

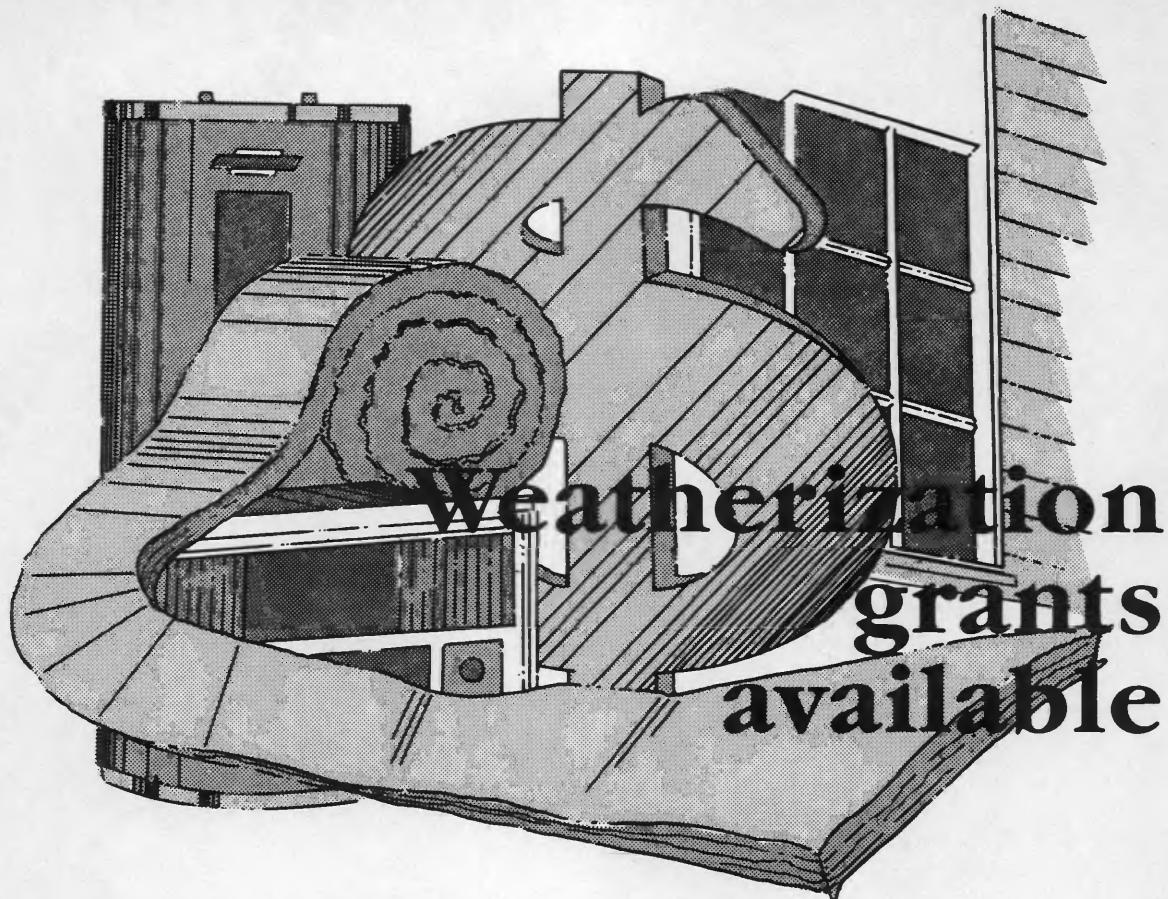
REN

Illinois Rural Electric News
September 1988

Statewide edition



Museum offers
visit to past



Home energy conservation and weatherization grants are now available through the State of Illinois to help some electric cooperative members cut home energy costs. The Rural Home Energy Grant Program provides grants to qualifying low- and moderate-income members of electric cooperatives. These grants must be used to finance home improvements that will reduce energy use.

Qualifying energy conservation measures include caulking and weatherstripping, insulation, storm doors and windows, high efficiency heat pumps, high efficiency air conditioners for medical reasons, load management systems, and replacement water heaters and furnaces. All measures must demonstrate a 10-year pay back.

Cooperative members whose income is 80 percent or less of the mean income of the area may apply for a grant of up to \$1,500. Members whose income is between 80 percent and 120 percent of the area's median income may apply for a matching grant of up to \$1,000. Members qualifying in this category must fund one-half of the project's cost.

For information, contact your electric cooperative.



Electric Cooperatives of Illinois

Good for ALL Illinois

Illinois Rural Electric News

50-plus years of rural development

Elsewhere in this month's issue you will find an article dealing with the annual meeting of your electric cooperative's service organization, the Association of Illinois Electric Cooperatives. During that meeting, the primary theme was rural economic recovery, stability and development.

Electric cooperatives have been key participants in rural development for more than 50 years. The rural electrification program itself has been the country's most significant rural development project. Electric cooperatives not only ushered the age of electricity into rural areas, but they continue to be deeply aware of, and sensitive to, the need for a strong overall economy and social well-being in their service areas.

The weather this past spring and summer has amplified the fragile nature of the rural economy. Drought conditions across the state and nation have hit hard at a rural economy already under stress. The drought has cut into expectations of many associated with agriculture and rural areas, and it probably could not have come at a worse time. After a number of years

of hard times for rural areas, many people thought 1988 would be a good year.

Drought or not, though, the agriculture sector must be allowed to maintain its place as a cornerstone of the American economy. But farming alone cannot provide all of the economic support that rural areas need to survive. The rural communities need additional support in the form of industrial and commercial development. And, if that new development is based on local resources, there is even more to gain.

Electric cooperatives in Illinois have long worked not only to assure rural residents of an adequate supply of reasonably priced electricity, but also to support and improve the entire economy of their service areas. Cooperatives, as organizations, and employees, as individuals, have joined with chambers of commerce, development councils and similar groups to find ways to provide economic stability and growth in their rural communities.

In the beginning, rural electrification was a rural development program. That tradition continues today.

September 1988

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REN

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Cover: The Frantz Museum will bring back a lot of memories, especially this pre-electricity kitchen setting featured at the museum near Cullom. See article on pages 22 and 23.

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BRIEFLY

News items of interest to members of Illinois electric cooperatives

Ground broken for research house

A number of state and local officials were on hand in Nashville (Washington County) July 28 to help break ground for the energy efficient research and demonstration house being constructed by Tri-County Electric Cooperative. Turning the first shovels of earth for the home were: Dee Gibson of Mt. Vernon, representing U.S. Senator Alan J. Dixon; John R. Alongi of West Frankfort, representing U.S. Congressman Kenneth J. Gray; Beverly Van Hooebecke of Nashville, representing State Representative Charles Goforth; Dave Loos of Springfield, manager of alternative energy development for the Illinois Department of Energy and Natural Resources; Andy Bird of Mt. Vernon, member services manager for Tri-County Electric; Duane Nordike of Carlyle, representing Clinton Builders, general contractor of the project; Paul Wilkey, mayor of Nashville, and Wayne A. Estes of Mt. Vernon, President of Tri-County Electric. Tri-County Electric is building the demonstration house to provide energy-saving techniques in home construction under a grant from the Illinois Department of Energy and Natural Resources Alternative Energy Bond Fund. Located on the southern outskirts of Nashville on Highway 127, the home will be open for public tours as soon as it is completed. It is hoped that the home will be completed sometime this fall, and tours will be scheduled from the time of its completion through early 1990.

Co-op membership stable

Membership in rural electric systems nationwide remained stable in 1987, according to a new statistical analysis completed by the National Rural Electric Cooperative Association, the Washington, D.C., service organization for the nation's consumer-owned rural electric utilities. The study showed membership losses at 177 systems (an improvement over the 255 systems that lost members the year before) and membership increases of more than 3 percent at 174 systems.

Co-op members change attitudes

Changing attitudes toward the cooperative way of doing business emerged when Farmland Industries farm-supply co-op of Kansas City, Missouri, surveyed more than 1,000 of its leaders and members earlier this year. Vast majorities agreed that the cooperative remains a workable business structure, but similarly lopsided margins called for more streamlined and efficient practices at their co-ops.

Canadian power gains importance

Some regions of the country may rely on imported Canadian power for as much as one-fifth of their energy needs by the turn of the century, according to a new report from the Investor Responsibility Research Center in Washington, D.C. Although power imports from Canada currently amount to less than 2 percent of the total U.S. demand, the northeastern states get about 10 percent of their electricity from Canada; New York relies on the Canadians for 17 percent of its supply. Total U.S. imports of Canadian power are likely to double by 2000, the report predicts, as the American demand climbs and Canada continues to run a surplus of cheap hydroelectric power.

Coal plant decline fuels power-shortage fears

Only two new coal-fired power plants will come on line in 1988, increasing concern of a shortage of generating capacity in years to come. The Utility Data Institute of Washington, D.C., a research firm that keeps track of electric industry trends, warned that the five-year pattern of bringing few new coal plants into operation will continue for at least the next four years; predictions suggest only four plants will be built in 1989, two in 1990, three in 1991 and two in 1992. "The assembly line for new coal plants has slowed to a crawl," Institute President Liz Hannon declared.

Clean air supporter offers compromise

As prospects dimmed for achieving passage of clean air legislation this year, Sen. George Mitchell (D-Maine) scaled back the requirements contained in his earlier proposals. Mitchell's new package relaxes emissions standards and stretches out the deadlines for achieving them. Supporters of renewed clean air legislation argue that tighter controls are needed to curb acid rain and the greenhouse effect, but utility industry representatives warn that too-stringent controls will push power rates up and harm industry, and they contend that power plants already have cleaned up their act. Mitchell's plan would include increased funding for clean-coal research, require that costs of complying with new rules be shared across state and regional boundaries and provide job protection programs to protect local economies affected by the changes.

TVA cutbacks to freeze rates

The Tennessee Valley Authority shocked Tennessee state officials this summer with its announcement that it was laying off 7,500 people, more than 20 percent of its 34,000 workers. But as the dust settled, the plan looked sounder and sounder — especially to rural electric system managers throughout the region, who liked the idea of TVA's promised three-year rate freeze. "The benefit is really to our members," said James Baker, manager of Middle Tennessee Electric Membership Corp. in Murfreesboro. "They can be reasonably assured of stable rates for three years — and that's the first time that's happened in a long time."

GENERAL MANAGER

Shelby Electric
Cooperative

Shelbyville, Illinois

Debt-free electric distribution cooperative in east-central Illinois seeks a well-rounded successor to veteran manager who is retiring.

Applicants should have a college degree and a broad background in electric distribution system management, skills in budgeting, financial planning, communications, leadership and the ability to work effectively with a seven-member board of directors. A personal commitment to the cooperative principle of not-for-profit operation is essential.

Attractive headquarters in a county seat community of 5,259 that borders a major recreation facility. Located in a prime agricultural area, the cooperative serves 8,440 meters over 2,056 miles of energized line with 39 employees, \$13.7 million utility plant and \$12.3 million annual revenue.

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Development

Involvement crucial, cooperatives told

Illinois electric cooperatives were challenged to get involved in rural development during the 47th annual meeting of the Association of Illinois Electric Cooperatives (AIEC) August 9-11 in Springfield. Robert Kovack of Mattoon, chairman of the East Central Illinois Development Corporation (ECIDC), told more than 400 electric cooperative leaders that if they do not market their communities and regions, no one else will.

Kovack outlined methods used by ECIDC to get industrial and commercial firms to consider the nine-county area. Among the tools used is a videotape produced with the assistance of electric cooperatives serving in the nine counties, he added.

State Sen. Glenn Poshard, (D-Carterville) echoed Kovack's advice when he called on electric cooperative leaders to get involved in community development. Poshard, recipient of one of three Illinois Public Service Awards presented during the statewide meeting

in Springfield, said electric cooperatives must help their area economies diversify.

"There is a danger of trying to survive in a rural area on a one-item economy," Poshard said. "In my area that item is coal . . . and because we have structured our economy on that one item our entire economy is suffering."

Poshard represents the 59th Senate District in southeastern Illinois and is a candidate for election to the U.S. Congress to succeed Rep. Kenneth Gray, who is retiring.

The greatest single problem facing rural Illinois communities is the need to rebuild their community infrastructure, Poshard said. He said 256 Illinois communities are on the U.S. Environmental Protection Agency list for sewer violations. Cooperatives could also work with their communities to develop labor-management councils, Poshard said, to help improve labor and management relations in Illinois and work to bring new jobs to their areas by

Below left: From left, Thomas H. Moore of Springfield, Marilyn Elzy of Sullivan and Lawrence Oller of Taylorville. Below right: From left, Joe Danielson of Princeton, T.L. Christensen of Princeton and Earl Bates of Kewanee.



attracting secondary agricultural processing industries to Illinois.

Beyond economic development activities, Poshard said, rural Illinois needs to increase inter-governmental cooperation in such areas as regional jails, ambulance service and fire districts. He said that with increasing needs and dwindling resources, rural areas must begin to seek the most efficient means to provide services to rural citizens.

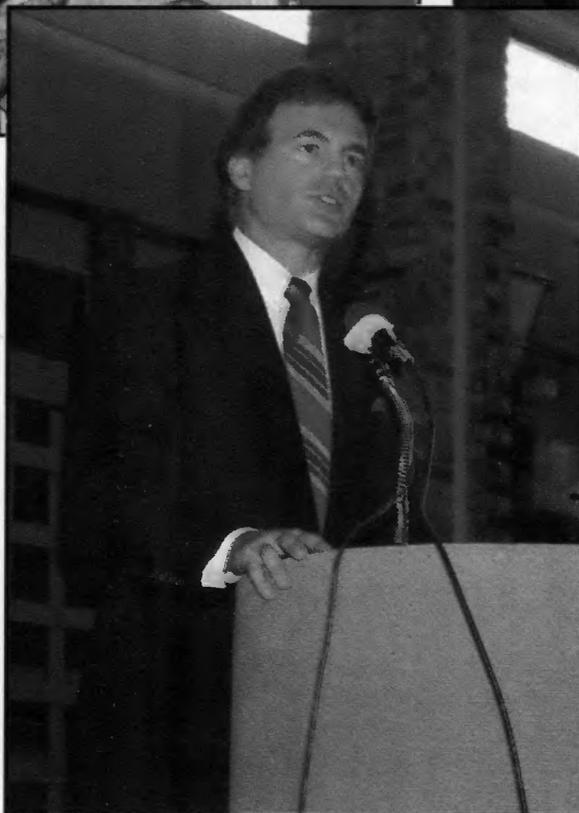
Besides Poshard, Illinois electric cooperatives presented public service awards to state representatives Thomas J. Homer (D-Canton) and Kent Slater (R-Macomb). A fourth public service award

for 1988 was presented in late July to Congressman Robert Michel (R-18th).

Homer was honored for his work in the Illinois General Assembly sponsoring legislation that limits the Illinois Public Utility Tax to a fixed rate per unit of sales rather than a percentage of the gross bill. While noting that Illinois electric cooperatives played a major role supporting his legislation, Homer said, "I'm proud that our bill will save Illinois consumers more than \$225 million in a five-year period."

Slater, a candidate for election as circuit court judge of the Ninth Judicial District, was also honored for his work

(Continued on page 18)



Clockwise from left: State Rep. Thomas J. Homer was one of three who received Public Service Awards during the meeting. State Rep. Kent Slater (left) receives Public Service Award from Wayne Estes of Mt. Vernon. State Sen. Glenn Poshard (right) is congratulated on receiving the Public Service Award by Earl Struck of Springfield.

Fall, for many of us, is a time of mixed emotions. As summer gives way, we're happy that the hot weather is going with it. But we know that cold weather's coming, too.

If there is any one reason to celebrate fall as a season in its own right, the Spoon River Scenic Drive is it. Held the first two weekends in October, it offers a scenic tour of a historical, picturesque part of Illinois, located just west and southwest of Peoria.

The area's fall colors would be enough of an excuse to make the drive, but the fall festivals in any number of towns small and large in the area are icing on the cake. Crafts and quilts are sold along the roadsides. Those who want to can watch as apple butter is made. And you can buy some, too. Entertainment of various kinds is woven in with demonstrations of one kind or another, and storytellers spin their yarns while antique enthusiasts and flea market aficionados browse nearby.

Those who find a crisp fall morning

boasts a blacksmith shop museum, an 1850s hotel, a one-building block three stories high that was built in 1876 and contained an opera house, offices and living quarters.

The Dickson Mounds Museum is near the southern end of the drive, and the staff there plants gardens much like the area Indians must have tended a millennium or so ago, and the museum offers many displays and Indian cultural exhibits, as well as an audio-visual theatre and gift shop. There's a picnic and recreation area, too.

The towns of Ipava, Farmington, Canton, Fairview, Cuba, Smithfield and Astoria have many demonstrations and displays during the fall.

Canton—for those who like their history a little more recent—is, incidentally, the home of Steve Nagel, the 100th astronaut in space.

Ellisville, also a town on the drive, is the site of the first mill on the Spoon River, and is home to the smallest library in the state. The Ellisville Opera

Spoon River Scenic Drive

improved by a pancake-and-sausage breakfast will find plenty of opportunities, and butterfly pork chops are offered alongside home-cooked meals and home-baked goods.

While foods and fall colors make up an important part of the Spoon River Scenic Drive, there are several towns that have retained much of the charm that prompted famed author Edgar Lee Masters, an area native, to pen his famous Spoon River Anthology. His boyhood home, incidentally, is in Lewistown, an early stop in the trip for those who begin at the southern end of the drive, which wends its way from London Mills in the north almost to Havana, in the south. Lewistown also



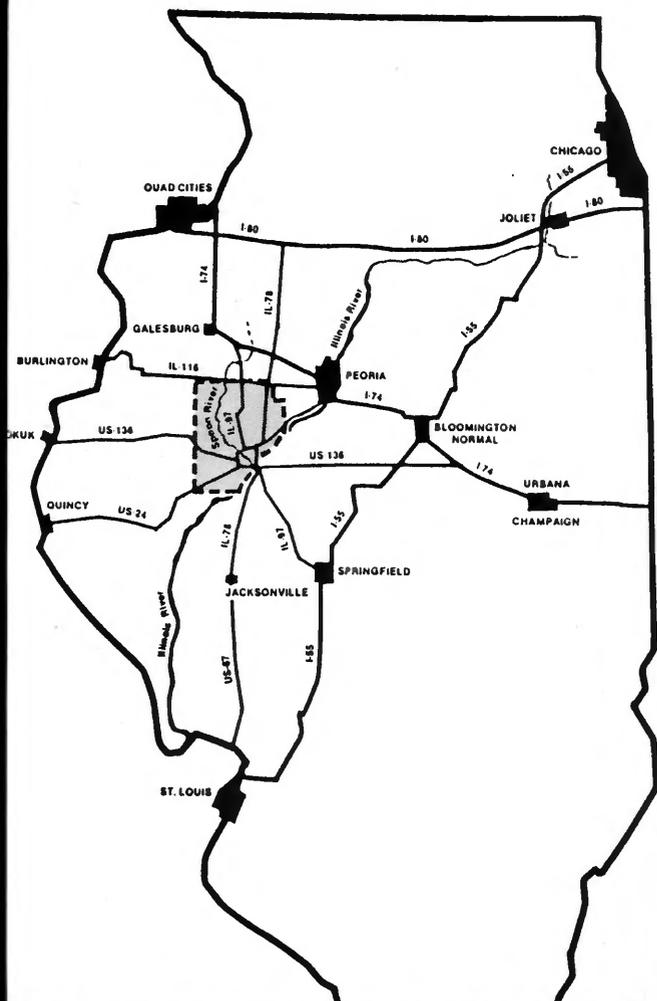
House is said to be the only one in the state that's original, and it boasts a hand-painted curtain with advertisements for area stores and shops. Stores along the main street look much as they did at the turn of the century. Mt. Pisgah overlooks the town and much of the valley, too. During the fall season, an Indian shelter and campsite shows what

the lifestyle was like before the arrival of the White settlers.

London Mills, which is near the source of the Spoon River, has an apple butter-making demonstration in Riverside Park, and an old hotel nearby, the Ross, has been restored so well that a turn-of-the-century "drummer" stepping off the train would feel right at home there today.

There is much more to the tour. It's something you have to explore yourself to fully appreciate. There are campgrounds to stay at, and hotels and motels for those who want to make at least a weekend of it, as you must to really do it right. Permanent signs mark the routes, which can vary from 65 to nearly 100 miles.

The Spoon River Scenic Drive Associates will send you plenty of additional information, if you'll write or phone. The address is: Box 59, Ellisville, IL 61341, and you can call (309) 293-2143 or (309) 547-3234.



Above: Making apple butter at Riverside Park in London Mills. Left: Quilters working during the quilt show.

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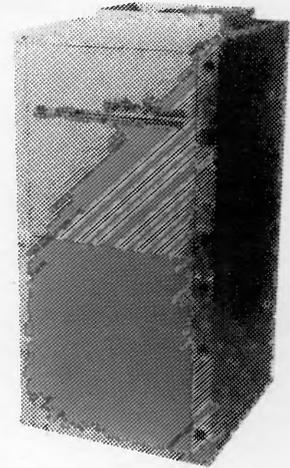
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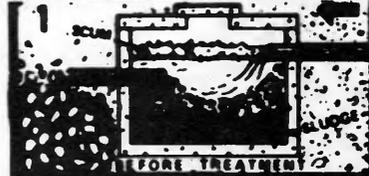
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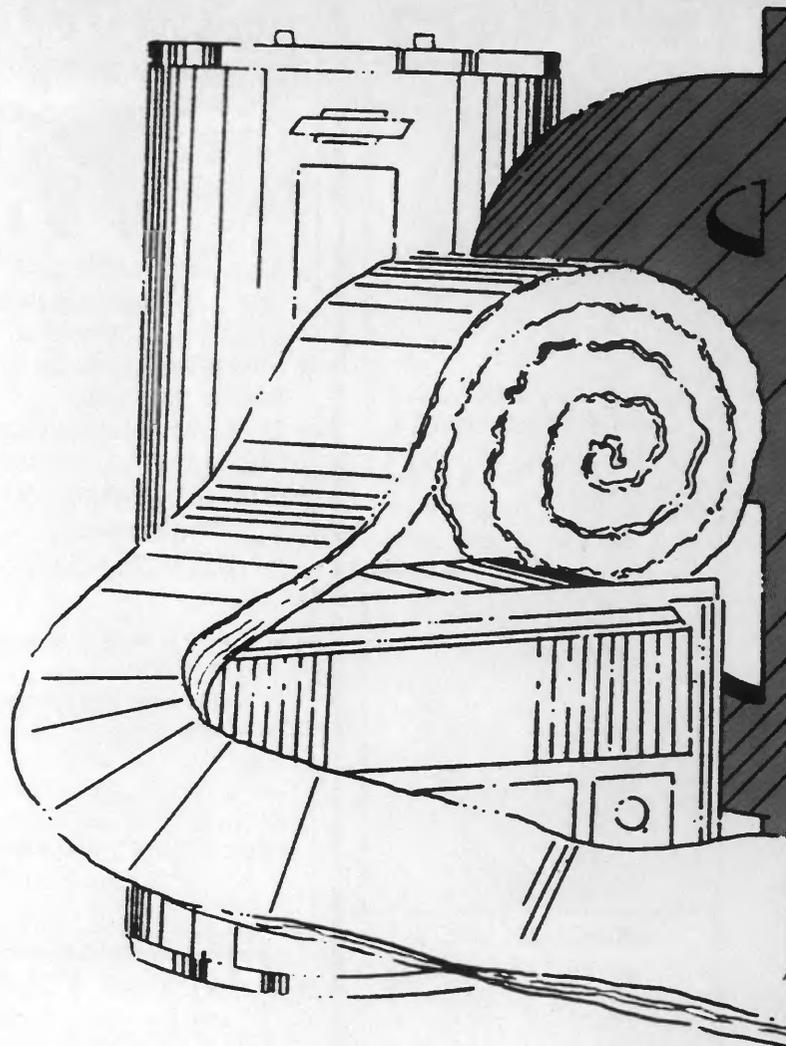
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\$2.5 million available through ENR grants

For the second consecutive year, a home weatherization or energy conservation grant of up to \$1,500 will be available to eligible members of Illinois electric cooperatives through the Illinois Department of Energy and Natural Resources (ENR). Grant money totalling \$2.5 million has been allocated for qualified cooperative members during this program year.

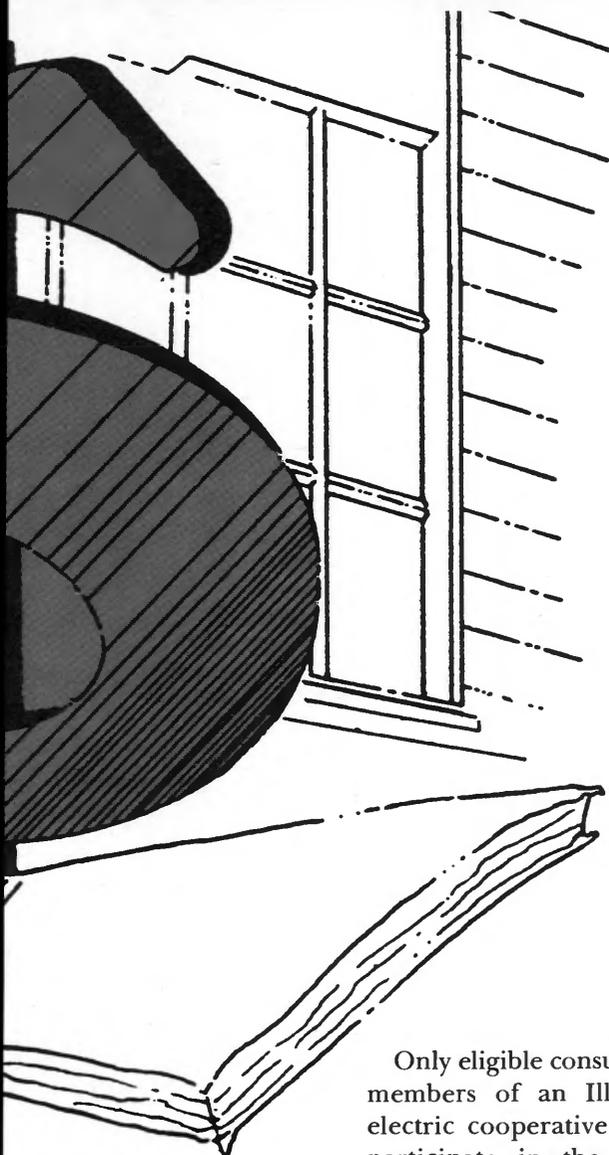
This money will help in upgrading or replacing inefficient heating systems, installation of insulation, weatherstripping storm windows and doors, and a number of other weatherization projects.

The funding is offered through the Rural Home

Energy Program, which was established by the Illinois General Assembly in 1987. Money was generated through penalties assessed by the federal government against oil companies for overcharges to consumers. Illinois received about \$100 million as its share of money returned to individual states.

Last year, the General Assembly set aside \$1.5 million for grants.

The Rural Revival Bill, introduced in 1986, included a provision for the Rural Home Energy Program. The development of the legislation and final enactment was promoted and assisted by the Association of Illinois Electric Cooperatives.



Only eligible consumer-members of an Illinois electric cooperative may participate in the program.

Any cooperative member with a household income of 80 percent or less of the cooperative service area's median income is eligible for a grant of up to \$1,500. This is a total grant, without any matching funds required by the applicant.

For members whose household income is 80 to 120 percent of the area's median income, a grant of up to \$1,000 is available. This is a 50 percent matching grant. The consumer-member pays 50 percent of the project's cost.

This year the list of projects eligible for funding under the program has been changed. On some items there is a dollar limit on the amount of subsidy available. In no case is the subsidy offered for more than the cost of the work, or \$1,500.

Eligible projects include:

- Insulation projects for walls, ceilings, attics, foundations, crawlspaces, floors, basement walls or ceiling, water pipes, air ducts, underpinning, and mobile home undercarriages
- Water-saving shower heads
- New, energy-efficient water heaters (must meet ASHRAE 90 Standards as required by Illinois law)

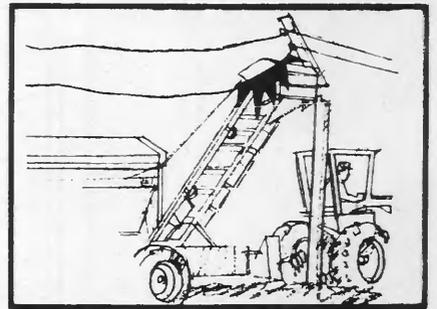
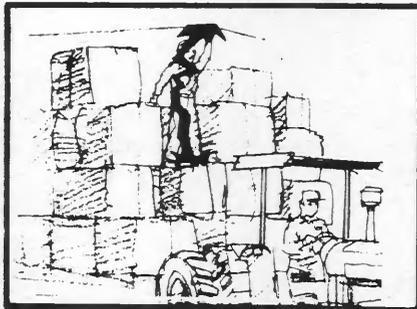
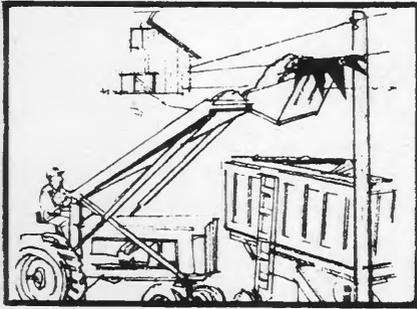
- Water heater jackets (blankets)
 - Set-back thermostats
 - Central air-conditioners with a SEER greater than 10.0 (or room air conditioners with an EER greater than 8.6) only for medical reasons (A medical doctor's certification is required.)
 - Water and ground source heat pumps with a SEER rating of greater than 8.6 (Maximum grant is \$1,000 for these types of systems.)
 - Electric heat pumps with SEER ratings of greater than 8.6
 - Furnace load management systems and furnace efficiency modifications
 - Furnace flue modifications and electronic ignition systems
 - Furnaces with an AFUE rating of 90 or better, and under certain circumstances and with prior approval from ENR, other heating systems with lower ratings may be eligible (Call ENR for details.)
 - Storm doors and thermal doors for a grant of up to \$150 maximum per entrance
 - Storm windows and thermal replacement windows for a grant of up to \$150 maximum per entire window unit
 - Caulking and weatherstripping
 - Energy-saving fluorescent lighting
- All projects must demonstrate a 10-year payback to the member in energy savings, as determined by an energy audit.

Contact your cooperative or ENR if you are interested in applying for a Rural Home Energy Program grant. Before being considered for the grant, participants must have an energy audit completed on their home and have a written bid from at least two contractors for proposed projects. These bids must contain model numbers and efficiency ratings for heating systems and cost estimates.

Applications must be submitted to the Cooperative. After it is reviewed there, the application will be forwarded to the ENR for final review and approval. ENR has the final decision on all Rural Home Energy Program applications.

Once the application gets approval, a check is prepared payable to the consumer-member and the Cooperative. The Cooperative then endorses the check and presents it to the member for payment. ENR has the right to inspect the completed work, and each approved applicant must also certify to ENR that the installation of materials or equipment funded through the grant program is complete.

For more information, contact your electric cooperative or the Illinois Department of Energy and Natural Resources at (217) 785-2800.



Use REACT for safe harvest

The technology and ingenuity of modern farming equipment have helped the American farmer continue to enjoy bountiful harvests to feed our nation's population and a great portion of the world's population as well. When you move into your fields to tend your crops, please exercise Responsible Electric Accident Control Today (REACT) to make your harvest as safe as it is rewarding.

Modern farming requires the use of large, complex machinery. Each year a tragic number of accidents are caused by careless handling of farm equipment around electric power lines and utility poles. Please avoid any contact with this potentially lethal power equipment.

Insist that hired hands and family members alike learn to survey their working areas carefully before engaging farm equipment in work activities. Have every worker assure himself that the equipment he is using will not come into contact with power lines or power support equipment. Although you may have no power lines whatsoever in your fields, you certainly have them present in equipment storage areas and grain storage areas. Be sure the paths from equipment storage areas to the fields and from the fields to the grain storage areas are safe routes. There should be ample clearance for augers, combines, pickers, balers, front-end loaders,

stackers or any other equipment you are moving about your farm.

If there is some question about whether equipment will clear a power conductor, assume that it won't and take measures to avoid possible contact.

Many times, power lines follow property lines. When you reach the end of your field and turn your equipment, there is a good chance power lines will be nearby. Always be alert to power lines on your property lines. They may even be hidden by trees or brush, so you must take precautions to ensure your equipment does not make contact.

Grain augers and bins are often used along property lines, too, since such placement makes the best use of the land. Again, be sure that the augers do not come into contact with power lines.

Crop storage equipment such as augers, balers and stackers can be extended in height to exceed electric code clearances for power lines. When you are working to store hay, alfalfa or baled straw, take precautionary measures to be sure the stacking equipment will not come into contact with power lines. It takes only one mistake to bring tragedy.

If you are planning the construction of any new storage bins, be sure to take the placement of existing power lines into account. If you simply cannot find adequate space to construct those bins away from power lines, contact your electric cooperative for advice. Someone will be sent to your farm to survey your potential building sites and work with you in order to come to the best possible solution. Your complete safety and comfort are prime concern of your electric cooperative.

**Three a.m.
and all
is well**



when you have a
security light
from your electric
cooperative

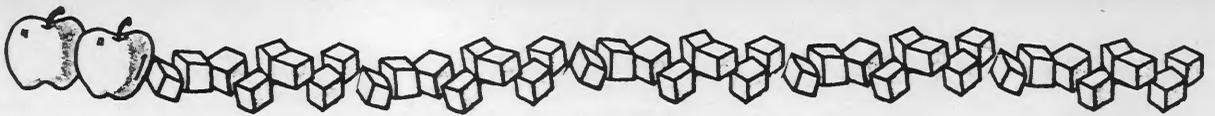
The hours of slumber. While you are at rest, a security light from your electric cooperative can be at work, covering your property with a glow that chases intruders into the outer shadows. A modern security light is bright and energy efficient. It doesn't waste electricity because it automatically turns on at dusk and shuts off at dawn.

Sleep soundly. Have a security light installed at your home or farm. Call your electric cooperative today to find out how.

Electric Cooperatives of Illinois



Good for ALL Illinois



PEANUT BRITTLE

- 1 cup sugar
- 1 teaspoon vanilla
- 1 cup raw peanuts
- 1/2 cup white corn syrup
- 1 teaspoon butter
- 1 teaspoon baking soda

Combine peanuts, sugar and syrup in pyrex dish. Cover and cook 4 minutes in microwave oven. Take out and mix well, then cook for 4 more minutes. Take out and add butter and vanilla; Cook for 2 more minutes. Remove and add baking soda. Stir until mixture turns brown; pour on buttered tray and let cool.

SWEET POTATO PIE

- 2 cups mashed sweet potatoes
- 2 tablespoons melted butter
- 1 cup sugar
- 1/2 cup dark corn syrup
- 1/2 teaspoon salt
- 1/2 teaspoon cinnamon
- 1/4 teaspoon cloves
- 1/2 teaspoon nutmeg
- 1/2 teaspoon ginger
- 1/2 teaspoon allspice
- 1 or 1 1/2 cups milk
- 2 eggs

Mix all ingredients. Beat eggs well. Pour into a pie shell. Place in preheated oven of 400 degrees for 10 minutes. Reduce heat to 350 degrees and bake about 50 minutes.

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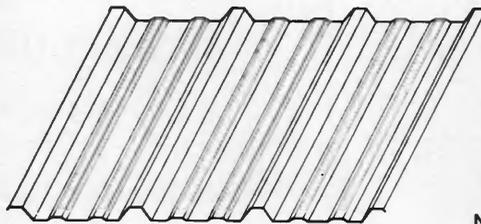
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Apples and Caramels

OVEN CARAMEL CORN

- | | |
|----------------------|------------------------|
| 8 quarts popped corn | 1/2 cup white syrup |
| 2 cups brown sugar | 1 teaspoon vanilla |
| 1 cup oleo | 1/2 teaspoon soda |
| 1 teaspoon salt | add peanuts if desired |

Boil all ingredients (except corn and soda) for 5 minutes, mixing well and stirring occasionally. Remove from heat and add soda. Stir in quickly. Pour mixture over corn, mixing well. Put in large flat pans and place in oven at 250 degrees for 1 hour and 30 minutes, stirring 2 or 3 times. Keeps indefinitely when stored in tightly closed container.

LAYERED CARAMEL APPLE BISCUIT

- | | |
|----------------------------|---|
| 2 cups flour | 1 egg, beaten |
| 2 tablespoons sugar | 28 caramels |
| 1 tablespoon baking powder | 1/4 cup water |
| 1/4 teaspoon salt | 4 cups apple slices |
| 2/3 cup milk | 2 cups thawed non-dairy whipped topping with real cream |
| 1/2 cup margarine, melted | |

Combine dry ingredients. Add combined milk, margarine and egg, mixing just until moistened. Spread into greased and floured 8-inch layer pan. Bake at 450 degrees, 12 to 15 minutes or until golden brown. Cool 10 minutes; remove from pan. Cool; split in half horizontally. Melt caramels with water in heavy saucepan over low heat, stirring frequently until smooth. Add apples; heat. Fill and top biscuit with apple mixture and whipped topping. Serve immediately. 8 servings.

LOUISIANA STYLE BREAD PUDDING

- | | |
|---------------------------------------|-----------------------|
| 28 caramels | 1 3/4 cups milk |
| 2 tablespoons bourbon | 1/4 cup sugar |
| 2 tablespoons water | 1 teaspoon vanilla |
| 2 cups coarsely chopped peeled apples | 1/4 teaspoon salt |
| 5 dry bread slices, cubed (4 cups) | 1/4 teaspoon cinnamon |
| 2 eggs, beaten | |

Melt caramels with bourbon and water in heavy saucepan over low heat, stirring frequently until smooth. Place apples and bread in greased 1 1/2-quart casserole. Combine remaining ingredients; pour over bread and apples. Top with caramel sauce. Bake at 350 degrees, 1 hour or until knife inserted near center comes out clean. Serve warm or chilled. 6 to 8 servings. Variations: Substitute brandy for bourbon. Omit bourbon; increase water to 1/4 cup.

CARAMEL APPLE PUFF PANCAKE

- | | |
|-----------------------|------------------------|
| 28 caramels | 1/2 cup milk |
| 1/4 cup water | 2 eggs |
| 4 cups apple slices | 1/4 teaspoon salt |
| 1/4 teaspoon cinnamon | 1 tablespoon margarine |
| 1/2 cup flour | Sour cream |

Melt caramels with water in heavy saucepan over low heat, stirring frequently until smooth. Add apples and cinnamon; heat. Combine flour, milk, eggs and salt; beat until smooth. Heat heavy 9-inch ovenproof skillet in 450 degree oven until very hot. Add margarine to coat skillet; pour in batter immediately. Bake on lowest oven rack at 450 degrees, 10 minutes. Reduce oven temperature to 350 degrees; continue baking 10 minutes or until golden brown. Fill with apple mixture; top with sour cream. Serve immediately. 6 to 8 servings.

CARAMEL APPLES

- | | |
|-----------------------|---------------------------|
| 1 14 oz. bag caramels | 4 or 5 medium size apples |
| 2 tablespoons water | Wooden sticks |

Melt caramels with water in 1 1/2-quart heavy saucepan over low heat, stirring frequently until smooth. Wash and dry apples; insert stick into stem end of each apple. Dip into hot caramel sauce; turn until coated. Scrape off excess sauce from bottom of apples. Place on greased wax paper. Store in refrigerator. Let stand at room temperature 15 minutes before serving to allow caramel to soften. 4 to 5 servings.

Variations: Substitute pears for apples. Substitute 14 oz. bag chocolate fudgies for caramels and 1 tablespoon milk for water. Add 2 tablespoons creamy peanut butter with caramels and water. Roll apple in chopped pecans. Dip caramel-coated apples in chopped nuts, flaked coconut, chocolate pieces or miniature marshmallows; cut in half.

Microwave: Microwave caramels and water in small deep glass bowl on high 2 1/2 to 3 1/2 minutes, stirring after each minute until sauce is smooth. Continue as directed (if caramel sauce is too thin, let stand about 2 minutes before dipping apples.)

APPLE PUDDING

- | | |
|-----------------------------|-----------------------|
| 1/2 cup butter or margarine | 1/4 teaspoon salt |
| 1 cup sugar | 1/4 teaspoon cinnamon |
| 1 cup sifted flour | 1 cup milk |
| 2 teaspoons baking powder | 2 cups cooked apples |

Melt butter in 2 quart casserole. Combine next six ingredients to make batter. Pour on butter. (Batter will be thin.) Drain apples; pile in center of batter. Bake at 350-375 degrees until batter covers fruit and crust browns (about 30-40 minutes). Peaches or other fruit may be substituted.



HOT APPLE CIDER

- | | |
|----------------------------------|---------------------------|
| 2 (3-inch) sticks cinnamon | 3 tablespoons real butter |
| 3 quarts unsweetened apple cider | sprinkle of cinnamon |
| 3/4 cup brown sugar | sprinkle of nutmeg |

Boil cider and cinnamon sticks. Stir in sugar until dissolved. Add butter. Keep hot but do not allow to boil. Serve with a sprinkle of cinnamon and nutmeg.

LEMON CAKE

Mix 1 lb. butter (do NOT substitute oleo) with 2 1/2 cups sugar. Add 1 lb. dates, cut, mixed with 1/2 cup flour. Alternately add: 3 1/2 cups flour, 4 egg yolks, beaten, 1 bottle lemon extract (1 oz.), 1 lb. pecans, chopped. Mix well (will be stiff). Fold in egg whites, beaten well. Bake 2 hours at 300 degrees over pan of water. (Can bake in two greased loaf pans and reduce baking time.) Pour hot pineapple juice (from large can of pineapple) over cake when removed from oven.

CHOCOLATE SHEET CAKE

Sift into bowl: 2 cups flour (all-purpose), 2 cups sugar. Then add: 1/2 cup buttermilk with 1 teaspoon soda beaten in, 2 eggs, 1 teaspoon vanilla. Beat well. In saucepan melt and bring to boil: 1 stick oleo, 1/2 cup Wesson Oil or shortening, 1 cup water, 3 1/2 to 4 tablespoons cocoa. Beat into sugar and flour mixture until smooth. Pour into greased and floured 17" x 11 1/4" pan. Bake 20 minutes at 350 degrees.

ICING:

Melt 1 stick oleo with 6 tablespoons cream or milk and 3 1/2-4 tablespoons cocoa. Beat in 1 box powdered sugar. Add 1 teaspoon vanilla and 1/2-1 cup chopped nuts. Pour over hot cake and spread evenly.

(Continued from page 7)

in the General Assembly supporting legislation beneficial to the 170,000 rural electric cooperative consumer-owners in Illinois.

Michel was cited for his assistance to Western Illinois Power Cooperative (WIPCO), Jacksonville, and Soyland

Power Cooperative, Decatur, in securing refinancing and restructuring of their federally guaranteed debt.

Other featured speakers during the meeting included attorney John T. Ward of Des Moines, Iowa; Neil Doherty of the National Rural Electric Cooperative Association from Washington, D.C.; and Charles B. Gill, chief executive officer of the National Rural Utilities Cooperative Finance Corporation, Washington, D.C.

Gill said his organization has lent more than \$500 million to Illinois electric cooperatives, so he feels he is a partner in meeting the needs of rural Illinois. He praised the cooperatives for stabilizing their rates to consumers and called on cooperative leaders to seek ways to make their organizations more efficient in meeting the needs of future consumers.

Brian Wills of rural Carlinville, winner of the 1988 FFA State Foundation Award in Agricultural Electrification, was honored during the meeting. Brian's parents, Charles and Jean Wills, are members of M.J.M. Electric Cooperative, Carlinville.

Robert W. Rippelmeyer of Valmeyer was reelected to his second term as Illinois director on the board of the National Rural Electric Cooperative Association.



Rep. Michel



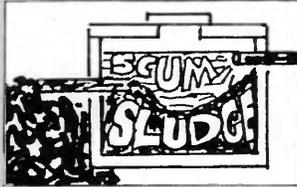
Kovack

Officers of the AIEC are, seated from left, Wayne A. Estes of Mt. Vernon, president; Wilbert H. Rueter of Carlyle, vice president; Albert W. Schoen of Litchfield, secretary; standing from left, Thomas H. Moore of Springfield, executive vice president, and Lawrence Lycan of Marshall, treasurer.

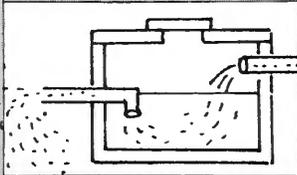


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7020: Add a cozy accent to bed, sofa or car. Crochet this easy-to-make afghan using 4 colors of worsted weight. Directions & color schemes for afghan, 45"x54"

OFFER GOOD THROUGH JAN. 31, 1989



4201: Style is often so very simple. The evidence: This dress with bodice wrap, elastic waist and cap or elbow sleeves. Misses Sizes 12 to 22.



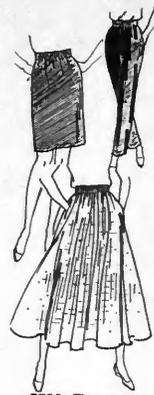
OFFER GOOD THROUGH JAN. 31, 1989

LIGHT AND LOVELY



6024: Lacy sleeves, dolman shaping are stunning and so feminine. Easy pattern stitches. Crochet, using baby yarn or bedspread cotton. Sizes 10-20 included.

OFFER GOOD THROUGH JAN. 31, 1989



5528: Five easy pieces. Flared skirt, straight skirt (2 lengths) pants and shorts have elastic waists. Misses Sizes 8 to 18. State K(8-10-12) or R(14-16-18) when ordering.



OFFER GOOD THROUGH JAN. 31, 1989



4120: A perfect team for busy days. Top (bloused or straight) has flare or ¾ sleeves, trumpet skirt is elasticized and long scarf is optional. Misses Sizes 12 to 26.



OFFER GOOD THROUGH JAN. 31, 1989

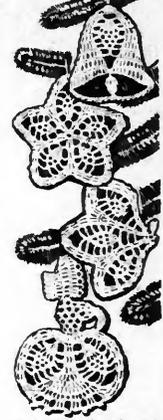
PINEAPPLE LACE



410: Create a Butterfly Chair Set with pineapple crochet. Backs are 12"x16" and may be used as placemats. Arm rests are 7"x8". Use No. 30 cotton for set.

OFFER GOOD THROUGH JAN. 31, 1989

CHRISTMAS CROCHET



7303: Handmade tree trims for Bazaars or gifts are quick and easy pineapple designs. Crochet of bedspread cotton, then starch. Directions for 4 ornaments.

OFFER GOOD THROUGH JAN. 31, 1989



4209: Round the clock dressing. Top has three sleeve lengths; skirt is elasticized. Misses Sizes S(8-10), M(12-14), L(16-18), XL(20-22) included in pattern.



OFFER GOOD THROUGH JAN. 31, 1989



4172: Dynamic trio! Cocoon jacket, shell and elastic waist pants are easy to sew. Misses Sizes S(8-10), M(12-14), L(16-18), XL(20-22) included in pattern.



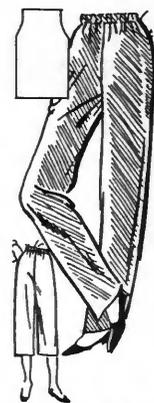
OFFER GOOD THROUGH JAN. 31, 1989

POPCORN PULLOVER



6021: Popcorns add texture to an easy fitting pullover that's quick to make. Use baby yarn or bedspread cotton for this lightweight top. Directions for Sizes 10-16.

OFFER GOOD THROUGH JAN. 31, 1989



4191: Only one main piece for pants that come in two lengths. Half Sizes S (25-27), M (29-31), L (33-35), XL (27½-40) in pattern.



OFFER GOOD THROUGH JAN. 31, 1989

ROMANTIC ROSES



7178: Combine cross-stitch with quilting for the best bed-covering. Transfers for 12 large and 24 small motifs. Work as blocks or center panel for 83" or 98"x100" spreads.

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OLD-FASHIONED DOLL



7121: Topsy-turvy doll flip flops from waking to sleeping. She will delight kids and collectors. Transfer pattern pieces & directions for doll & clothes.

OFFER GOOD THROUGH JAN. 31, 1989



4020: Step into the fashion swing! The body consciousness is the flattering fit and flare shaping of sleeveless or cap sleeved dress. Misses Sizes 5 to 18.



OFFER GOOD THROUGH JAN. 31, 1989

PATTERNS

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Pattern No. Size Pattern No. Size

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Lynn with a 1928 International fire truck, which belonged to the nearby town of Cullom for several years. Many of the items in the Frantz Museum have a local history.

Packrat's museum

Lynn Frantz of rural Cullom admits that he is a little bit of a packrat and always has been. When other people were scrambling to get enough money together to replace their old radios, sewing machines, furniture, cars and farm equipment, he was doing just the opposite. He was buying old stuff and squirreling it away. And he was collecting antiques from his family, too.

With all that old memorabilia around, it seemed logical to open a museum. Behind his Livingston County home is the Frantz Museum, a pole barn full of things he has collected over the years.

Many of the antiques hold special memories for Frantz, a member of Eastern Illini Electric Cooperative. "This radio," he says, indicating a four-foot-high floor model, "was up for sale when I was in high school. I just had to have it. I paid a quarter for it and kept it in my parents' attic for years. In fact, it got so hot up there that some of the tuning buttons broke."

That does not bother him. "I thought about painting and restoring some of

these pieces," he says, "but a lot of people seem to enjoy them just as much if they don't look spotless and gleaming. While none of my antiques are decrepit, they do look like they have led useful lives."

One piece he is particularly proud of is a spring-wound music box that plays perforated discs about a foot in diameter. Built around the turn of the century, it puts out surprisingly good sound quality. "Back before they got electricity out into the countryside," Frantz says, "this was a very popular form of entertainment."

The music box is in the "home" section of the museum, and there is a virtual houseful of antiques showing how people lived many years ago. Most of the items belonged to the family, and some date back five generations.

There is a kitchen, complete with several different hand-operated butter churns, a wood cookstove, an icebox, a hand-operated water pump, a kerosene lamp, a sausage stuffer and a wooden washing machine. It is a 1910

Montgomery Ward offering and operated on water pressure.

The living room includes a very ornate organ, a table with its ever-present gas lamp, a trunk, sofa, rocking chair and vintage family photos. The presence of a Victrola — or early record player — marks this as the living room of a family of some means, since such units were not cheap. "The machine had two horns," Frantz says. "There was a big one that we have fitted in the living room now. About five feet long, it was used for recording onto blank wax cylinders, and my great-great grandmother and great grandmother did that. They sang and played the organ. The smaller horn, a couple of feet long, was used to play the recording back."

The bedroom features a large bed with an overstuffed mattress, trunks, a commode chest, a crib and large wardrobe, a common fixture in the days before built-in closets. A separate display shows several radios from the 1930s, treadle-operated sewing machines, children's toys and miscellaneous items, including a 1946 television set and a Crosley automobile radio.

By far the biggest part of the building is taken up by cars, trucks, tractors and other farm implements, and Lynn has cars ranging from Model T Fords up to Buicks, Plymouths and Pontiacs of the late 1930s. Of more recent vintage is an Edsel of the late 1950s. Most of the cars have very few miles on them.

Many of the cars and trucks have a history, too. A 1928 International fire truck belonging to the Cullom Volunteer Fire Department, and a 1934 Buick four-door sedan was bought new by Lynn's great grandfather. "I have a 1937 Pontiac that belonged to a man down the road," he says, "and I'd asked him several times over the years if he'd sell it to me, and he'd always decided to keep it. Then one day in about 1970, he came in and told me he was ready to sell and would offer me first crack at it. Then he warned me that he wanted a 'good price' for it. I swallowed hard and asked him much he wanted," Lynn laughs, "and he said, '\$200,' and I jumped at it. It has 53,000 miles on it.

"Another car with a little history is the '36 Ford I drove to high school," he notes. "I'd talked my folks into letting me get a car, and I decided I wanted an

old one. I knew a man who had a '39 Ford coupe and tried to get him to sell it. He didn't want to, but he sent me to this fellow who had a '36 four-door, and I bought it. I later bought two Model A's from him, a car and truck."

Some of the tractors show the evolution of farming from horse-drawn equipment to the use of bigger and better tractors. "I have a 1916 Moline Universal," he says, "and a 1917 8-16 International. The International has an unusual feature in that there was no oil pan. The tractor had a big reservoir, and tubes were fitted to squirt a little oil on the bearings, and the oil just fell off on the ground. The operator would have to make sure the reservoir was full every once in a while, probably when he started in the morning and again at lunch. It was a strange setup."

Another tractor, the Waterloo Boy, was fueled with kerosene, while the 1920 Titan had no radiator, but had a large water reservoir above the engine.

While tractors tell us a lot about how things were done years ago, some of the small farm accessories are interesting, too. A horse-drawn, one-row corn planter that has been in the family for five generations shows how far farming has come, and a Gem grain grader, a corn sheller and a small grain cleaner show that life down on the farm in days gone by provided a wide variety of chores, and that some of them involved back-breaking work.

This 1916 Moline Universal tractor is one of the earlier tractors in Lynn's collection and belonged to a relative.



(This is the second of a two-part series on electric water heating. This material was prepared by the Illinois Farm Electrification Council.)

Point-of-Use Water Heaters

The point-of-use or "tankless" water heaters do not store heated water; instead water is heated only when you need it. They are much smaller and work best where only small amounts of hot water are needed at one time or where the point of water use is a distance from the main water heater. Tankless heaters also make it unnecessary to run a separate hot water line to that location. Though there are some good applications for point-of-use heaters, there are also several drawbacks.

They must be sized according to the *flow rate* (number of gallons to be used in a minute) and the *temperature rise* (temperature difference of incoming water and the water required for use). If you want a flow rate of one gallon per minute, which is average for hand washing, and a temperature rise of 50°F, you need an 8,000-watt model requiring a separate 240-volt circuit.

In other words, you have a very high

Making your electric water heater pay

wattage unit and a low flow rate. If your electric bill includes a "demand" charge you may be better off with a lower wattage, storage heater or a timer. If you are billed on either a demand or time-of-day rate, ask your power supplier if a timer would be to your advantage.

If, however, you have a room that doesn't need a lot of hot water at a time, (a mudroom located at the opposite end of the house from the main water heater) or you don't want to pay to keep the water hot 24 hours a day (a vacation home) the point-of-use heater could be for you. Point-of-use heaters require a small amount of room, a source of water and a separate electrical circuit.

Heat-Pump Water Heater

The concept of heating water with a heat pump has been revived due to the

continuing rise in energy costs. In industry- and government-sponsored tests, the heat-pump water heater has demonstrated a consistent savings ranging from 35 to 60 percent in homes that rely on conventional energy sources for water heating (excluding natural gas). This will vary with individual cases, based on the location of the unit, inlet water and ambient air temperature.

The heat-pump water heater operates on the same principle as a refrigerator, only in reverse. The unit utilizes two separate circuits: (1) a non-reversing refrigerant circuit, and (2) a water circuit to absorb heat from the refrigerant. By utilizing standard refrigeration techniques to absorb heat from the surrounding air, the heat pump has a higher coefficient of performance (COP) than a conventional electrical-resistance element water heater.

In the summer the heat-pump water heater may cause a slight savings on air conditioning costs because, as the water heater extracts heat from the air, it also slightly cools and dehumidifies the air, lessening the work of the air conditioner. During the heating season, the effect is the opposite, since the water heater is extracting heated air from the home.

The average unit manufactured today heats water at the rate of 12,000 Btu/h, equivalent to an output of a 3,800-watt, high-recovery resistance heating element. The average output is approximately 18 gallons per hour of 140° water at an inlet ambient temperature of about 60° to 80°F. However, it requires only about 1,250 watts to 1,450 watts of electricity, which is approximately one-third of the resistant element's consumption. With the average family of four spending between \$375 to \$500 per year to heat water, the potential savings can be a significant amount.

The two basic designs for the heat-pump water heater are (1) the self-contained unit and (2) a retrofit kit. The least expensive approach is the retrofit kit that can be used in conjunction with your existing water heater.

The heat pump unit should be installed where there is sufficient ventilation, and where there is access to a drain to accommodate the moisture it extracts from the air. In addition, do not install the unit in a room with less than 100

square feet of floor area or where it might be exposed to freezing temperatures.

- **Turn** the water heater off when you are leaving for extended periods of time. Remember though that when you return from vacation there will be extra cleaning and laundry.

- **Drain** the tank if you are going to be gone and the water heater is to be shut down during freezing temperatures. If you plan to drain the heater, be sure the electricity to the unit is shut off and the water line to the heater is closed. Also, leave the drain valve open.

- Do as much laundry as possible with **warm** or **cold** wash cycles. **Always** use cold water for rinse cycles. **Wash** full loads when possible. When smaller loads must be washed, **adjust** the water level accordingly.

- Operate your automatic dishwasher with **full** loads only.

- **Never** leave hot water running unnecessarily. When washing dishes by hand, put the rinse water in a pan or second sink. Never allow the water to run continuously to rinse each item.

- **Always** use cold water to flush away food in your sink waste disposer. The cold water will help solidify grease so the disposer can chop it into fine bits. The grease stays soft and coats the disposer and drain pipes if you use hot water.

- **Install** flow restrictors in faucets and showerheads. **Close** the drain when shaving instead of letting the water run continuously.

- **Repair** leaking faucets. They cost you money in water down the drain and in electricity required to heat the water that is lost.

Water and Energy Loss Due to Leaking Faucets

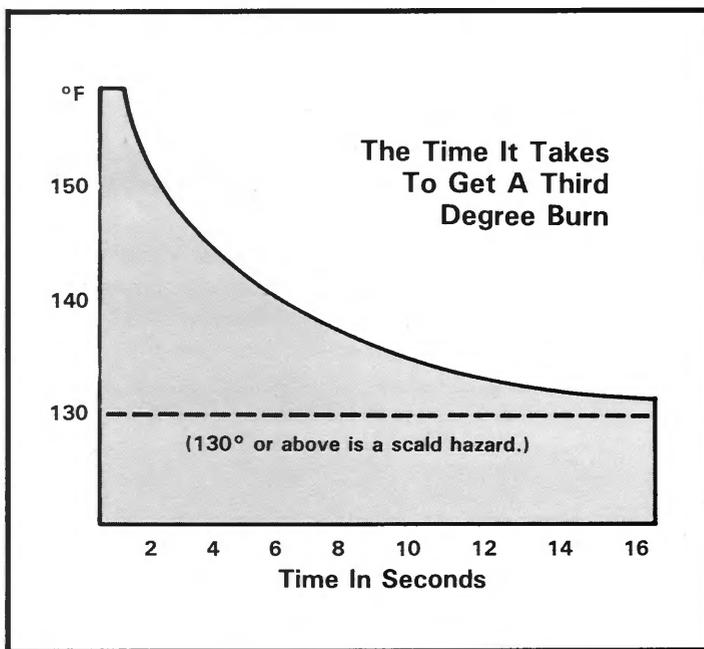
Drops per minute	Gallons per month	KWH per month
60	192	48
90	310	78
120	429	107

- **Flush** sediment build up from the bottom of your water heater about once a month by drawing several buckets of

water from the tank through the faucet located at the bottom of the water heater tank. The sediment, lowers the heater's efficiency and wastes energy.

Reducing Water Heating Costs

- **Check** the temperature setting of your water heater. Many water heaters are set too high. For a home with a dishwasher, a setting of 140°F should be used. A lower setting won't dissolve all the detergent and you can end up with dishwasher problems. Without a



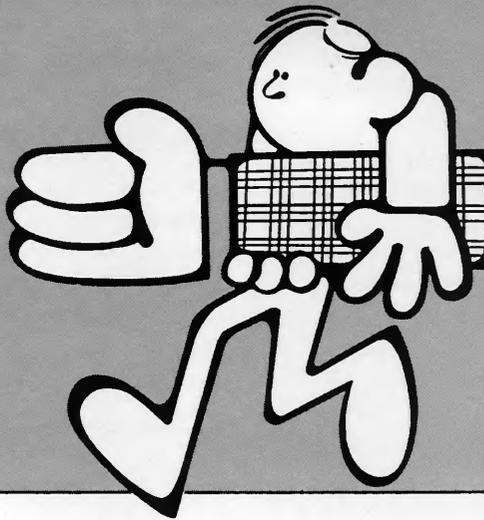
dishwasher, a setting of 120°F should be adequate.

To test the water temperature, let the tap water run for three to four minutes. Then, use a thermometer to test the temperature. If it registers higher than the temperature you want, lower the setting on the water heater. Repeat the test the next day.

To lower the temperature on the water heater you should first turn the power to the water heater circuit off. Either remove the fuses or turn the breaker off. Remove the access panel(s) from the water heater and turn the thermostat(s) to the desired setting. If the water heater has two elements, there will be two thermostats. Both should be set on the same temperature.

Besides saving energy, lowering water temperature can prevent serious burns. Tap water at 156°F can cause a third-degree burn in just one second. Even 130°F water can cause a third-degree burn in 16 seconds.

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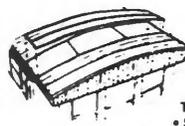
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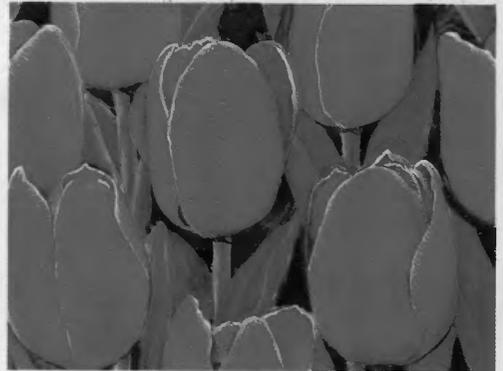
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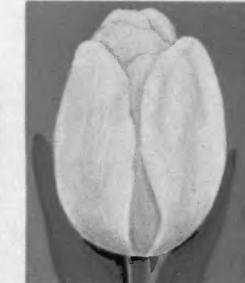
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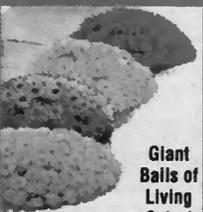
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