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There is nothing new about infrared heat. Doctors and therapists have used and recommended it for years in pain treatment. But until now, there hasn't been a compact, easy-to-use unit.



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In fact, William J. Shriber, MD notes in his respected "Manual of Electro Therapy" THAT MILD INFRARED RADIATION MIGHT BE THE ONLY WAY TO RELIEVE PAIN WITHOUT THE USE OF MEDICATION.

Why take medication when it isn't needed? INFRALUX is the most natural route to pain relief.

HOW THE INFRALUX WORKS.

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"I have used the unit in my practice for six months and I find it relieves pain and muscle spasms, stiff shoulders and elbows from bursitis and tendonitis. Patients suffering from arthritis use the InfraLux in the morning and get excellent results." J.L.G., MD

"On patients with a variety of muscle-skeletal painful conditions, InfraLux was demonstrated to be effective in relieving pain." V.S., MD



sure to pack it for out-of-town trips. You can enjoy soothing relief wherever, and whenever.

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INFRALUX is only \$39.95 (plus \$2.85 shipping and handling). To order, simply send your check to Baystar at the address below. Credit card holders can speed their delivery by using our toll-free number. (Maryland residents add 5% tax.)

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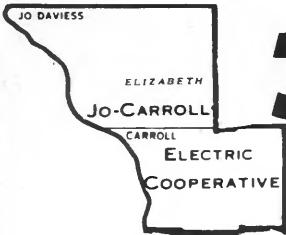
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Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc. Elizabeth, Illinois

815 858-3311

Schlichting new Jo-Carroll director

Election of three area residents to the board of directors and reports of officers highlighted the 43rd annual meeting of Jo-Carroll Electric Cooperative Saturday, December 4, in Mt. Carroll.

Elected to his first term on the board of directors was Roger Schlichting of Apple River, who replaces long-time director Gotthilf (Gus) Haas of Elizabeth, who moved from the cooperative service area. Leonard Ricke of East Dubuque and Clarence Glasker of Hanover were reelected to three-year terms on the board.

Schlichting, 47, is a lifelong resident of the Stockton area, and graduated from Stockton Community High School. He has farmed in the Thompson Township area for several years. He and his wife, Marilyn, have three

children: Renee, 26; Andrew, 17 and Lisa, 14.

Officers' reports reflected the impact the nation's economy is having on the cooperative. "I am completing my eighth term as president of your cooperative," reported Vernon Law of Savanna, "and each year I find that the operation becomes more of a challenge to your manager and board.

"As inflation continues to rise, your cooperative board has implemented every procedure possible to control costs. However, today we are replacing — at \$350 each — poles that once cost \$100. There is no way to stop the continued updating of our system."

Law expressed a concern many electric cooperative leaders are faced with: continued access to Rural Electrification Administration (REA)

financing, which some persons in the Reagan Administration have attempted to curtail.

"History indicates that the rural electrification program has been able to maintain the revolving fund, which is kept intact by repayments of interest and principal amounts on funds borrowed by individual cooperatives. Thus the impact on the federal budget is minimal," he concluded.

Manager Gary Stuva reiterated that 1982 had been a difficult year, but that a REA loan for the construction of a new headquarters building had brightened things somewhat. "The board, management and employees of the cooperative worked hard to accomplish the goals of supplying adequate and reliable service to our members at the most reasonable cost possible. Inflation and interest rates were at all-time highs, and the resulting effect on the cooperative and its consumer-members reflected the move into the new costly energy era. Conservation and efficient use of all forms of energy became a necessity, not just a practice, as energy costs became a more substantial share of the family budget."

Stuva noted that Jo-Carroll was attempting to assist its membership with their energy costs by reducing rates for those who agreed to have control devices on their water heaters, or who could take advantage of a dual-fuel interruptible heating rate.

The manager also announced the establishment of a meter reader program as a cost-cutting measure. "We have to read a large number of meters," he pointed out, "and this is done by our linemen, thus taking them off construction. Last year routine meter reading cost us in excess of \$40,000, and our studies show that we



Board President Vernon Law, left, presents a plaque to Gotthilf "Gus" Haas, a long-time member of the board of directors of Jo-Carroll Electric Cooperative. Haas retired from the board after moving out of the cooperative's service area, and the plaque was in recognition of his many years of unselfish service.



Top photo: Clarence Glasker, left, of Hanover and Leonard Ricke of East Dubuque were reelected to the board of directors at the meeting. Roger Schlichting, second from right, who was elected to replace Gus Haas, was congratulated by manager Gary Stuva. Clockwise from above; These youngsters got in on the work of packing lunches. Delta provided entertainment. Workers making sandwiches to fill the 750 boxes in the foreground. Working to empty the 750 boxes.

can generate a savings in that account by hiring part-time meter readers. We're doing all we can to keep costs down," he added.

At a re-organizational meeting of the board following the annual members' meeting, Law was reelected

president, Charles Flikkema of Lanark retained the vice presidency, Ricke continued as secretary, and Elmer Malon of Apple River assumed the office of treasurer, which had become vacant when Haas retired.

Entertainment was provided by

Delta, a singing group that performed several country-western numbers.

The Jacobstown Community Club, which has served the cooperative's annual meetings since 1949, packaged some 750 box lunches for those attending this year's meeting.

Agriculture outlook

Farm problems 'extend beyond the

There will be a lot more food in the world than people will eat this year and, because of that, American farmers are heading into their fourth straight year of depressed income.

The federal government isn't guessing what farmers will earn in 1983, since Agriculture Secretary John Block banned the traditional farm income estimates a year ago. But analysts at the Agriculture Department's annual Outlook Conference in December doubted net farm income would change much from last year's \$19-billion — more than \$13-billion less than just three years earlier.

As a result, rural areas that depend on agriculture will continue their economic suffering, say Department economists.

"Any improvement will come very slowly," said J. Dawson Ahalt, deputy assistant agriculture secretary for economics. He added, "These financial problems extend beyond the farm gate and affect farm suppliers and other farm-related businesses."

Specifically, crop prices have fallen to 1978 levels as the cost of producing

those crops continues to rise. Land, which farmers have traditionally been able to use as equity for loans to get them through hard times, has fallen in value during the last two years. Farmers' net cash flow decreased \$1-billion in 1982 to a five-year low of \$37-billion and the total farm debt jumped 10 percent.

The reasons for such depressing figures are complex as the world economy itself. Simply stated, there's a food glut. Experts expect that world grain reserves will reach a two-month supply this year, "the highest global stocks-to-use ratio in more than a decade," according to Ahalt. Nearly 60 percent of that surplus is in the United States.

Record production of some crops has come at the same time as a faltering world economy and a stronger dollar have made many countries unable to afford to import as much food, especially from the U.S. The volume of U.S. farm exports dipped two percent last year, but the value of those exports fell 11 percent as the oversupply depressed prices.

"Many of the problems that plagued us in fiscal 1982 unfortunately will not go away in fiscal 1983," said Alan Tracy, deputy under secretary for international affairs. He predicts that while farm exports will rise three percent this year, they will drop in value by four percent.

"The likelihood of a continued strong U.S. dollar, a weak global economic recovery, and smaller Soviet grain imports are likely to restrain the volume and value of U.S. exports," said Tracy.

The Reagan Administration hopes that continuing attempts to develop foreign markets through credit programs and overseas visits by sales teams will combine with a general economic recovery to boost farm exports and prices.

Martin Feldstein, chairman of the White House Council of Economic Advisers, said at last month's Outlook Conference that federal budget deficits expected to top \$150-billion would hurt U.S. exports. Heavy government borrowing forces more competition for credit, he explained, pushing up



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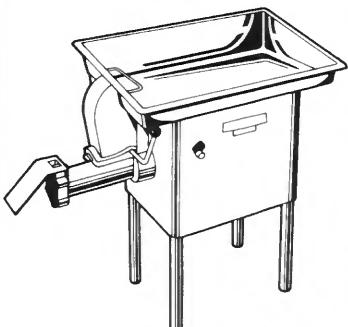
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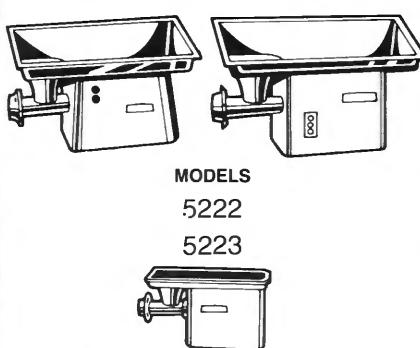
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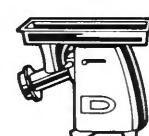


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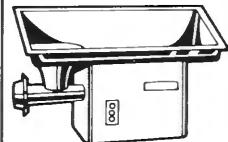
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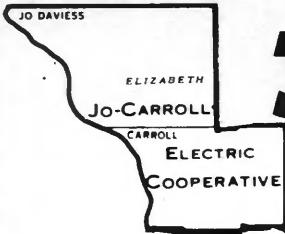
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Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311

Manager's Report

by
Gary
Stuva



I'm sure many of you have read or heard of the outcome of the vote authorized by the board to determine the membership's will concerning a new office/warehouse complex for Jo-Carroll Electric Cooperative.

By a vote of 932 to 450, the members have told their directors to proceed with the construction project for the erection of a new Cooperative office/warehouse complex on a six-acre site recently purchased in Elizabeth.

President Vernon Law of rural Mt. Carroll said the 1,401 mail surveys returned by the members represents the largest member participation response in the Cooperative's history. The survey came about in response to a members' petition to the board asking that a special meeting of the members be called to determine whether the members wanted the building project. Law stated that the directors had hoped to avoid the animosities of the past and the greater expense of the special members' meeting by polling the members by mail instead.

"Many of the members, both for and against the project, took the time to give us their opinions on the matter in depth," said Law, "and now the directors will take the time to read and consider each opinion offered. Whatever the ultimate decision on the building, one of the results of our survey will be greater communication between the members and their Board."

The next step in the building pro-

ject, he said, is to select construction designs and plans, after which the project will be let for bids.

The decision to work toward building new office/warehouse facilities has taken quite some time, but the chain of events leading to the positive membership vote indicates the strength of the Cooperative as a democratic institution. All members have had the opportunity for many months to express their views and become active participants in the affairs of their Cooperative.

As the directors stated in their

letter of January 7, a visit to the storage and warehouse facilities in Elizabeth is strong evidence of the great need Jo-Carroll has for improved facilities. Not only will a new storage and vehicle garage-maintenance building reduce expenses caused by the poor condition of the old depot now being used and the outside parking of trucks, but improved inventory management should add to our already highly efficient outside crews' capability.

Your board and employees appreciate the membership's positive vote on the matter.

Dairyland load-control program now operating

Key components of Dairyland Power Cooperative's centralized load-control network — the 71 transmitters which will send control signals to heating systems and water heaters throughout the cooperative's four-state service area — are all installed and operating. Jo-Carroll is included in the network.

"This is one of the largest radio-controlled electric load management systems in the United States," said Larry Thorson, Manager of energy conservation and load management for the La Crosse-based generation and transmission cooperative.

The transmitters receive control codes from a master control unit in La Crosse and in turn activate radio-controlled receivers at the homes and farms of consumer-members throughout Dairyland Power's 44,000 square-mile service area.

The receivers control dual-fuel heating systems, water heaters and space heat storage systems. During periods of peak demand and cold weather, the dual-fuel systems allow consumer-members to switch from electrical

Local interest high

Jo-Carroll Electric Cooperative members' participation in this load-control program continues to increase.

More than 400 water heater controls have been installed, and employees involved in member contacts report that 99 percent of those contacted have agreed to allow installation.

We have installed several dual-fuel controls and that program is starting to draw more interest.

We have included a coupon for those who are interested in the water heater program, and those who want more information about the dual-fuel program should call the headquarters at 858-3311.

heating to gas, oil or wood.

At present, the switch from electricity to another heating fuel is likely to occur no more than 15 times during the next year, with each period lasting no longer than two hours, according to Thorson.

Consumer-members at the 29 dis-

Congress sets 1983 RE loan levels, protects ratios

Congress, acting during its recent lame-duck session, refused to accept Administration-proposed cuts and approved legislation guaranteeing rural electric systems adequate loan fund levels to meet their capital needs for fiscal year 1983.

While the rural electrification loan program requires no appropriation, Congress sets loan levels for both insured loans, used primarily by rural electric distribution systems, and guaranteed loans, used primarily by generation and transmission systems.

Loan levels approved by the Congress were those requested by rural electric systems through their national service organization, the National Rural Electric Cooperative Association (NRECA). These required loan levels were presented to both houses of Congress by NRECA Executive Vice President Robert D. Partridge last spring, and called for a range of \$850 million to \$1.1 billion for insured loans, and from \$4.6 to \$5.7 billion for guaranteed loans, the levels approved by Congress.

In addition to refusing to bow to Administration attempts to cut the loan programs by \$1.4 billion, Con-

tribution cooperatives in the Dairyland system volunteer to participate in the load management program, which offers them rate incentives.

By controlling peak electrical demand, Dairyland Power hopes to hold down power costs and defer the construction of new and costly generating plants for as long as possible.

The total cost of the system is approximately \$3-million with additional costs occurring as more consumer-members decide to participate in the program. This winter, the program will control 13,000 to 15,000 kilowatts.

"Our goal for the early 1990s is to control 130,000 kilowatts, which will result in a \$70-million savings and reduced power costs to member cooperatives," said Thorson.

Dairyland Power has a 25-year history of load management. "The radio control system, which is the latest addition, was the next logical

gress added language to the 1983 Agriculture Appropriations Bill that maintains present guidelines for the amount of funds rural electric obtain from private, nongovernment sources. Since rural electrification loan programs are off-budget, altering these guidelines would neither have reduced the federal deficit nor cut government spending. It would have resulted, however, in higher electric rates for rural consumers, because the cost of borrowing has an immediate effect on rates.

Congress also instructed the Rural Electrification Administration (REA), which administers the rural electrification loan programs, to continue to make loans through the Federal Financing Bank (FFB) and for the

FFB to continue to compensate REA for administering those loans. An agreement stipulating just that had expired this year, and the two agencies are involved in a dispute over renewal of that agreement.

Rural electric systems provide electric service to more than 25 million people in 46 states. These rural electric systems, using 44 percent of the nation's power poles extended over 70 percent of the nation's land mass, average only 4.7 consumers per mile of line. Because of this low consumer density, and because rural electric systems serve the nation's most difficult terrain, rural electric consumers pay 12 percent more for electric service on the average nationwide.

The shocking truth about water and electricity

Using water and electricity are two things we do so often, we sometimes forget how unsafe it can be to use them side by side. But the fact remains: water and electricity are dangerous in combination. So don't take chances. Avoid using electric saws, drills, hedge trimmers and other elec-

trical power equipment when the work area is damp. And don't use electrical appliances like hair dryers, curling irons or radios around tubs and sinks. The truth is, it's easier than you think to accidentally mix water and electricity. Unfortunately, that's one truth that can hurt.

step in the continuing load management process," said Thorson.

Dairyland Power Cooperative provides wholesale power to 29 RECs

serving more than 165,000 consumer-members in western Wisconsin, southeastern Minnesota, northeastern Iowa and northwestern Illinois.

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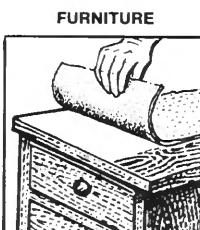
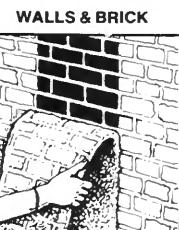
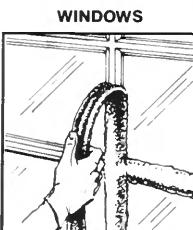
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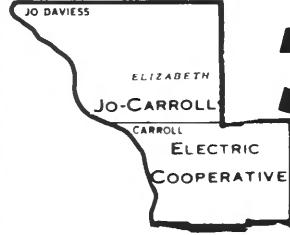
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Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311

Manager's Report

by
Gary
Stuva



For the past year, your staff and board have used these two pages of the *Illinois Rural Electric News* to provide you with a variety of information about what's going on at your Cooperative.

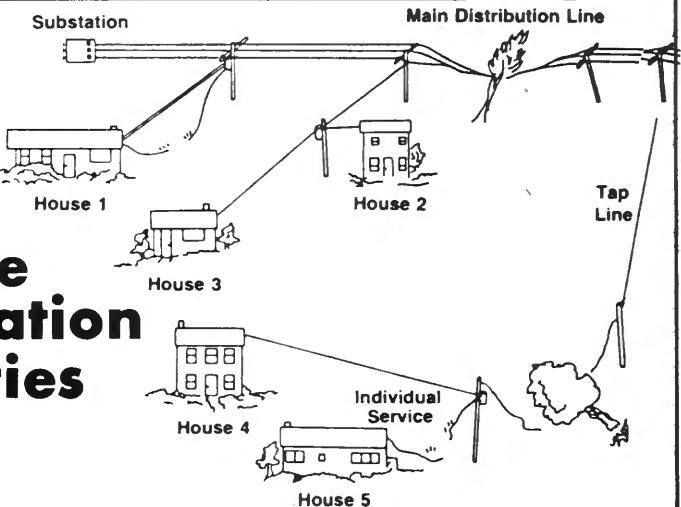
We've talked some about energy audits, employees of your Cooperative, outages, computerization of our billing process, increases in the cost of power and why, rural electric financing, load management programs involving water heater and dual fuel system controls, new meter reading program Jo-Carroll's annual meeting, and plans for the new equipment storage building and offices, among a number of topics.

Judging from the responses we've received concerning the load management programs, meter reading, and the building project, we are convinced that you appreciate the opportunity for regular communications. Your staff and board appreciate your communicating with us, because it provides help in determining policies and making decisions that affect your electric service and its cost.

An open flow of information in both directions is the cornerstone of a strong relationship between members of rural electric cooperative and the board and staff.

As you have probably noticed, I am partial to the use of clip-out coupons that members can complete and return to us to express their interest in our programs. We have printed the computerized home energy audit coupon in the past, and it is repeated again this

Service restoration priorities



month. Just because we are moving out of winter weather — quite mild, at that — doesn't mean that consumers should forget about home energy management. You can save all year, and this no-charge energy audit program is one of the best ways to find out just what your home needs to achieve greater energy efficiency on a cost-benefit basis.

* * * *

This is a time of year when severe weather can cause your Cooperative problems, in the form of power outages. How do Jo-Carroll crews restore service and what priorities are used?

The illustration above depicts an area near a typical substation. A three-phase feeder line has been put out of service by a fallen tree. A tap line that serves two homes also is out of service due to a second fallen tree. House 5 and House 1 have snapped service wires. The outages have been reported to Jo-Carroll. Where do we start the repair work and what is the priority?

Since the fallen tree is on a three-phase line, many more homes than shown in the illustration are affected, and many phone calls would have been

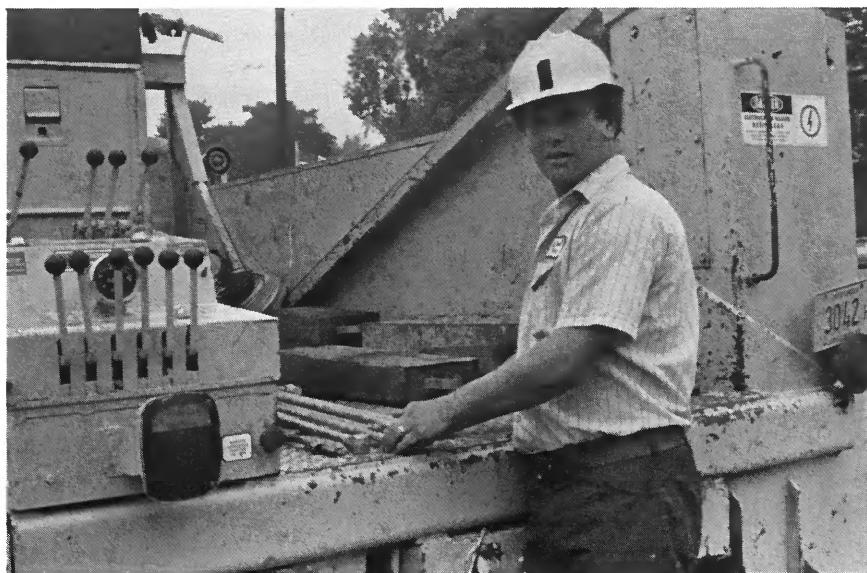
received along this line. The repair crews will be dispatched to the substation and they start working their way along this line to put as many members in service as soon as possible. The tree would be removed, wires would be spliced, and the leaning pole would be straightened. Once this is accomplished this line will be put back into service and the first priority has been accomplished.

The next step is the tap line. This primary single-phase line serves two homes — House 4 and House 5. Neither can receive service until the tree is removed and the line is repaired. If this had been repaired first, no power is available since there is a tree on the main distribution line. The tree is removed, the line spliced and House 4 has service. Our crews would either have noticed that lights at House 5 did not go on when those at House 4 did, or the dispatcher, with the member's help, would have notified the crew there was a downed service wire. Once the line at House 5 is repaired and service is restored, the crew would be dispatched to House 1 to repair the service wire.

This scene is not exact, as there likely will be more than one repair

If your power goes off

1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found. Please give the person who answers the phone the member's name as it is billed, and other information requested. Jo-Carroll Electric Cooperative's number is (815) 858-3311 day or night.



Jo-Ca

Richard L. Tippett, an apprentice lineman with Jo-Carroll, has been an employee of your Cooperative for more than four years. Married and a resident of Elizabeth, Richard enjoys hunting, fishing, golfing and bowling. He completed the Illinois Hot Line Training School in 1981.

Breaking meter seal is illegal

Seals on electric meters are the same as locks on doors. Breaking the meter seal is the same as breaking a door lock, and illegal entry. It is extremely dangerous to break a meter seal because serious injury or electrocution could result if contact is made with electric wires in the meter socket.

Your electric Cooperative is a non-

profit organization, owned and controlled by its members. One member taking electricity without paying for it contributes to the overall increase in the price of electricity for all members. Your electricity is purchased wholesale and passed on to members through your Cooperative's distribution system. The total membership

actually pays the real cost of providing service.

Tampering with the meter, unauthorized connection of service or diverting electric energy for the purpose of reducing kilowatt-hour registration or to avoid payment for energy used are illegal. If your Cooperative finds meters with broken seals, and other evidence of diversion of electricity, proper action will be taken.

Energy audits available

Trained personnel of the Jo-Carroll Electric Cooperative staff are available to provide member-consumers with free assistance on ways to improve their homes' energy efficiency.

One of the newest tools being used by Jo-Carroll is the Manucomp I energy audit system. This recently developed auditing system enables Jo-Carroll personnel to quickly and accurately determine the energy management options which will be most helpful for individual members. Following the free on-premises audit, we send the data to Dairyland Power Cooperative for computer processing. Members will later receive a report listing those options with highest potential for improving energy efficiency.

If you would like to have Jo-Carroll perform an energy audit on your home, just complete the coupon below and mail to Jo-Carroll Electric. We will set up an appointment at your convenience.

Mail to: Jo-Carroll Electric Cooperative
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Elizabeth, Illinois 61028

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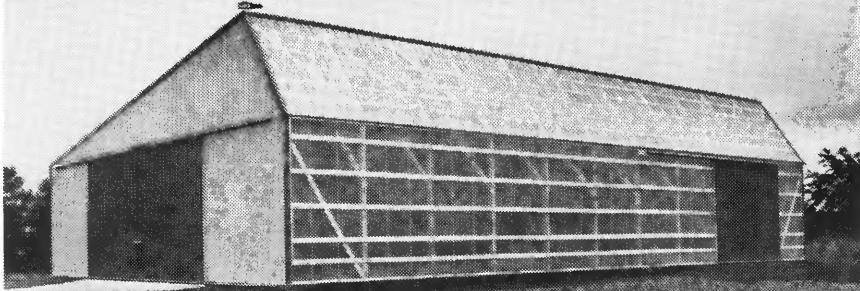
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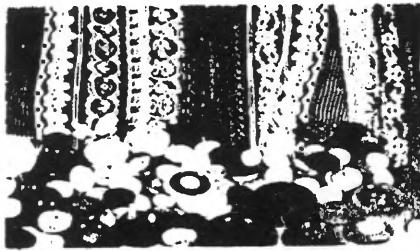
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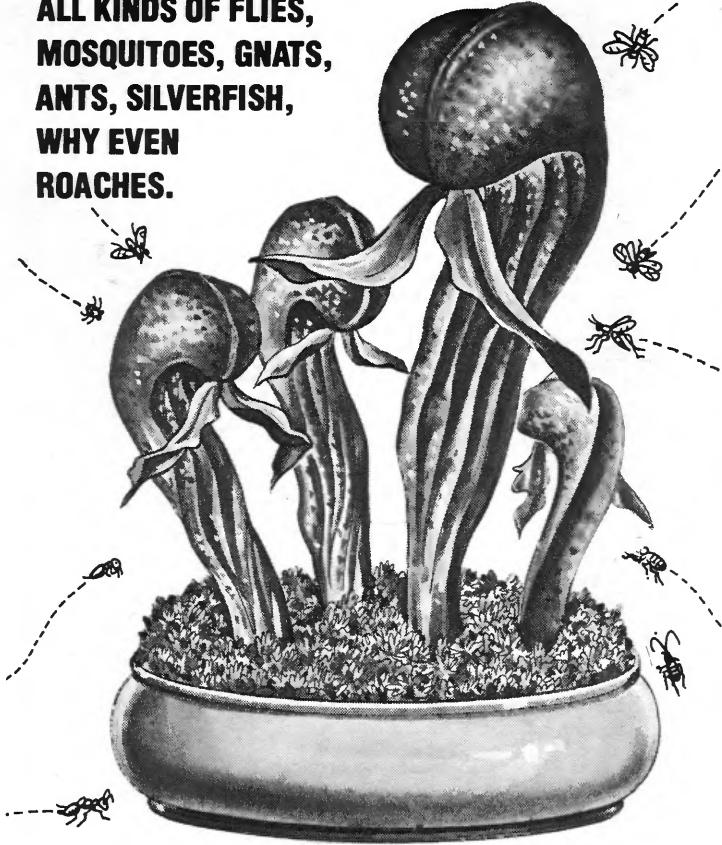
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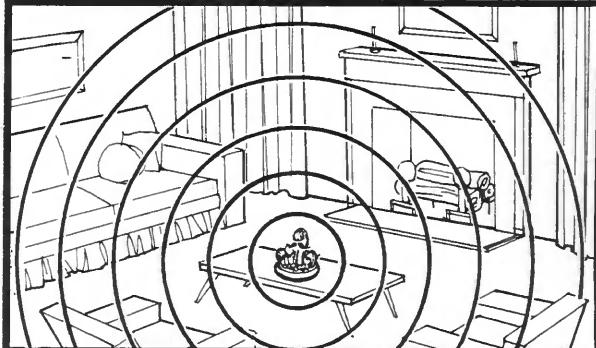
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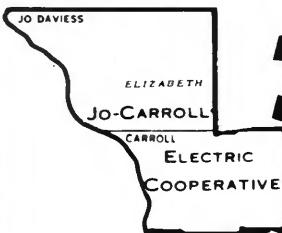
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Jo-Carroll Hi-lines

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Jo-Carroll Electric Cooperative, Inc.

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Manager's Report

by
Gary
Stuva



Your Cooperative is now more than three months into its meter reading program, and there is no question that it is doing what your directors had in mind when they authorized it.

We have explained in the past several months about the program, but some members continue to express concern that the hiring of 33 readers will increase their electric bills.

Perhaps I can explain more about the program, using data compiled from January, the first month we used meter readers.

Please remember that the meter readers, all 33, are hired for part time work. They work only two or three days each month, earning \$4 per hour. We pay 30 cents per mile for their automobile expenses.

Electricity monitored through meters makes up the only source of

revenue for your Cooperative, so controlling the readings is of major importance. As you know, the largest portion of the members of Jo-Carroll were reading their meters honestly, and were on time with reports of their readings.

However, some members, we have found, were self budgeting by turning in steady readings month after month, regardless of the fluctuation of their actual use from month to month, often creating a large difference between kilowatt-hours bought from our bulk supplier and kilowatt-hours billed to consumers.

In addition, we have discovered that a small number of members were tampering with their meters. When people steal electricity, they are stealing it from their neighbors, because the cost of the electricity is spread out over the rest of the membership.

These are not the only two reasons for meter reading, but they are among the major ones.

Now, back to the dollars and cents of the matter.

In 1982, we spent \$71,240.91 in the meter expense account. Just

because we didn't have a crew of part time meter readers didn't mean that we didn't have to read meters. Our employees made spot and regular checks throughout our system during the year just to make sure there were no serious over or under readings, or that meters were not being tampered with.

Divide that amount by 12 months, and you have nearly \$6,000 spent monthly in 1982 to read meters. Office labor costs to handle the 1982 limited meter reading amounted to \$112 per month, resulting in an average cost of \$6,048.74 per month.

In January, the 33 meter readers read 3,870 meters in 307 hours for a total labor cost of \$1,228, plus 2,576 miles at a cost of \$773.25. The total meter reading cost for the month was \$2,001.25, more than \$4,000 less than the average monthly cost in 1982.

Your board and staff examined very carefully the advantages and disadvantages of the meter reading program before deciding.

They believe that this type of savings, plus the advantages of having each meter on the system read each month makes it a very sound decision.

Load management a reality at DPC

"Load management" has become a common term throughout the nation's electric power industry in recent years. It's an umbrella expression used to describe the methods and technologies a power supplier can utilize to improve the efficiency of energy use by consumers, which leads to leveling out the peaks and valleys of its daily generation curve.

But "load management" is far more than a mere descriptive term at Dairyland Power. It's a reality!

After nearly nine years of planning and installing and testing equipment, a coordinated load control program became an integral part of the overall plan for generating and transmitting electricity to the 29 member distribution cooperatives (including Jo-Carroll Electric Cooperative) of the Dairyland Power system a few weeks ago.

The new, high priority load management system — embracing, for the most part, a dual fuel heating concept, space heat storage units and a

method for controlling interruptible electric service to electric water heaters on the distribution lines of member RECs — is designed to vastly improve systemwide utilization of Dairyland Power generating facilities and, thus, delay construction of costly production capacity at least a decade or more.

Dairyland Power has long advocated energy conservation and load management practices — since the late 1940s — but none approached the

magnitude of this new program, which evolved from and "energy policy" resolution adopted by the board of directors in 1979 and a subsequent "annual demand charge" recommendation in November 1981.

EXCESS GENERATION CAPACITY

Why an ambitious load management program at this time, when Dairyland Power — and neighboring electric utilities, too, for that matter — have excess generating capacity?

"True, we presently have the capacity to meet our highest demand for energy — that hour or so once a year during a cold winter night — but it won't always be this way because it's inevitable that this annual peak will increase rather than diminish," says Larry Thorson, manager of conservation & load management, who further notes that Dairyland must plan ahead at least 10 years for additional generation capacity.

"Rome wasn't built in a day . . . and in order to have sufficient controllable load in the future to offset capacity from new generation, we must start now." Thorson continues. "It will take years of work to get where we want to go."

The goal, according to Thorson, is 130 megawatts of controllable load by the 1990s. This will represent a 15 percent reduction in the annual peak, he advises, which translates to about a \$70 million savings to Dairyland by today's dollar.

LARGEST IN COUNTRY

The new load management program is basically a one-way radio operated system blanketing Dairyland Power's four-state, 44,000-square-mile service area. It is said to be the largest and most sophisticated radio controlled system in the country in terms of geographical coverage.

Thorson says the radio plan was selected over other load control forms because it was the least expensive to install and operate. The initial equipment and installation costs totaled about \$3 million.

The major equipment at this time includes a central control unit, 71 transmitters and 13,000 receivers designated for the homes of member-consumers who volunteer to participate in the program. Additional transmitters will be installed if necessary and more receivers will be pur-

chased in the future as the program expands.

The central control unit is located in the dispatch center at La Crosse. The unit includes a central control console, a compact desk-top micro-computer that provides centralized control of the load management system; a video terminal, a printer, and an alarm matrix. The latter signals an audible alarm if a radio signal fails to transmit as directed in the four-state system. It even pinpoints the location of the failure.

Dairyland Power's existing microwave communications system serves as the line between the central control installation in La Crosse and the 71 transmitter units in the field.

EXISTING MICROWAVE TOWERS

Most of the transmitter sites are located at existing microwave towers. These units are known as "master" transmitters. Transmitters located at sites lacking microwave towers were placed on either an existing radio tower owned by a member REC or on a newly constructed tower. These units are called "satellites" or "repeaters" because they receive their signals from a master transmitter and repeat the signals for the home receivers in their areas.

There are 40 master transmitters and 31 satellite units throughout the four-state, 44,000 square mile service area. Fifty-one transmitters are located

in Wisconsin, nine in Minnesota, nine in Iowa and two in Illinois. The units — both master and satellite — are capable of controlling home receivers within 15 miles of their locations.

Over 9,000 receivers were controlling the flow of electricity to water heaters, dual fuel heating systems and space heat storage units in homes of member-consumers of the 29 RECs at the end of 1982. More receivers will be installed in the upcoming months.

Participation in the formal load management program is voluntary, but there are electric rate incentives from the distribution cooperatives for those who elect to install the receivers, which control an interruption of electric service for brief spans of time during periods of high peak demand and abnormally low temperatures.

ABOUT 15 TIMES ANNUALLY

Dairyland Power is a winter peaking utility and, as such, electric dual fuel heating systems allows the switch to gas, oil or wood as alternatives to electricity with no discernible change in home temperatures. The change-over will occur only about 15 times or less during a heating season, according to Thorson, who notes that each changeover will last only about two hours. He says water heaters can be shut off as long as four hours before a noticeable water temperature drop begins to occur.

Thorson notes that farm and dairy operations do not easily lend themselves to interruptible electric service, "but some industrial and commercial customers may find it favorable to participate in the load management program of their RECs by taking advantage of their incentive rates."

The new radio control system also offers Dairyland a wider flexibility in controlling capacitor installations for greater transmission efficiency as well as a systematic provision for load shedding — if needed — in the future, Thorson says.

Thorson and his staff recognized from the outset that proper installation techniques for the home receivers and dual fuel heating system were vital to the success of the program. As a result, they have conducted numerous workshops throughout the Dairyland Power service area the last couple of years in this regard for REC personnel and local electrical contractors.

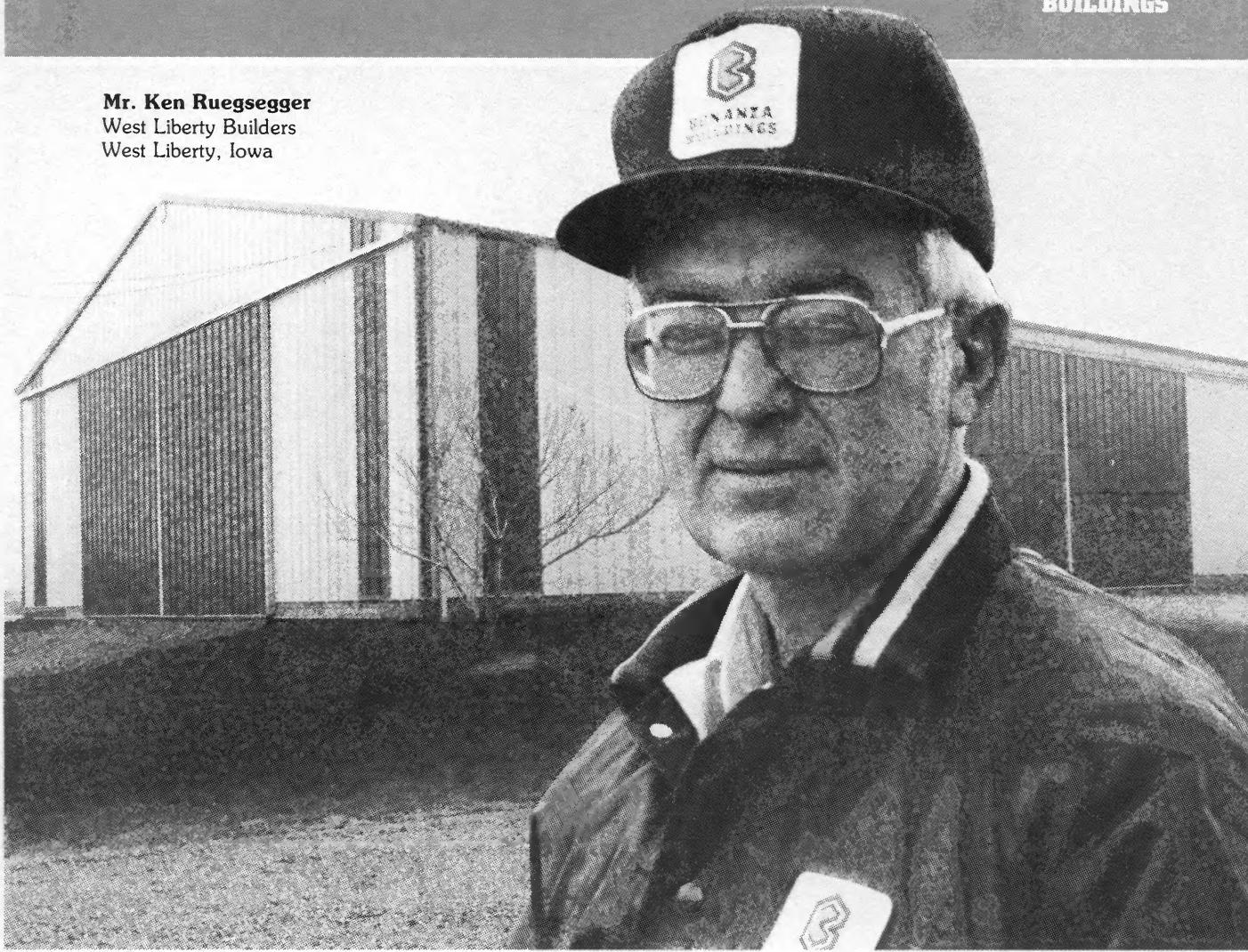
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energy efficiency

too, but it will not do as good a job as groundwater, because the temperature fluctuates. Still, using an existing pond may be a better bet than drilling a new well or two.

For those not fortunate enough to have a good water supply, there is yet another alternative, but its attractiveness is somewhat dampened by its fairly stiff initial cost. It is called a "closed loop earth-coupled system," and it involves laying a large grid of plastic piping about six feet underground, where the temperature remains fairly constant all year long.

After filling the loop with water, you connect your water-to-air heat pump in the usual way. The earth's insulating properties take over from there, providing a home-grown source of even-temperature "groundwater," even when the winter winds are howling outside.

About 20,000 of the systems are perking away, mostly in Canada, Sweden and Germany, and there is no great hurdle to making them work here, too, except the initial cost. You will need to buy about 400-500 feet of pipe for each ton of air-conditioning capacity on the cooling side of your heat pump. The average 1,500-square-foot home, incidentally will have about a two-ton unit.

After swallowing the initial cost, you have a system capable of providing years of relatively low-cost heating and cooling.

To summarize, a heat pump is a good way to heat and cool your home with one unit, and a water-to-air heat pump is better yet, because of increased efficiency.

A study performed in early 1982 showed that for a home requiring 100-million British thermal units (Btu's), a groundwater heat pump cost only \$3.59 more to heat for a winter than a well-maintained natural gas furnace with spark ignition and an automatic flue damper. To heat the same home with a propane furnace

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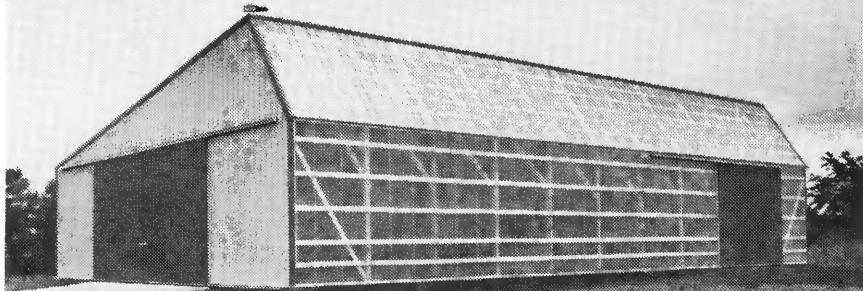
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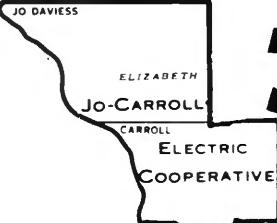
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Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc. Elizabeth, Illinois
815 858-3311

Manager's Report

by
Gary Stuva



It's good to see the bright, clear skies of spring. Even though last winter was one of the mildest we've had in many years, spring is just as welcome as ever.

I would like to talk with you about Jo-Carroll's two main load management programs, even though they may seem to be winter-time topics. Load management is a year-round proposition, whether we are discussing actual implementation or planning for the future.

Your cooperative has been very busy over the last several months installing radio-controlled electric water heater switches which are part of Dairyland Power Cooperative's overall load management program.

So far, almost 600 of the members of Jo-Carroll have agreed to participate in the water heater control program. By approving free installation of the no-charge switch, these members receive a \$3 credit each month, and help considerably to aid Dairyland reduce its peak demand, thus staving off the use of expensive peaking generating equipment, and making for more efficient use of existing base-load generating equipment.

This load management program is important in the summer months, too.

The other peak load control program is our dual fuel project. Those members who participate agree to equip their homes with two heating systems, one of which is electric. The electric heating system is also radio controlled; when Dairyland nears a peak demand time, the signal goes out

to shut off only the electric heating system and switch on the back-up.

The incentive is a special rate for the electric heating system. We have had a number of members enroll in this program. If you think these programs would be of interest, please call us at 858-3311.

* * *

The following is a news release from Dairyland's headquarters. It explains a rate increase that will affect Jo-Carroll. As you will notice, the percentage increase is quite small. It will not amount to any sizeable increase for Jo-Carroll members, and what little increase is necessary will be passed on through the fuel adjustment charge.

The 29 rural distribution cooperatives in the Dairyland Power Cooperative system can expect only a minimal increase in the cost of wholesale power during 1983, according to Frank Linder, Dairyland's general manager

and chief executive officer.

Dairyland's board of directors recently approved a 1983 budget calling for a wholesale rate adjustment that will result in a revenue increase of three-tenths of one percent. The adjustment takes effect May 1.

The impact of this adjustment on individual cooperatives will vary depending on the characteristics of their electric loads.

Board members declined to go along with a Dairyland staff recommendation which would have called for a 1.9 percent wholesale rate increase, also effective on May 1.

But the board also agreed to review Dairyland's operations next September to determine if another small wholesale rate increase will be necessary for the final months of 1983.

"We are attempting to minimize any increase during a time of continued economic hardship for the farmers

Energy audits available

Trained personnel of the Jo-Carroll Electric Cooperative staff are available to provide member-consumers with free assistance on ways to improve their homes' energy efficiency.

One of the newest tools being used by Jo-Carroll is the Manucomp I energy audit system. This recently developed auditing system enables Jo-Carroll personnel to quickly and accurately determine the energy management options which will be most helpful for individual members. Following the free on-premises audit, we send the data to Dairyland Power Cooperative for computer processing. Members will later receive a report listing those options with highest potential for improving energy efficiency.

If you would like to have Jo-Carroll perform an energy audit on your home, just complete the coupon below and mail to Jo-Carroll Electric. We will set up an appointment at your convenience.

Mail to: Jo-Carroll Electric Cooperative
P.O. Drawer D
Elizabeth, Illinois 61028

Yes, I would like to have Jo-Carroll Electric Cooperative make a free computerized energy analysis of my home.

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Address _____ Zip _____

Vacations and seasonal use

When vacation time comes, and you're planning to be gone for a couple of weeks or so, your electric bill should decrease significantly, right? Wrong!

Many people believe that when they leave on vacation, their electric meter stops until they return. If they are on vacation for two weeks, they expect their electric bill to be cut in

half. Let's ask ourselves a few questions before we assume our electric bill should decrease by any considerable amount during vacation time.

First, was the water heater turned off during your vacation? Remember, if the electric water heater is left energized during vacation, it will continue to operate and maintain the tank temperature even if you're not using any

hot water.

Were the refrigerator and freezers emptied and turned off? If not, they will continue to operate to maintain the preset temperatures.

Take a look at other appliances that keep running while you are on vacation — clocks, attic fans and power ventilators, heating and air conditioning, lights, and TV sets with the "instant-on" feature.

If you are determined that no electricity is to be used during your vacation, you can accomplish this by turning off your main breaker or pulling the main disconnect. But remember, when you do this, the automatic appliances will stop. Your refrigerator and freezer will defrost, your electric water heater will not have hot water ready for use upon your return, and your home may be too hot or too cold when you walk in the door. It's a decision only you can make. Perhaps you can make arrangements with a neighbor to keep an eye on your place and adjust the heat, water heater and/or air conditioner shortly before you return.

In addition, you may wish to unplug all appliances not in use. If a light is to be left on, it should be connected to a timer. If you intend to be gone for an extended period of time, contact Jo-Carroll and make arrangements so your electric service will remain uninterrupted.

Read your meter upon leaving, and again when you return. This will let you determine the number of kilowatt-hours used during the period of time you were gone.

Another reminder is that many vacationers bring home several days or weeks of dirty laundry. This laundry will give your electric water heater a workout during your first day or two back home. Only you can decide whether your electric meter gets a vacation or not while you are gone.

In addition to vacations, you may wish to take a look at some of the seasonal uses for electricity that may cause an increase in consumption.

Let's not overlook hobbies, either, or those businesses that operate from the home.

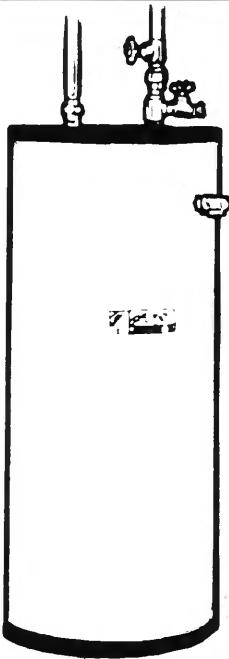
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who make up the great majority of our consumer-owners," said Linder. "The board gave thorough consideration to our budget staff's recommendation and decided to go with the smallest rate increase possible at this time in order to lessen that economic hardship."

"Dairyland Power Cooperative must make an unprecedented effort to hold down all costs as we proceed through each month of 1983," he added.

Dairyland's wholesale power bill makes up about 70 percent of a local distribution cooperative's costs. The distribution cooperative's own operating costs account for the rest of the final retail rate charged to consumer-members.

Dairyland's staff had sought the 1.9 percent increase in order to achieve 1983 margins of \$4.5-million. Margins are those funds left after the cost of

electric service is subtracted from revenues.

Margins are not treated as profits. They are applied to future system requirements, lessening the need for borrowing. These funds are eventually returned to the consumers who own the system, in the form of patronage dividends.

Cooperatives must maintain sufficient margin levels in order to retain favorable credit ratings.

The original margin target of \$4.5-million would make up 2.9 percent of anticipated 1983 revenues of \$154,115,069.

Dairyland Power Cooperative provides wholesale power to more than 165,000 consumer-members in predominantly rural areas, through 29 distribution cooperatives in western Wisconsin, southeastern Minnesota, northeastern Iowa and northwestern Illinois.

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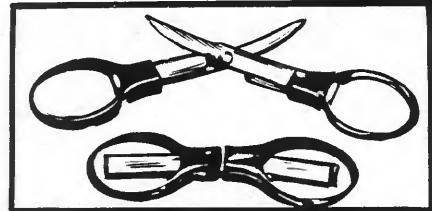
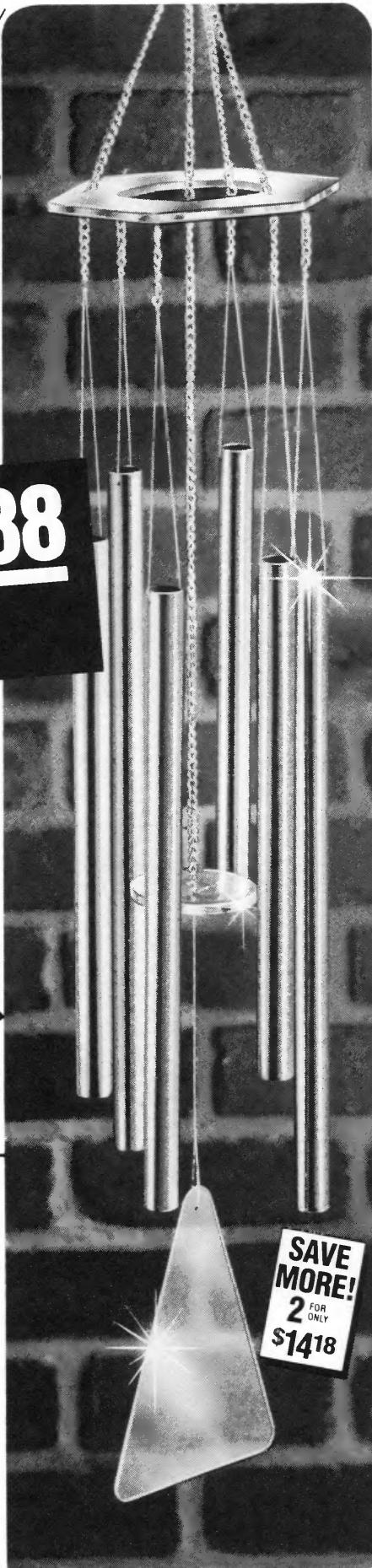
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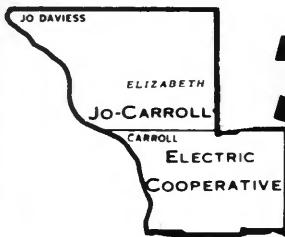
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ILLINOIS RURAL ELECTRIC NEWS



Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311

Manager's Report

by
Gary
Stuva



Occasionally you might wonder how much electricity an appliance uses, and how much it costs to operate. Perhaps you want to know this before buying an item. Or perhaps you would like to identify where your monthly electricity is going.

Determining the operating cost of appliances is really quite simple, if you understand some basic terms and a few simple factors.

First of all, the basic terms:

A watt is a measurement of electricity. Appliances, light bulbs and most electrical equipment are usually

labeled with the amount of watts they use. A kilowatt is 1,000 watts (kilo is 1,000). A kilowatt-hour (kWh) is 1,000 watts used for one hour. For instance a 100-watt bulb used 10 hours equals one kWh.

The factors that must be known are: (1) the wattage of the appliance; (2) the number of hours it operates; and (3) your cost of electricity.

The wattage of appliances or electric equipment varies greatly. Usually this figure can be found on the serial plate or wherever pertinent information is given. Sometimes the electrical requirements of a particular appliance may be expressed in volts and amperes, rather than watts. If so, multiply the number of volts times the number of amperes (120 volts x 4 amp. equals 480 watts).

Once you know the number of watts, you multiply this by the number of hours the appliance is on and

divide by 1,000. Then you take the cost of a kilowatt-hour of electricity from your monthly bill, and multiply this by the result of the above formula.

For instance, say you have a television set that is rated at 250 watts, and is used an average of four hours a day — about 120 hours (4 x 30) a month. Using the formula, 250 watts times 120 hours is 30,000. Divide by 1,000 and you have 30 kilowatt-hours used in a month by this TV. Multiply this by your cost of electricity per kilowatt-hour by dividing the bill total by the number of kWh used, and you have the cost of operating the appliance for a month.

Figuring out how much electricity a new appliance will use will enable you to make a wise buy. This can be particularly helpful in determining if the convenience of special features is worth the extra cost. And by knowing how much appliances you already have cost to run, you can make decisions in their use that will control your monthly electric bill.

Energy audits available

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Mail to: Jo-Carroll Electric Cooperative
P.O. Drawer D
Elizabeth, Illinois 61028

Yes, I would like to have Jo-Carroll Electric Cooperative make a free computerized energy analysis of my home.

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Address _____ Zip _____

If your power goes off

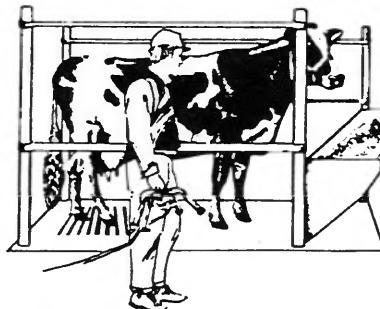
1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found. Please give the person who answers the phone the member's name as it is billed, and other information requested. Jo-Carroll Electric Cooperative's number is (815) 858-3311 day or night.

A condition you can do something about

Those of you with animals on your farm, especially dairy, know how animal stress can affect your farm's production. There are many conditions that may cause such stress, including poor milking practices, improperly sized or malfunctioning equipment, improper feed, poor herd health, poor management, or stray voltage. All stress factors should be isolated and corrected.

There are a number of stress symptoms, including:

- Abnormal decrease in, or inability to reach, peak milk production.
- Erratic milkout.
- Cows hesitate or refuse to approach certain waterers, feeders, or metallic equipment, hesitate to enter parlors, or jump across transition joints.
- Cows tread, kick or appear nervous during milking.
- Symptoms come and go unpre-



dictably.

- A large percentage of animals may show similar symptoms.

Since stray voltage is one of the major sources of animal stress, stray voltage is one of the major concerns of your electric cooperative.

Some stray voltage is present in nearly all farm electrical systems. It is an inherent part of the system and can never be entirely eliminated. Causes of stray voltage include:

- Loose or corroded neutral, grounding or bonding connections.

- Improperly sized, broken or disconnected neutral, grounding or bonding conductors.

- Omission of bonding conductor in appliance or equipment circuit.

- Improperly used or defective materials and equipment.

- Inadequate grounding electrodes.

- Unbalanced electrical loads.

- Failure to adequately bond together all metallic equipment, including grates, rails, posts, stanchions, gates, well casing, underground tanks and water pipes.

- Current accidentally or intentionally introduced into the earth, sometimes at locations substantially removed from the farm.

At the bottom of this page we have printed a check list of potential sources of stray voltage. Please use it to help you find any sources of stray voltage or to help identify potential sources.

Farmer's checklist for determining potential sources of stray voltage

SERVICE ENTRANCE FARM - POWER POLE Y N

Connection to the ground rod — loose, corroded

Covers loose

Excessive rust

BARN SERVICE ENTRANCE

Ground rod missing at the service entrance

Connection to ground rod — loose, corroded

Covers loose

Excessive rust

Wet or damp areas

Large accumulation of feed dust on service box

Frequent fuse blowing

MILKHOUSE

Excessive rust on electrical boxes and conduit

Water on or in electrical boxes

Covers missing or open on electrical boxes

Wires in water

IN THE PARLOR OR AROUND-THE-BARN

Pulsator wiring — pinched wires

-loose, hanging wires

-scrapes, breaks, or cracks in insulation

exposing the conductors

-broken stall cocks

Badly rusted conduit or electrical boxes

Wires in damp or wet areas

Electrical boxes missing covers

Broken or bent conduit

A GENERAL REVIEW OF ALL FARM ELECTRICAL EQUIPMENT Y N

Lights dimming when motors start

Electrical shocks from any equipment

Badly rusted electrical boxes or conduit

Wires, electrical boxes, or motors in wet or damp areas

Accumulation of dust on or around electrical equipment

Bent or broken conduit

Scraped wire insulation exposing conductors

Connections to service entrance ground rods - loose, corroded

Insulated wires wrapped around metal pipes

Extension cords

Electrical boxes missing covers

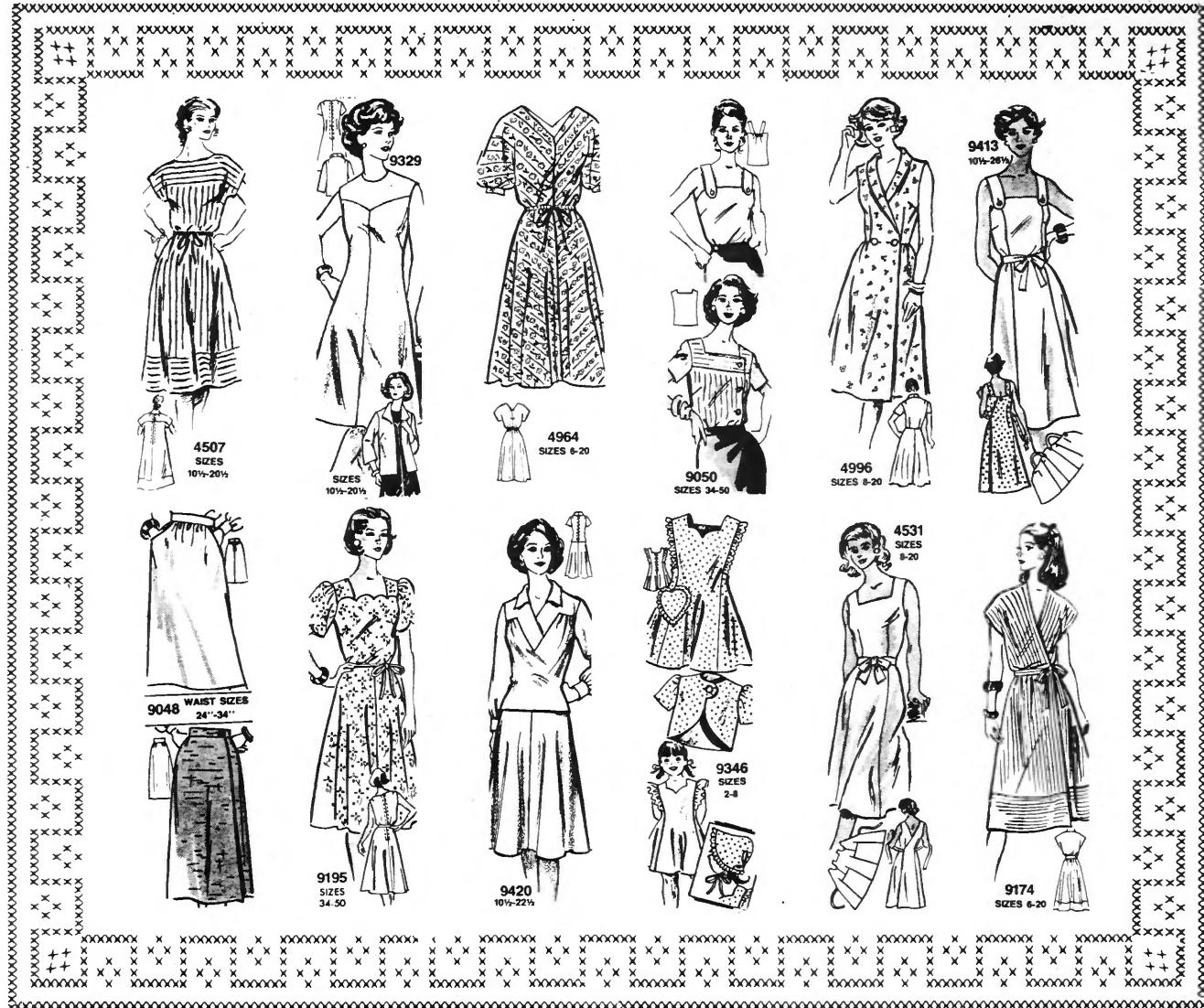
Loose, hanging wires

Motors operating irregularly under load, sparking, etc.

Electrical outlet missing third hole for ground

The amounts of minerals and moisture in the soil, subsoil and rock strata, and the varying water table level can cause stray voltage amounts to change. More rapid changes are usually due to electrical loads, conductors and connections.

If a cow is in contact with two points that are not electrically bonded (tied together), a voltage potential may exist between the two points which can cause current (amperage) to flow through her body. The exact voltage (millivolts) and current (milliamperes) that can cause significant stress are not known.



PATTERNS

- No. 4507 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) takes 1-7/8 yards 60-inch fabric.
- No. 9329 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) dress takes 1-5/8 yards 60-inch.
- No. 4964 is cut in Multi-size pattern. Sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 9050 is cut in Women's Sizes (34, 36, 38), (40, 42, 44), (46, 48, 50). Order your regular size.
- No. 4996 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3½ yards 45-inch fabric.
- No. 9413 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2½ yards 60-inch.
- No. 9048 is cut in Waist Sizes 24, 25, 26½, 28, 30, 32, 34. Size 26½ wrap 2 yards 45-inch; other 1-7/8.
- No. 9195 is cut in Women's Sizes 36, 38, 40, 42, 44, 46, 48, 50. Yardages given in pattern.
- No. 9420 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 4½ yards 45-inch.
- No. 9346 is cut in sizes 2, 4, 6, 8. See patterns for yardages.
- No. 4531 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 2-5/8 yards 45-inch fabric.
- No. 9174 is cut in sizes (6, 8, 10, 12) (14, 16, 18, 20). Order your regular size.

TO: PATTERNS
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Highlights

(Continued from page 5)

Among the many notable experiences for Illinois youth participating in the 1983 Tour were visits to Gettysburg National Military Park, new National Aquarium at Baltimore, Air and Space Museum at the Smithsonian Institution, Library of Congress, Mt. Vernon, Arlington Cemetery, Lincoln Memorial, Washington Monument, Jefferson Memorial, Viet-

nam War Memorial and National Zoo.

A large number of the students on the tour were winners of all-expense-paid trips as winners of their local cooperatives' essay contests. Others participated as "Willie Wiredhand" tourists, including students who did not win their cooperatives' contest and children and grandchildren of cooperative directors and employees, who are not eligible for the essay competition. "Willie" participants pay all their own expenses.

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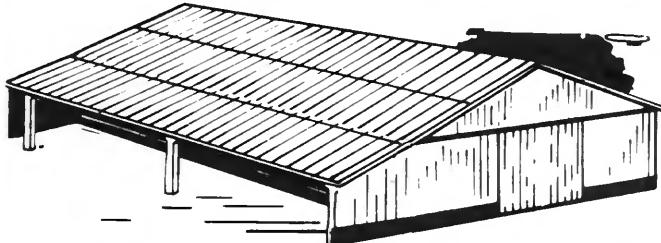
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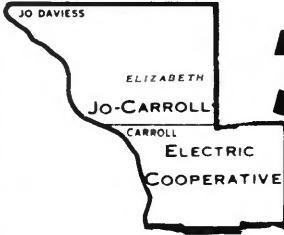
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Elizabeth, Illinois

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Manager's Report

by
Gary
Stuva



Rural electric cooperatives have installed nearly one-half of the nation's electric poles and power lines across 70 percent of the land mass to serve about 10 percent of the country's population. About four to five families, on the average, are served by each mile of power line in areas served by electric cooperatives.

Those numbers tell you that it is no easy task to see to it that rural America gets its needed electric power

at a reasonable cost.

Even with insured and guaranteed loan programs funded through the Rural Electrification Administration to help ease the financial burden of serving the rural areas, it still costs more — the national average is 12 percent more — to provide electric service in rural areas when compared to urban areas.

The federal Office of Management and Budget has again proposed drastic reductions in REA rural electric loan programs, even after Congress resoundingly rejected similar proposals in each of the last two years. The OMB proposals still don't make sense, and they could compound inequities that already exist.

Let's look at the facts.

Today, loan funds for the rural

systems do not come from taxpayer dollars, but from the principal and interest repayments on old loans and from the nation's money markets through loan guarantees. The so-called "savings" projected by OMB from cuts in rural electric loan programs do not exist and would certainly not reduce the federal budget or deficit.

Rural electrification is one of the nation's greatest success stories, and its benefits reach all Americans by providing dependable, affordable electric service to more than 25 million rural people.

Cutting the loan programs that are so vital to rural electric cooperatives would do nothing to further our country's economic goals, but would serve to increase the cost of electric service in rural areas.

Take the heat off your air conditioner

- WEATHERIZE your home! This includes insulating your ceiling, sidewalls and floor; weatherstripping and caulking around windows and doors; and adding storm windows to those not needed for ventilation. You see, the same measures taken to keep heat *in* during winter months also keep heat *out* in hot weather.

- VENTILATE your attic! Teamed with full attic insulation, proper ventilation can lower your cooling costs by 30% or more! Without it, your attic can reach oven-like temperatures of 150° or more. If not removed, this scorching air will radiate downward, causing your air conditioner to work harder and use more electricity.

- LANDSCAPE for coolness. Shade trees, especially on the south and west sides, will block out much of the sun's heat. Wide roof overhangs, window awnings and plant-laden trellises also help shade your home.

- CLOSE drapes or window shades on sunny side of house.

- CHOOSE light-colored roofing and siding to repel the sun's harsh rays. A dark roof can actually require up to 20% more air conditioning capacity than a white roof!

- COOK, iron, wash and schedule other heat-producing chores for the morning or cooler evening hours.

- PLAN meals in all-day slow cookers, electric skillets or other small

appliances. They keep a kitchen cooler than does your range or oven.

- RUN exhaust fans in kitchen, laundry room and bathroom to carry heat and humidity outdoors. Make sure dryer is vented to the outside.

AND, REMEMBER TO...

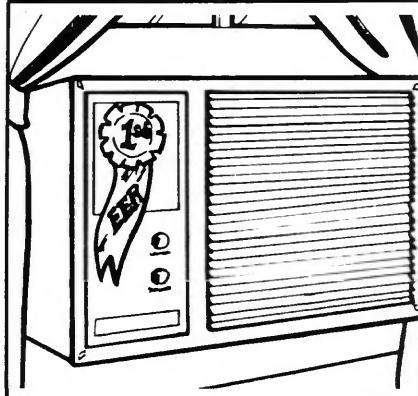
- LOCATE your window air conditioner or the condenser of your central system on the shady side of your house. Avoid placing near shrubs or clothes dryer vent.

- PLACE a window unit in center of area to be cooled, away from corners and hallways. Don't block air circulation with drapes or furniture.

- INSULATE air conditioning ducts in a central system.

- SET thermostat as high as comfort allows. Thermostat should be on an inside wall away from heat-producing appliances.

- CLEAN or REPLACE your air conditioner's filter at least once a month.

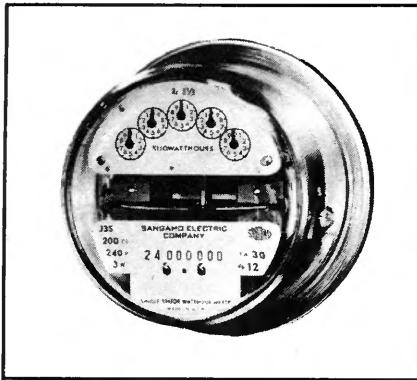


Electric meters rarely make mistakes

Jo-Ca

You've just discovered your electric bill is higher than your neighbor's. Looking for reasons, you decide that something must be wrong with the meter. It's got to be running too fast. Right?

Well, chances are that you're wrong. Your meter is a highly calibrated and highly accurate device. In fact, very few commodities are as accurately measured as the electricity you use. In the many routine and requested meter tests conducted by your electric cooperative, it is rare, indeed, to find a meter that is outside the established tolerance level. And the great majority of those that are outside operating standards run slow. In other words, the meter isn't record-



ing enough usage. That's because it is like any other electric motor. It gets slower with time as dirt, moisture and insects take their toll.

Your electric cooperative maintains a regular schedule of testing to help

keep each meter clean and in good working order. Because of this and the proven accuracy of the meters, your cooperative advises members to take a close look at their usage before they request a meter test.

If a member requests a test and the meter is found to be operating accurately, your cooperative will assess a service charge to help recover the costs of the test. If a member's meter is found to be outside the tolerance level, there is no service charge and an adjustment will be made to the member's account.

Members should contact the Jo-Carroll Member Services Department for specific information on testing procedures.

Trees and power lines don't mix

Just about everybody likes trees — and everybody needs electricity. But some people don't like the power lines that take electricity to them — especially when it is necessary to trim or remove trees so they don't interfere with power lines.

Trees and power lines don't mix. If a tree branch is near a line and falls onto it, you and your neighbors could be without electricity for several hours or more.

Even if a branch does not fall but only touches lines because of windy conditions or ice, it can mean the temporary interruption of electrical service.

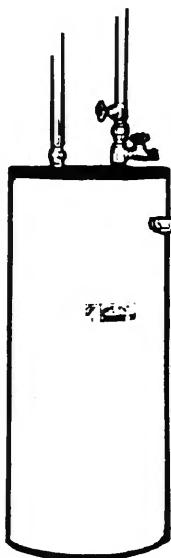
In each electrical circuit there is a device called a circuit recloser.

When a tree branch touches power lines, shorting out a circuit, the

recloser will temporarily break the circuit.

During a wind storm, you may have noticed your lights blink. This is the recloser in operation. It will break a circuit three times temporarily. On the fourth time, it breaks the circuit permanently — until a serviceman resets it manually.

Clearing right-of-way is expensive and we'd rather not have to do it. But do it we must — to insure that you can depend on having electricity most of the time — even during bad weather.



Please Send Along With Your Next Bill Payment

____ Yes, I would volunteer to have a water heater control installed. (I understand there is no cost to me and that Jo-Carroll Electric Cooperative will credit my electric bill \$3.00 each month thereafter upon receiving my request.)

Install Control

____ House

____ Milkhouse

____ Other

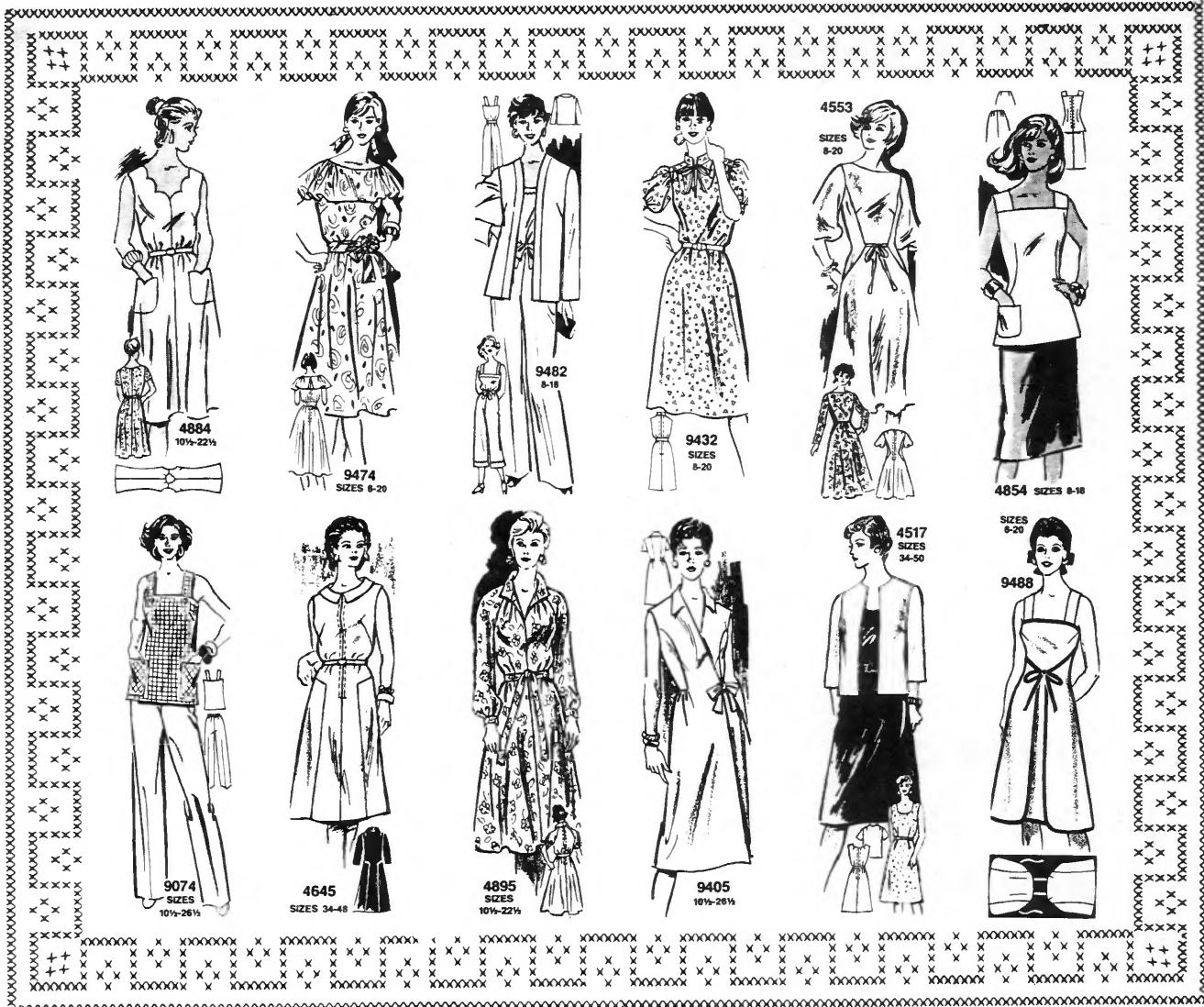
Name _____

Address _____

Location No. _____ Phone No. _____

Date _____

Note: If you have previously made a request for a control — please DO NOT make a second request unless the installation has not been done. Thank You.



- No. 4884 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-3/8 yards 60-inch.
- No. 9474 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 9482 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) ensemble takes 3-3/8 yards 60-inch fabric.
- No. 9432 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.
- No. 4553 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 4-1/8 yards 45-inch fabric.
- No. 4854 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 1½ yards 45-inch; shirt 1-3/8.
- No. 9074 is cut in sizes (10½, 12½, 14½), (16½, 18½, 20½), (22½, 24½, 26½). Order your regular size.
- No. 4645 is cut in Women's Sizes 34, 35, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
- No. 4895 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-5/8 yards 60-inch.
- No. 9405 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2-7/8 yards 45-inch.
- No. 4517 is cut in sizes 34, 36, 38, 40, 42, 44, 46, 48, 50. See pattern for yardages.
- No. 9488 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.

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

I have enclosed \$ _____ (\$2.25 per pattern — cash, check or money order accepted) for the following patterns:

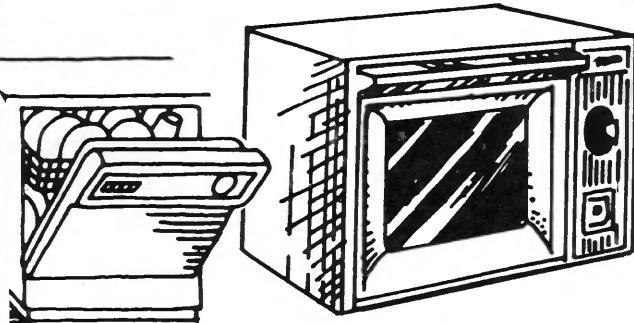
Pattern No.	Size	Pattern No.	Size
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Print Name _____

Address _____

City _____

State _____ Zip _____



**energy
efficiency**



hot summer months

- Check the temperature in your refrigerator, too. Place an outdoor thermometer in the fresh food section and leave it there for about 15 minutes. The temperature should be about 38-42 degrees F. If it is not, adjust the temperature control. Check the freezing compartment's temperature, too. It should be around 5 degrees F.

- Colder-than-necessary temperatures waste energy.

- Check the frost buildup on the freezer compartment. It should not exceed one-fourth of an inch. As a general rule, manual defrost refrigerators take less energy to operate than automatic defrost units, but not if frost is allowed to build up excessively.

Your refrigerator should be located away from sources of heat, such as ranges. The motor housing and con-

denser coil should be kept clean, and unless your refrigerator is designed to be built in, it should be away from the wall an inch or two to allow air to circulate around the compressor.

Once those things are taken care of, instruct your family on good habits in using the refrigerator. Let hot foods cool a bit before placing them in the refrigerator. Reduce the number of times the refrigerator is opened and never leave the door open longer than a few seconds. To thaw frozen foods, first place them in the fresh food section so that, as they thaw, they can help cool the refrigerator.

If you are planning to buy a new refrigerator, it is energy economical to buy one with a power-saver switch.

Some refrigerators have heating elements in their walls or doors to prevent "sweating" on the outside. In most climates, the heating element does not need to be working all the time. The power-saver switch turns off the heating element, saving up to 16 percent on refrigerator operating costs.

Weigh the benefits of a frost-free refrigerator against those requiring manual defrosting. Although you will need to defrost them regularly, the manual-defrost models will cost less to buy and operate than automatic defrost units.

If you choose the manual-defrost model, remember that frost buildup increases the amount of energy needed to keep your food cold.

GARDENING?

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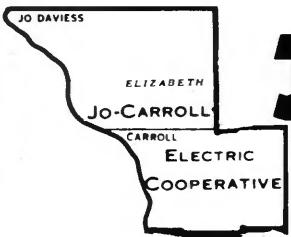
ADDRESS _____

CITY _____ STATE _____

ZIP _____ PHONE _____

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Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311

Manager's Report

by
Gary
Stuva



Help! I am without electricity!

What do I as a member do when I am without electricity?

Do you get the hopeless feeling that you are all alone when the lights go out?

There are several things you can do to help yourself and your cooperative:

1. Is all the electricity off or only part of it? Do part of your lights work, but nothing on 220 volts, such as your range, dryer, water heater or some other large motor? If this is the case, you could have blown a main fuse. (You should always have a spare fuse handy.) Try one fuse and then the other to see if they will work. If only the house is involved, you could have a main fuse blown in the fusebox in the house.

2. Check the overhead wiring and other loads to try to determine the cause of the outage before replacing

the fuse.

3. If all the electricity is off, check with the neighbors to see if they are without electricity before calling us. This will help us determine if a complete line is off.

4. Know your location number before you call, as this will help in locating the problem. Your location number is on your billing cards.

5. Always report the outage in the name of the person who pays the bill. If you are a renter, give your name and the name of the owner. In many cases, the renter pays the bill in the owner's name.

6. If you know of a tree or other obstacle that could have caused the outage, report it at that time. This helps in line outages, as we can travel to the last point of connection.

7. Should an outage be caused by negligence of the member, such as cutting trees into the lines or digging into the buried lines, the outage time is charged to the responsible member. If the cause of the outage is determined to be from your wiring, you may be charged for the service call.

8. Night or day, call 858-3311. Please call this number for the quickest service, the dispatcher will immediately call the standby crew; if you

call a director or employee, you are only prolonging the outage. In some cases, the outage calls are long distance, (we will accept collect calls for outages only) however; if we know of a specific outage, we will not accept the long distance call and will advise the operator we know of the problem. This is money in your pocket and we do not want you to feel offended should this happen to you. There have been cases when four or five long distance calls have been received on the same outage.

9. Last, many outages are caused by your wiring being damaged or a direct short caused by the members equipment. Our obligation ends at the meter. Should your own wiring be torn down, it is your responsibility to call your own electrician to restore the service. If we are called to restore your own wires, you will be billed for our services. There may be cases where your electrical contractor cannot solve your problem, our employees will assist you on an advisory basis during normal working hours.

If your power goes off

1. Check your main fuses or circuit breakers.
2. Check your meter pole, If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found. Please give the person who answers the phone the member's name as it is billed, and other information requested. Jo-Carroll Electric Cooperative's number is (815) 858-3311 day or night.

Look up and live

Metal buildings, grain bins, augers, iron pipes, metal ladders, T.V. antennas, stacked hay bales, etc., near the power line can be fatal when contact is made. Be very careful. It can also be very dangerous when children climb trees if electrical lines are near. Please check your premises. Many fatal accidents result in rural America each year from similar circumstances.

Don't risk installing an antenna or mast if it could possibly fall within several feet of an electric service wire.

Since mobile farm equipment has grown in size and height in recent years, also C.B. antennas on top of equipment, it is important that operators of such equipment be very cautious of the hazards of contacting overhead electrical lines, especially entering fields and driveways, etc.

Phone (815) 858-3311 for advice on construction of bins, metal buildings, well drilling, etc., under power lines.

Your lifestyle can make a difference

Joe Ca

You know, you have complete control over how you use your electricity. You choose the ingredients that are necessary for you to maintain your standard of living.

The way you live and the way you use your electrical appliances have a greater impact on your consumption of electricity than the number of appliances you have.

This pie chart shows the amount of energy used in the residential sector nationwide.

Illinoians, on the other hand, have relatively good lifestyles, and we tend to use more energy than the national average. This applies to all forms of energy — not just electricity.

Let's take a look at some of these "lifestyle considerations" that can make your electric bill appear to be higher than "normal."

Family Size

Let's face it, there is a direct relationship between the number of people living at home and the amount of energy that is used. That's especially true if you have teenagers at home. In addition, if friends and relatives are visiting, you can expect to use more energy for cooking, baking, laundry, and hot water.

Space Heating and Cooling

From a comfort standpoint, most of us prefer to be relatively cool in summer and warm in winter. Others prefer temperature extremes. In Illinois, humidity plays an important part in our year-round comfort, too. If we operate dehumidifiers in summer (and, to a lesser degree, humidifiers in winter), this contributes to our household energy consumption because they tend to run continuously. Portable space heaters, air conditioners, and fans in such places as the garage and basement also contribute to our energy consumption.

By taking a look at our "comfort" lifestyle in terms of maintaining relative humidity and temperature, we can use energy wisely in many ways. These range from adding insulation, weatherstripping and caulking to simply turning down the heat and turning off the air conditioning in rooms not used.

Water Heating

About 15 percent of the energy used in the average American home is for water heating. Hot water plays a very important role in everyone's lifestyle — but many lifestyles require substantial quantities of hot water, and that results in higher energy use.

Ask yourself some of the following questions:

"When I take a bath, do I use hot water sparingly, or is the tub completely full of water?"

"Do I take short showers, or do I stay in the shower until the hot water gets cold?"

"Do I repair leaky faucets, or simply let them drip and waste hot water?"

"Do I operate automatic washers and dishwashers with a full load, or just whenever it's convenient (like with a pair of jeans or just a few dishes)?"

Appliance Use

We have a host of time and labor saving appliances available to help us do our work whenever we need their service. As you work through this guide, you may notice how many more electrical servants you have than you expected. These appliances work for you around the clock, whenever you choose to use them. But wise use of appliances can have a positive effect on your energy consumption.

For example, ask yourself questions like these:

"Do I turn off lights when a room is not in use, or do I leave them on?"

"Does my television set entertain the entire family, or does it entertain an empty room?"

"Do I leave the oven on 'warm' for an extended period of time, or do I cook many dishes at once and then turn the oven off?"

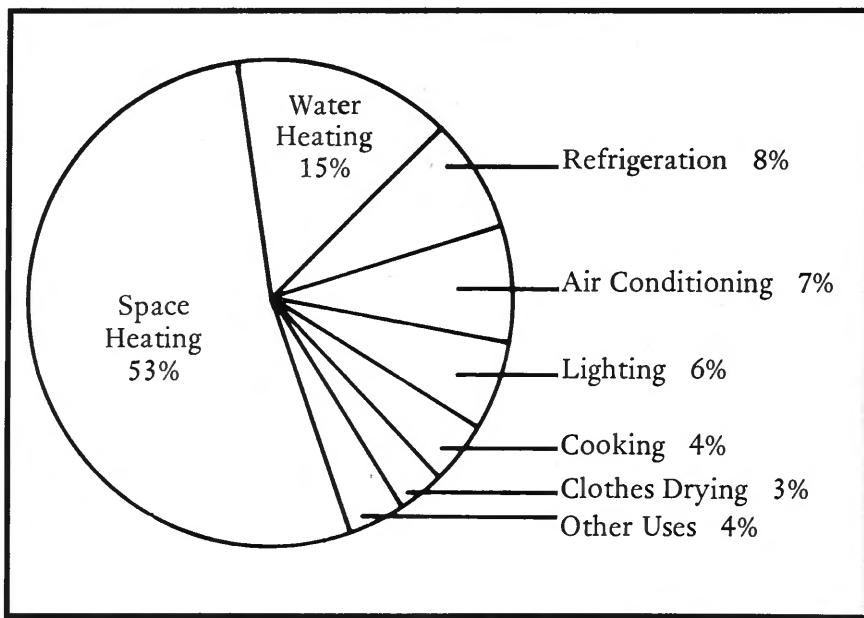
These are prime considerations that affect the amount of electricity you use to maintain your lifestyle. All Americans are part of the residential sector, and a spirited energy management consciousness is likely to start at home.

The effects of a home and farm energy management program can pay big dividends!

Why Is My Electric Bill Higher Than My Neighbor's?

You just answered this question yourself. It's your electric bill, and it reflects the amount of electricity consumed by you and your family in your home and on your farm.

Your neighbor may have a completely different set of circumstances: different number of people living at home, different lifestyle, different size home, different farming equipment and methods, etc. These and many other factors affecting your usage make a comparison with your neighbor less than meaningful.





ILLINOIS FARM
ELECTRIFICATION
COUNCIL



Looking over examples of proper wiring techniques for farm buildings are Doug Carolus, left, and Dick Hiatt. Carolus, an employee of Illinois Power Company, is chairman of the IFEC environmental control committee. Hiatt is on the staff of the Association of Illinois Electric Cooperatives.

Proper wiring a key to efficient electricity use in farm buildings

Each American farmer produces enough food for himself and about 80 other people, thanks in no small way to the efficient use of electricity. That efficiency includes proper wiring.

"Back before they had electricity on farms," said Roland Espenscheid, a University of Illinois agriculture engineering professor, "farmers tipped a bushel basket of corn over the fence to feed their hogs and carried feed to cattle in buckets. Operating that way, each farmer could produce enough to feed himself and about 10 other people." Espenscheid was speaking in June to those attending a special seminar on agriculture building wiring at Lincoln Land Community College in Springfield.

While electricity has brought increased productivity to agriculture, farm wiring presents many problems that are alien to residential or light commercial structures, Espenscheid added. The workshop, sponsored by

the Illinois Farm Electrification Council, was designed to acquaint power use-member service advisers with the problem and possible solutions.

The main thrust of the seminar dealt with wiring in "hostile environments," especially in the ammonia-laden and highly corrosive atmosphere in livestock confinement buildings.

"A carefully installed system of metal conduits and junction boxes that might well last the life of a farm shop or equipment shed would do well to last five years in a hog confinement building," noted Duane Crisp, manager of engineering for Chore-Time Equipment Company, a manufacturer of livestock feeding machinery and life-support equipment for confinement buildings. "We favor plastic in the livestock environment," he continued, "while metal may be just fine for shops or grain handling equipment."

Speakers generally noted that a lack of awareness has been a big part of the

problem. Since confinement livestock production grew so quickly, many buildings are relatively new. Corrosion is just now reaching really serious proportions.

Manufacturers have been quick to respond to the need for corrosion-resistant hardware, and part of the seminar was given over to demonstrations and exhibits of plastic fixtures and heavily plated metal hardware, much of which have come on the market recently, while some have been "borrowed" from marine or other heavy-duty product lines.

Don Davis, personal line loss control coordinator for Country Mutual Insurance Companies, discussed wiring from an insuror's viewpoint.

"There are some really bad wiring situations on Illinois farms," he said, "and many of them are because farmers did their own wiring and either didn't know how to do it right or cut corners here and there. Many dangerous situations have cropped up

WHEN YOU NEED MORE SPACE

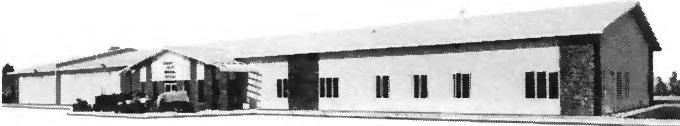
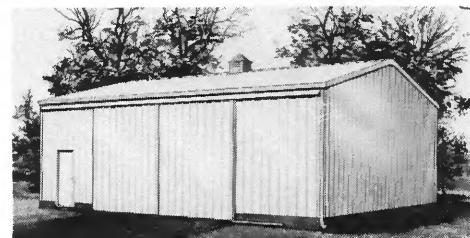


Sooner or later, just about every homeowner runs out of places to put things. Fortunately, it's a problem your local Bonanza Builder can help with, because he's had plenty of experience helping other people build a little extra storage space into their lives. Whether you need a simple garage for storing an assortment of family cars, plus some extra room for tools and yard equipment, or a larger utility building to house a workshop, hobby center, recreational vehicles, boats, implements and the like, Bonanza has exactly

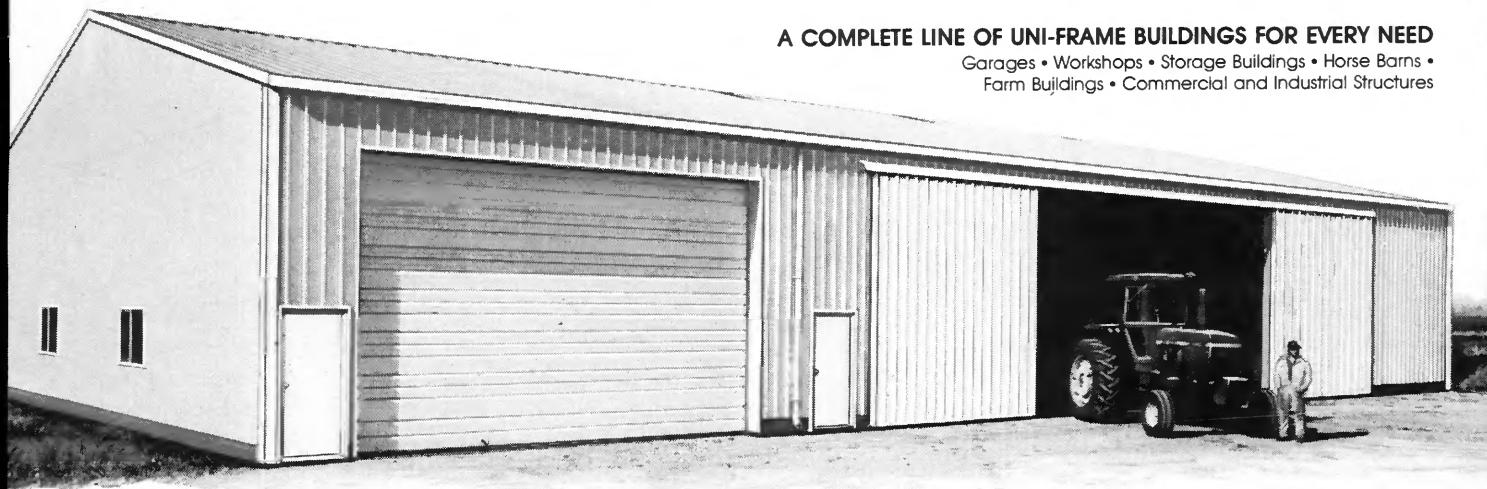
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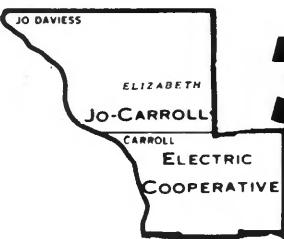
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Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311



Directors of Jo-Carroll turn the ceremonial first shovels of dirt at the new headquarters site. From left, they are, Richard Reusch of Elizabeth, Clarence Glasker of Hanover, Roger Schlichting of Apple River, Elmer Malon of Apple River, Leonard Rieke of East Dubuque, Vernon Law of Savanna, Charles Flikkema of Lanark, John Janssen of Chadwick and Ward Dangel of Savanna.

New headquarters will consolidate operations

Directors of Jo-Carroll Electric Cooperative broke ground August 29 for a 17,000-square-foot headquarters and warehouse complex to be built on the western edge of Elizabeth.

When completed, the new building will consolidate cooperative personnel, equipment and supplies from four different sites. Present offices of Jo-Carroll are located at Myrtle and Madison streets in Elizabeth.

Among the more than 100 who attended the groundbreaking ceremonies were Elizabeth Mayor Miles Kahl and several city councilmen; former Jo-Carroll manager Charles (Chuck) Youtzy; Frank Linder, general manager of Dairyland Power Cooperative of La Crosse, Wis.; Thomas H. Moore, executive vice president and general manager, Association of Illinois Electric Cooperatives of Springfield; David Hatley of Eau Claire, Wis., Rural Electrification Administration general field representative; and Jim Straka of Dubuque, Iowa, building architect.

The building will be of steel-frame construction with metal roof system and exterior walls of cement plaster

over rigid insulation with a main upper level facing Route 20 and a rear lower level. Five heat pumps will be used for heating and air conditioning. The building will incorporate passive solar design with extra insulation to keep heating and cooling costs down. Heating should be required only on the coldest winter days. Cost of the new facility will be approximately \$660,000. The lower warehouse-garage area at the rear of the structure will include eight vehicle bays, vehicle maintenance facilities, offices and a meeting room for cooperative and community activities. In addition to the office-warehouse structure, the cooperative will locate a pole rack and transformer storage platform at the back of the six-acre site.

Low bidder was Maryville Construction Company of East Dubuque. Estimated construction time is 10 months, according to Straka.

The need for modern, inside storage of equipment, supplies and vehicles was a primary objective of the board in its decision to construct a new headquarters. Trucks and other similar equipment are now stored outside and trans-

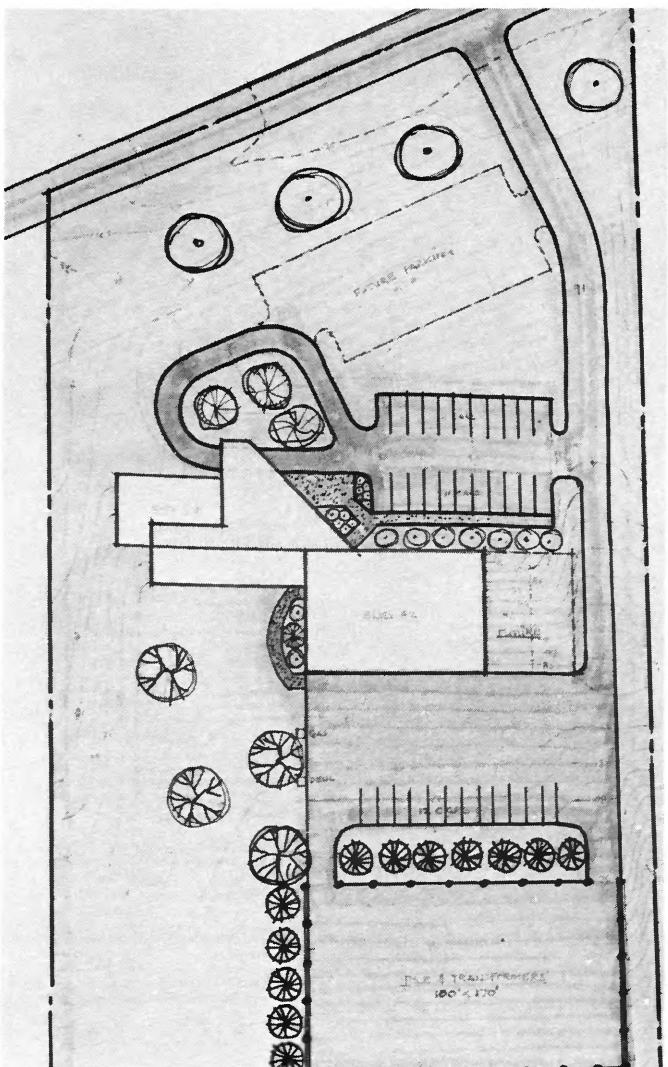
formers, wire and other supplies are stored in and around an old railroad depot in Elizabeth. A pole yard is located several blocks from the present office and a very limited amount of inside vehicle storage and maintenance space is located about one block from the present office building.

Hatloy cited the strong support of Jo-Carroll members for the plans to build the new headquarters as a "real good example of members involved with cooperative actions."

Moore said Jo-Carroll's contributions to the Jo Daviess and Carroll counties area are evident and that the consolidation of work and storage sites will further enhance the cooperative's ability to keep pace with the growing area. "Jo-Carroll Electric Cooperative is a shining example of what the rural electrification program was organized and established to do and what it will continue to do for the years to come," Moore added.

Jo-Carroll Electric Cooperative was organized in April of 1939. Twenty miles of line was energized on May 3, 1940, to serve 60 members. Today, Jo-Carroll has almost 1,000 miles of energized line to serve more than 3,700 meters at farms, rural homes and businesses in the two counties. Gary E. Stuva is manager of the cooperative.

This is an architect's drawing of the site of the new headquarters-warehouse complex. The building is represented by the light areas in the center of the photograph. The site is on Route 20 (shown at the top). The building will be of passive solar, energy-efficient design and will feature a drive-in window accessible by the circular drive just north of the building. Pole and transformer storage is located south of the building.



Jo-Ca

Nine appointed as nominating committee

To the members of Jo-Carroll Electric Cooperative, Inc.

Pursuant to the Bylaws of the Cooperative and in compliance with United States Department of Agriculture Rural Electrification Administration Revised Bulletin 20-19,

Notice is hereby given to the members of Jo-Carroll Electric Cooperative, Inc. that the Cooperative will hold its annual meeting of its members on Saturday, December 3, 1983, commencing at 10 a.m. at Hanover, Illinois;

Notice is further given that the terms of office of the following Directors of the Cooperative will expire at said annual meeting:

District No. 2: Elmer Malon, Apple River

District No. 6: Ward Dangel, Savanna

District No. 9: John Janssen, Chadwick

Notice is further given that the Board of Directors of the Cooperative have appointed the following persons as a nominating committee in their respective districts, as follows:

District No. 2

Orville Boldt

Elmer Krug

Ed Troyke

District No. 6

Greg Brinkmeyer

Paul Rath

Paul Lomax

District No. 9

Kenneth Tripp

Louis Akker

Glenn Pauly

Notice is further given that the above nominating committees will meet at the offices of the Cooperative, at 200 West Myrtle Street, Elizabeth, Illinois, on Tuesday, October

18, 1983, at 8 p.m. for the purposes of nominating candidates for election to the Board of Directors from said districts, and that all members are encouraged to attend and participate in said meeting. Copies of the Bylaws of the Cooperative are available at the Cooperative offices for all members who desire the same.

The Bylaws provide that each member shall be entitled to one vote upon each matter submitted to a vote at the meeting of the members, and that proxy voting is prohibited.

The Bylaws also provide that the nominating committee, upon making its nominations, shall prepare and post at the Cooperative offices, at least 45 days before the annual meeting of members, a list of nominations for Director in each said district.

The Bylaws further provide that any 25 or more members residing in a district for which a director is to be elected may make other nominations in writing over their signatures not less than 35 days prior to the annual meeting of members.

LEONARD RICKE
Secretary of the Cooperative
August 23, 1983

Tasty fare for a crisp autumn day

PORK CHOPS WITH MUSHROOM GRAVY

4 pork chops, 1-inch thick
2 tablespoons cooking oil
1 cup sliced fresh mushrooms
(or drained canned ones)
1/2 cup chopped onion
3/4 teaspoon Worcestershire sauce
1/2 teaspoon dried tarragon, crushed
Salt and pepper

In 12-inch skillet, brown chops on one side in hot oil. Turn; add mushrooms, and onion and brown on other side. Season with salt and pepper. Add chicken broth, Worcestershire sauce, tarragon, and the 1/4 teaspoon salt. Cover and simmer 35 to 40 minutes. Remove chops to serving platter. Keep warm. Spoon fat from juices. Measure vegetable juice mixture, reserving 1 1/4 cups. Combine cold water and flour. Stir into juices in skillet; add chives. Cook and stir until thick and bubbly. Cook 2 minutes more. Spoon over chops. Garnish platter with cherry tomatoes. Makes 4 servings.

CHICKEN RAVIOLI

1 pkg. noodles
3 cans cream of mushroom soup
1 hen or 2 fryers
1 green pepper, chopped

Cook hen, remove meat from bone and cut into bite size pieces. Sauté onion and pimento in chicken fat. Cook noodles in chicken broth, add a little water if needed. Combine all ingredients, place in large casserole and cover with grated cheese. Bake at 400 degrees until mixture is hot through and cheese is melted.

RED HOT SQUASH CASSEROLE

6 to 8 medium yellow squash, sliced
1 large onion, chopped
1 teaspoon salt
1 teaspoon sugar
Paprika

Boil squash and onion in water with salt and sugar until done. Drain well in a colander and pour into a 1-quart casserole dish. Make a sauce of cheese and milk; pour over squash; add peppers; mix well. Garnish with paprika. Heat in 350-degree oven uncovered for 20 to 30 minutes, or until thoroughly hot.

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CHEESE-STUFFED PEPPERS
1 pkg. (3 oz.) cream cheese (softened) 1/4 cup shredded carrot
2 tablespoons oleo (softened) 1 medium green pepper
1/2 cup shredded cheddar cheese 4 large slices rye bread, halved
1/4 cup diced celery

In small bowl, cream cheese with oleo until blended. Stir in cheddar, celery and carrots; mix well. Cut stem end from pepper; remove seeds. Pack with cheese mixture. Chill overnight. Slice thin and arrange on bread halves. Cut each half in two. Makes 16 pieces.

TOMATO RELISH

20 cups ripe tomatoes, peeled and cored 1/2 cup hot peppers chopped
8 onions chopped 3 cups sugar
8 bell peppers chopped 3 cups vinegar
6 tablespoons salt 1/2 box pickling spices

Chop, mix and cook slow after reaching boiling point, for two hours. Stir often, place in jars and seal.

CHICKEN LIVERS PEKING

1 lb. chicken livers, cut up 1/2 cup chicken broth
2 tablespoons oleo 2 tablespoons soy sauce
2 tablespoons chopped onion 1 tablespoon cornstarch
1 (3 oz.) can sliced mushrooms 1/4 teaspoon ground ginger (optional)
2 (10 oz.) pkgs. frozen Chinese vegetables with seasoned sauce

In large skillet, cook livers in oleo till just brown; remove from pan. In same skillet, cook onions until tender. Add Chinese vegetables with sauce, undrained mushrooms, and 1/4 cup of broth. Cover and simmer until vegetables are thawed, about 3 minutes. Stir to break up sauce cubes. Simmer, covered about 5 minutes or till tender. Stir together remaining broth, soy, cornstarch and ginger. Add to vegetables, cook and stir until bubbly. Add livers; heat through. Serve over hot cooked rice. Makes 6 servings.

SWEET POTATO PIE

2 1/2 cups cooked mashed sweet potatoes 1 teaspoon vanilla
4 eggs slightly beaten Dash of salt
2 1/2 cups sugar 1 can Dime Brand milk
1 teaspoon nutmeg (optional or other 1 stick oleo, melted
spices if you wish)

Mix and pour into unbaked pie shell. Bake at 350 degrees until filling sets. Chill and serve. May be frozen for later use if only baked half brown.

ORANGE SHERBET

64 oz. bottle orange drink 2 cans Eagle Brand milk
1 small can (8 1/2 oz.) crushed 1/4 cup sugar

Mix all the above ingredients together and pour into freezer and freeze.

COCONUT MOUNDS

3/4 cup mashed potatoes, prepared 1 (12 oz.) pkg. semi-sweet chocolate
from instant potatoes pieces
1 lb. confectioners sugar 2 (1 oz.) squares semi-sweet choc'ate
1 lb. pkg. unsweetened coconut 1 oz. square paraffin wax
1 teaspoon almond extract

Combine potatoes, sugar, coconut, almond extract in a large bowl. Mixture will be stiff and needs to be worked with hands. Form mixture into 3/4-inch balls and place on cookie sheet. Chill about 6 hours. Place chocolate pieces and squares and paraffin in top of double boiler over hot (not boiling) water stirring until melted. Remove from heat and with toothpick dip each ball in chocolate until coated. Place on cookie sheet and chill again until hard. Place or pack on or between wax paper and store in cool dry place. Makes 3 pounds.

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electrics borrow most of their funds for construction from a revolving fund in the federal Rural Electrification Administration. Legislation establishing this fund in 1973 fixes the interest rate for most loans at 5 percent, and permits 2 percent in some hardship cases. When the fund was created, its assets were commitments of rural electric and telephone co-ops to repay previous REA loans, and the agency's cash on hand.

Dollars to lend were obtained by pledging the fund's assets and borrowing from the U.S. Treasury at going market interest rates. As the cost of money escalated in recent years, while the agency's lending rates remained fixed, the dollars of interest income at 5 percent were significantly short of the interest expense, which sometimes climbed as high as 15 percent. The excess of outgo over income promised that in time the body of the fund would have been eaten away in payments to make up the difference.

After a two-year study, the rural electric cooperatives decided they would need to face up to higher interest payments in order to preserve their principal borrowing source, the revolving fund. They took the lead in developing legislation which authorizes the REA Administrator to adjust the interest on revolving fund loans whenever necessary to keep the fund stable.

Companion measures were introduced in both houses of Congress: S.

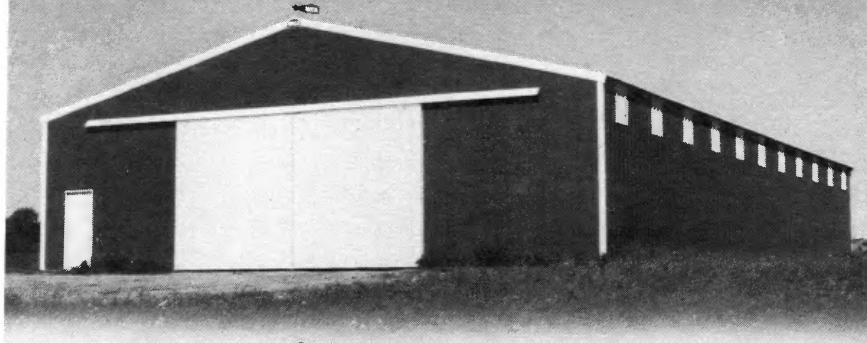
Zorinsky said. "We have a well-thought-out plan that has been studied for almost two years. It asks for no quick-fixes or crash programs, but a simple, sensible solution to maintaining one of the most successful programs this government ever created."

The legislation also provides that the Treasury obligations now comprising the assets of the fund will be converted to permanent capital. This still requires that all rural electric loans must be fully repaid, plus interest, but

calls for such dollars to be held in the revolving fund rather than the Treasury and keeps them available for further lending.

The bills also would authorize future refinancing of revolving fund borrowings from the Treasury, and of a different type of loan used chiefly by the cooperative producing electricity for wholesaling to the distribution organizations. This would permit substantial interest savings at times when rates drop.

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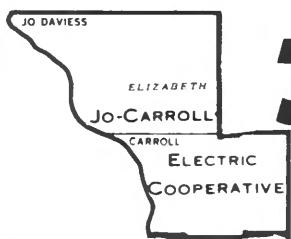
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1300 by Kentucky Sen. Walter Huddleston, and H.R. 3050 by Tennessee Rep. Ed Jones. At last count, several weeks ago, they had been joined in sponsorship by 37 senators and 145 representatives.

"It is a tribute to the rural electric systems of the country that we have this proposal before us now," Senator



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Manager's Report

by
Gary
Stuva



Because one out of every four Americans belongs to a cooperative, it isn't surprising that the annual observance of Cooperative Month in October has become an important event all across the country.

"Oh sure, I know what a cooperative is. It's one of those places that sells seeds and fertilizer or provides electricity."

"Well, my dad may have needed the security of a cooperative, but not me. I can get a better price right down the road."

"Sure I'm a coop member. My

family has all been members — just a habit I guess — I don't really use it."

Comments like these are not unusual. There is a growing evidence that the public is less aware of cooperatives and their functions than a few years ago. Additionally, many cooperative members are unclear about the objectives of their cooperatives as indicated by their lack of support.

Jo-Carroll Electric Cooperative is one of the nation's 1,000 rural electric cooperatives participating in the national observance of Cooperative Month.

This year's theme, "Building a Better America," is especially meaningful to rural electric cooperatives because business, industry and other community development have grown and prospered in rural areas and small communities because of electricity.

The rural electric program has overcome numerous obstacles, but rural electric leaders, with the support

and active involvement of consumer-members, will find workable solutions to the problems they face.

The coming challenge to the directors and management of rural electric cooperatives is whether or not a new generation of members will remember why and how their parents got electricity in the rural areas and if they recognize that the need for rural electrification is even greater today than ever.

Today one of our most important goals is to remind our members that the Cooperative is more than just a utility that provides electricity. The Cooperative exists because of involvement and concern of its members. Conducting business the cooperative way — through the democratic process of one vote per member — has proven successful since its inception 44 years ago. Grassroots involvement and member action is the core of the rural electric program.



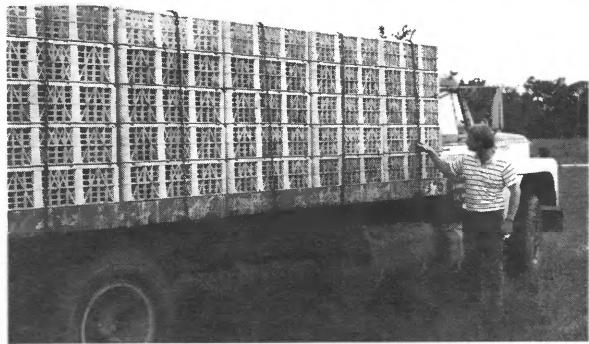
Young mallard awaiting shipment.

Hanover duck

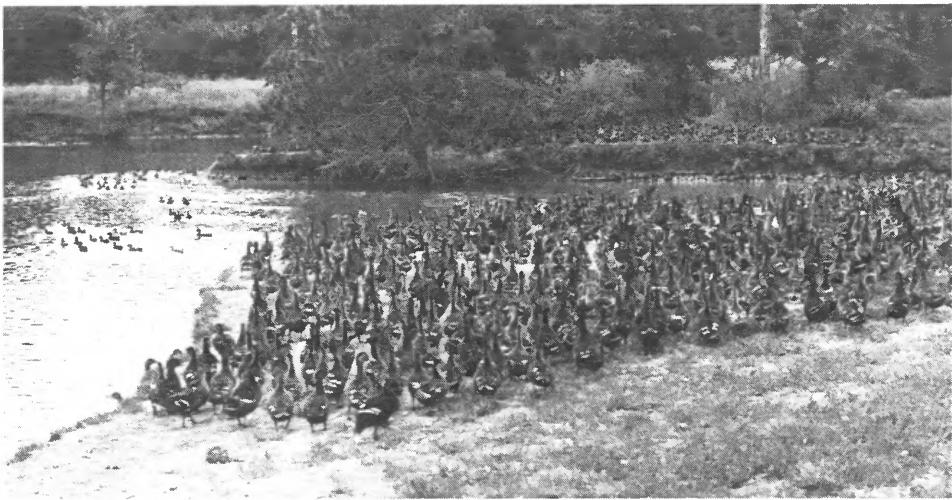
Step inside Leo Whalen's Whistling Wings office in Hanover and you can hardly miss the rack bulging with airline schedules. The batch of schedules gives visitors the instant impression that Whalen's business is "going places."

Actually, it's been going places for quite some time. In fact, the 30-year old mallard duck business has been shipping Hanover-produced birds all over the world for a long time. Leo estimates that his firm has produced well over a million ducks in those 30 years, and says that present annual production is more than 100,000.

Operating out of a former meat locker on Route 84 in the middle of Hanover, Whalen oversees one of the world's most unusual businesses.



Clockwise from upper left: Bill Whalen and plastic shipping crates. Marianne and Leo Whalen. Ducks everywhere at the lake farm. Banner proclaims Hanover's title.



producer world famous

The Hanover site includes the offices and incubator-hatchery part of Whistling Wings. It is the second stop along the way for the birds. Eggs produced at WW's breeding farm south of Hanover are brought daily to the incubators for 24½ days of temperature and humidity controlled environment. Whalen says the eggs must be kept at 99 degrees, with 85 percent humidity, and the eggs must be rotated regularly to assure uniform embryo development.

When the ducklings begin to punch through the shells, they are transferred to the hatchery unit, which has a lower temperature and humidity. After about two-and one-half days there, Whalen says, they will be ready for shipment to buyers or placed on

the company's third site, a lake farm southeast of Hanover where they live until they are large enough for sale.

There's probably no complete list of the places Whalen has shipped birds, but he knows for sure that all 50 states, Japan, Spain, England, France, the Philippines, Lebanon and Nassau have been on the receiving end of shipments from Jo Daviess County.

The uses are varied too. A small part of his production is sold fresh dressed and smoked; the latter is a gourmet treat sold in specialty shops and by mail-order firms. Dressed or smoked birds weigh about two pounds. The largest number of the birds are sold for stocking purposes: hunting and game preserves, state and federal conservation areas, or private

wildlife restocking projects such as reclaimed coal mine pits. Whistling Wings ducks are also in great demand across Canada for use in field trials and bird dog training. Many universities and companies use the ducks for research too, Whalen notes.

Leo has always made sure that he produces the highest quality mallards for the market. It might be easier to produce and sell pen-raised birds, he says, but he insists on truly wild ducks. No mallards are sold as pets.

Whistling Wings is a family business. Son Bill runs the hatchery; one daughter, Marianne, is the secretary; another son, Wayne, is an attorney who handles legal details, and another daughter, Barbara Houseman, and her husband, Don, run the farm. Like all farm wives, Leo says, "Ester Whalen keeps the home fires burning and the rest of us in line."

ENCHILADA CASSEROLE

1 1/2 lbs. ground beef
1 onion (use dried onion)
1 can mushroom soup
1 can cream of chicken soup
Brown meat and onions. Drain off excess fat and add soups and taco sauce. Simmer a few minutes. Grease large pan and line with half of the tortillas. Layer cheese and meat and tortillas. Top with cheese and bake at 350 degrees. Serves 6-8.

PATIO FREEZE

1 cup sugar
1 No. 2 can crushed pineapple and juice
2 cups mashed bananas

Combine all ingredients in blender and freeze in oblong pan, muffin cups or trays.

TOUCHDOWN CHILI DIP

1 onion, chopped
1 green pepper, chopped
2 tablespoons butter, melted
1 can chili without beans

Saute onion and green pepper in butter until onion is clear. Stir in chili and soup. Blend well. Add cheese, heat until partially melted. Pour into chafing dish; serve with corn chips. 12 servings.

COCKTAIL MEATBALLS

3 lbs. hamburger
3 eggs
1 1/2 teaspoons red pepper
1 tablespoon garlic powder

Beat eggs with mixer, add spices. Crush crackers with rolling pin and add to eggs and spices. Add hamburger and mix with hands until well blended. Shape into small balls. Brown in oil. Drain and freeze in tightly-covered container until ready to use. Pour both bottles of sauce over and heat in oven. Can be used immediately instead of freezing.

CHICKEN SAUSAGE GUMBO

2 chickens, skinned, cut-up
2 or 3 lbs. sausage
1 whole stalk celery
4 onions

Make a roux of flour and oil by putting in microwave 3 minutes or until it turns brown. Saute vegetables in roux 15 minutes. Put into pot with chicken and sausage. Add 1 quart water or more. Cook 1 1/2 to 2 hours, skimming off excess grease. Season with salt, pepper, red pepper and garlic before putting in pot. When chicken falls off bone, it's done. Serve over rice with garlic bread to 8.

LASAGNA

1 pkg. lasagna noodles
Cheeses: mild Cheddar, sharp Cheddar, Parmesan, Mozzarella
(1/2 to 3/4 lb. each)
2 jars Italian Ragu (mild) cooking sauce

Brown meat with chopped onion. Put garlic powder, salt and pepper on this while browning. Add sauces to mixture. Cook noodles. In large pan put a layer of sauce on bottom. Then layer with noodles and cheese, add 1/2 sauce and then repeat. Bake at 350 degrees for 30 to 45 minutes.

BUTTERMILK PECAN CHICKEN

2 fryers, cut up
1/2 cup margarine
1 cup buttermilk
1 egg, beaten
1 cup flour
1 cup ground pecans

Melt margarine in large shallow pan. Mix buttermilk with egg in small bowl. Mix together flour, pecans, paprika, salt, pepper and sesame seeds in another. Dip chicken in buttermilk mixture, then in flour mixture. Place skin side down in melted margarine in pan; then turn to coat with margarine and leave skin side up. Place pecan halves on each piece if desired. Bake at 350 degrees for 1 1/4 hours, or until done and golden brown. Serves 8.

SPANISH CHICKEN

1 large pkg. taco-flavor Doritos
1 large boned chicken (chopped)
1 small onion
1 small can chopped chilies (opt.)
1 pkg. Cheddar cheese

Bring to a boil: soups, broth and tomatoes. Add onion, chicken and crumbled Doritos. Cover dish and bake 30 to 40 minutes at 350 degrees. Remove cover and top with grated sharp Cheddar cheese. Return to oven until cheese melts.

TUNA CASSEROLE

1 small pkg. shortcut elbow macaroni (8 oz.), cooked
1 small can tuna
1 can cream of mushroom soup
1/2 can milk (use soup can)
1/2 med. onion (grated)

Cook macaroni as directed on package. Toss together all other ingredients while macaroni is cooking. (Leave cheese until last.) Add macaroni to mixture and top with grated cheese. Bake in oven at 350 degrees for 30 minutes.

STEAK MARINATE

1 tablespoon garlic salt
2 tablespoons celery salt
1 tablespoon dry mustard
1 dehydrated horse radish
1 tablespoon onion salt

Combine ingredients.

CABBAGE CASSEROLE

1 med. cabbage
1 lb. ground lean meat
1/4 cup green onions (chopped)
1 med. onion (chopped)
2 cloves garlic (minced)

Cut cabbage as you would to smother and boil in salted water until tender, but still green. Drain and reserve the liquid. Melt the butter in a deep skillet and fry meat with onion, garlic and seasonings until brown. Mix cabbage with meat. Add green onion, mushroom soup and boiled rice. Pour into greased flat pyrex dish. Top with bread crumbs and bake 20 to 30 minutes at 300 degrees. (Before baking if mixture appears dry add some of the water reserved from boiled cabbage.) Yield: 6-8 servings.

PENNSYLVANIA DUTCH PIE CRUST

3 cups flour
1 teaspoon salt
1 1/4 cups shortening

5 tablespoons water
1 egg
1 teaspoon vinegar

Sift flour and salt; cut in shortening until mixture resembles coarse cornmeal. Beat water, egg and vinegar together; stir in flour mixture. Shape into ball. Chill. Turn out on floured board, roll to fit pie pan. Bake for 10 to 12 minutes in 425 degree oven. Yield: pastry for two 2-crust pies.

DIXIE FUDGE CHESS PIE

1 1/2 cups sugar
1 stick butter
3 eggs (slightly beaten)

4 tablespoons cocoa
1 teaspoon vanilla
pinch of salt

Mix sugar and butter. Add other ingredients. Pour in uncooked pie shell. Bake at 425 degrees for 10 minutes. Turn down to 350 degrees for 30 minutes.

VEGETABLE PIE

1 pie shell
2-3 small squash
1 bell pepper
1 med. onion

fresh mushrooms—as desired
1 sliced tomato
1 cup mayonnaise
1 cup mozzarella cheese

Chop or slice squash, pepper, onion and mushrooms. Saute in butter and drain. Set mixture aside. Combine mayonnaise and mozzarella cheese together. Line pie shell with tomatoes; top with vegetables; then top with mayonnaise and cheese mixture. Bake at 350 degrees for one hour or until brown.

STIR-'N-DROP OATMEAL COOKIES

1 cup flour
1 teaspoon baking powder
1/2 teaspoon salt
1/2 teaspoon cinnamon
1/2 teaspoon ginger
1 cup brown sugar, packed

1 cup rolled oats
1/2 cup vegetable oil
2 tablespoons milk
1 egg
3/4 cup chopped walnuts

Pre-heat oven to 375 degrees. Lightly grease baking sheet. Mix first 5 ingredients together. Add brown sugar and oats. Mix well. Combine vegetable oil, milk and egg together and add to mixture. Stir in walnuts and drop dough by rounded teaspoons about 2 inches apart on baking sheet. Bake about 10 minutes. Cool on wire rack. Yield: 3 dozen.

GRAHAM CRACKER COOKIES

FILLING:
2 sticks oleo
1 1/4 cups sugar
1 egg
1/2 cup Carnation milk

1 cup nuts
1 1/2 cups coconut
2 cups crushed graham crackers

ICING:
1 1/2 sticks oleo
1 box powdered sugar

4 tablespoons Carnation milk
1 teaspoon vanilla

Take a large cookie sheet and place graham crackers on it all going same way. Then prepare filling. Melt oleo and add sugar, egg and milk. Bring to a boil, take off heat and add coconut, nuts and crushed graham cracker crumbs. Mix all together and spread on crackers on cookie sheet, then add another layer of graham crackers (same way as first). For icing, mix together ingredients and spread on top of crackers, cover and refrigerate for several hours. Then cut into squares.

YUMMY CHOCOLATE SHEET CAKE

1 stick margarine
1/2 cup oil
1 cup water
2 cups flour (self-rising)
2 cups sugar

1 teaspoon cinnamon
4 tablespoons cocoa
2 eggs
1/2 cup butter
1 teaspoon vanilla

Melt margarine, oil and water. Bring to a boil. Add flour, sugar, cinnamon and cocoa. Mix well then add remaining ingredients. Stir and pour into pan. Bake at 400 degrees for 20 minutes.

ICING

1/2 stick margarine
1/4 cup water
1 lb. box powdered sugar

4 tablespoons cocoa
1 cup nuts

Melt margarine and water. Bring to a boil and add remaining ingredients. Spread on top of hot cake.

OATMEAL CAKE

1 1/2 cups hot water
1 cup minute oats
1 cup white sugar
1 cup brown sugar
1/2 cup shortening

2 eggs
1 1/2 cups flour
1 teaspoon soda
1 teaspoon cinnamon
1/2 teaspoon salt

Pour hot water over oats. Let stand. Cream sugar, brown sugar, shortening. Beat eggs into mixture. Sift flour with soda, cinnamon and salt. Add to cream mixture. Then add oats. Beat well. Bake at 350 degrees for 35 minutes.

Hot Line School

(Continued from page 5.)

Distance is safety."

Safety is always in mind at the school, and one man's hard hat sported a sticker proclaiming, "If you love life, live safety." and Dave Diederich and Jim Nevel of the AIEC Job Training and Safety Department made the rounds of the various work groups several times, making sure the

trainees did not pick up any unsafe habits.

While Diederich and Nevel were in overall charge of the school, several instructors from different cooperatives helped with hands-on work sessions, and Don Greene, job training and safety instructor from the Iowa Association of Electric Cooperatives, lent his expertise, too.

Cooperative instructors were: Al Becker and Delbert Boston, Rural Electric Convenience Cooperative Co., Auburn; Fred Boston, Western Illinois Power Cooperative, Jacksonville; Larry

Carter, Illini Electric Cooperative, Champaign; Meredith Chrisman and Wendell Lettner, Coles-Moultrie Electric Cooperative, Mattoon; George Claus and Don Long, Illinois Rural Electric Co., Winchester; Daryl Douglas, Adams Electrical Co-Operative, Camp Point; Bruce Hill and Chuck West, Corn Belt Electric Cooperative, Bloomington; Richard Hilligoss, Lyle Kofoot and Larry Niccum, Eastern Illinois Power Cooperative, Paxton; and Gary Hissong, Southwestern Electric Cooperative, Greenville.



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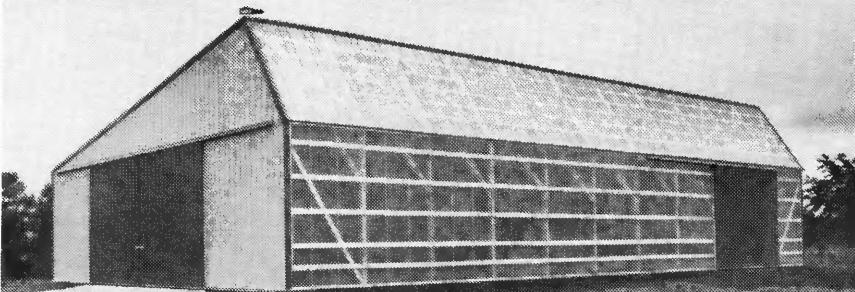
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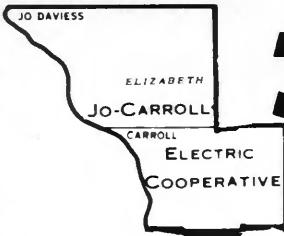
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Gary
Stuva



Please note the boxed material across the bottom of this page. It details the date, time and other particulars about your Cooperative's annual meeting December 3 in Hanover. You will notice that the schedule is different than in previous years. We will start registration at 11 a.m. and the business and election portion of the meeting will begin at 1 p.m. There will be entertainment during the lunch period. The length of the meeting will be about the same as in previous years. See you December 3.

This is your meeting. It's a time for your elected representatives and

management to bring you up to date on the status of your Cooperative's business condition, and a time for you to participate in the election of three members to the governing board of Jo-Carroll.

Your Cooperative's nominating committee met on October 18 and slated the following candidates for election to three-year terms:

District 2 — Elmer Malon (incumbent), 3A193 Bragg Ct., Apple River; Donald Stoewer, 6432 W. Miner Rd., Galena; and Jerome Vondran, 2907 W. Cording Rd., Galena. Nominating committee: Edward H. Troyke, Elmer Krug, and Orville H. Boldt.

District 6 — Ward Dangel (incumbent), John McColley and Richard Siedenburg, all of Savanna. Nominating committee: Gregory Brinkmeier, Paul Lomax, and Paul F. Rath.

District 9 — John Janssen (incumbent), R. 2, Box 125, Chadwick; and Jim Calhoun, R. 2, Box 75 Mt. Carroll.

Nominating committee: Kenneth Tripp, Glen M. Pauley, and Louis Akker.

CAPITAL CREDITS

Also during the meeting will be the distribution of more than \$50,000 in patronage refunds to members who received electric service in 1960 from Jo-Carroll. Capital credits represent the amount of your Cooperative's net margins for the given year. The refund of this amount is based on individual members' use of electricity during the year.

DAIRYLAND TOUR

In addition to the usual number of door prizes to be distributed during the meeting, Jo-Carroll will also conduct a drawing for 12 free tours for two persons each of the Dairyland Power Cooperative headquarters and power plant in La Crosse, Wis. This tour, which will be by bus, is tentatively planned for March. Dairyland is your Cooperative's power supplier.

Annual Meeting Program

Saturday, December 3, 1983
Hanover High School Gymnasium, Hanover

Registration 11 a.m.-12:45 p.m.

Entertainment by "Delta" 11:30 a.m.-12:45 p.m.

Lunch 11:45 a.m.-12:45 p.m.

served by the Jacobstown Community Club

Business Meeting 1 p.m.

Reports of officers and manager

Election of directors

Stanley Greathouse of Johnsonville — Guest Speaker

Illinois director of the National Rural Electric Cooperative Association.

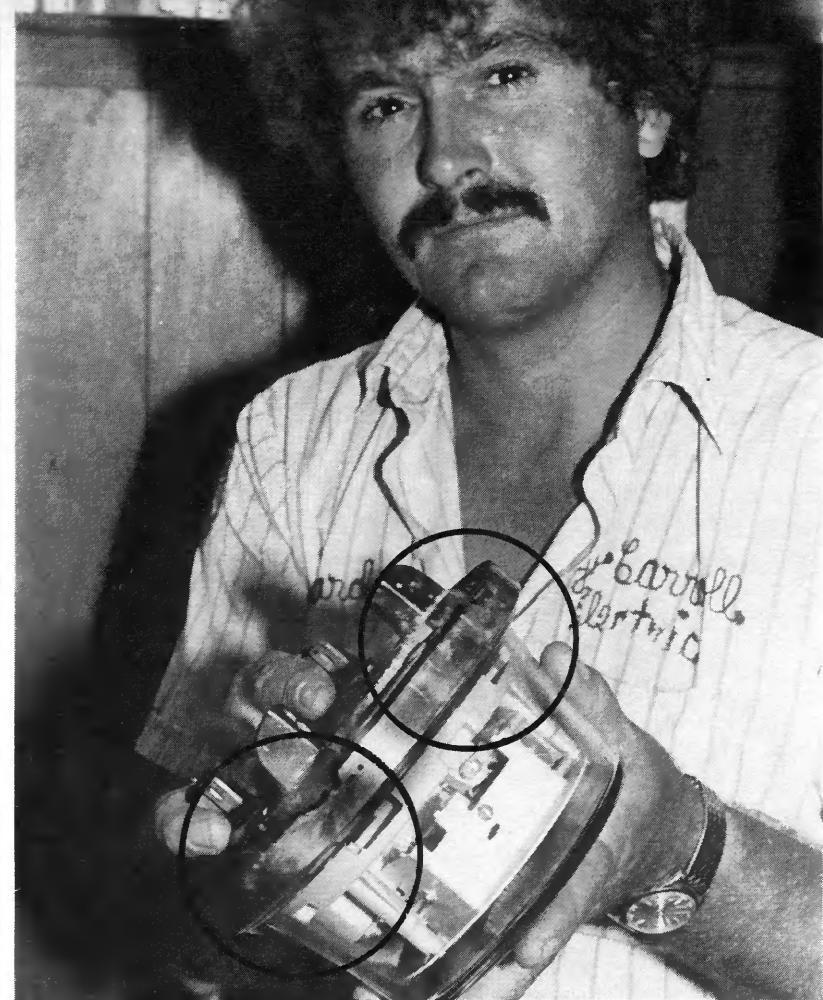
Attendance prizes will be awarded after the business meeting.

Canaries can save lives

Not so many people have canaries any more. Remember when the shroud was removed from over the cage each morning — how that bird would sing and sing? It was a marvel how such beautiful sounds could come from that little ball of yellow fluff. Few people could imagine that little bird could be useful for any other purpose. But it was. It could save lives — and many did. How?

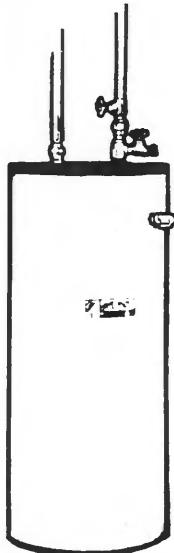
Prior to development of dependable gas-testing equipment, coal mines kept a supply of canaries. Whenever new sections of a coal mine were opened or when an older area was to be reactivated, a caged canary was carried into the area. Canaries react to the presence of carbon monoxide gas much quicker than humans. The miners closely observed the canary's reactions. In many, many instances, this reaction caused the miners to vacate the area in question. Although the canary usually died, the miners' lives were saved — and a noble little song bird got the credit.

So, if you have an unvented kerosene heater, or any other type of unvented fossil fuel heater, you should have a canary. It could save your life.



The burned poles on the back of this electric meter show what can happen to an electric meter when someone tampers with it. The electrical force that caused the burned poles can also cause serious and even fatal injuries to the person who is tampering with the electric meter. This damaged meter, being held by George Nardin, a Jo-Carroll lineman, was in service on your Cooperative's system. Meter tampering, unauthorized connection or a service or diversion of electric power to reduce kilowatt-hour registration or to avoid payment for electricity used is against the law. It is also a very dangerous practice.

Please Send Along With Your Next Bill Payment



Yes, I would volunteer to have a water heater control installed. (I understand there is no cost to me and that Jo-Carroll Electric Cooperative will credit my electric bill \$3.00 each month thereafter upon receiving my request.)

Install Control

House

Milkhouse

Other

Name _____

Address _____

Location No. _____ Phone No. _____

Date _____

Note: If you have previously made a request for a control — please DO NOT make a second request unless the installation has not been done. Thank You.



- No. 9237 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-3/8 yards 60-inch.
- No. 9498 is cut in Small (8-10); Medium (12-14); Large (16-18). Medium takes 1-1/8 yards 45-inch fabric.
- No. 4551 is cut in sizes 8, 10, 12, 14, 16, 18, 20. See pattern for yardages.
- No. 9318 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
- No. 4613 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-7/8 yards 45-inch fabric.
- No. 9408 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. See pattern for yardages.
- No. 9289 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) takes 3-3/4 yards 45-inch fabric.
- No. 9350 is cut in Child's Sizes (2, 4, 6, 8) are all included in pattern.
- No. 9098 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 4830 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) vest 1½ yards 60-inch; blouse 1½; pants 1-3/8.
- No. 9087 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 3-3/8 yards 45-inch.
- 4723 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) jumper takes 1-7/8 yards 60"; blouse 1-3/8 yards.

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

I have enclosed \$ (\$2.25 per pattern — cash, check or money order accepted) for the following patterns:

Pattern No.	Size	Pattern No.	Size
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Print Name

Address

City

State Zip

40 BRAND NEW TOWELS \$1.75!

UNWOVEN COTTON OR RAYON — Assorted beautiful Pastel Colors. BRAND NEW — NOT Seconds — 40 Towels for \$1.75 or 80 for only \$3.35. 120 just \$4.95. Super Quality. Pls. include 50¢ extra for psg. and hdng. with EACH set of 40 Towels you buy. We know Towels — we've sold 70,000,000 already. Fund Raisers write for quantity prices. Money-Back Guarantee. No C.O.D.'s. Pls. allow up to 6 wks. for delivery.

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LACE — LACE — LACE . . . 40 yards of Lace in delightful patterns. Edgings, insertions, etc. Assorted beautiful designs, colors and widths. Pieces at least 10 yards in length — none smaller. Marvelous for dresses, pillow cases, etc. Terrific as hem facing. Only \$1.75 or double orders \$3.35. 3 orders just \$4.95. Pls. include 50¢ psg. and hdng. with EACH set of 40 yards you buy. Satisfaction guaranteed! FREE with lace 50 BUTTONS!

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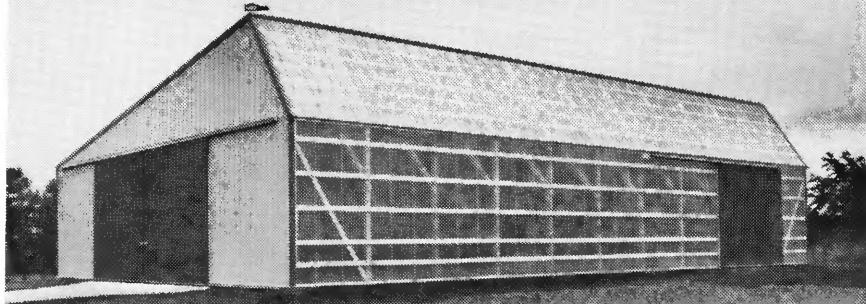
Jacksonville, Florida 32207



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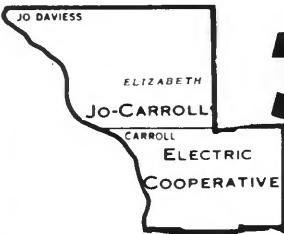
West Salem George's Farm Supply

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Selected dealer territories available. Contact: Wick Buildings, Mazomanie, WI 53560



Jo-Carroll Hi-Lines

"Serving a Fast Growing Recreation Area"

Jo-Carroll Electric Cooperative, Inc.

Elizabeth, Illinois

815 858-3311

Manager's Report

by
Gary
Stuva



Recent studies indicate that home heating will continue to take a larger portion of the family budget in the years ahead. While no two experts can agree on future costs, one thing is certain. Based on current trends, coal- and nuclear-generated electric heat will be far cheaper than heating with imported foreign oil.

A dual fuel heating system is one which can provide whole-home heating using electricity and one other fuel. Typical combinations are electric and

oil, or electric and gas. You heat about 90 percent of the time with electricity, but at times of peak electrical demand the electric heat is automatically switched off and the alternate fuel is used to satisfy the space heating requirements.

Dual fuel heating will help decrease the nation's dependency on imported foreign oil and save you money. Jo-Carroll can reduce its costs by decreasing electrical consumption at times of peak demand. These savings are passed on to you through a special interruptible (dual fuel) rate.

Jo-Carroll members can qualify by installing an approved dual fuel furnace or by converting your existing system to operate on both electric and an alternate non-electric fuel. A control device furnished by Jo-Carroll will allow Dairyland Power Cooperative

(our power supplier) to automatically switch your electric heat over to the alternate fuel during times of high electrical demand. Provide for separate metering of the heat, and you qualify.

Peak electrical demands usually occur between 5 p.m. and 9 p.m.

Dual fuel heating allows your cooperative to reduce demand charges, and enables your wholesale power supplier to avoid building and operating costly peaking generators and improve system operating efficiencies.

If you are interested in installing a dual fuel space heating system, contact the Jo-Carroll Electric Cooperative at 858-3311 for advice regarding equipment availability, service regulations, installation procedures and interruptible or dual fuel rate application information. Be sure to contact Jo-Carroll before you proceed.

Jo-Carroll has only one function

Jo-Carroll Electric Cooperative has only one function and that is to provide electric service to the members who own the cooperative.

Each member who receives service from the cooperative actually owns one share of the cooperative. There are no outside interests holding shares and there is no outside influence, as the cooperative is only accountable to the people it serves.

Policy and the overall control of your cooperative has been vested in a board of directors elected by the membership at the annual meetings. These board members are responsible to the people who elect them. They fulfill this responsibility by setting policies and by hiring a manager, who then hires the employees, who carry out the day-to-day activities of supplying the electric service the members need.

Prices are set to cover the cost of supplying this service and to provide a small amount of extra money, called margins, to finance new construction and system improvements. These margins are credited to each member's account as capital credits in direct proportion to the amount of money the members paid for electric service. This means that whatever electricity you purchase from Jo-Carroll is at cost. There is no more efficient way of providing electrical service than this.

If you compare rates between Jo-Carroll and the local public utilities, you will find that electric costs are very close together. This is quite remarkable when you stop and think about the number of people the public utilities serve per mile of line and the larger loads they serve. The cooperatives keep their cost low by involving

the membership in some of the operations of their utility. The members of Jo-Carroll donate right-of-way and help to maintain the many miles of line by being our eyes and reporting conditions on the lines before they become serious. One of the main reasons for the low cost is because of the quality of people we serve. These are people who, for the most part, believe in paying their bills on time and remain on the system with very little relocation.

The availability and price of electricity can greatly affect your lifestyle. Jo-Carroll is aware of this and because we work for you, we are constantly looking for ways to improve the service to you and to reduce expenses. The real problem is that we have no control over about 68 percent of your electric bill. This 68 percent is the cost of wholesale power and goes directly to the generating utility. The remaining 32 percent goes for the operation and maintenance of your electric cooperative.



Carol Callahan has been employed by Jo-Carroll Electric Cooperative as a receptionist-clerk since March. She lives on a farm seven miles west of Elizabeth and is the mother of two children: Mike, a sophomore, and Ann, a freshman, both students at Elizabeth High School. She enjoys music (serving as a church organist for many years), cooking and Extension Homemakers. Dan Walker also began work for your Cooperative in March. He is a forestry trimmer. He is married and enjoys boating, hunting and cycling.

Your 1984 electrical record

Month	Meter Reading	kWh Used	Amount of Bill	Amount Paid Year To Date	Date Paid	Check No.
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

Use this chart to keep track of electricity usage, and its cost. When your monthly bill arrives, record the readings, usage, amount of bill and the date paid, along with your check number. This information will be helpful throughout the year.

Home energy help is available to eligible families through state-administered program

Illinois Home Energy Assistance Program (IHEAP) local administering agencies are now accepting applications for households of income-eligible families who believe they are eligible for assistance.

The Department of Commerce and Community Affairs is the state administering agency of IHEAP.

Illinois received from the U.S. Dept. of Health and Human Services a commitment of \$114 million for this program in fiscal year 1984. IHEAP provides grants to income-eligible renters and homeowners to pay heating and medically necessary cooling costs and to reconnect services lost. In 1982, 457,515 Illinois households received aid. Eligibility is based on the number of family members and their combined annual income.

"This program is not intended to pay all energy costs of the needy, but rather to reduce those costs by providing either a one-time grant to them or paying the utility vendor directly," Michael T. Woelffer, DCCA director, said.

Families who think they may be eligible for IHEAP assistance should

contact their local administering agency or call DCCA's toll-free energy hotline at 800-252-8643.

The following is a listing of agencies and telephone numbers in counties with electric service by electric cooperatives:

Bond, Clinton, Marion and Washington counties: BCMW Community Services, Inc., Centralia 618/532-7388

Knox County: Carver Community Action Agency, Galesburg 309/342-0158

Christian, Clay, Effingham, Fayette, Montgomery, Moultrie and Shelby counties: CEFS Economic Opportunity Corp., Effingham 217/347-5018

De Witt, Logan, Menard, Mason and Opportunity, Inc., Greenup 217/ nomic Development Corporation, Lincoln 217/732-2159

Macon County: Decatur/Macon County Opportunities Corporation, Decatur 217/428-2193

Clark, Coles, Crawford, Cumberland, Douglas, Edgar, Jasper, Lawrence and Richland counties: Embarras River Basin Agency for Economic Opportunity, Inc., Greenup, 217/923-5115

Fulton County: Fulton County Health Department, Canton 309/647-1173

Calhoun, Greene, Jersey and Macoupin counties: Illinois Valley Economic Development Corporation, Carlinville 217/854-9677

Madison County: residents should contact DCCA toll-free at 800-252-8643.

Livingston and McLean counties: Mid Central Economic Opportunity Corporation, Bloomington 309/829-0691

Morgan and Scott counties: MSC Community Services, Jacksonville 217/243-4711

Jo Daviess and Stephenson counties: Northwestern Illinois Community Action Agency, Freeport 815/232-3141

Peoria County: Peoria Citizens Committee for Economic Opportunity, Peoria 309/671-3900

Henry, Mercer and Rock Island counties: Project NOW Community Action Agency, Rock Island 309/793-6350

St. Clair County: St. Clair County Community Action Agency, East St. Louis, 618/874-0371

Sangamon and Cass counties: Sangamon County Community Devl., Springfield 217/789-6688

Alexander, Hardin, Johnson, Massac, Pope, Pulaski and Union counties: Shawnee Development Council, Inc., Karnak 618/634-2201

Bureau, Carroll, LaSalle, Lee, Marshall, Ogle, Putnam, Stark and Whiteside counties: Tri-County Opportunities Council, Rock Falls 815/625-7830

Tazewell and Woodford counties: Tri-County Regional Planning Commission, East Peoria 309/694-4391

Adams, Brown, Pike and Schuyler counties: Two Rivers Regional Council of Public Officials, Quincy 217/224-8171

Champaign County: Urban League of Champaign County, Champaign 217/356-1364

Ford, Iroquois and Vermilion counties: Vermilion County Citizens Action Committee for Economic Opportunity, Inc., Danville 217/443-2705

Franklin, Jefferson and Williamson counties: Volunteer Services, Marion 618/997-4371 Ext. 239 or 270

Edwards, Gallatin, Hamilton, Saline, Wabash, Wayne and White counties: Wabash Area Development, Inc., Mill Shoals 618/896-5375

Jackson, Monroe, Perry and Randolph counties: Western Egyptian Economic Opportunity Council, Steeleville 618/965-3458

Hancock, Henderson, McDonough and Warren counties: Western Illinois Regional Council, Macomb 309/837-3941

