ... 75 ea.
- Euonymus Manhattan, ½ 1 ft. 39 ea.
- *White Pine, 1 ft. ... 75 ea.
- Blue Rug, 4.6 inches ... 1.45 ea.
- Golden Ligustrum, ½ 1 ft. ... 45 ea.
- Photinia Fraseri, ½ 1 ft. ... 95 ea.
- Foster Holly, ½ 1 ft. ... 1.25 ea.

VINES — 1-2 Years Old

- Grape Varieties: Concord, Fredonia 1.2 ft.95 ea.
- Red Scarlet Honeysuckle, 1 ft. 95 ea.
- Wisteria, Purple, ½ 1 ft. ... 1.25 ea.
- Bittersweet75 ea.
- *Clematis, White, ½ 1 ft. ... 1.25 ea.
- Yellow Jasmine, ½ 1 ft. ... 75 ea.
- *Vinca Minor Clumps35 ea.
- English Ivy, 4.8 inches30 ea.
- Euonymus Coloratus, ½ 1 ft.29 ea.



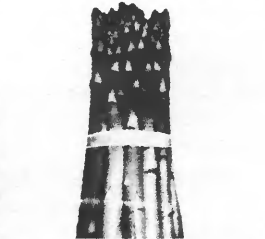
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Varieties: Red Delicious, Golden Nugget, Golden Delicious, Stayman Winesap, Grimes Golden, Jonathan, Lodi, Red Rome Beauty.

BERRIES, FRUITS & HEDGE — 1-2 Yrs. Old

- 10 Rhubarb, 1 yr. roots ... 1.95
- 25 Strawberry, Blakemore or Tenn. Beauty ... 2.95
- 25 Gem. Everbearing Strawberry 2.95
- 25 South Privet, 1.2 ft. ... 6.95
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- 10 Multiflora Rose, 1.2 ft. ... 4.98



Mary Washington Asparagus 1 yr. roots 20 for ... 1.75 100 for ... 8.00
It produces shoots of finest quality, and very uniform in size, shape and color. 50 to 100 roots supply an average family.

NUT TREES — 1-2 Years Old

- Hazel Nut, 2.3 ft. ... 2.95 ea.
- Butternut, 3.4 ft. ... 3.95 ea.
- Chinese Chestnut, 3.5 ft. ... 2.95 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.

Our plants are nursery grown from cuttings, seeds or budded stock unless otherwise stated. These have never been transplanted. Those marked with (*) Asterisks means these are collected from the wild state. Plants are inspected by the Tennessee Department of Agriculture. This gives you a chance to buy at lower prices. You may order as many or as few plants as you wish. Send \$2.00 extra with order for postage and packing. **RUSH YOUR ORDER TODAY! TWO-WAY GUARANTEE:** We ship live plants packed well to reach you in perfect condition. However, sometimes a package gets lost and stays in transit a long time. In this case, in the Fall and Winter when plants are dormant, you can scrape the bark and tell whether the plants are alive or not. If the bark is green, it is alive. We believe we have the best guarantee any mail order nursery could possibly offer. Here is our two-way guarantee. First guarantee — When you receive your order, if there are any plants in bad condition, you notify us immediately and we will replace absolutely FREE. Second guarantee — The reason we make this strong guarantee is because there is no reason any of the plants should die. However, if any fail to live within 12 months from the date of delivery, we will replace for one-half of the original purchase price, plus \$1.00 for postage and handling. No return of dead plants necessary. We guarantee our plants to be true to name and color. Anything that proves to be wrong color or variety, we will replace free.

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I made this remarkable discovery when my son went on his first fishing trip with me. We hired this old Indian guide in a small town in Wisconsin.

When our guide showed Mark how to bait his hook, I noticed that he rubbed something on the bait just before Mark put the line in the lake. Within minutes Mark had himself a beautiful bass. You can imagine how pleased I was and Mark, of course, wanted more.

So the whole thing was repeated—the guide put on the bait, rubbed it again, and up popped another beauty. Meanwhile, I sat there patiently waiting for my first fish.

This went on all morning. Mark caught 30 bass and I got eight.

When I pulled the boat in at noon and paid off our Indian guide, I noticed that a small, unusual seed had apparently fallen from the guide's pocket into the bottom of our boat. The odor from the seed was quite strong and certainly different from anything I had ever smelled before. This was what he had rubbed on Mark's bait!



It works for me—
wouldn't be without it.
D. Hulbutt, Duluth

When we returned home the next day, I gave the seed to a chemist friend of mine. He analyzed it and duplicated it into a spray for me.

I could hardly wait for my next fishing trip. What I discovered on that trip was absolutely unbelievable. I have never before caught fish like that. Every time I baited my hook. I sprayed it and up popped another fish.

I tested some more. I put spray on one bait and nothing on another. The sprayed bait got the fish almost immediately. The unsprayed bait got some nibbles, but nothing more.

I gave some of my friends samples of the spray to try and the results were the same—they caught fish like never before.

I named my spray "CATCH FISH LIKE CRAZY" cause that's just what it does and it works with all kinds of fresh or salt water fish. It works equally well on artificial or live bait.

Here's what fishermen say about my spray:
"What you say is true. I caught fish like crazy—it really works!" K.S. Evansville, Ind.

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"I always keep a can in my tackle box. It's fantastic!" K.V. Highland Park, Ill.

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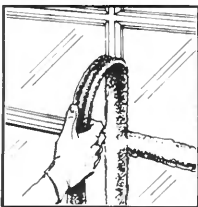
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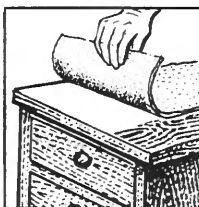
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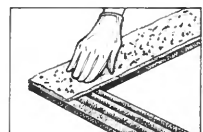
SAVES WORK, SAVES TIME, SAVES MONEY . . . MAKES TAKING OFF PAINT EVEN EASIER THAN PUTTING IT ON!

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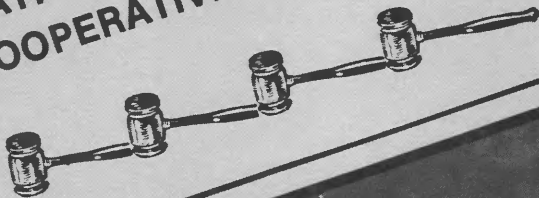
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Div. Brand Name Testing, Inc.

41st Annual Meeting

NATIONAL RURAL ELECTRIC
COOPERATIVE ASSOCIATION





including Eugene Dressler (center) of El Paso, and John Tompkins (right) of LeRoy, both directors of Corn Belt Electric Cooperative. Bottom row of photos, from left: Robert D. Partridge, NRECA general manager, is presented the Cooperative Career Award of the National Planning Committee for Co-op Month by Shanti Fry of the National Consumer Cooperative Bank. Donald B. Bringman (left), general manager of Western Illinois Power Cooperative, Jacksonville, talks with Kenneth Marlow of Huntsville, WIPCO board president. Stanley Greathouse (left) of Johnsonville greets three directors of Illini Electric Cooperative, from left, L. Dean Ward of Champaign, Robert Clark of Atwood, and Wilbur Gady of Sadorus; Greathouse was a participant in a panel on management-board relations. Among special guests during an Illinois delegation breakfast was Frank Bennett, director of the North Central Area for the Rural Electrification Administration; Thomas H. Moore, general manager of the Association of Illinois Electric Cooperatives, looks on.

Activities during the annual meeting of the National Rural Electric Cooperative Association are designed to provide a large variety of informational and educational benefits for electric cooperative directors, managers and employees. Attracting a great deal of attention during the meeting is the exhibit hall, in which well over a hundred booths and exhibits of equipment, supplies and information are available. Among the busiest is that of the National Food and Energy Council (top photo), an organization dedicated to wise energy management and efficient energy use practices on farms. Ken McFate, executive manager, and Jan Frank, associate manager, talk to three cooperative directors,

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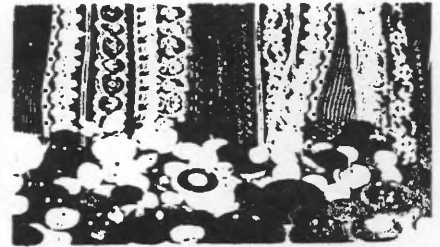
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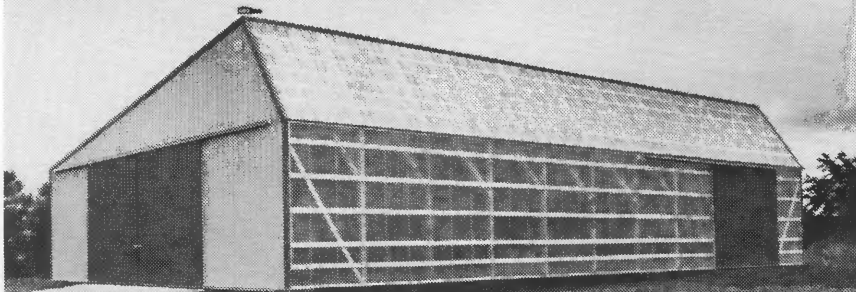


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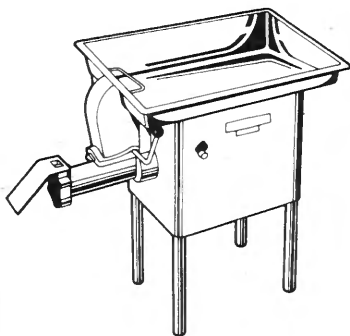
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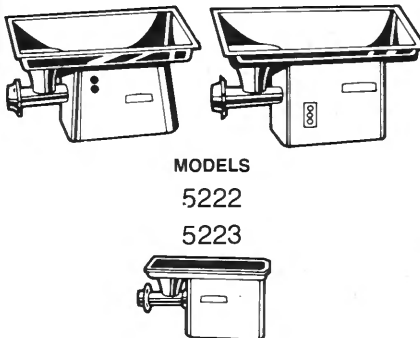
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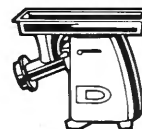


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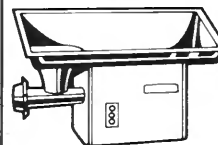
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TOLEDO SCALE 
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Step-saving suggestions for spring



Lunch or brunch, this carrot pie is a taste treat.

HASH BROWN POTATO CASSEROLE

- | | |
|--|-----------------------------|
| 1 (32-oz.) pkg. shredded frozen potatoes | 1 small onion, chopped |
| 1/2 cup melted butter | 1 teaspoon salt |
| 1 can cream of chicken soup, undiluted | 1 (8 oz.) carton sour cream |
| | 2 cups crushed cornflakes |
| | 1/2 cup melted butter |

12 ozs. grated American cheese

Place thawed potatoes in a 9" x 13" baking dish. Mix together next 6 ingredients and pour over potatoes. Top with crushed cornflakes and drizzle melted butter over all. Bake uncovered at 350 degrees for 45 minutes.

RICE DRESSING

- | | |
|------------------------------|----------------------------------|
| 2 sticks oleo | 2 cans beef consomme soup |
| 1 green pepper, diced | 1 (4 oz.) can mushrooms, drained |
| 1 onion, chopped | 1 teaspoon dehydrated parsley |
| 1/2 cup diced celery | 1 can water chestnuts |
| 1/4 teaspoon salt | 1 cup uncooked rice |
| 1 teaspoon Italian seasoning | |

Melt oleo and add chopped vegetables. Cook 10 minutes, add seasonings and soup, pour over the uncooked rice in an 8" x 12" baking dish. Bake uncovered at 350 degrees for 1 hour.

STIR-FRY CHICKEN

Have all ingredients ready before starting to cook.

- | | |
|--|----------------------------------|
| 1 cup chicken pieces, cut to bite size, uncooked | 1/2 pkg. sliced almonds |
| 2 ribs of celery, chopped | 1/3 cup water |
| 5 green onions and tops | 2 tablespoons cornstarch |
| 2 tablespoons chopped green pepper | 1 tablespoon Tamari or Soy sauce |
| 1 can green peas | 1/2 teaspoon salt |

Method: Heat 2 tablespoons oil in wok or heavy skillet till hot. Add the chicken pieces and stir till they are white all over, push to one side and add the chopped vegetables, stir till beginning to wilt or done as you wish. Add the green peas and stir all together, add almonds and get hot through. Last add the sauce and stir till thick. Serve over rice or alone. Serves 3. This takes a total of 10-12 minutes to cook.

EGGPLANT CASSEROLE

- | | |
|----------------------------|-----------------------|
| 1 large eggplant | 2 tablespoons butter |
| 2 cups cornbread, crumbled | 2 eggs, beaten |
| 2 cups tomatoes | 1/2 teaspoon salt |
| 1/2 cup chopped onion | 1/2 cup sweet milk |
| 1 small jar pimento (opt.) | 1/2 cup grated cheese |

Peel the eggplant and cut into small pieces. Cook it in salted water till done. Drain and mash, add the next 9 ingredients. Bake in 9" x 13" baking dish uncovered at 350 degrees for 40 minutes.

CORNELIA'S FRUIT SALAD

- | | |
|-------------------------|----------------------------------|
| 1 can peach pie filling | 1 can pineapple chunks, drained |
| 2 bananas | 1 small pkg. frozen strawberries |

Mix all together.

CHICKEN CASSEROLE

- | | |
|-------------------------------------|---------------------------------------|
| 4 cooked chicken breasts | 12 corn tortillas (cut in bite sizes) |
| 1 lb. grated cheddar cheese (sharp) | 1 can green chiles |
| 1 can cream of chicken soup | 1 cup sour cream |
| 1/2 cup milk | 1/2 cup chopped onions |

Mix soup, milk, chiles, sour cream and onions. In casserole place layer of tortillas, chicken and cheese. Pour the milk mixture over this. Bake 1 hour at 350 degrees.

ITALIAN RICE

- | | |
|--------------------------------|--------------------------------|
| 1 large green pepper (chopped) | 3/4 teaspoon salt |
| 1 onion (chopped) | 1/4 teaspoon pepper |
| 1/2 cup celery (chopped) | 1/2 teaspoon Italian seasoning |
| Saute in 3/4 stick oleo | 4 oz. can mushrooms (chopped) |
| 1 teaspoon parsley | |

Pour into 2 qt. casserole and add 1 cup uncooked rice and 2 cups beef consomme. Cover and bake for one hour at 350 degrees.

BEEF STROGANOFF

- | | |
|-------------------------------|-----------------------------------|
| 1 lb. round steak, cubed 3/4" | 1 can condensed tomato soup |
| 1 clove minced garlic | 1 tablespoon Worcestershire sauce |
| 1/2 cup chopped onion | 6-8 drops of Tabasco sauce |
| 1 cup mushrooms, drained | salt and pepper to taste |
| 1 cup sour cream | |

Roll cubed steak in flour and brown in 2 tablespoons fat. Add garlic, onion, and mushrooms to browned meat. Combine sour cream, tomato soup, mushroom liquid, Worcestershire sauce, Tabasco sauce, salt and pepper. Simmer until tender, approximately 1 hour. Serve hot over cooked rice or spaghetti.

IMPOSSIBLE CARROT PIE

- | | |
|---------------------------------|------------------------------|
| 1 cup finely grated carrots | 1 1/2 cups milk |
| 3/4 cup uncooked instant rice | 3/4 cup Bisquick® baking mix |
| 2/3 cup shredded Cheddar cheese | 3 eggs |
| 1/4 cup chopped onion | 1/2 teaspoon salt |
| 1/2 teaspoon dried basil leaves | 1/4 teaspoon pepper |

Heat oven to 400 degrees. Grease pie plate. Mix carrots, rice, cheese, onion and basil; spread in plate. Beat ingredients until smooth, 15 seconds in blender on high or 1 minute with hand beater. Pour into plate. Bake until knife inserted between center and edge comes out clean, 30 to 35 minutes. Cool 5 minutes.

SUPER CHICKEN RICE SALAD

- | | |
|------------------------------|----------------------------------|
| 3 cups cooked rice | 1 cup chopped celery |
| 2 cups cooked chicken, diced | 1 cup cooked green peas, drained |
| 5 hard boiled eggs, diced | 2 tablespoons diced pimientos |
| 1/2 cup minced onions | 1/2 cup mayonnaise |

Combine all ingredients, season to taste, and toss lightly. Turn into a 9-inch ring mold and press down. Chill. Turn out on serving plate. Fill center of rice ring with small bowl of pickled beets or other pickled vegetables if desired. Makes 8 to 10 servings.

SALMON TREATS

- | | |
|-------------------------------|----------------------------------|
| canned salmon or tuna, 14 oz. | 1/2 cup flour |
| 1 egg | 1 heaping teaspoon baking powder |
| 2 tablespoons grated onion | |

Drain salmon or tuna liquid into a measuring cup. Put fish into mixing bowl and flake. Add egg and onion and mix well with a fork. Add flour and mix again. This will be thick. Add pepper but no salt. Use 1/4 cup of the liquid and add the heaping teaspoon of baking powder to liquid. Beat with a fork until it foams up about the 3/4-cup mark. Pour this into the mixture and mix well. It should now be thin. Using two teaspoons scoop the mixture into deep fryer of hot oil. Different shapes will form and will float on top of oil. Only takes a few seconds to cook so do not overcook. These have to be cooked within 15 minutes after baking powder is added. Serve with a hot cream sauce, mushroom sauce is good, or with a dip such as barbecue sauce or chili sauce. Can be served cold also.

MONKEY BREAD

- | | |
|-----------------------------------|-------------------------------------|
| 2 pkgs. yeast | 1 1/2 teaspoons salt |
| 2 cups warm water | 7 cups sifted all-purpose flour |
| 3/4 cup melted shortening or oleo | 2 eggs |
| 3/4 cup sugar | 2 sticks oleo (use to dip dough in) |

Dissolve yeast in 2 cups warm water. Add sugar, salt, eggs, shortening and 3 1/2 cups flour. Beat real well. Gradually add the remaining flour, knead for 10 minutes. Divide dough and roll 1/4-inch thick on lightly floured surface and cut like dumplings. Dip each piece in melted oleo and drop into bundt pan helper skelter. Let rise until double in bulk. Bake at 350 degrees for 30 to 40 minutes. Turn out on plate and serve hot. No need to slice, just pull apart. Remaining dough can be refrigerated or frozen for later use. Any good yeast dough can be used. Makes 2 pans.

I'VE MADE A MILLION—DEVIL'S FOOD CAKE

- | | |
|-------------------|------------------|
| 1/2 cup cocoa | 2 cups sugar |
| 1/2 cup hot water | 2 eggs |
| 2 teaspoons soda | 1 cup buttermilk |
| 1 cup butter | 2 3/4 cups flour |

Mix cocoa, hot water and soda and let stand 30 minutes before mixing in cake. Cream butter and sugar, and eggs, beat well. Add cocoa mixture. Add the buttermilk and flour alternately while continuing to beat. Makes 3 layers. Bake at 350 degrees till it pulps away from sides of pan. Frosting: 1 box of powdered sugar, 4 tablespoons butter, 4 tablespoons cocoa, 4 tablespoons cold coffee. Beat till thick. Spread onto cooled layers.

CONGEALED APRICOT DESSERT SALAD

6-oz. pkg. apricot gelatin or 2 small (3 oz. each) pkgs.
2 cups boiling water
2 cups cold water

Drain pineapple, reserving 1/2 cup juice. Dissolve gelatin in the boiling water. Add marshmallows, pineapple and bananas. Pour into a large flat pan and refrigerate until firm, stirring occasionally to distribute the solids. Prepare the following to spread on top:

1 egg
1/2 cup sugar
1/2 tablespoon flour, optional
2 tablespoons butter

1 cup miniature marshmallows
1 large can crushed pineapple
2 large bananas, peeled and sliced

1/2 cup juice from drained pineapple
3 oz. cream cheese
1 pkg. Dream Whip
chopped nuts

Beat eggs in saucepan. Stir in sugar, flour (if used), butter and pineapple juice. Cook over moderate heat until thickened. Blend in cream cheese. Cool completely. Prepare Dream Whip according to package directions and fold into cooled topping. Spread over congealed gelatin. Sprinkle with nuts. Variations: Increase marshmallows to 2 1/2 cups, bananas to 4 or 5 and add 1 cup chopped pecans to the base. Increase butter and flour to 3 tablespoons and omit Dream Whip in the topping.

HOT CHICKEN SALAD

2 cups cooked chicken, cubed (about 3 chicken breasts)
2 cups celery
1/2 cup toasted almonds, slivered
1/2 teaspoon salt

1/2 teaspoon Accent
2 teaspoons lemon juice
1 cup mayonnaise or salad dressing
1/2 cup grated cheese
1/2 cup potato chips, crunched

Toss first seven ingredients. Place in ungreased 9x12 baking dish. Top with cheese. Bake 10 minutes at 425 degrees. Top with potato chips and bake another 5 minutes.

PINWHEEL-STYLE STUFFED CELERY

Wash and dry celery. Stuff celery with pimento cheese or favorite stuffing. Press stalks together overlapping as celery grows. Wrap in waxed paper and secure with rubber bands. Chill for several hours. Slice crosswise in 1/2-inch pieces with sharp knife.

WHIPPED CREAM SALAD

1 pkg. raspberry jello
1/2 cup cheese, grated
1/2 cup nuts
1/2 cup pimento

2/3 cup celery, chopped
1 No. 2 can crushed pineapple
1/2 pint cream, whipped

Drain pineapple and heat juice. Dissolve jello in juice. Chill until thick. Fold in whipped cream; then stir in remaining ingredients. Chill until firm.

COFFEE CAKE

1 pkg. plain yellow cake mix
1 pkg. instant vanilla pudding
2/3 cup oil
2/3 cup water
1 teaspoon vanilla

1 teaspoon butter flavoring
4 eggs
1/2 cup sugar
2 teaspoons cinnamon
1/2 cup black walnuts

Blend first six ingredients. Add 1 egg at a time until eggs are mixed in. Continue to beat for 2 minutes at medium speed. Combine sugar, cinnamon and walnuts. Layer first mixture in pan and top with second mixture. Bake at 350 degrees for 35 minutes.

Icing:

1 cup powdered sugar
2 tablespoons milk

1/2 teaspoon vanilla
1/2 teaspoon butter flavoring

Combine all ingredients. Pour over cake while still warm.

FRUIT COCKTAIL CAKE

2 eggs
1 1/2 cups sugar
1 teaspoon soda
2 cups flour

2 cups fruit cocktail (do not drain)
1/2 cup brown sugar
1/2 cup nuts

Mix together eggs, sugar, soda, fruit cocktail and flour. Pour into ungreased pan. Sprinkle with brown sugar and nuts. Bake at 325 degrees for 30 to 35 minutes.

Icing:

1 stick oleo
3/4 cup sugar
1 small can evaporated milk

1 teaspoon vanilla
1/2 cup nuts
1/2 cup coconut

Melt oleo and add sugar and milk. Boil 2 minutes and add vanilla. Punch holes in top of warm cake and pour icing over. Sprinkle with nuts and coconut.

BANANA NUT CAKE

2 cups flour
1 2/3 cups sugar
1 1/4 teaspoons salt
3/4 teaspoon baking powder
2/3 cup shortening

2/3 cup buttermilk
3 eggs
1 1/4 cups bananas (about 3)
2/3 cup nuts
1/4 teaspoon soda

Mix all ingredients well. Bake in 3 round greased and floured pans at 350 degrees for 35-40 minutes.

Frosting:

1/4 lb. soft margarine
1 box powdered sugar

1/4 cup milk

Mix well. Ice cake in layers.

STRAWBERRY DESSERT

1 2/3 cups crushed pretzels
2 tablespoons sugar
1 stick melted oleo
1 (8 oz.) pkg. cream cheese
2 cups cool whip

1 cup sugar
2 pkgs. strawberry Jello
2 cups boiling water
2 pkgs. frozen strawberries (8 oz.)

Combine pretzels, sugar and oleo and press into 9x13-inch baking dish. Bake at 350 degrees for 10 minutes. Let cool. Beat cream cheese and 1 cup sugar. Fold in cool whip. Spread over crust. Chill 4 hours. Dissolve Jello in boiling water. Add frozen strawberries. Stir to break strawberries apart and keep stirring until mixture starts to jell. Pour over cream cheese mixture. Chill til set.

MARIAN'S TREATS

2 cups grated sharp cheese
2 sticks butter
1/2 teaspoon salt

2 cups flour
2 cups rice krispies

Mix well the cheese, butter and salt. Add flour, mixing well. Then add rice krispies. Mix and shape into small balls. Place on cookie sheet and mash flat with a fork. Bake at 350 degrees for 10-15 minutes.

OLD FAITHFUL PIE CRUST

1 cup flour (plain)
1/2 cup shortening

1/2 teaspoon salt
1/4 cup water

Mix flour, shortening and salt. Add water. Mix and roll out for 1 pie. This is easy to remember because you half each ingredient.

PINEAPPLE COCONUT PIE

2 cups sugar
1 1/2 tablespoons corn meal
1 1/2 tablespoons flour (plain)
4 eggs, beaten

1 small can crushed pineapple
1 can angel flake coconut
1 stick melted oleo
1 teaspoon vanilla

Mix flour, corn meal and sugar together. Add to beaten eggs, then add pineapple, coconut, oleo and vanilla. Mix well. Pour into unbaked pie crust. Bake one hour at 300 degrees. Makes 1 large pie.

CHOCOLATE PIE

1/3 cup sifted flour
1 cup sugar
1/4 teaspoon salt
2 cups milk, scalded

3 slightly beaten egg yolks
2 tablespoons butter
2 1/2 level tablespoons cocoa

Mix flour, sugar, salt and cocoa, gradually adding milk. Cook over moderate heat, stirring constantly until mixture thickens and boils. Cook 2 minutes; remove from heat. Add small amount to egg yolks; stir into remaining hot mixture; cook 1 minute, stirring constantly. Add butter, vanilla and cook slightly. Pour into baked pie shell. Top with meringue made of egg whites and sugar. Bake in moderate oven (350 degrees) for 12 to 15 minutes or until brown. (This is a basic cream pie recipe. You can leave out the cocoa and add 1 cup coconut for a coconut pie, or add 1/2 cup creamy peanut butter for a peanut butter pie.)

PIE CRUST

2 1/2 cups regular flour
1 cup shortening
1 teaspoon salt

1 egg
1 teaspoon vinegar
5 tablespoons cold water

Sift the flour and salt together. Cut in shortening until the size of peas. Mix egg, vinegar and cold water together, beating slightly. Add this to the flour mixture. This makes crust for 2 pies. (If only one is needed, roll the remaining pastry up in a ball in waxed paper and refrigerate.) Very good and flaky!

OIL CRUST

1 1/2 cups flour
1 1/2 teaspoons sugar
1 teaspoon salt

1/2 cup oil
2 tablespoons milk

Beat oil and milk with fork. Mix with dry ingredients. Press out into pie pan and bake as you would any other pie crust. This is very good for cream pies or quiche. It's also good for people who cannot roll out crust.

ONE GALLON OF ICE CREAM

1 quart milk
1 pint half and half
4 eggs
2 cups sugar

8 tablespoons flour
Pinch of salt
1 large can evaporated milk
Scant teaspoon vanilla

Heat milk in large pan until hot. Separate eggs, beat yolks and add sugar, salt and flour. Add half cup warm milk and mix well. Pour into pan of hot milk and mix. Heat slowly until coats spoon. Do not boil. Set aside. Beat egg whites until stiff. Add half and half and evaporated milk. Mix with other mixture and add vanilla. Use 8 parts ice to 1 part salt in freezer.

POPCORN CANDY CRISP

1 cup sugar
2 teaspoons butter
1/2 cup molasses
1/2 cup water

1/2 tablespoon vinegar
1/2 teaspoon baking soda
2 quarts popped corn

Dissolve butter, sugar and molasses in water, add vinegar and boil to 270 degrees or when it cracks when tried in cold water. Remove from fire and add baking soda. Stir and pour quickly over popcorn which has been placed in a very large sauce pan, stirring until every kernel is coated.

BEST BUTTERMILK ROLLS

2 cups buttermilk
2 pkgs. active dry yeast
1/2 cup sugar
1 teaspoon salt

1/2 cup cooking oil
2 teaspoons baking powder
1/2 teaspoon soda
5 cups flour

Heat buttermilk to lukewarm; take out 1/2 cup and add the yeast to this. Mix sugar, salt, baking powder, oil and remainder of buttermilk in bowl. Add yeast mixture, soda and flour, mixing well. Place on floured board and knead. (Do not knead very much.) Roll out and shape as desired; allow 2 hours for rising. Bake at 425 degrees until rolls are golden brown.

NOTE: This mixture is good for cinnamon rolls. Divide in 4 equal parts. Cover with butter, add sugar and cinnamon mixture. Roll out and cut, let rise and bake at 425 degrees until golden brown. Ice with powdered sugar icing to which cinnamon has been added. Ice while still warm.

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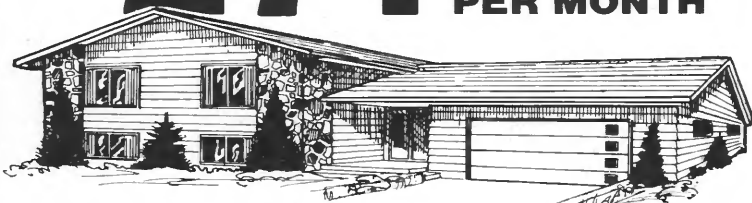
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PIK called

The Payment in Kind (PIK) program is a progressive step toward helping solve farm economy problems, according to Harold Dodd, president of the Illinois Farmers Union.

Speaking during the 29th Annual Meeting of the IFU in Springfield in February, Dodd said, "I think the program has the potential to take a lot of acreage out of production and improve prices while getting rid of crop carry-overs and the burdensome supplies on hand."

In regard to another attempt to raise farm prices, Dodd noted, "The President did sign the Sanctity Bill which, for all practical purposes, will guarantee our exporters that we will deliver on a contract. Nothing short of war will prevent us from fulfilling our contracts. I believe this will go a long ways towards starting us on the road to recovery and once again becoming a reliable product source to our importing nations," the IFU president said.

On the other side of the coin, Dodd said, the Administration has done little else for agriculture. "I just learned of the Administration's attempt to cut the Soil Conservation Service's budget by \$50-million, and I believe it's



Far left: Illinois Agriculture Director Larry Werries looks on as Governor James Thompson talks to the meeting participants. Center: Harold Dodd, president of the Illinois Farmers Union. Above: U.S. Representative Dick Durbin (left) visits with some who attended the meeting.

prices will reduce production is badly mistaken."

Governor James Thompson spoke to the group, boosting his income tax increase proposal. "We've cut and trimmed and now there's nowhere to cut and trim any more," he said, "and we're going to have to raise taxes if we're going to keep up the level of services we have, and if we're going to repair our crumbling roads and highways." He added that all the adjacent states had already boosted their taxes, and that even with his proposed hike, Illinois' taxes would still be among the lowest in the Midwest. "And many others are about to have increases again," he said.

U.S. Senator Charles Percy spoke on the importance of improving American agriculture's position in the export market to keep farm prices up, and criticized past embargoes for giving the country the image of an unreliable supplier. He added that he believes the worst of the recession is over.

Also appearing were Senator Vince Demuzio, Illinois Attorney General Neil Hartigan, Senator John Davidson, Representative Mike Curran and Representative Larry R. Stuffle. Larry Werries, Director, Illinois Department of Agriculture and U.S. Representative Dick Durbin also spoke.

progressive step' for farmers

totally out of line to take that much money from the agency charged with meeting one of our most pressing problems," he said.

Another problem facing agriculture, he went on, is the migration of farmers away from their farms. "Statistics show that we're losing about 1,200 farm families a year, and they're not leaving because they want to. They're being forced off because they do not have an economically viable unit. The price of their commodities has not begun to keep pace with the cost inputs in the farming operation. The only way to keep them on the farm — and keep agriculture out of the hands of a few big firms, is to get farm income up to where it belongs."

George W. Stone, president of the National Farmers Union, echoed Dodd's enthusiasm for the PIK Program, but cautioned that it should not be thought of as a "one-shot deal."

"Unless the new program is followed by a workable farm stabilization program," he warned, "we'll be right back where we started."

He advocated development of an effective program utilizing acreage reduction and farmer-held reserves to

enable farmers to tailor their output to what the market will take at a reasonable price.

"There are those who will tell you that low farm prices are the way to reduce production, but that's just not true," he said, adding, "Farmers will plant to the fencerows when prices are low, in the hopes that they can survive on volume. Anybody who says low

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Sunshine warms the concrete floor of the heavily glazed south wall of the envelope home Bob Pettit has built near Geneseo. Slots on floor and ceiling permit circulation of warm air over and under the living area, while the floor stores some heat to keep the home snug after sunset.

'House within a house'

A home built by a Geneseo area builder and real estate developer uses a unique concept in an effort to save energy. It is an "envelope home" that builder Bob Pettit, a member of Farmers Mutual Electric Company, sees as a building technique that will save on heating and cooling bills.

Essentially, an envelope home is designed as a "house within a house," which helps cut energy consumption dramatically. The design also takes advantage of solar heat gain to warm the house, with large expanses of triple-glazed windows on the south side. The windows, which heat a small sun room in the winter, are shaded from the summer sun by the eaves.

Air warmed in the anteroom is circulated by natural convection, rising upward over the ceiling, where it cools slightly and migrates downward over the back of the living space, between two walls, and into the basement. From there, it rises through a slotted floor in the anteroom, to be warmed by the sun-heated windows and the heat-sink concrete floor.

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"An advantage of this system,"

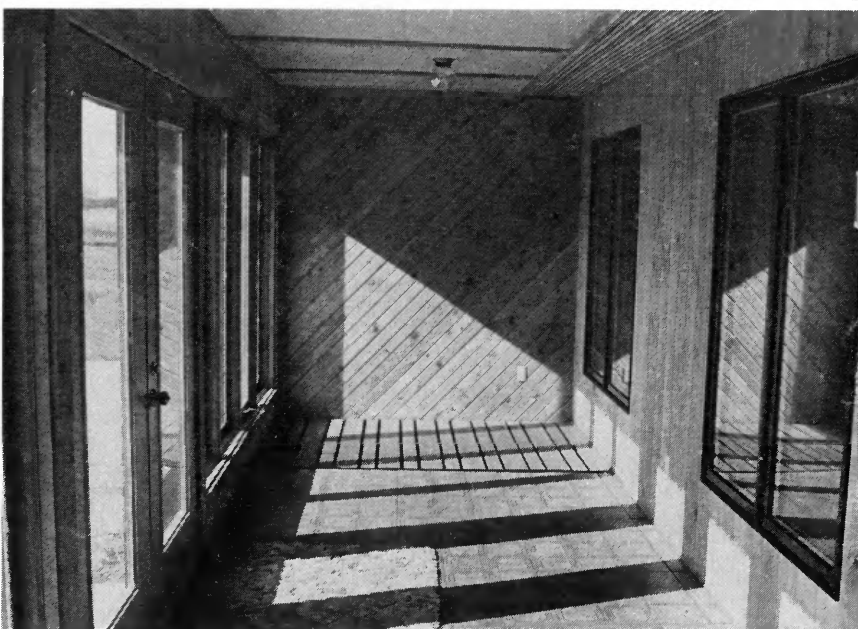
Pettit emphasizes, "is that the outer wall is exposed to subzero weather and heavy wind infiltration, while the inner wall is not. The area between the walls gets down to about 40 degrees in the winter, and that's not too difficult to deal with."

The house makes extensive use of styrofoam and mineral wool insulation, and particular attention has been given to keeping air infiltration to a minimum.

While the house is fairly large, with 3,000 square feet of living space, Pettit notes that the envelope principle will

work every bit as well with smaller designs, and the cost is not as high as you might think.

"A large part of the price of a house goes into the finish work," he points out, "and these walls — and the space between them — do not need to be painted or trimmed. And the use of smaller air conditioners and furnaces would cut the initial cost, while the savings on heating and cooling would help offset the cost of buying such a home. I think the envelope home will play a big part in future home construction in this area."



Heavy insulation and lots of south-facing glass are the keynote features of envelope homes, along with careful attention to possible sources of air infiltration.

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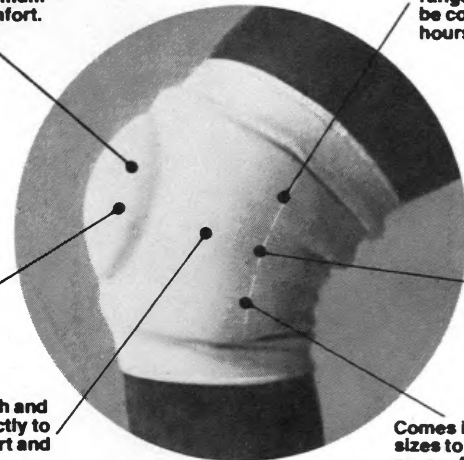
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Grain conditioning



The Champaign meeting drew about 200 persons.

If any one thing set the 1983 Grain Conditioning Conference apart from previous ones, it would have to be the interest in microprocessors and computers to tend entire bins of grain from harvest to sale.

While many grain handling and storage operations have been mechanized, and fans and heaters connected to timers or other mechanical devices, grain conditioning has so far resisted serious efforts at computer orchestration.

Until now, farmers have found it necessary to keep close watch on their bins, occasionally climbing inside and probing for samples to check for moisture content, broken matter and, perhaps, mold or insect infestation. According to speakers at this year's meeting in Champaign, that is about to change. Some 200 farmers, equipment manufacturers, dealers and educators heard some speakers discuss conven-

tional techniques and others who suggested the industry is on the verge of a whole new technology.

Gleelynn Persson of Trimont, Minnesota, told of new technology his company has on the market that will enable farmers to fill grain bins, type in some keyboard data, and walk away safe in the assurance that their grain will be in good condition when they take it to market.

"Digigrain is an electronic microprocessor-based, programmable control dedicated to in-bin grain management. Although it was designed for multiple uses, its intended use is to reduce drying cost by saving energy, to be an aid in natural air grain drying and to help manage grain in storage," Persson said.

When the company set out to design their system, they took several factors into account, Persson said. The control had to be cost effective and

reasonably priced, and versatile enough to manage more than one bin. Radio signals, power outages and electrical line noise were considered, too, as well as the harsh conditions of the farm environment. They also placed considerable emphasis on ease of operation and overall reliability, he added.

Down-to-earth grain management, while not as exciting as what the future may hold, may be the way some farmers will want to go, if only to substitute labor for scarce capital, and several speakers addressed that topic. Michigan State agricultural engineer Gary Van Ee outlined a low-temperature program he developed to enable farmers to dry grain in their bins as they harvest. The plan, developed in collaboration with USDA agricultural engineer Gerald Kline, hinges on the use of bins no more than 20 feet deep, and involves filling in layers on a carefully planned timetable

and the computer



Gene Shove of the University of Illinois staff

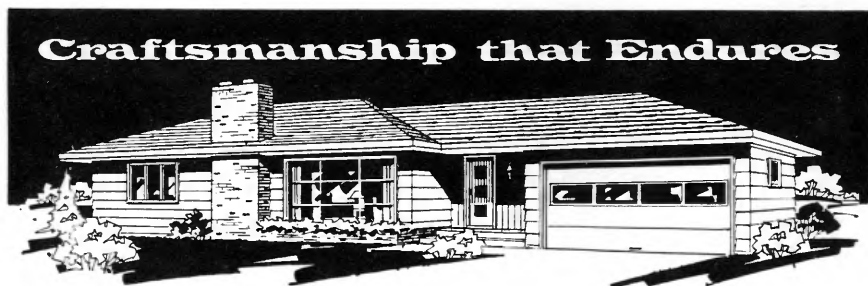
that prevents spoilage even if drying weather goes bad after the bins are filled.

And most speakers whether discussing the fill-and-watch method or the new computer technology, urged farmers to make sure their grain is clean before it goes into the bin, because "fines," or broken material, restrict the flow of air through the grain and are also more susceptible to spoilage.

No matter how grain is dried and stored, the process takes a lot of electricity, and farmers often are able to save money by scheduling their heavy electricity usage during "off-peak" hours, when the load on their power

supplier's system is light, and two speakers discussed the use of off-peak electricity. Carl D. Dufner, director of the Energy, Environment and Engineering Department of the Association of Illinois Electric Cooperatives, shared the podium with Gordon D. Spainhower, who represented Illinois Power Company.

William H. Peterson, University of Illinois agricultural engineer, spoke on the possibility of using inexpensive, mostly homemade, solar collectors to add a slight boost to air temperature to dry grain. He also emphasized that shallow large-diameter bins are better than deep ones because air flow is restricted by deeper grain.



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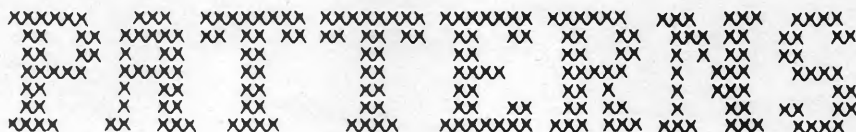
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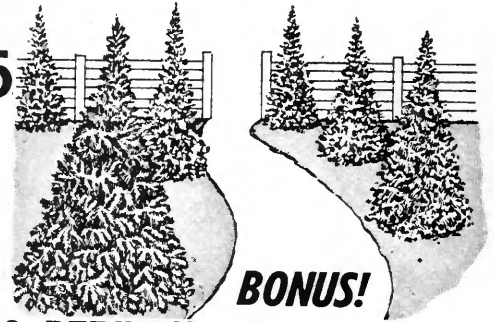
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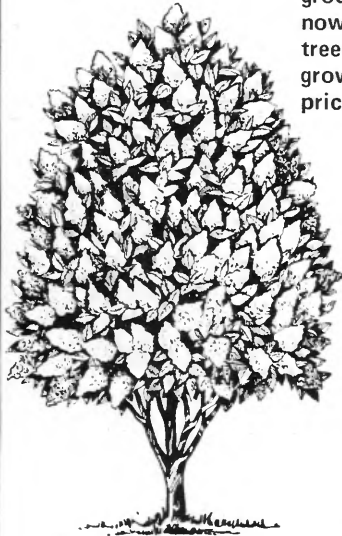
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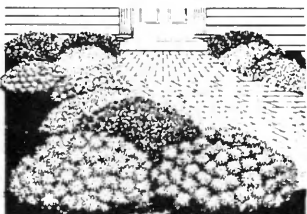
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