

How to cool your hot water costs

Your electric water heater is a large part of your total electric bill. But there is an economical way to reduce this cost. You see, the more insulation your electric water heater has, the less energy it uses, and the more money you save. Your water heater already has some insulation between the tank and outer metal cover. But it'll pay you to wrap another layer of insulation around it. The cash outlay is so little and the payback is so rapid, you'll recover your costs in a few months. After that, you'll enjoy lower hot water costs for the life of the appliance.

In the average home between 35 percent and 50 percent of total water use is hot water.

ESTIMATED WATER USE

A. Tub bath	10-15 gal.
B. Shower (under 5 min. duration)	8-12 gal.
C. Automatic washer	25-35 gal.
D. Automatic dishwasher	11-16 gal.
E. Hand wash dishes (each time)	9-14 gal.
F. Shampoo	5-7 gal.
G. Cleaning	3-8 gal.
H. Food Preparation	5 gal.

AVERAGE HOT WATER USED PER DAY

2 adults — 1 child	—60 gal.
2 adults — 2 children	—70 gal.
2 adults — 3 children	—80 gal.

Cost of Operation

- Approximately 17 percent of the total-electric bill of an all-electric home goes to water heating.
- About 47 percent of the total-electric bill for the all-electric home without electric heat is for the electric water heater.

Standby Heat Loss—Water Heater

- Standby heat loss varies on water heaters depending on the location, the size of the heater and the amount of insulation used.
- Average standby losses vary from 4 watts per sq. ft. to 7.9 watts per sq. ft., depending on the thickness of insulation used.
Square feet of tank area averages about—
26 sq. ft. for a 50-gallon heater
30 sq. ft. for a 66-gallon heater
36 sq. ft. for a 80-gallon heater

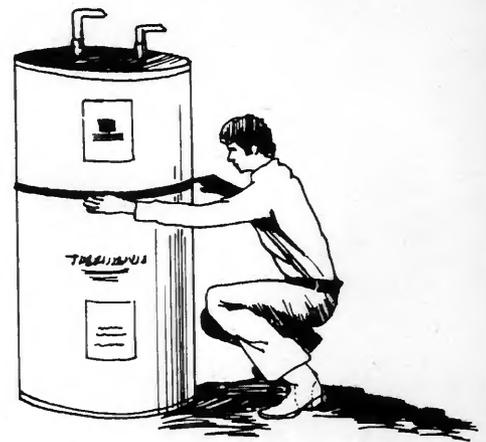
Insulation

- Most tanks on electric water heaters are fitted with 1" of fiberglass or mineral wool insulation.
- Wrap jacket of electric water heater (top/sides) with batt insulation. Cover joints with tape. Increasing insulation 3" to 5" will save from 5 percent to 11 percent in standby heat loss.

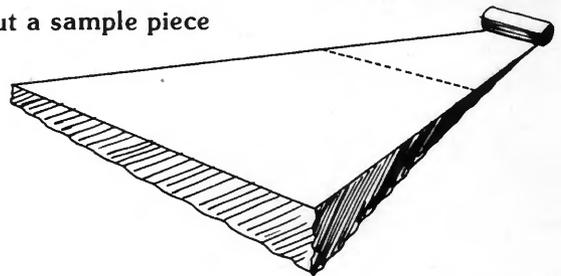
Materials needed:

- 3½" R-11 blanket type
- Duct tape
- Scissors or knife
- Tape measure

A. Measure



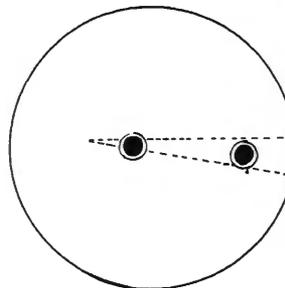
B. Cut a sample piece



C. Place around heater.



D. Cut piece for top



CAUTION:
Don't cover pressure relief valve with insulation.

Electric water heater efficiency notes:

- Before insulating, check the thermostat setting. It shouldn't be above 150 degrees.
- Wait until you have a full load before running the automatic dishwasher or clothes washer.
- Don't leave hot water running while handwashing dishes or shaving.
- Use warm or cold water when possible for clothes washing, and always use cold water for rinsing.
- Take short showers or shallow tub baths.

Reproduced from TVA material.

Dennis Keiser, AIEC Energy Utilization Specialist, works with electric cooperative personnel in matters relating to energy conservation, insulation and energy efficiency.



Energy conservation policy now an REA loan requirement

Changes in loan-making policies of the Rural Electrification Administration now call for each REA-financed electric cooperative to develop energy conservation policy and to implement it with adequate staff and funding.

"These policies suggest guidelines for rural electric systems to use in developing energy conservation programs," Agriculture Secretary Bob Bergland said, "but the basic decisions on how to carry out the programs will be left to the individual cooperatives." REA Administrator Robert W. Feragen added, "Evidence of such activities will be included as part of REA's loan application procedures."

A related REA policy developed in conjunction with energy conservation is one that outlines guidelines for rural electric systems to use in obtaining information for system planning and for forecasting REA loan fund requirements.

"These new policies were developed after extensive review of the energy conservation programs of more than 250 electric utilities," Feragen said, "and incorporate many of the suggestions received by REA from its borrowers."

(REA makes loans to finance electric and telephone facilities in rural areas, enabling more than 1,000 REA-financed systems—including 30 in Illinois—to provide service to over

29 million people in 46 states, Puerto Rico and the Virgin Islands.)

Alex Mercure, Assistant Secretary of Agriculture for Rural Development, said the REA conservation efforts are extensions of those of the Carter Administration and are not aimed at bringing about immediate reductions in the amount of power being provided to electric cooperative members. Instead, he said, the efforts are thought to be means to forestall the construction of major new generating projects through elimination of energy waste.

Delaying through energy conservation the need to add

“. . . the basic decisions on how to carry out the programs will be left to the individual cooperatives.”

additional generating plant capacity can have an impact on slowing the rate of increase of consumer electric rates, since generating plant construction is one of the most significant factors affecting rates.

The heart of the REA policy on energy conservation is the guideline that a cooperative made up of 4,000 or more members should have one

person working full time (or the equivalent time of several persons) to assist members to conserve energy. "If a cooperative has more than 4,000 members, the man-hours devoted to energy conservation should be appropriate to its work plan and objectives and consistent with the greatest number of members. This guideline would not require a cooperative of 16,000 to have four people working full time. It would require, however, an allocation greater than the time of one person," Feragen outlined in a memo. For cooperatives with less than 4,000 members, REA will give consideration to the pooling of resources with other organizations.

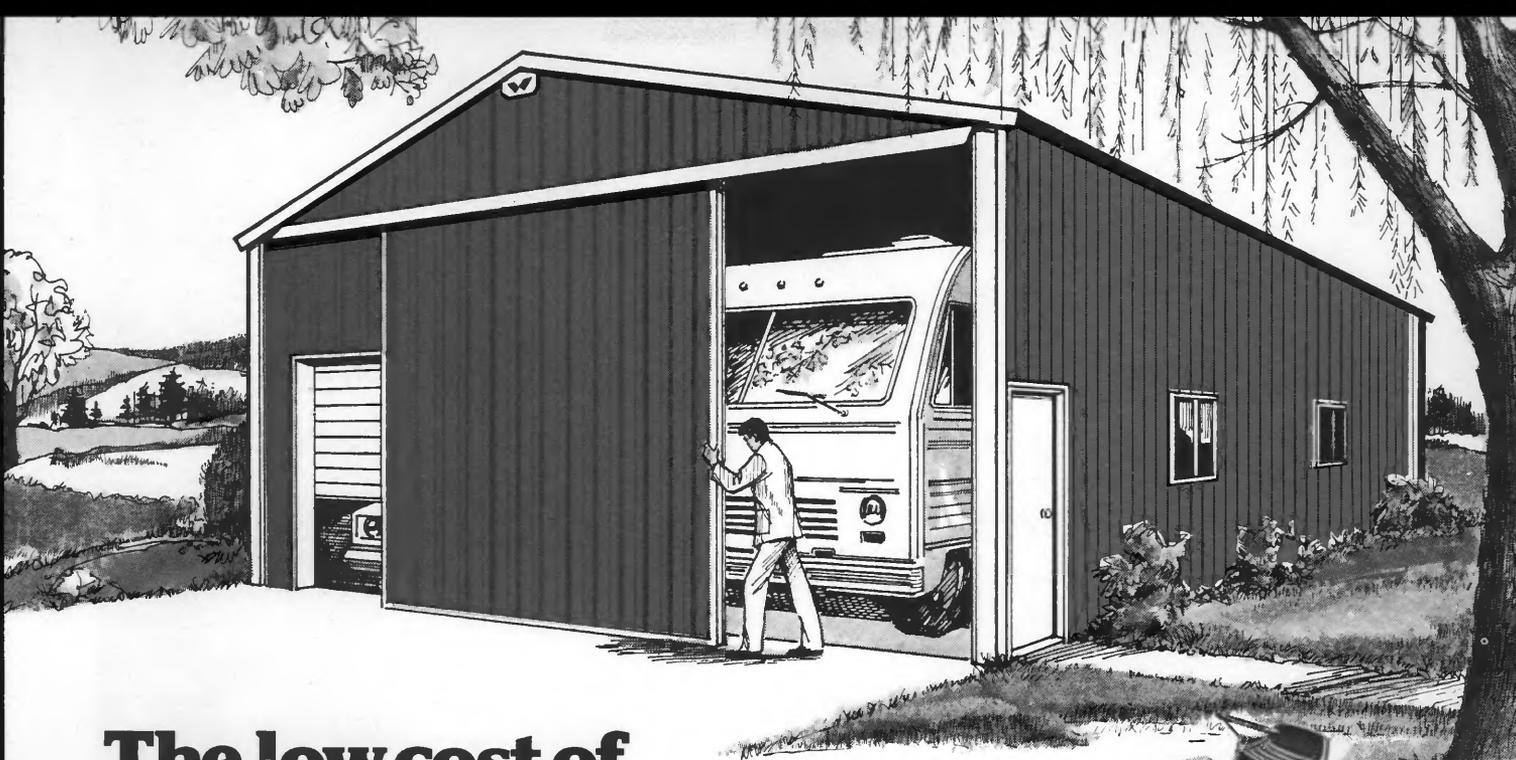
Future loan applications must include the following.

- a copy of the board's energy conservation policy,
- a report of borrower's effort to conserve energy in the operation of its headquarters and facilities, and
- a report describing the efforts of the borrower to assist its consumers to use energy most efficiently.

While the REA energy conservation guidelines are new, the emphasis on member awareness of wise, efficient use of electric energy has long been a top priority for electric cooperative staffs. And for many cooperatives, conforming to the new policy may

(Continued on page 24)

ILLINOIS RURAL ELECTRIC NEWS



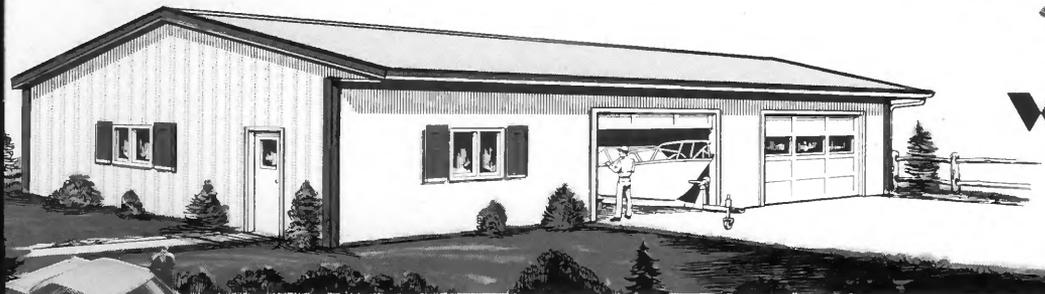
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RURAL ELECTRIC CONVENIENCE COOPERATIVE CO.

217-438-6813

AUBURN, ILLINOIS

Power use, member service conference provides valuable information for consumers

Providing members of Rural Electric Convenience Cooperative with information they need to achieve the most efficient utilization of electricity—and save money—is one of the principal objectives of your cooperative.

Like other cooperatives in Illinois, RECC devotes trained staff to gathering and distributing this vital information. In some instances, we use our regular publications—the center section of the *Illinois Rural Electric News* and the *Rural Highlights* newsletter—to advise our member-consumers of ways in which electric energy can be better utilized. Such general topics range from proper insulation to humidity control.

At other times, the RECC staff provides information especially for an individual member-consumer, such as specifications for properly sizing heating or air conditioning for a new home.

As energy costs continue their upward spiral, becoming increasingly aware of techniques, materials and equipment can help save energy and money.

Over the years, perhaps the most effective method of gathering and evaluating such information has been a semi-annual conference of power use and member service personnel of Illinois electric cooperatives.

The most recent such meeting, held during December in Springfield and coordinated by the Association of Illinois Electric Cooperatives, was attended by Wayne Fuchs, Director of the Member Services Department of RECC.

Chief topics on the agenda of that meeting were insulation standards,



RECC Member Service Director Wayne Fuchs, seated right, was among the group of power-use member service personnel attending the semi-annual conference in December.

electric rate structures and efficient use of electricity.

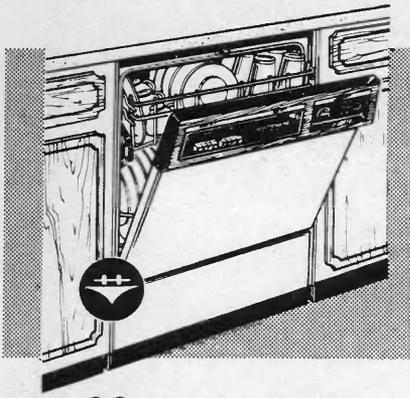
During the two-day session, nearly 30 electric cooperative staff members with responsibilities similar to those of Fuchs heard speakers discuss the changing technology of insulation and focused on methods in which they could help their cooperatives' members make sure they get the most insulation for the money.

One speaker, representing a manufacturer of cellulose insulation, updated the advisors on the various industry specifications relating to cellulose insulation.

Another topic, which was of major interest to the conference participants, was energy conservation in mobile homes. The cooperative personnel

talked with an official of the state manufactured housing association to determine what the industry was doing to improve the energy-saving qualities of mobile homes.

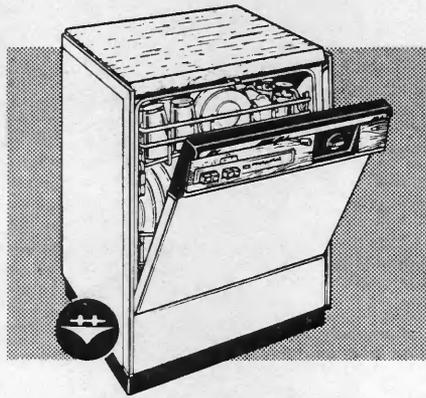
The December program, which also included presentations on the future of energy sources and the state's efforts in energy conservation, was typical. Developed by the Member Services Department of the AIEC, the conference is presented with the purpose of providing educational and knowledgeable speakers in order to develop practical take-home ideas and techniques that will be most beneficial to the power use-member service staff in accomplishing the task of explaining and communicating methods of efficient energy usage.



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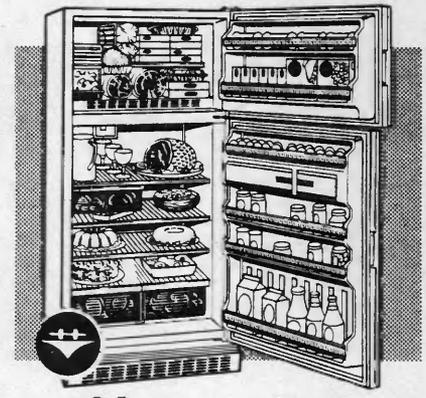
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- Energy Saver Dry, Short Wash, and Rinse & Hold Cycles
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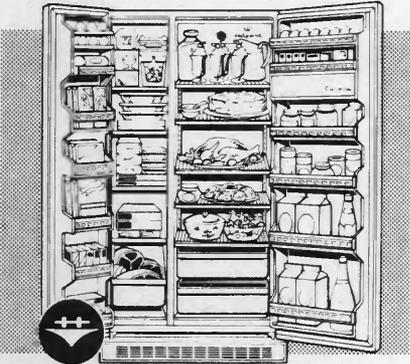
Model HDB720



Hotpoint

- 17.8 Cu. ft. refrigerator-freezer
- 3 Adjustable shelves
- Energy Saver switch
- Reversible door
- Equipped for optional icemaker
- Meat keeper
- Rolls-out on wheels.

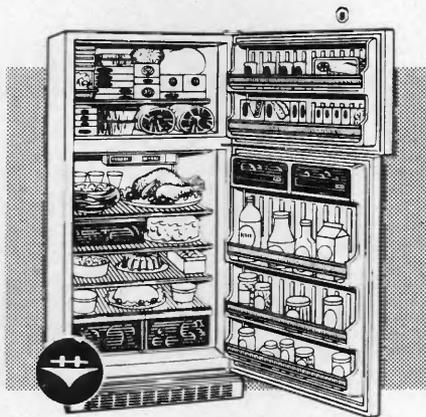
Model CTF18EW



Hotpoint

- 18.9 Cu. ft. side-by-side refrigerator-freezer
- 4 Adjustable shelves
- Energy Saver switch
- Equipped for optional icemaker
- Conditioned meat keeper
- Rolls-out on wheels.

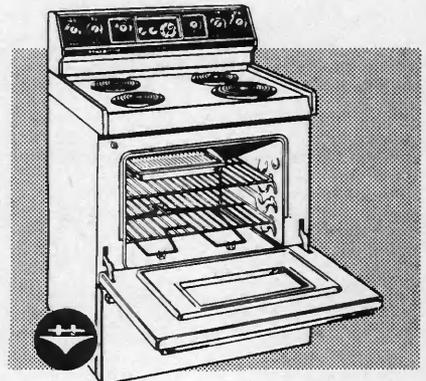
Model CSF19EW



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- 20.7 Cu. ft. refrigerator-freezer
- Adjustable meat keeper
- Power-Saver switch
- 3 Adjustable cantilever shelves
- 3 Easy-Release™ ice trays.

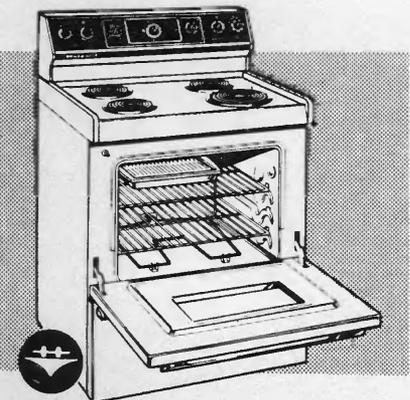
Model CTF21EV



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- 30" Standard oven-range
- Automatic oven timer
- Surface unit "on" light
- Stay-up Calrod® Surface units
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- Window door.

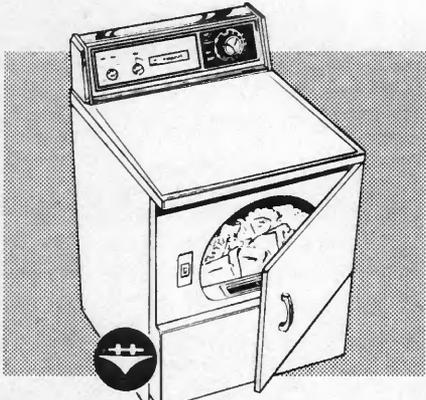
Model RB536T



Hotpoint

- 30" Easy-Clean oven-range with window
- Clock
- Timer
- Calrod® surface units with "ON" light
- Oven interior light.

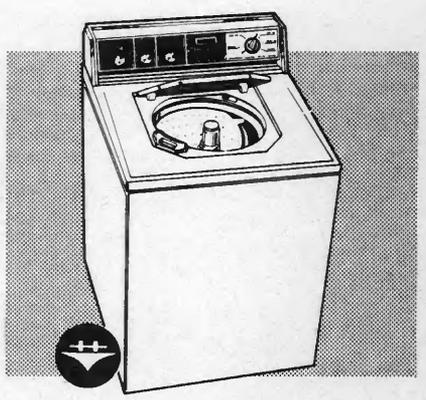
Model RB528T



Hotpoint

- Solidly-built permanent press dryer
- Automatic Sensi Dry™ or timed cycle feature
- Poly knits cycle
- Porcelain enamel finish drum
- Up front lint filter.

Model DLB6850P



Hotpoint

- Deluxe 2 speed washer
- 3 Water level options
- Bleach dispenser
- Gentle cycle for permanent press and poly knit fabrics.

He has worked with solar for 15 years

(Continued from page 9)

ice fall on it, just like it does on the glass ones. We're researching it out carefully, just like we do everything. You have to research carefully, because the manufacturers give you the top side. They don't lie to you, but they tend to give you facts based on optimum conditions.

"It's not good for the consumer if something goes wrong," he says, "and it wouldn't be good for us to have to go back and make the job good, which is exactly what we'd do. That's why we want to do it as well as possible. To protect us and the consumer."

The plastic is being used on one Solar 'Search product, though, he notes, and that is a portable, multi-use collector, which is to be mounted on a

"It's not good for the consumer if something goes wrong. That's why we want to do it as well as possible."

trailer, for farm applications. The idea is to use it for low-temperature grain drying in the fall, then possibly to heat a machine shed during the winter, and possibly for livestock buildings, too.

"It will be a simple, ready-to-use system," Warnock says, "just a big collector mounted on a trailer and with a flexible hose that will need to be plugged into whatever needs to be heated, and an electrical connection for the blower motor. We're all ready to go with the setup," he laughs, "but we don't have the trailer yet. Somewhere out there, there's a snowbound trailer that's going to hold our dryer. We'll get it out as soon as the weather permits."

In the meantime, work goes on, to build collectors and to research even better materials and methods, and to finally perfect the install-it-yourself system, including water heater, for under \$3,000.

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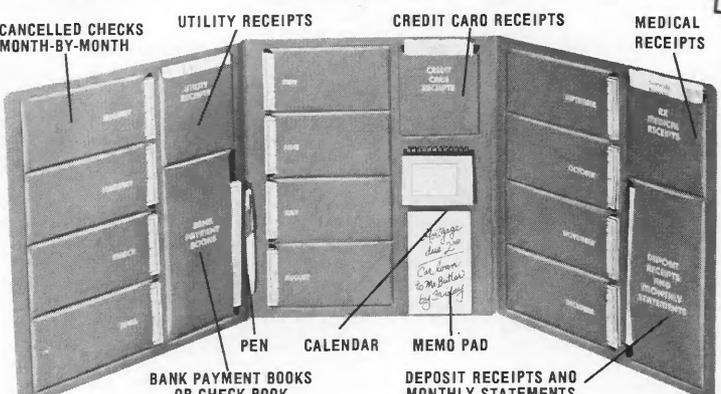
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In the picture the construction crew is making the final inspection for hy-potting each phase of the first 10 miles of underground installed for the south feed out of the Glenarm substation.

This cable has to withstand 53,000 DC volts to pass the specifications for underground electric distribution. This is about seven times more than the 7,200 volts connected to the substation.

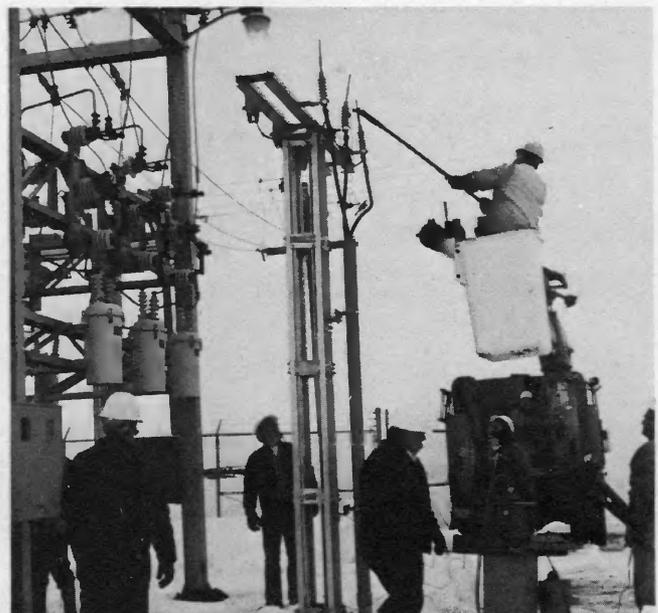
Your cooperative purchased the best wire available for this project. The size of the primary wire is 4/0 with the same size neutral.



Reading the testing equipment on the test.

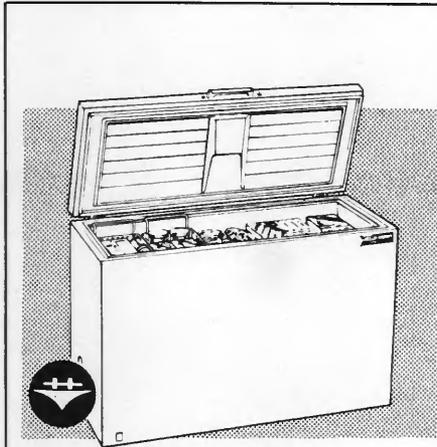


Inspecting the procedure are, from left to right: Roy D. Goode, manager of your cooperative; Richard J. Fairchild, consulting engineer with Rural Line Engineers, St. Louis, Missouri; Albert Becker, Jr., lead lineman of your cooperative who has been the field inspector throughout the installation of the underground cable and James O. Killam, line superintendent of your cooperative.



A construction crew member prepared to connect the hy-potting line to one phase.

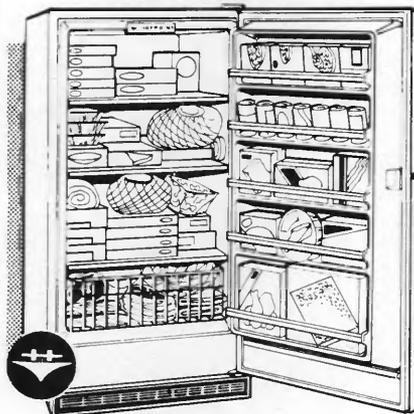
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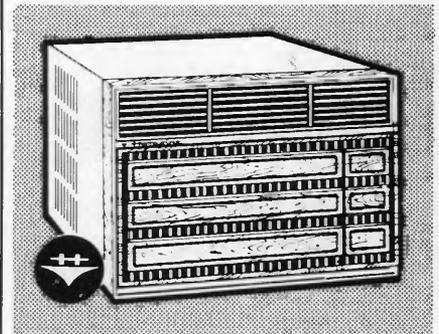
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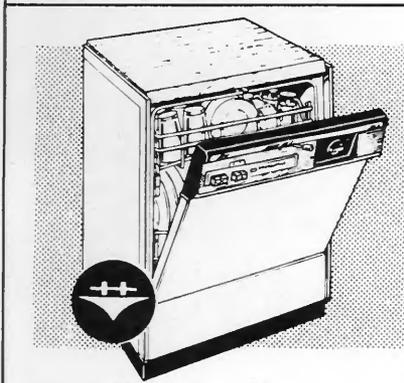
Model FV16CW



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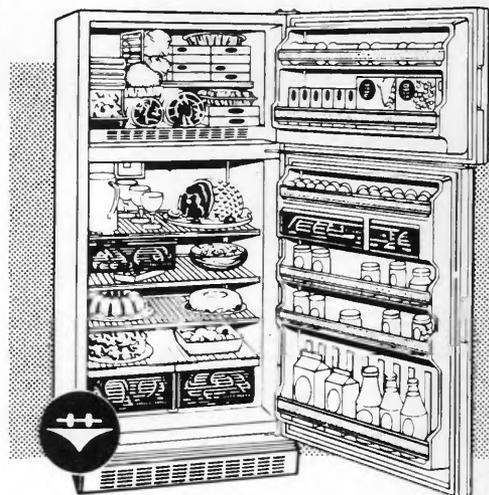
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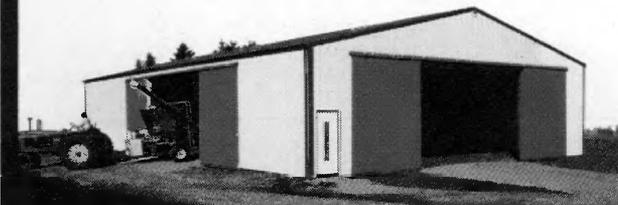
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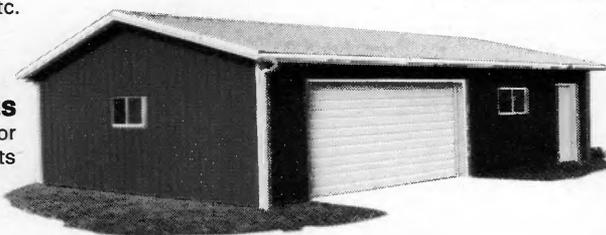
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RURAL ELECTRIC CONVENIENCE COOPERATIVE CO.

217-438-6813

AUBURN, ILLINOIS



Every 1,300 feet the neutral wire in the cable has to be connected to a ground rod. This connection is being made by L. E. Myers Co. workmen. There are three 10-foot



copper ground rods driven into the ground along the side of the cable that is already four feet in the ground. Also you see a new pole set for a member service.

Long winter, wet spring delayed progress

Underground work under way again

The L. E. Myers Co. underground construction crew returned in late April to complete the 21 miles of three-phase underground feeder lines of their contract. Due to the long winter and wet spring they were not able to return to work any sooner.

After completion of four miles of

wire yet to be buried, they will perform high-voltage tests of all the underground feeder lines to make sure there is no leakage in the installation before connecting the 7,200 volts of current to the feeder lines leaving the substation. After this is done, members living along the buried cable

line will be transferred to the underground system. When the transfer has been made, the overhead poles and line will be removed. The only poles seen along the underground service will be the ones for the services to the members.

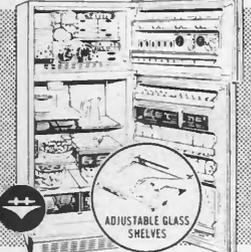
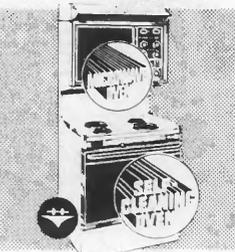
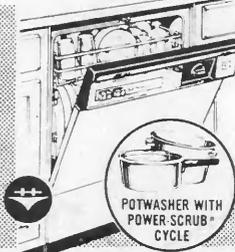
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 <p>PRICE CUT ON HOTPOINT'S BEST COUNTERTOP MICROWAVE OVEN!</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="423 1323 501 1428">  <p>SOLID STATE TOUCH CONTROLS</p> </div> <div data-bbox="517 1323 580 1428">  <p>COOK FAST BY TEMPERATURE WITH AUTOMATIC CONTROL SENSOR</p> </div> <div data-bbox="595 1323 658 1428">  <p>COOK FAST BY TIME WITH THE DIGITAL TIMER</p> </div> <div data-bbox="674 1323 736 1428">  <p>COOK SLOW WITH THE AUTOMATIC SIMMER</p> </div> </div>		

Hotpoint

Rural Electric Convenience Cooperative
Auburn, Illinois

At right, the focus is on the best in Illinois agriculture as several breeds of cattle are judged at the fair. Other animals, such as poultry, swine, mules and sheep, are judged as well during the largest agricultural exposition of its kind in the U.S. At lower left is the arch to the popular midway, near the main gate. At lower right, while most of the fairgoers walk, others take to the air to get across the fairgrounds and see the sights. The area is filled with entertainment, exhibitions, special tents and contests that all Illinoisans can enjoy.



State Fair offers something for all Ill

The Illinois State Fair is set for August 9-19, and all the old standby features are still planned; some new attractions are in the works, too.

Illinois Talent on Parade, a daily variety show, will present the best talent from throughout the state. It will feature Illinoisans of all ages in every kind of act, and will be held

in the Illinois Building Theater.

Racing buffs will be able to "Get the Feel of the Wheel," as cars of every description, displays and well-known drivers fill this huge exhibition. Fans will be able to talk to drivers and crew members, and climb into a car to catch the flavor of the track.

A Water Follies show is new this year, too, and the world's largest

pools and stage are used to present the show. Champion stunt divers, water ballet scenes and lavish stage production numbers will make this two-hour show an attraction for many.

For alternative energy enthusiasts, there will be a Solar Hot Water Design Competition. The Institute of Natural Resources and the Illinois Office of Education have joined forces to



At the right, Len Koch of Illinois Power Company was one of the speakers during the two-day session. Below, power use and member services representatives gather pamphlets and brochures on energy conservation and efficiency available during the meeting.



Member Services Director of Jackson Purchase Electric Cooperative, Paducah, and Krista Kennedy of Western Kentucky Rural Electric Cooperative and a Residential Energy Advisor for the Tennessee Valley Authority. Norris focused on his cooperative's energy conservation and management plan and the various forms and worksheets used to complete home energy audits. Kennedy outlined how TVA personnel work with consumers for on-site inspections and audits.

Bill Simpson of Country Mutual Insurance Company, Bloomington, used a slide presentation to illustrate wiring problems facing both farmers and insurers. He showed several instances of inadequately wired hog confinement buildings, many of which had a high potential for fire loss unless changes were made.



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RURAL ELECTRIC CONVENIENCE COOPERATIVE CO.

217-438-6813

AUBURN, ILLINOIS



Lincolnwood High School

An invitation—

Come to your cooperative's annual meeting

Stanley Otten, president of your cooperative's board of directors, will conduct the 1979 Annual Meeting of Members of August 25, 1979, at Lincolnwood High School, Raymond, Illinois.

There will be something new and different this year—registration will start at 7:30 a.m., with a free breakfast served to the members from 7:30 to 9:30 a.m.

There will be a Craft Fair, small appliance sale, Early Bird award, gifts and entertainment for the children.

The business meeting will be called to order at 9:30 a.m., ending at 11:45 a. m. with the drawing for the grand prize. Three directors will be elected to the board during the business meeting.

We'll be looking forward to seeing you, the members, August 25, at Lincolnwood High School, Raymond.



Roy Goode, Manager



Stanley Otten, President

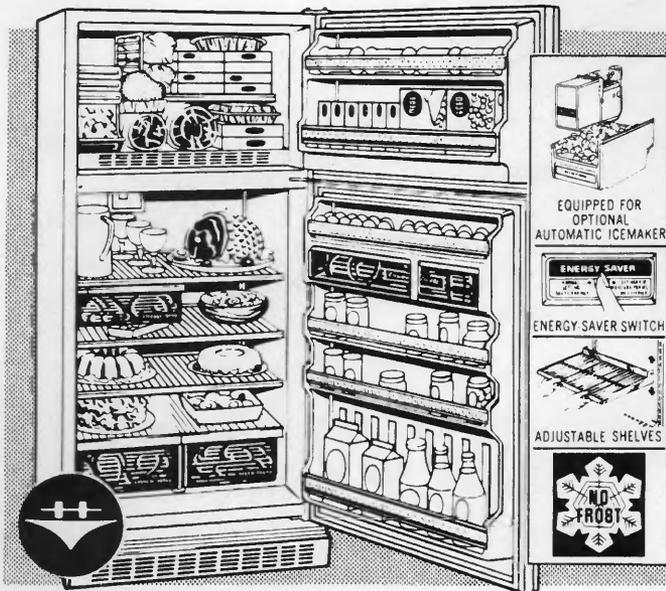


Craft Fair

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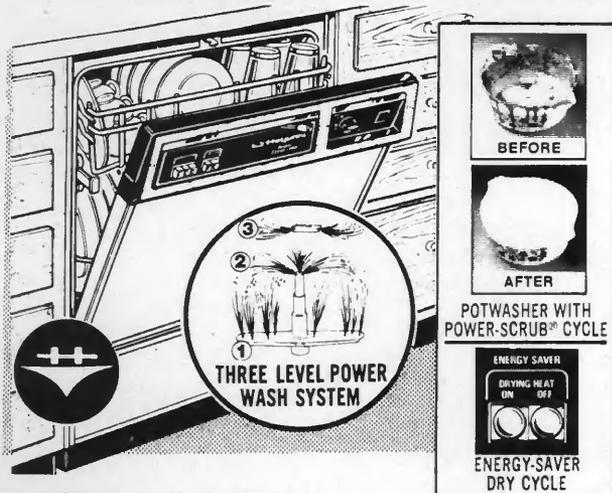


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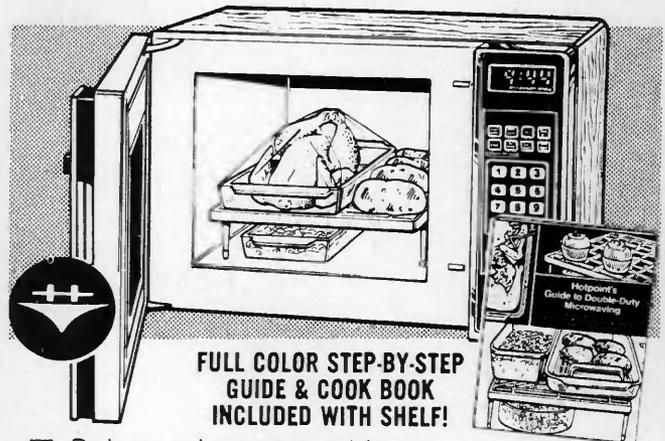
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Rural Electric Convenience Cooperative, Auburn, Illinois



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RURAL ELECTRIC CONVENIENCE COOPERATIVE CO.

217-438-6813

AUBURN, ILLINOIS

Rate adjustment in the future

Inflation, regulations, conservation, ravages of storms, and extraordinary expenses continue to be situations that your board of directors must cope with.

Do you realize that you paid less per kilowatt-hour the first seven months of 1979 as compared with the same period of 1978? Did you know (if you are "average") that you used less electric energy so far in 1979 than you did in 1978?

What other form of energy has actually reduced in price? I am sure you won't be able to think of any.

Your cooperative has not had a rate increase for two years.

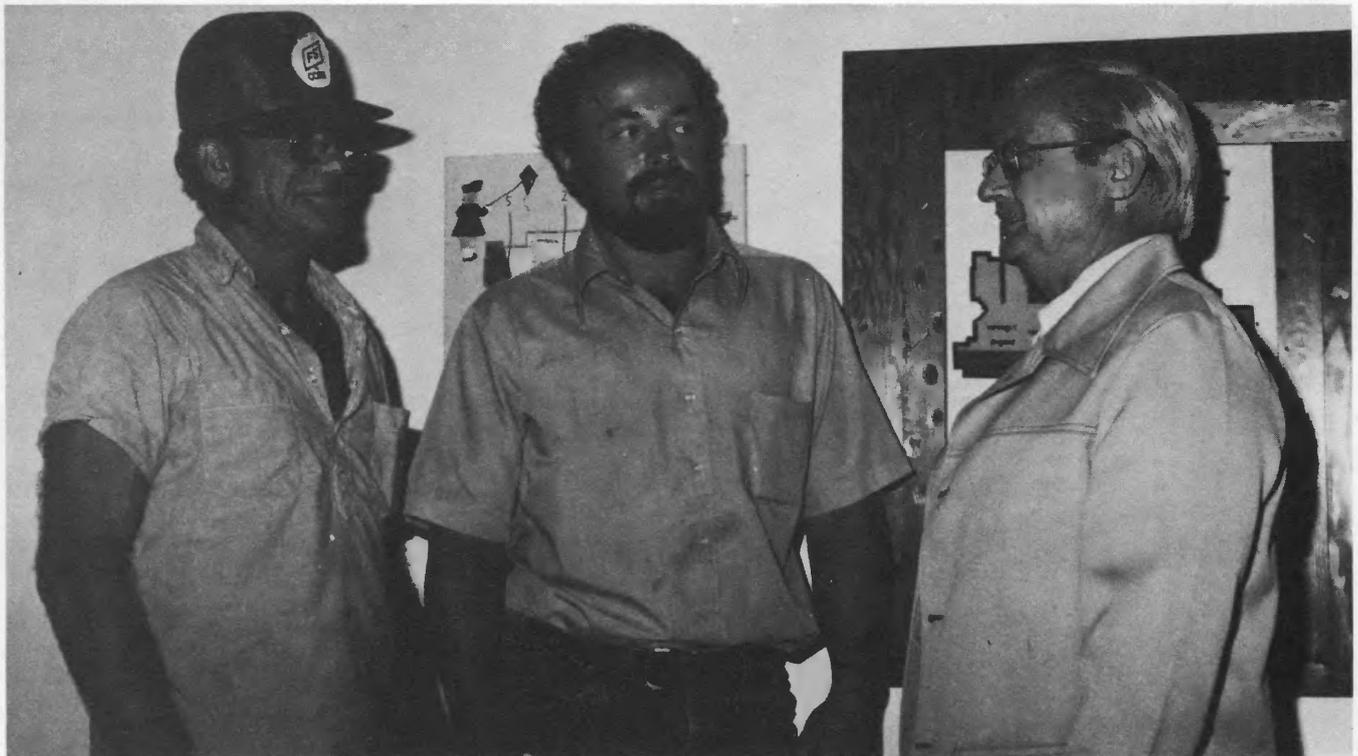
It is with regret that your board of directors announces that an adjustment in rates is necessary.

You remember the ice storm of 1978. You know what inflation and regulations have done to most commodities, especially energy. It was necessary for your cooperative to borrow more than \$4-million to repair ice storm damage. Debt service on this unanticipated huge amount of money has nearly doubled your interest costs.

This unexpected expense has added to the already mounting costs.

Power costs are a factor over which your board has little, if any, control. Your cooperative purchases power for distribution to members. An increase in the power cost your cooperative pays is expected. It is anticipated that these costs will continue to escalate.

Your electric rates will be adjusted with your November billing. You can be sure these adjustments or increases will be held to a minimum.

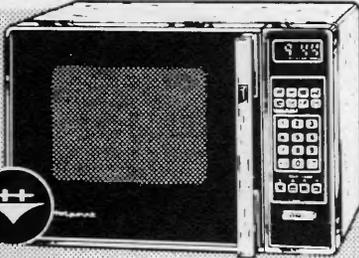


Manager Roy D. Goode congratulates Gerald Humke, crew foreman, and Louis Delaby, journeyman lineman, upon completing a Red Cross First Aid course which qualifies them as First Aid Instructors. These men are now able to instruct the local community and other cooperative personnel in first aid procedures. Our congratulations to Gerald and Louis for successfully completing this valuable training.

Hotpoint

Holiday

Gift Sale



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COOK FAST BY TIME WITH THE DIGITAL TIMER

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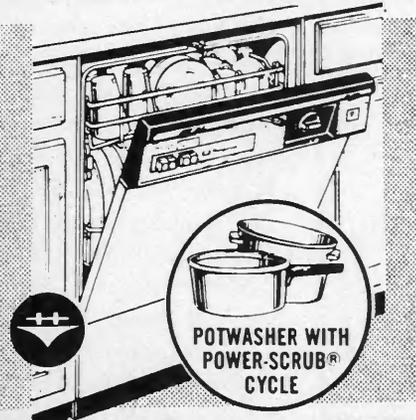



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POTWASHER WITH POWER-SCRUB® CYCLE



MICROWAVE TUTOR

SELF-CLEANING OVEN



McDonald

Former REA official

McDonald selected new IVEC manager

Thomas R. McDonald, interim general manager of Illinois Valley Electric Cooperative since August 6, has been named general manager of the Princeton-based electric distribution cooperative.

McDonald replaces M. M. Jontz of Princeton, who retired effective August 10, after 21 years service as manager of Illinois Valley. Prior to his appointment in 1958, the Princeton native was general foreman for the cooperative.

McDonald retired on October 6, 1978, after a 28-year career with the Rural Electrification Administration. At the time of his retirement, he was the assistant administrator for the electric program, assisting the REA administrator in conducting the rural electric loan program on a national basis.

A native of Cedar Rapids, Iowa, McDonald graduated from Marquette University, Milwaukee, Wisconsin, in 1949 with a degree in electrical engineering. In 1955 he received a law degree from Blackstone College of Law in Chicago. He is a registered professional engineer. He joined the REA staff as an engineering trainee in January 1950, and served in various capacities throughout the nation, including 10 years in field positions. He was an assistant power supply officer for six years and in 1970 was appointed chief of the Engineering Branch, North Central Area—Electric. The North Central Area includes Illinois, Wisconsin, Ohio and Iowa.

Illinois Valley Electric Cooperative provides electric service to more than 5,500 member-owners residing in Knox, Bureau, Putnam, Stark, LaSalle, Marshall and Kendall counties.

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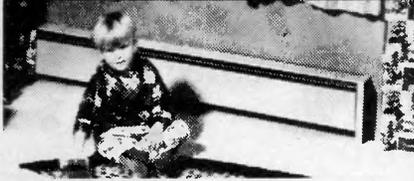
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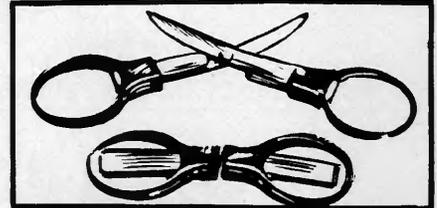


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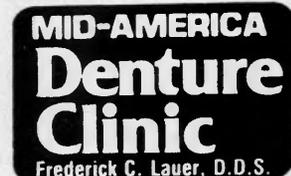
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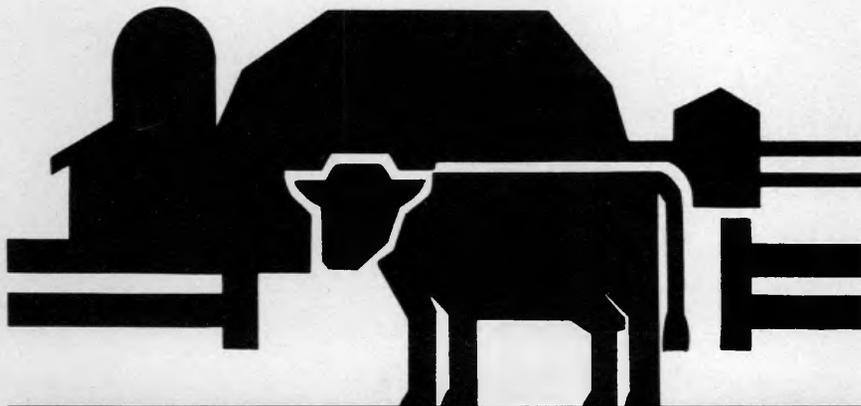
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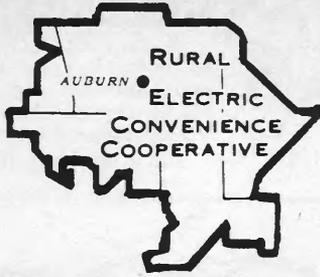
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Rural Highlights

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RURAL ELECTRIC CONVENIENCE COOPERATIVE CO.

217-438-6813

AUBURN, ILLINOIS

Grain drying units growing larger

Today most farmers are drying their grain on their farms. Many different types of grain drying set-ups are being used to meet their demands.

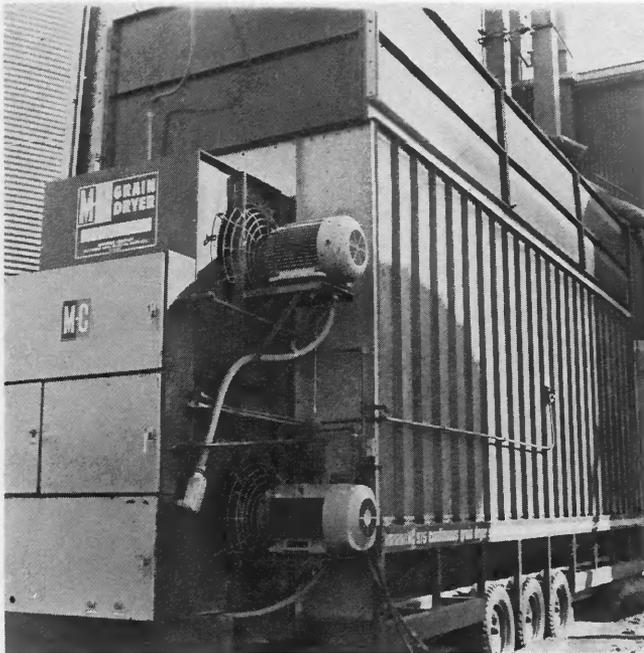
The size of the drying set-up depends on the number of bushels of grain that have to be dried and the

time in drying hours that they have available to them.

Throughout your cooperative service area more and larger drying operations are being installed each year. This requires more power and energy. Many electric motors are being

used in these installations. Just a few years ago a 10-horsepower motor on a fan seemed large, but today some are installing 100-horsepower motors.

In the picture below, you can see the power and energy that is required in a grain drying set-up.



Electric motors (above) perform tasks during grain-drying time, reducing considerably the costs associated with using large tractor-driven units (above right). Aiding the drying process for one cooperative member is a solar assist (right).

