

Dave Curry demonstrates the fireplace shade. Curry and a friend teamed to develop the device, designed to seal off a fireplace and prevent the possibility of sparks causing a fire and keep heat from escaping up the chimney when the fireplace is not in use.

Unique shade designed to save energy



A Corn Belt Electric Cooperative member and a friend have developed a unique energy-saving device designed to cut back on fireplace heat loss. It is the fireplace shade, a product much like a window shade, except that it is engineered to tolerate temperatures up to 700 degrees fahrenheit, the two inventors say.

The fireplace shade is the work of Corn Belt member Dave Curry of Bloomington and Duane Kunz of Morton. Kunz had the idea and Curry—who is president of the Fireplace and Patio Center, a firm which markets fireplace and patio products in several central Illinois cities—had the marketing know-how.

Using the same principle as a window shade, it provides a barrier between the smoldering fire and the room, thereby eliminating the hazard of shooting sparks and reducing heat

loss at night, Curry points out. The fireplace shade installs invisibly in most fireplaces and is less expensive than glass doors.

With Kunz providing the engineering and Curry the marketing knowledge, the two established Flame-Tech Inc. to arrange for manufacturing and marketing. Soon they had lined up distributors in 30 states and in Canada.

“How many times have you enjoyed a fire in the evening, only to retire before the fire is completely out?” Curry asks. “You’re faced with having to either put the fire out, or simply put the screen over the front and go to bed. That allows the fireplace to exhaust much of the heated room air to the outside during the night,” he says.

“With the fireplace shade, you can simply draw it down before retiring; the fire dies out, and heat loss from

the room is effectively eliminated.”

“It received a great response at the Chicago Hardware Show this past fall,” Curry adds.

Curry says that November was the first full production month with output of 7,000 shades per week. “We think its the hoola hoop of fireplace products.”

Retailing for under \$60, depending upon fireplace size, the shade is available through many fireplace product dealers throughout Illinois.

Sales “boomed” too soon, Curry says. Television commercial spots were given to stations during October for viewing in November. Curry said he was watching the baseball world series one day in October, when a commercial for his fireplace shade appeared. Calls and orders came in before they could fill them. “We really got caught off guard,” he says, “but we’ve recovered pretty well now.”



manager's report

by Robert E. Pendell, Manager

watts n

JREN SUPPLEMENT

Beware

Read an article the other day where the Federal Energy Administration had uncovered a fraudulent scheme.

Homeowners were being phoned about insulating their homes and being told that they would receive \$100 to \$400 tax credit, following completion of an inspection. These callers are apparently posing as government officials and are making appointments as soon as possible.

Legislation for tax credits for home insulation has not become law and the administration's insulation proposal does not require certified verification. Also, no insulation contractor or installer may claim any association with a government agency.

There are many reputable firms who provide quality insulation at reasonable prices. Homeowners who plan to insulate should seek references from your utility company, Better Business Bureau and local Chamber of Commerce. You should also get a number of estimates and do not sign any contracts until completely satisfied with arrangements and guarantees.

Membership Application

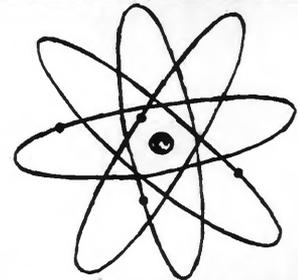
When a new member signs the application for electrical service at a location, the membership application states they will read and furnish accurate monthly meter readings and pay the energy bill each month.

When a customer does not furnish a valid meter reading for three consecutive months, the cooperative will go to the premises to read the meter. A charge of \$15 will be assessed for this service. This fee is to offset a portion of the expense incurred by the cooperative to obtain the meter reading.

If you are late in paying your current bill, this is any payment after the due date printed on your bill, your meter reading cannot be utilized for the computer to figure the following month's bill.

In the event it is necessary for the cooperative to make a field collection of your bill, a charge of \$15 is also assessed for this service.

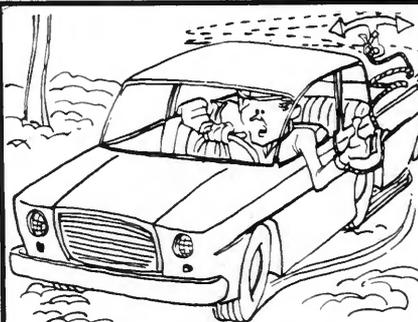
If it is necessary to disconnect service due to nonpayment of bill, it is necessary to pay the bill in full plus a \$15 fee to reconnect during regular hours or \$30 if reconnect is on an overtime basis.



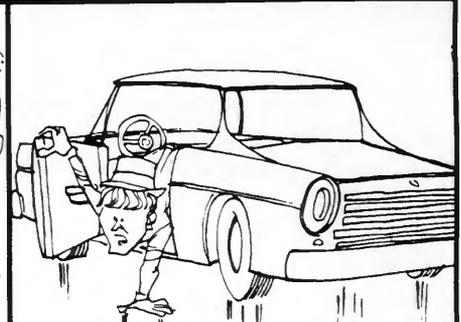
PUTTING THE CONTRIBUTION OF NUCLEAR ENERGY IN ITS PROPER PERSPECTIVE

One pound of uranium fuel with present technology will produce about the same kilowatt-hours as 50,000 pounds of coal. We now have 55 nuclear plants operating in the U.S. In spite of recent cancellations of many nuclear plants, primarily as a result of financing problems, utilities have commitments for another 182 nuclear plants. When these plants come on line they will produce more electric energy than could be produced with all the coal currently being mined in the U.S., or these plants could produce more electricity than could be produced with all of the current oil imports into the U.S. When one views the contribution of nuclear energy in this perspective, it is rather difficult to see how Mr. Nader thinks we're going to get along without it.

LESSONS
IN REASON
FOR THE
FREEZIN'
SEASON



Pump Your Brakes on Ice



Get the Feel of the Road

W

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McDonough Power Cooperative
MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

Who is to blame for high electric bills ?

Most of us cannot do much about the price of fuel for generating electricity. I know you do not want to take the blame for this and I do not think you expect to blame your electric cooperative manager or your neighbors who happen to be directors of the cooperative for these things.

There are some substantial costs in our electric bills for which each of us must accept some blame. Where were you when the National Congress and the State Legislature were passing environmental rules and regulations that greatly added to the cost of mining and burning the coal that is used for generating electricity and the cost of building and operating electric generating plants? Most of us probably did not get too excited one way or the other.

Of course, we are all in favor of clean air and water and we all like to see a beautiful landscape uncluttered by strip mines and electric generating plants, transmission lines, etc., so we all sat by and let these laws be passed and rules be adopted without ever asking how much it would cost. We never gave much thought to the fact

that all these costs were going to have to be paid one day and they were going to come due through our electric bills.

We just can't recall seeing all those articles in the statewide magazine or in our center section or hearing those warnings at our annual meeting that all these costs were one day going to show up on our electric bills.

Blaming your electric cooperative is not the answer. Surely you will agree they are not responsible for the high inflation rates of these recent years. They had nothing to do with the oil embargo and the 300 percent increase in oil and coal costs.

It is most frustrating to see some of the people who are protesting the loudest today about high electric rates are the very same people who are crying loudest in support of the rules and regulations that are responsible for some of these higher costs. If you really want to do something helpful, you can urge your elected representatives to ease some of the most costly environmental rules and balance what we most need with what we can afford to pay.

Stealing electric service is stealing from your neighbors

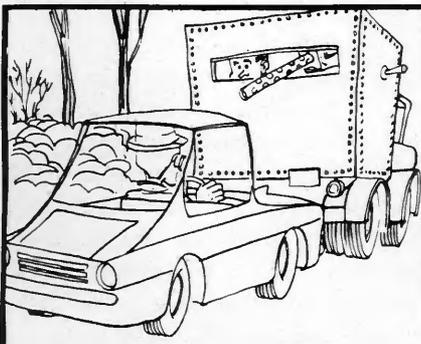
Tampering with a meter, unauthorized connection of a service or diverting electric energy for the purpose of reducing kilowatt-hour registration or to avoid payment for energy used is an unlawful act, punishable by up to six months in prison or by a fine up to \$500 or some combination of both. A person guilty of such intent to defraud shall be guilty of a Class B misdemeanor. The following is an excerpt from the Illinois Revised Statutes, Chapter III 2/3:

"Any person, who with the intent to defraud, tampers with, alters, obstructs or prevents the action of any meter, register or other counting device which is a part of any mechanical or electrical machine, equipment or device which measures service, without the consent of the owner of such machine, equipment or device, shall be guilty of a Class B misdemeanor."

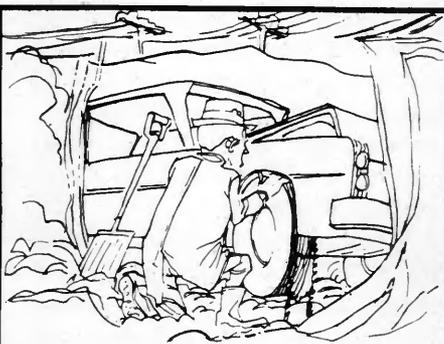
The few persons guilty of such fraudulent practices are stealing from the cooperative and thus increasing the cost of electric service to all other members.

If you know of such a practice, we urge you to contact us immediately. If you prefer, you need not identify yourself. If you will give us the location, we will conduct an investigation.

NOTICE: Please report to the cooperative if you have installed a standby generator.



Don't Follow Too Closely



Be Prepared for Winter



White retirement ends longest electric cooperative career

Manford White, who recently retired as office manager of Rural Electric Convenience Cooperative, Auburn, earned a special place in electric cooperative history when he completed his 40th year as an employee in August.

When Manford R. White, long-time office manager of Rural Electric Convenience Cooperative (RECC), Auburn, retired last month, it marked the end of a career in rural electrification longer than that of any other electric cooperative employee in the state.

A veteran of over 40 years (he went to work for RECC on August 4, 1937), White began as a bookkeeper and later became office manager. He started to work the day the first RECC lines were energized.

A native of Pawnee, Illinois, he was graduated from Pawnee High School in 1930 and worked in the Pawnee post office and at an automotive wholesale house in Springfield for a short time before going to work for the cooperative.

"When I started work," White recalls, "Charles Masters, the project superintendent, and the late Merle B. 'Stormy' Ray were the only other full-time employees working in the office. Elizabeth Roncz was a part-time office worker, and she came to work full time when she graduated from high school the following spring. Our office was in Divernon then.

"Ray left after a couple of weeks,

and R. D. (Bud) Wilson, who had worked with the contractor who built the system, took his place. He worked for the cooperative until he retired a few years ago."

The cooperative has changed considerably since those days, he says. In 1937, the cooperative had one substation feeding 134 miles of line, and there were 395 consumers on that line.

"We had that one substation for a long time, until about 1946," he says, "and we were faced with some pretty critical voltage situations. Now, we have 1,253 miles of line serving 4,550 consumers."

Many prospective members were reluctant to sign up because of the stiff \$5 membership fee, and the \$3.25 monthly minimum frightened some prospects, too. There was no meter deposit in those days, and the monthly minimum paid for 40 kilowatt-hours of electricity. Some wondered if they would use that much.

"We were a little surprised," White relates, "because we had a pretty good load right from the start. Of course, everybody had lights, and many had electric ranges and water heaters. Of

course, the ladies had their washing machines, too."

Farming was different then than it is now, he remarks, and that most farms were more diversified. Many had a few cows and cream separators were a fair part of the load, since many farmers sold milk or separated their milk and sold the cream. Most farms had a couple of hogs, a few chickens and a garden, too. In fact, the chicken brooder load was a fairly regular thing in the spring. People would order baby chicks by mail, the mailman would deliver them, and they'd take it from there with the brooders.

Now there are fewer farms and they are much larger than the farms of the 1930's and most are specialized operations.

"People ask me once in a while what some of the highlights have been," White says, "and the biggest highlight I can think of is the growth of the system over the years. In 1937, not even the most imaginative person would have predicted that the cooperative would reach its present size or that the monthly kwh consumption would ever exceed 1,000 kwh per
(continued on page 23)



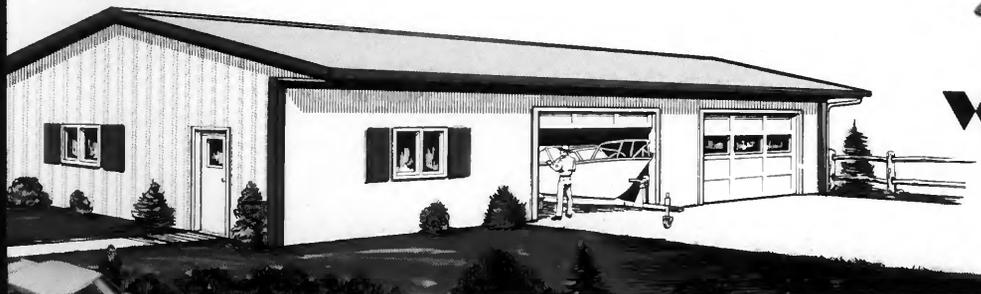
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manager's report

by Robert E. Pendell, Manager

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The season for heated stock waterers is now. It is the time to check your existing installations and make new installations where needed.

Electrically heated stock water fountains are efficient, reliable and safe when properly installed. Location of the waterer is important and should be carefully considered when planning your water system.

Hog waterers in sheltered places will use less electricity than those located outside. A combination cattle and hog waterer inside an open shed will tend to use more than one inside of the barn.

Combination waterers located out in the open will use considerably more than those protected by a windbreak. The windbreak can be of wood or metal, but leave room enough so the stock can have access to the waterer.

We emphasize again the importance of having the neutral grounded to a ground rod, to protect against shock in the event of insulation failure.

An electric stock heater can save you money if it is adjusted properly.

**YOU WANT TO
\$AVE A BUCK?**



Then insulate your house like you insulate yourself.

It's Wise to Use Electricity



But Use It Wisely

Since the early days of "our new electric lights" on the farm and in the home, people have added more and more new appliances each year. Now we are so dependent on electric power that even an outage of a few hours duration presents real hardship.

In this period of national fuel and energy crisis, we do not want to suggest that you stop using some of your electrical appliances. Instead, we would rather that you "Use all the

electricity you need, but do not waste any." In this way you will be helping to conserve fuel and at the same time reduce your monthly electric bill.

It is wise to use electricity because it is the efficient energy of today and tomorrow—efficient for doing countless chores inside and outside the home and on the farm. Its dependability is proven, day in and day out, 365 days a year. **USE ELECTRICITY WISELY.**

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SEND YOUR PAYMENT AND RIGHT HAND PORTION OF YOUR BILLING CARD AT THE SAME TIME OR BRING TO THE COOPERATIVE OFFICE.

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Do Not Neglect Your Electric Motor

While an electric motor is one of the most efficient machines known today and will operate with a minimum of attention, systematic care means not only fewer motor failures, but also lower repair costs. A number of common enemies to motors are:

Dust	Friction
Stray Oil	Misalignment
Moisture	Vibration
Overload	

Electric motors are often the most neglected items in the entire mechanical inventory of the average farm and home. They require little attention, so it is sometimes easy to forget them entirely.

This neglect may often cause some critical situations and economical embarrassment.

Many small motors in use on the farm are the open-housing type. Openings at the rear and front of the motor housing allow a fan on the shaft to pull air through the motor to cool. This may force cobwebs, chaff, dust, insects, weed fuzz and other foreign matter between the housing and the motor. Most of this blows through but, in time, enough may cling inside to foul up the centrifugal switch and burn out the starting windings in the motor.

A strong jet of air, from an air compressor or vacuum cleaner, is a good way to clean any part of an electric motor.

After blowing the dirt from a motor, it is wise to check the bearings on each end of the shaft. If they are of the sealed ball-bearing type, they may need to be replaced. This is especially true of the pulley end of the shaft.

If the motor has sleeve bearings, look for wear and excessive end play. If okay, lubricate with a few drops of number 20 oil. Too much oil ruins more motors than the lack of it.

Never oil or grease a centrifugal switch—it will gum up that much faster.

Do You Have a Fireplace?

If you use a fireplace for supplemental heating or the main heating system is not in use, chances are you burn a good bit of wood to help cut heating cost.

If you think you are cutting costs by using a fireplace to supplement your main heating system in cold weather, you may have been misled in your thinking. A fireplace generally removes more heat from the house than it produces while your main heating system is operating. Warm air rises and the draft from the fireplace pulls heat out of your home through the flue.

You can save heat by installing glass doors in front of your fireplace. It will not radiate as much heat into the room when the glass doors are closed, but you can still enjoy looking at the flames. When bedtime comes you can secure the doors to eliminate possible spark problems and close the damper

in the lower part of the doors to shut off the heat loss from your heating system. Without the glass shield, you have to leave the fireplace damper open until morning when the fire is out.

Despite the extra cost, we know people are going to enjoy their fireplaces. To gain maximum enjoyment from your fireplace, cut or buy wood that will give you what you want. Some woods ignite easily, but burn fast and have poor heat output. Others, such as the heavier hardwoods, are slow to start, but are long lasting and have a very high heat output. You might consider burning soft and hard wood at the same time to give you a long-lasting fire with lots of flame.

Knowing the characteristics of various woods, you may want to secure a mixed load, with some easy starting logs which can be split into kindling, and some high heat sustaining logs. Short lengths of a straight grained wood, such as cottonwood, aspen, fir and pine, will split easily and start quickly. Once this wood is burning vigorously, the long-burning hickory, oak, locust, hard maple, birch or ash logs may be added.

If your nose rules your selection of firewoods, then obtain apple, cherry, beech, hickory or pecan logs. The smoke of these woods usually has the fragrance of the tree's fruit.

With good wood, a properly engineered fireplace and average care, the art of burning wood can provide a lot of pleasure. So throw another log on the fire to keep the hearth aglow and turn the lights down low. Watch the dancing flames and relax—but do not expect your heating bill to be any lower.

C. V. (Vic) Swanson

Well into his fifth decade as rural electrification leader

(continued from page 17)

copper allocations," Swanson recalled. "We told him what our problem was. We told him of the production on the farms. We told him we were going to use electricity to produce more food," he added.

"The man told us he thought that if the power companies received sufficient supplies of copper wire, all would be well. I think the man was innocent in that belief," Swanson said. The meeting seemed to be for nothing. As the group was leaving the bureaucrat's office, Swanson noticed a photograph on the wall showing a huge copper mine near Salt Lake City, Utah. "I knew the manager of that mine," Swanson smiled. "I just turned around and told him I knew Garrison. He was impressed."

"So instead of us going out the door, we turned and went back in and talked some more. The next day, we went by the REA offices and they told us, 'We don't know what you did yesterday, but you did it,' meaning we had convinced the man to allocate copper wire to the cooperatives."

"We had convinced him that copper

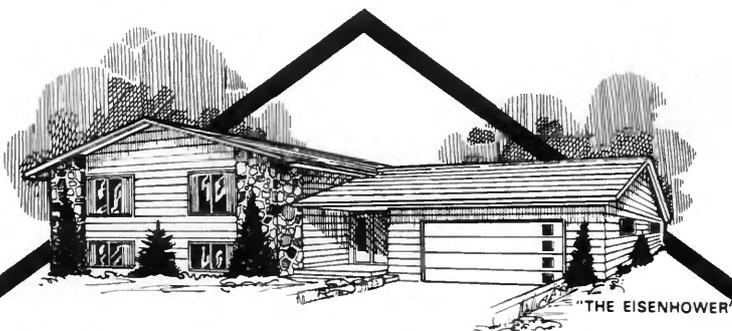
wire was essential to food production," Swanson added.

Swanson has served three times as Illini board president, and was elected vice president and secretary-treasurer. He was elected to every Farm Bureau office, including a term as president in 1954.

For nine years, Swanson served as vice president of the Illinois Statewide Power Cooperative.

He was an organizer of several Champaign County agriculture organizations, including the Champaign Production Credit Association, Soybean Marketing Association, Champaign County Livestock Association and Champaign County Service Company.

He and his wife, Agnes, live in retirement on their Maple Grove farm near Ludlow.



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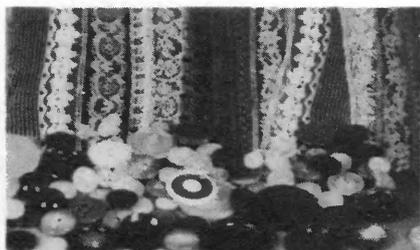
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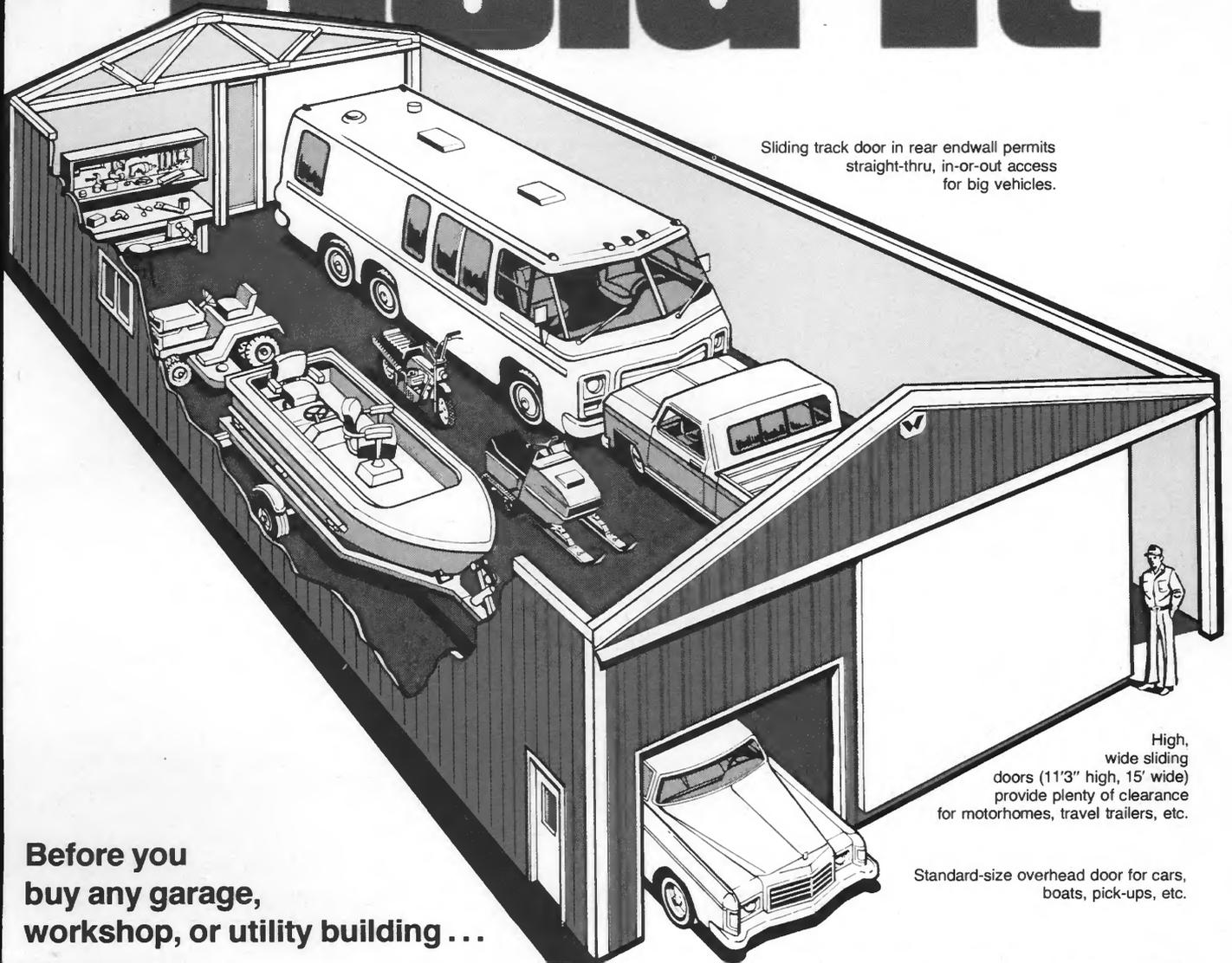
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ILLINOIS RURAL ELECTRIC NEWS

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manager's report

by Robert E. Pendell, Manager

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IREN SUPPLEMENT

Engineering by Computer

Your cooperative uses the services of the Central Area Data Processing Center near St. Louis in many aspects of records and bookkeeping. The center was established specifically to provide services for the particular needs of cooperatives throughout the United States.

In early 1976 your cooperative started accumulating engineering data and entering it in the center's files. In 1977 a load study was made by the center to determine where lines were becoming overloaded and projected the growth trend for two years to see what improvements would be necessary to maintain adequate service. This involved considerable correspondence and communication between the cooperative and the center in order to assure that the study included the most up to date information and the correct basic data.

In December 1977, a mini-terminal was obtained for the cooperative which, when plugged into a 120-volt outlet and connected by regular telephone, ties the cooperative directly into the computer files near St. Louis.

The mini-terminal is approximately the same size as a standard typewriter and will automatically type out information asked for or print out the results of complex engineering problems that you ask. Programs are set up so that the operator can change or add to the data that is in the file as needed.

This is a wonderful tool and saves countless hours of tedious mathematical computations.

Lightning Safety Rules

In spring and summer we often have much lightning. The National Weather Service urges vacationers and outdoor workers to familiarize themselves with 15 safety rules and immediate first aid assistance:

1. Stay indoors. Do not venture outside unless absolutely necessary.
2. Stay away from open doors and windows, fireplaces, radiators, stoves, metal pipes, sinks and plug-in electrical appliances.
3. Do not use plug-in electrical equipment like hair dryers, electric toothbrushes or electric razors.
4. Do not use the telephone. Lightning may strike telephone lines outside.
5. Do not take laundry off the clothesline.
6. Do not work on fences, telephone or power lines, pipelines, or structural steel fabrication.
7. Do not use metal objects like fishing rods and golf clubs. Golfers wearing cleated shoes are particularly good lightning rods.
8. Do not handle flammable materials in open containers.
9. Stop tractor work. Tractors and other implements in metallic contact with the ground are often struck by lightning.
10. Get out of the water and off small boats.
11. Stay in your automobile if you are traveling.
12. Seek shelter in buildings. If no buildings are available your best protection is a cave, ditch, canyon or under headhigh clumps of trees in open forest glades.
13. When there is no shelter avoid the

What Can I Do That Ch

Now that Christmas 1977 is history, and you find yourself with a potted poinsettia that has served its yuletide purpose, what do you do with it?

Keep it as a house plant until mid-April or so, answers Dr. Charles Sacamano, landscape specialist at the University of Arizona.

"After danger of frost has passed, plant it outdoors," he adds.

Pick a site alongside the south or east side of your house and under an eave which will offer some protection on succeeding years if Jack Frost comes along and tries to nip it.

The specialist says a site on the west side of a home normally will be too hot; on the north, excessive

- highest object in the area. If only isolated trees are nearby your best protection is to crouch in the open keeping twice as far away from isolated trees as the trees are high.
14. Avoid hilltops, open spaces, fences, metal clotheslines, exposed sheds and any electrically conductive elevated objects.
 15. When you feel the electrical charge, if your hair stands on end or your skin tingles, lightning may be about to strike you. Drop to the ground immediately.

Persons struck by lightning receive a severe electrical shock and may be burned, but they carry no electrical charge and can be handled safely. A person thought to have been killed by lightning can often be revived by prompt mouth-to-mouth resuscitation, cardiac massage, and prolonged artificial respiration.

ILLINOIS RURAL ELECTRIC NEWS

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With My Potted Poinsettia Now This Season Has Passed

shade results in poor light.

In preparing the hole, dig a large one to accommodate the root ball with space to spare. He recommends a planting mix of two parts soil, one part organic matter—either peat moss or ground bark.

After the plant is in place, Sacamano suggest that you cut back the top growth to a height to 12 to 18 inches. "Another measure is to cut it back to one-half of its height, and pinch out the growing tips when they reach 12 inches in order to keep the plant bushy. But do not pinch it back after September 1." cautions the landscape specialist.

"If you do, you will be disappointed in the blooms or lack of them at Christmas."

He adds that poinsettia is not a desert plant and does not do well if allowed to dry out. "Water it enough to keep the soil slightly moist at all times," he says.

Before making the transition from indoors to outdoors Sacamano says it will be helpful to acclimate the potted plant for a few days on the patio.

Indoors, while awaiting a frost-free planting date, keep the potted plant in an area with good light, and keep it evenly moist.

Ten Commandments for the Farm Wife



1. Thou shalt not sort cattle with your hands in your pockets. (Husbands and cows don't like that.)
2. Thou shalt cook meals which can be served 30 minutes early or two hours late.
3. Thou shalt learn to keep farm records (when did we turn out the bull?)
4. Thou shalt love the smell of new mown hay, freshly plowed earth, sweet smelling silage and the stinging sensation of ammonia in the sheep barn.
5. Thou shalt be inspired to see the sun rise and relieved to see it set.
6. Thou shalt learn to open gates, close gates and guard gates.
7. Thou shalt thrill at the birth of a new calf, and the sight of a bright new tractor.
8. Thou shalt live closer to God with faith to exceed many city dwellers.
9. Thou shalt cherish meals together, long nights of waiting for the vet to arrive and decisions of plowing up the winter wheat.
10. Thou shalt be exalted at the brotherly hand on your shoulder, the tender kiss on your forehead and these three precious words, "Thanks for helping."

Go Fly a Kite - - - Safely

Keys to carefree kite flying:



* Fly kites in the open-
Far away from electric wires.

*Use dry kite string with no metal in it.

*If a kite does become caught in
electric wires, don't climb a tree
or pole to try and free it; let it go.

*Look left and right before
crossing streets when kite flying.

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CRIMSON GLORY
Large full velvety crimson blooms. Very fragrant. Former patent no. 105



MIRANDY
Huge full blooms of dark red. Fragrant. Former patent no. 532



CHRYSLER IMPERIAL
Light crimson with dark overtones. A beauty. Former patent no. 1167



HAPPINESS
Brilliant fire-engine red color. Former patent no. 911



SHOW GIRL
A rich deep pink, long buds. Former patent no. 646



MOJAVE
Gorgeous blooms of glowing orange. Former patent no. 1176



STERLING SILVER
A pastel lavender tone. Sterling silver look. Former patent no. 1433



PEACE
Magnificent blooms of yellow edged in pink. Former patent no. 591



LOWELL THOMAS
A lemon yellow with fragrant blooms. Former patent no. 599



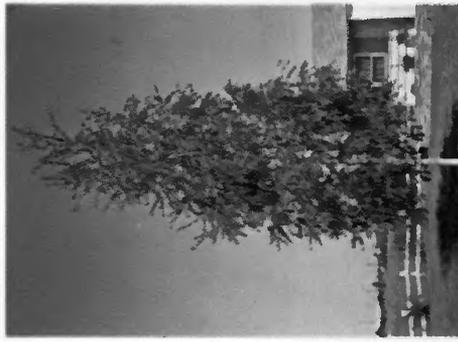
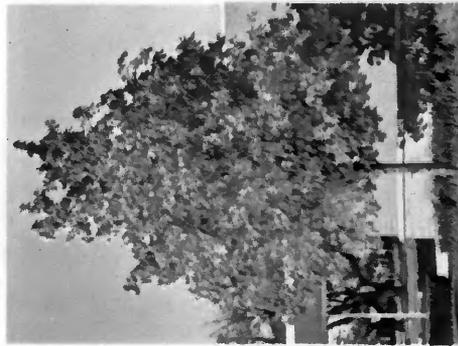
NOCTURNE
Long perfectly formed buds; velvety red. Former patent no. 713



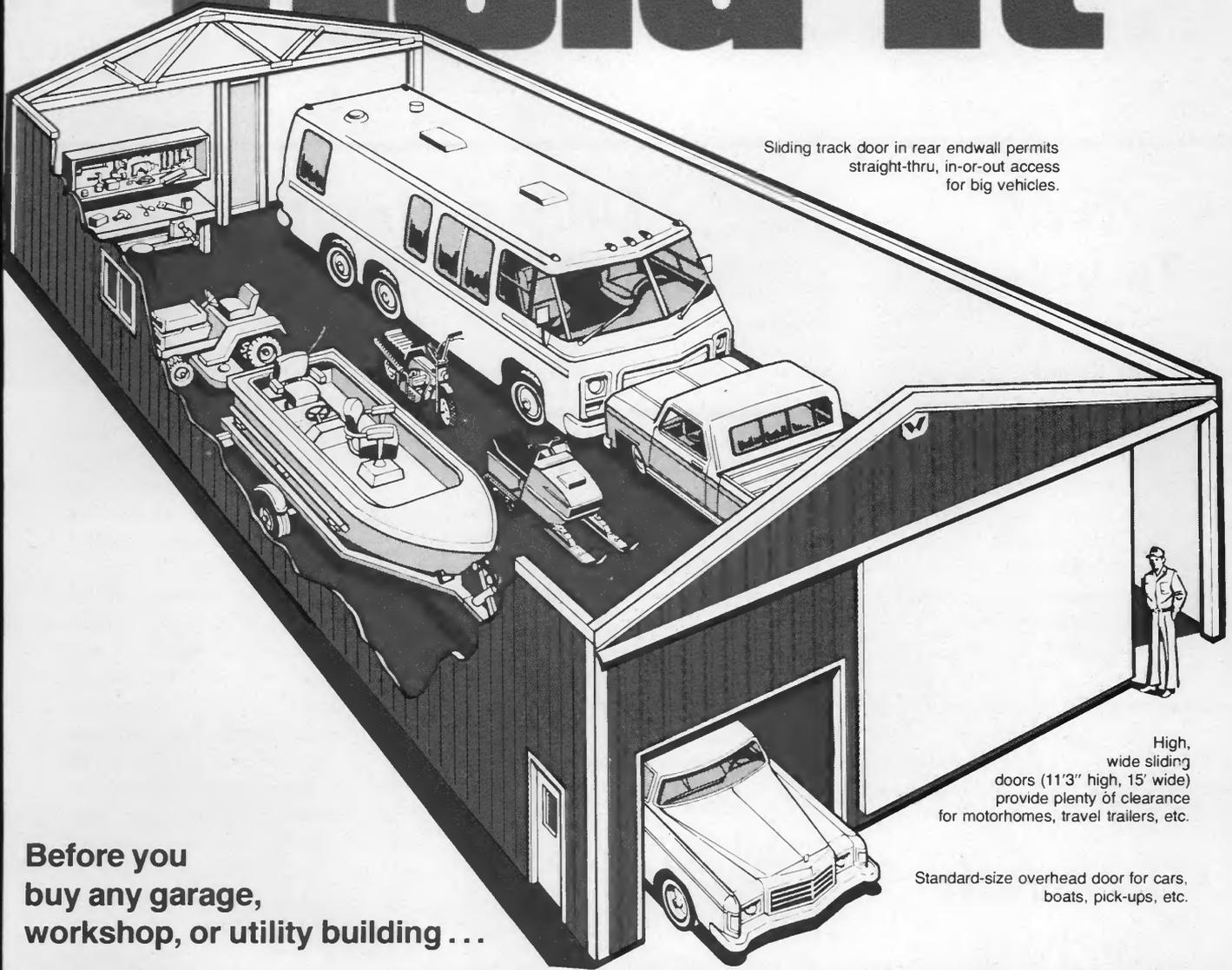
DIAMOND JUBILEE
A yellow and orange combination. Former patent no. 824



MONTEZUMA
Gorgeous blooms of scarlet-pink. Former patent no 1383



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manager's report

by Robert E. Pendell, Manager

watts n

IREN SUPPLEMENT

PPAC To Increase

The cooperative was informed by one of our suppliers of wholesale power that the fuel adjustment for the month of March will increase approximately 49 percent. We have not heard from our other supplier at this time.

It is our understanding that these fuel adjustments will be distributed over the next 13 months, so it is likely that we can expect regular monthly increases in the fuel adjustment.

The fuel adjustment received from the suppliers are passed on to you, the member, as the PPAC changes. This is one of the many costs that your cooperative has no control over.

Should you have any questions, please contact your cooperative office.

Believe It or Not

ERDA tests prove that if a St. Louis-area consumer turns his thermostat back 10 degrees for eight hours each night, his heating bill would be cut by 12 percent.

Automobiles alone used 80 billion gallons of gas in 1976—13 percent of the total U.S. energy demand.

96 percent of the total U.S. energy consumption comes from fossil fuels.

If every gas-heated home were properly caulked and weatherstripped, we'd save enough natural gas each year to heat about 4 million homes.

One 40-watt fluorescent tube provides more light than three 60-watt incandescent bulbs.

A faucet leaking one drop per second will leak 650 gallons a year.

Only a Minute

Those who work directly in the field of accident prevention are continually amazed at the attitude of individuals who violate safety rules. Some persons often recognize that

they are violating a rule and even acknowledge the hazard involved, but they add that they were "only going to be there a minute."

The thing that is alarming is that such a rationale is used in situations we all know are potential traps: entering an unshored trench or excavation; entering a danger zone without rubber gloves or sleeves; not wearing a hard hat; not wearing safety glasses; seat belt not fastened; etc.

There is no place in our work for this "only a minute" thinking. There is nothing in the safety rule book that says you will only wear seat belts if you are driving ten minutes or more.

There is nothing that says you need only put on rubber gloves and sleeves if you are going to be in a reaching zone for over 17 minutes. The safety rule book says you will do these things every time, all the time.

We must not allow ourselves to be trapped by the deadly attitude of "only a minute." That deadly "minute" could well last a whole lifetime.

From the Safety Bulletin of the Iowa Association of Electric Cooperatives

Sympathy

Directors and employees of the cooperative were saddened by the death of retired employee Ernest Yeast, who passed away February 20, 1978. Ernest was employed by the cooperative for approximately 20 years, retiring in 1972.

We extend our sincere sympathy to his family.

Notice to All Buyers of Grain Dryers

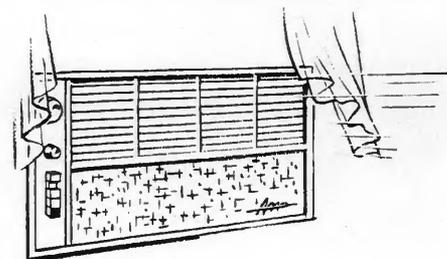
If you are planning to purchase and install a grain dryer, please notify your cooperative before July 1, 1978.

The cooperative must have this lead time to do the necessary engineering, secure the necessary materials and to assure you that the work will be done for the drying season.

Is Your Air Conditioner Ready

Is your air conditioner ready for those hot days ahead? It is cold, snowy, and damp as this is being written but no doubt hot weather will be with us soon.

Be sure to have your air conditioner checked out prior to those hot days. Check the filter in order to receive the most efficiency. Have a comfortable summer.



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Clair Butcher, Vice President
Max Welsh, Secretary
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Raymond Irish
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William R. Harris, Attorney

McDonough Power Cooperative
MACOMB, ILLINOIS 61455

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POWER OUTAGE!

What to do for your family and home if the electricity goes off.



Electric service is one of the most dependable items you can buy. Rarely will you find anything else as reliable. But there are unusual times when the electricity goes off.

A power outage can last only a few minutes resulting in some minor inconvenience. Or it can last for days and become a critical problem.

Sometimes a power outage is caused by lightning striking the electric lines, trees falling across wires during a storm or cars ramming into utility poles. A more serious type of outage occurs when severe thunderstorms and tornadoes snap poles and tangle electric lines. But probably the worst of all outages is caused by ice. Usually the most widespread and the most difficult to repair, an ice storm outage leaves your home and family vulnerable to freezing temperatures.

Regardless of the type of outage experienced, consumers should be able to cope with the situation. Let's review some helpful information which can help make an electric power outage more bearable.

ALWAYS HAVE ON HAND

1. Flashlight with fresh batteries
2. Matches

3. Candles
4. Portable radio with fresh batteries.

EXTENDED OUTAGE—SUMMER

1. Keep refrigerator and freezer doors closed. If thawing begins, put wet or dry ice in if it is available.
2. A picnic cooler is handy to store ice and luncheon meats in. Should your refrigerator completely thaw out you can at least have sandwiches.
3. If necessary, cook in a fireplace, over a barbecue grill or on a camp stove. Use a grill or stove outdoors to avoid the danger of fire or toxic fumes.
4. Open windows and doors for ventilation to keep the house from becoming hot and stuffy.

FIRST THINGS TO DO

1. Check to see if your neighbors' lights are off.
2. Check fuses or breakers in your switchbox panel.
3. If fuses or breakers are all right, call your electric cooperative. Give your name, address, location number and tell how long the power has been off. This will help the cooperative crew determine the extent of the

outage and aid in speeding repair service.

If the cooperative number is busy, hang up and try again in a minute. The phone is not off the hook. Chances are your neighbors also are trying to call the cooperative. Keep trying and your call will eventually be answered. The information you have is important to your cooperatives' repair crews.

4. Turn off all electrical appliances that were on, especially air conditioners or electric heating systems. This will permit the power to be restored sooner, without being knocked out again by automatic limiting devices that protect your electric distribution system from damaging overloads.
5. Turn on your portable radio and listen for public service messages from your electric cooperative.

POWER BACK ON

Once the electricity is on again, turn on the appliances that you had previously turned off, if they are needed.

Resume normal living, making a note to restock the supplies that you will need should another power outage occur.

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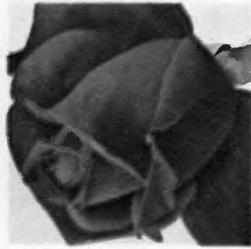
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Large full velvety crimson blooms. Very fragrant. Former patent no. 105



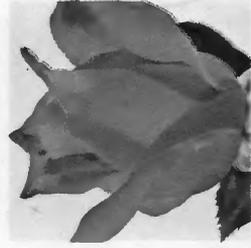
MIRANDY
Huge full blooms of dark red. Fragrant. Former patent no. 632



CHRYSLER IMPERIAL
Light Crimson with dark overtones. A beauty. Former patent no. 1167



HAPPINESS
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SHOW GIRL
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MOJAVE
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STERLING SILVER
A pastel lavender tone. Sterling silver look. Former patent no. 1433



PEACE
Magnificent blooms of yellow edged in pink. Former patent no. 591



LOWELL THOMAS
A lemon yellow with fragrant blooms. Former patent no. 595



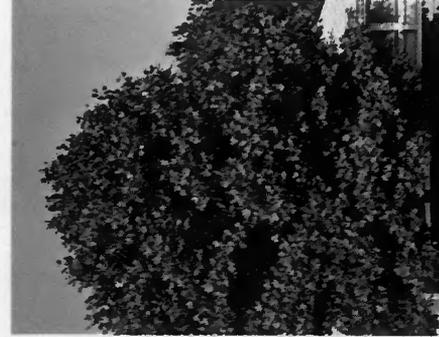
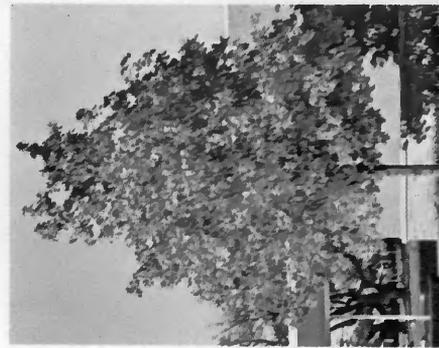
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Long perfectly formed buds. Velvety red. Former patent no. 713



DIAMOND JUBILEE
A yellow and orange combination. Former patent no. 824



MONTEZUMA
Gorgeous blooms of scarlet pink. Former patent no 1363



Restoration completed

(continued from page 7)

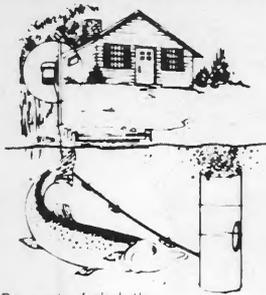
Franklin, in Illinois Rural Electric Co. territory. Illinois Rural, a cooperative with one of the most widespread service areas in the state, was also one of the hardest hit.

"The lines started going down," Campbell relates, "and the tree by the driveway fell, breaking the wires leading to our house. I started out to see about getting a generator, but there were poles across the roads and I couldn't get out." He finally did get out, though, and bought a generator. Until then, they pumped water from an old well, using a hand pump.

"We didn't have trouble keeping warm," Campbell said, "because our cookstove has four gas burners and four wood or coal burners. I just cut up the limbs that had broken under the ice and burned them. We used coal oil lamps for light until we got the generator."

The Campbells live near the end of the line and were without electricity for 20 days.

aerate
your lake
or pond
from the bottom

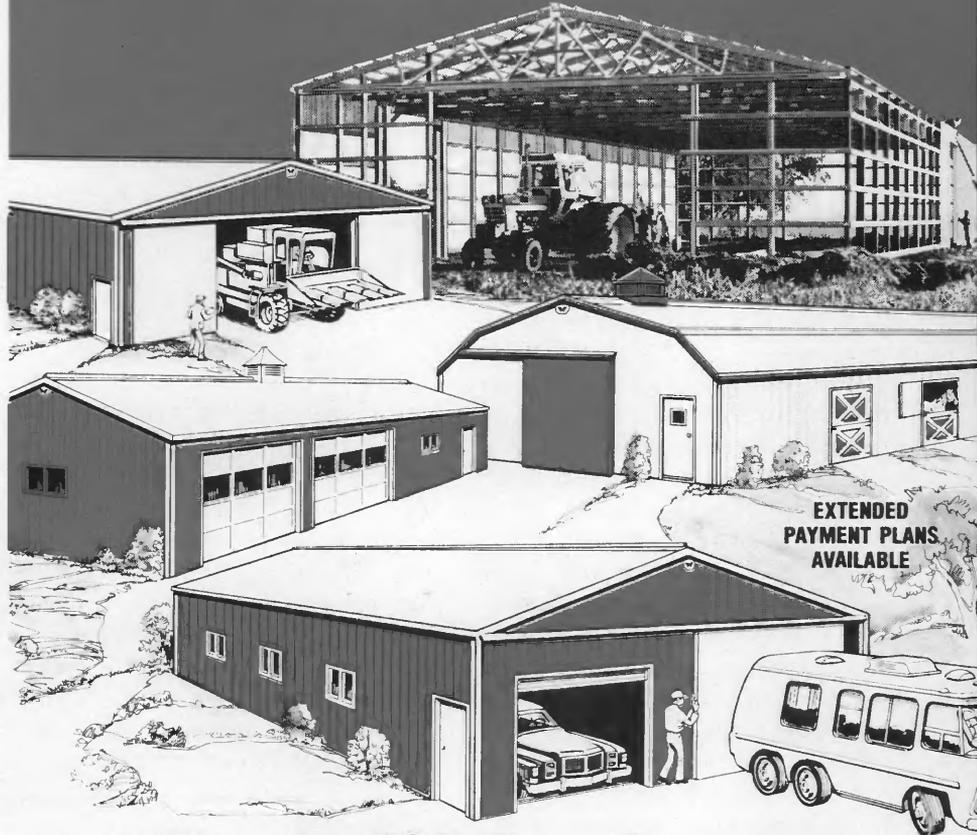


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manager's report

by Robert E. Pendell, Manager

watts n

IREN SUPPLEMENT

Where Does It Stop?

I feel that the title is very appropriate—it is heard often these days—so let's look at what is happening.

In the last couple of years, we have been plagued with rising cost of most everything. Material costs have risen rapidly, fuel costs and wholesale power costs have increased at a staggering rate of 84 percent. From January 1975 through March 1978 the fuel cost rose approximately 193 percent. From February to March the fuel costs increased 52 percent, due in most part to the bringing in of western coal during the coal strike.

Electric rates will probably follow the trend of the inflationary economy. We are hopeful that the increases will be no greater than the cost of living. However, this cooperative is faced with a rate increase from our supply from Illinois Power Company this summer.

Remember the old adage, "The More You Use, The Cheaper It Gets?" Forget it—today, the more you use the more it is going to cost you. The why of it is the more electricity used means building more costly facilities to produce our requirements.

Regardless of the price, electricity is a good buy. I know of no cheaper way to produce energy for motors that are used at our farm or home.

What would it cost for other types of refrigeration? Food loss alone would be more than the electricity used. And how many dollars do you feel it is worth for the convenience?

In spite of the frustration caused by higher bills, your board of directors has held costs down in the areas which it can control. But, as pointed out earlier, the "biggies" are the ones over which there is no local control: fuel cost, taxes, material costs and EPA rulings, just to name a few.

Unlike Moonshine Sunshine Free

Using the sun as a source of heat for the home may still sound exotic, but it is proving to be practical in tests. Engineers of the U.S. Department of Agriculture designed a house that uses solar heat and can supply up to 75 percent of its own heat almost anywhere in the United States. It is a medium-priced, three-bedroom house that uses fiberglass-reinforced plastic

paneling on the roof to collect heat. The paneling must face south for maximum sun exposure. The heat is collected in the attic, which is painted black. Black absorbs solar energy. A system of ducts transfers the heat down to the house for heating. The ducts also divert heat to a layer of crushed rock under the house for storage. The heated rocks can store a three-day supply of heat to warm the house at night and during cloudy or rainy weather. The house even has a water tank in the attic. The incoming water pipes are exposed to solar radiation, thus partially heating the water before it gets into the water heater tank.

You can get working drawings of the house from Extension Agricultural Engineers at land grant universities. There is usually a nominal charge for the plans. Ask for Plan No. 7220, titled SOLAR HOUSE.

The cooperative office will be closed
Tuesday, May 30, 1978
in observance of Memorial Day.

**PAUSE - REMEMBER
MEMORIAL DAY**

On this day let us pause to honor the memory of those
who gave their lives so that we might live in freedom.

DIRECTORS

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Raymond Irish
Harlan Monroe
Kenneth Moore
D. Carroll Walters
Harold Whitman
William R. Harris, Attorney

McDonough Power Cooperative

MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

Your Utility Bill

Living habits of people differ. Although appliances are the same, their use will vary greatly. The number of people in the family will affect the utility bill.

Your grocery bill or your clothing bill differs from your neighbor's because different families have different appetites and different tastes in clothing. It works the same way with electric bills. . .different families use different amounts of electricity.

High electric bills could be your own fault. Why not check the following items in your home?

Water heater: Locate the heater as near as possible to sink, bathroom and laundry area.

Lights: Do not leave unnecessary lights on when or where they are not needed.

Pump: A water-logged pump stops and starts repeatedly as water is drawn off a tap. Proper air volume controls on pump will maintain correct water and air ratio.

Faucet leaks: Stop all leaking faucets, especially hot water taps, by replacing washers.

Freezer and refrigerator care: Defrost these units when frost has built up on cooling coils. Use a vacuum to remove dust and lint from radiator coils located underneath. If equipment runs almost constantly, check refrigerant fluid; it may be low.

Check With Us Before Digging

Many times people are out of electrical service because they did not check before digging.

If you have underground wiring from the road to the house, there is

bound to be some wire buried. If you decide to run a water line across this area, chances are that you would go deep enough to hit the buried cable.

Another thing that can happen is digging for post hole or footing for a building, a person can hit the cable there, too. When the cable is cut it puts you out of service, plus it is rather expensive to repair. So again, we say—be sure to check before digging.

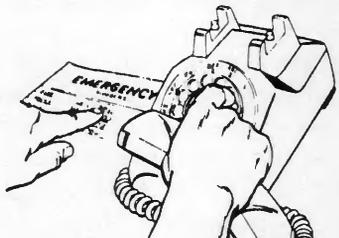
It would often save you much time and inconvenience if you maintained a map indicating where your underground electric line is as well as your water pipes or any gas lines.

Standby Generators Are Good Insurance

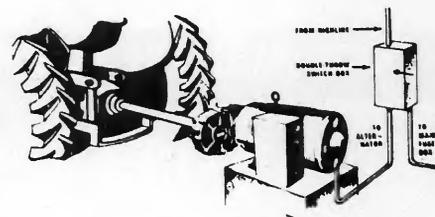
Only a few years ago, electricity on the farm was used mainly for lights and radios. Today, when electric service is interrupted, it is an entirely different story. There seems to be no end to the uses for electricity in the home and on the farm. We don't really have to tell you what would happen if our area had a severe storm of one kind or another.

Many are taking chances when they do not provide for some source of electric power in an emergency. In addition to the obvious uses for such an emergency generating plant, there are some uses we may not think about at first. A generator equipped with a power takeoff from our tractor and mounted on a trailer can be used anywhere on the farm. This makes for a more flexible farm operation by

WHEN THE LIGHTS GO OUT!!!



1. Check fuses or breakers beneath meter and in your main panel.
2. Check with your neighbors to see if they have service.
3. Then call 837-1400 collect and tell us the name under which you are billed. If your collect call is not accepted, you will know the trouble has already been reported.



eliminating some of the gasoline-driven tools and equipment that are used away from the farmstead.

There are several different types of generators. Some have gas engines and others are tractor driven and may be mounted on trailers. Others are permanently mounted at one location.

A bad storm could put part of our system out of electric service for some time. We urge users to consider the damage and inconvenience this would cause at their farms. Some say that they cannot afford a standby generator. If they can't afford to suffer the loss an extended outage might cost, they really cannot afford to be without one. Contact the cooperative office for installation information.

Availability of electric power and the many factors which increase its cost for the consumer were the main concerns expressed by representatives of Illinois electric cooperatives during recent public hearings conducted to help cooperatives across the country continue to meet the growing power requirements of their members.

Reporting before the Power Supply Study Committee of the National Rural Electric Cooperative Association (NRECA) and the National Rural Utilities Cooperative Finance Corporation (CFC) in public hearings during April in Atlanta were Donald B. Bringman, Executive Vice President and General Manager of Western Illinois Power Cooperative (WIPCO), Jacksonville; Roger C. Lentz, General Manager of Southeastern Illinois Electric Cooperative, Eldorado, and Secretary-Treasurer of Southern Illinois Power Cooperative, Marion; Walter R. Smith, Executive Vice President and General Manager, Illi-

Power supply, increasing costs are primary cooperative concerns

Electric Cooperative of Champaign and President of Soyland Power Cooperative, Decatur, and James H. Eddleman of the Association of Illinois Electric Cooperatives, Springfield. Dennis L. Tachick, Manager, Eastern Illinois Power Cooperative, Paxton, attended the committee's hearing in Minneapolis. Atlanta and Minneapolis were among six cities in which the hearings were conducted.

Statements presented revealed the many common problems shared by electric utilities throughout the nation, whether they be investor-owned public utilities, municipal electric systems, public power districts or agencies or electric cooperatives. Increases in the cost of fuel to generate electricity and inflationary construction costs are felt

by every electric utility and their consumers, regardless of their organizational structure. The most recent and costly contributor has been the myriad of federal and state environmental laws and regulations.

Bringman's presentation called the committee's attention to problems related to environmental constraints.

He said, "For an entirely too long period of time, power systems have been in the impossible situation of constructing new facilities and retrofitting existing ones without sufficient knowledge of the environmental requirements which would be imposed on such facilities. This has led, and will lead, to the construction of certain facilities that are unnecessary, obsolete at an early date or incompatible with current and future technology."

Bringman urged that the U.S. Environmental Protection Agency (EPA), Federal Energy Regulatory Commission (FERC) and all other related regulatory agencies be pressed

Federal agencies urged to develop definitive rules, regulations, forecasts and proposals.

for definitive rules, regulations, forecasts and proposals so that concrete conclusions and recommendations can be made to power supply systems in the area of environmentally stable construction and operation.

WIPCO is acquiring a 9.5-percent ownership in the Illinois Power Company (IP) nuclear power station near Clinton.

Lentz called for the federal government to adopt the NRECA policy relating to a national power grid system. He said energy legislation before Congress touches on the

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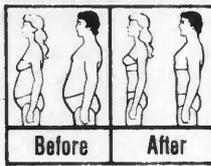
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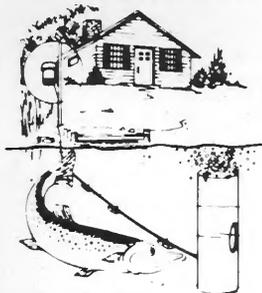
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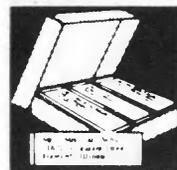


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manager's report

by Robert E. Pendell, Manager

watts no

IREN SUPPLEMENT

Another attack on the rural electric program

Year in and year out there is always an attack on the rural electric program. You ignore most because it is a bore to try to answer the uninformed.

The latest attack that I have read is the one by Professor Yale Brozen of the University of Chicago.

The following article, by J. C. Brown, appeared in the April 14, 1978, *Rural Electric Newsletter* and is worth repeating as he answers those who just do not understand.

"Next Year I Hope Harvard Wins"

By J. C. Brown

One hesitates to disagree with a friend, but I take exception to a statement Bob Nelson made in a March 23 letter to *The New York Times* in which he responded to an attack on REA made by a Professor Yale Brozen of the University of Chicago. The statement I disagree with is Bob's opener: "One hesitates to point out that a distinguished scholar is not as well informed on an issue he expounded upon as he should be." I don't think one should hesitate at all to educate an ignorant elitist.

While not embracing George Wallace's philosophy personally, I'm

of his school of impolite politics. Wallace collected a lot of votes on little more than championing economic causes which helped people, and telling "pointy-headed liberals" they were as full of stuffing as a Christmas turkey. Wallace's only appeal to me is that he did indeed put monastic, overly educated, underexperienced scholars in their place. Few of the Professor Yale Brozens of this world have toted water, milked a cow, washed the family clothes on a scrub board, or walked several miles to town for whatever little medical care was available for an aching back.

Frankly, the credentials of the Yale Brozens bore me (what does an "adjunct scholar" of the American Enterprise Institute for Public Policy Research know about America? If Professor Yale Brozen is an example, nothing.)

Brozen, in a recent article in *The New York Times*, wept because (he claimed) the rural electric program was draining \$5-billion from the capital markets. Poor markets. I wish I were allowed to swear in this publication. What better use, if his figure is correct, than to invest \$5-billion as directly as possible in the future of hardworking American people who are trying to feed themselves, others in this country and many people in the rest of the world, while at the same time bringing some badly needed money back in the United States?

FIE ON YOU, BROZEN! And on your markets, too.

I commend to you the rest of Bob Nelson's response to Professor Brozen's sterile observations (Nelson, incidentally, has toted water, milked cows, studied by lanternlight, and walked several miles through the snow to school, although not barefoot):

"Reflecting the traditional big business view toward government programs, Professor Brozen uses rural electrification as an example of a program that should be done away with.

"What troubles me about this are the misleading and downright naive statements he makes in support of his position.

"Ridiculous as it may sound to anyone who knows anything about energy problems and the federal budget, Dr. Brozen apparently would have people believe that we could make significant progress toward solving both our energy supply and budget deficit problems by simply lopping off a program that costs the government virtually nothing and would leave vast areas of rural America without electricity.

"If we were to apply Dr. Brozen's logic further, agriculture would also go back to horses and mules and get rid of tractors and motor-driven farm machinery. That would save energy too. The only questions is: where would we get 61-million horses and mules?

"Almost every opponent of the rural electrification program, since it was started by Franklin D. Roosevelt, has launched his attack with the worn out cry of 'subsidy'—ignoring of course, the billions of dollars other elements of private enterprise have collected from the government.

"Actually, the rural electrification loan program has changed so much in the past five years that there is virtually no government subsidy involved in today's program.

"In fact, the government is making money off the major part of the REA program—the guaranteed loan section. While rural electrics are paying 8.45

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percent interest on long-term borrowings, the government is paying 7.87 percent on long-term bonds. On \$4-billion a year that adds up to a neat little profit for Uncle Sam.

"As to REA lending of \$800-million at two percent and five percent interest rates' that Dr. Brozen points to, that sum does not come from appropriations. It comes from a revolving fund comprised largely of principal and interest repaid to the government on previous loans by the cooperatives.

"Incidentally, of the \$800-billion (which is not an accurate figure, but close enough) only 10 percent is loaned at two percent. And that's for cooperatives serving sparsely populated areas where the consumer density is two per mile or less.

"Finally, in discussing the guaranteed loan program, Professor Brozen states that 'any cooperative that defaults on its borrowings will have the tab picked up by the federal government.' Whether intended or not, the obvious implication is that loaning money to rural electric is a risky business. And that is pure bunkum.

"The real truth is just the opposite. In the 42-year history of the rural electrification program not one operating rural electric cooperative has defaulted on an REA loan.

"If Professor Brozen were not so jaundiced in his viewpoint, he might join in acclaiming a program that has not only made electric service possible to millions of rural citizens, but, according to government calculations, has generated nearly 300,000 jobs in rural communities, helped establish 7,000 new business and industrial enterprises in the past 13 years and has contributed \$24-billion to the nation's economy."—Robert W. Nelson.

Flush Out Attic Heat

Flush attic, save energy—flushing out summer heat from the attic enables an air conditioner to work better and use less energy.

Temperatures in your attic, without a powered ventilator, often rise to 135 degrees, even 150 degrees, when the sun beats down on the roof.

Attic superheat penetrates through ceilings (even if insulated) into the rooms below and puts a big load on

your air conditioner.

Power ventilation can reduce this superheat invasions by more than half, according to the National Bureau of Standards.

An air conditioner will run less after installation of a powered attic space ventilator. Before a ventilator is installed, the air conditioning may run all the time on hot days without fully cooling, but with automatic attic ventilation it can run intermittently and cool more effectively.

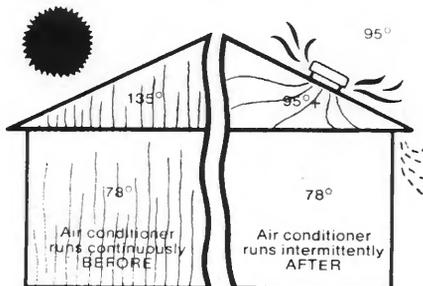
Obviously, lifting such an energy load with a fan that uses only about the energy of a light bulb (part time) saves significant energy. Exactly how much depends on various factors of individual housing and living characteristics, but direct field results indicate 10 percent to 30 percent reduction in air-conditioning load.

A powered attic space ventilator draws in outside air and power-exhausts hot attic air, providing positive attic ventilation. Action of the fan's thermostat keeps the attic at about outdoor temperatures in hot weather, instead of 30 degrees to 50 degrees higher.

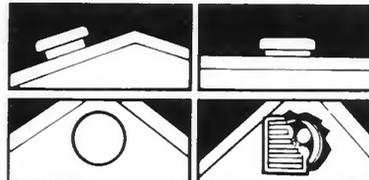
A ventilator typically is placed on the rear slope of the roof, near the peak and centered, with air intakes at the eaves. This reaches all attic space efficiently. If roof location is not practical or desirable, a roof-type ventilator may be installed vertically on the gable sidewall or a gable fan with its own louvers can be used.

A handy homeowner can install a powered attic space ventilator, or your local dealer or contractor can handle the whole job.

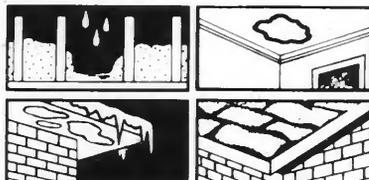
This information was prepared by the Home Ventilating Institute (HVI), 230 N. Michigan, Ave., Chicago, IL 60601.



1 TYPICAL CHANGE when powered attic space ventilator comes to the aid of an air conditioner saving in energy and improving performance



2. WHERE TO PUT POWERED ATTIC SPACE VENTILATOR. Roof ventilator can go on sloped or flat roof or on gable wall. Gable ventilator with its own louvers goes on wall



3. AUTOMATIC ATTIC VENTILATION protects against winter moisture damage to insulation ceilings, paint, roof boards and shingles

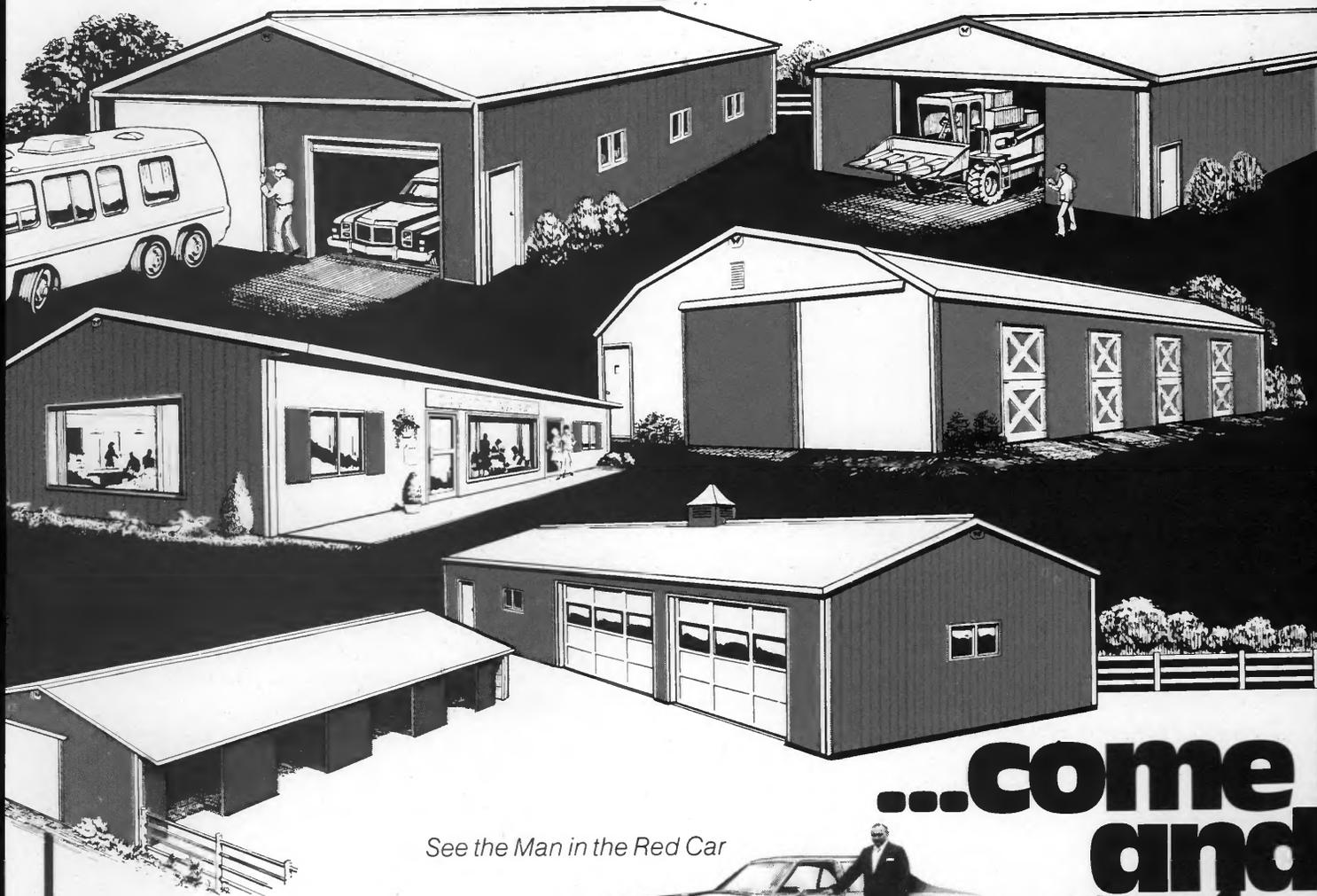
'Youth Day' attracts 185

The record number of young people who participated in this year's "Illinois Rural Electric Youth Day" April 26 visited, among several sites, the Lincoln Home (right) where a long line of high school students representing Illinois electric cooperatives waited for guided tours, and the Governor's Mansion (below), where they toured the State Dining Room, which featured chandeliers and candelabra made of rare Waterford glass.



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manager's report

by Robert E. Pendell, Manager

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IREN SUPPLEMENT

Test Your E.Q.*

Take this quiz to check your knowledge and understanding of energy-environment issues. When you have marked your answers, check the bottom of the next page to see how well you have done.

- How much of the energy used in gas stoves supplies the pilot light?
 - 10%
 - 25%
 - 50%



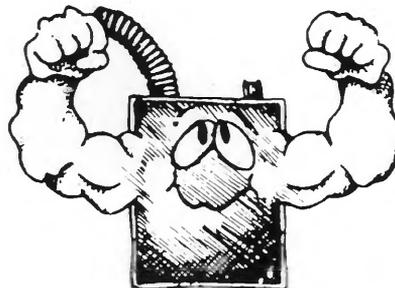
- An incandescent lamp and a fluorescent lamp having the same light output: Which uses energy more efficiently?
 - fluorescent
 - incandescent
 - both about the same efficiency

- How many soft drink cans can be manufactured from recycled aluminum with the energy needed to make a single can from aluminum ore?
 - three
 - five
 - twenty

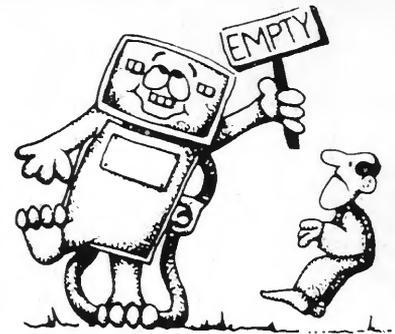
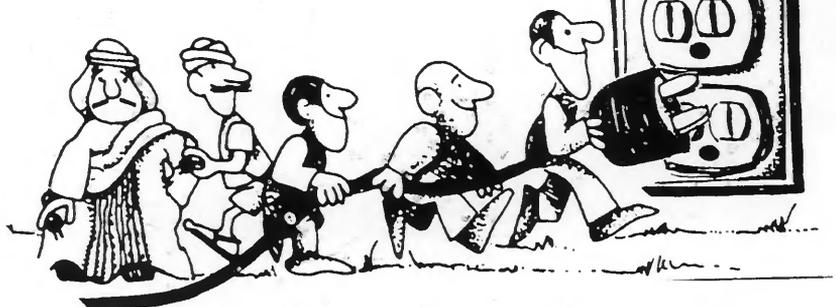
- How long would a 100-watt light bulb burn on the energy needed to manufacture one throw-away soft-drink can or bottle?
 - 10 minutes
 - 5 hours
 - 20 hours

- How much of the energy stored in crude petroleum is lost between oil well and a moving car?
 - 20%
 - 60%
 - 90%

- The heat energy of a gallon of gasoline is equivalent to
 - 5 man-days of labor
 - 15 man-days of labor
 - 25 man-days of labor



- How much faster than their rate of production are we consuming our fossil fuels?
 - 10 times
 - 1,000 times
 - 1,000,000 times



- What fraction of the world's energy consumption occurs in the U.S.?
 - over 10%
 - over 20%
 - over 30%

- Which of the following fuel resources is in greatest danger of exhaustion?
 - coal
 - petroleum
 - natural gas

- In the year 2000, American total energy demand will be:
 - the same as today
 - twice as much today
 - three times as much as today

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A Bulb to Make Edison Glow

A new light bulb has been invented that could last up to 10 years and use 70 percent less energy than conventional incandescent bulbs.

The bulb's inventor is Donald Hollister of Lighting Technology Corp., Fullerton, California. The firm has been awarded a \$310,000 contract by the Energy Research and Development Administration (ERDA) to refine, test and evaluate the bulb.

The fluorescent "Litek" bulb resembles a 100-watt incandescent bulb, fits standard sockets and gives off a warm white light similar to conventional bulbs.

According to ERDA's Austin Heller, Assistant Administrator for

Conservation, "Preliminary studies show that full nationwide use of this new fluorescent lamp could save more than the equivalent of 500,000 barrels of oil per day."

Price of the bulb is initially expected to be in the \$10 range.

HOW LITEK WORKS: Unlike an incandescent bulb, the Litek has no hot filament. It has a cool magnetic coil that is energized by an electronics package in the lower part of the bulb. The coil produces a magnetic field that excites the mercury gas, resulting in an emission of ultraviolet light. The ultraviolet light causes the phosphor layer to fluoresce and emit visible light.

Visible Photon of Light

Ultraviolet Photon

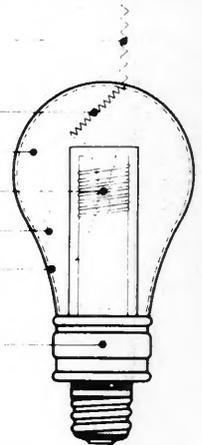
Mercury Gas

Magnetic Coil

Magnetic Field

Phosphor Layer

Electronics Package



FROM—Electric Light and Power

Capital Credit Allocation for 1977 = .08717973

If you have a membership in your name, you share in any margins the cooperative may have. This share of margins is called "capital credit." At year end these credits are allocated to each member on the basis of the amount of energy used during that year.

The most economical method of notifying members of their capital credit allocation is to furnish them with a multiplication factor which, when applied to the total electric bill for the year, will determine the allocation for that year.

To determine the amount of your capital credit allocation, multiply the total amount paid for KWH used in 1977 by .08717873.

These allocations are not available as cash or payment on electric bills. Actually the monies are used to repay outstanding loans and to make system improvements. The money is credited to each member's capital credit account.

Should you have any questions pertaining to your capital credit account, please notify the office.

*Energy Quotient

Score 1 for each correct answer.
0-5 Poor, 6-7 Fair, 8-10 Good.

- (c) Approximately half of the gas used in a gas stove is used to fuel the pilot lights because pilot lights burn continuously.
- (a) Fluorescent lights give off three to four times as much light per watt of electricity used as incandescent lamps do. One 40-watt fluorescent light gives more light than three 60-watt incandescent bulbs (and the annual savings may be as much as \$10).
- (c) Aluminum is a very energy intensive material with the largest share of the energy going to process the ore. Recycling is a great energy saver. The nation's total throwaway containers equivalent energy waste is equal to the output of 10 large nuclear power plants.
- (b) A 100-watt lamp could burn for 5 hours on the energy used to manufacture a disposable can or bottle.
- (c) Ninety-four percent of the energy in the gasoline from crude petroleum is lost in making your car move. The efficiencies of the most important steps where energy is lost are:

producing the crude oil	96%
refining	87%
gasoline transport	97%
engine thermal efficiency	29%
engine mechanical efficiency	71%
rolling efficiency	30%

The total efficiency of the system is found by multiplying the six factors together: 6%.

- (b) 15 man-days of labor. Said in another way, one barrel of oil contains heat energy equivalent to the energy of a man at hard labor for 2 days.
- (c) In less than 500 years man will have consumed essentially all of the coal, oil and gas that nature started forming 500,000,000 years ago. By comparison, that same fraction of a calendar year is approximately 30 seconds.
- (c) More than a third of the world's energy is consumed by the 6% of the world's population residing in the United States.
- (c) Natural gas reserves in the U.S. are expected to be exhausted in about 40 years. Petroleum should last for a century. Coal, 500 years or so.
- (b) For more than a century, American demand for energy has doubled, on the average, every 20-25 years.

Business is the berries

The wiry, suntanned man strolls through the strawberry patch, puffing on a pipe and visiting with the pickers. "How're you doin'?" he asks one, who turns a slightly sunburned face up to reply. "Not too bad, not too good. This isn't a good year for berries, like last year was. It's a little spotty, but we're gettin' some good ones anyway."

Lloyd Sanders, the pipe smoker, indicates a row that is liberally peppered with ripe berries. "Try over here," he suggests, "it looks real good."

Sanders and his wife operate a small

pick-them-yourself strawberry farm northwest of Berryville, in Norris Electric Cooperative's territory. The picker, in this instance, was Steve Rudolphi, who, along with his mother, Helen, and sisters Ann and Mary Sue, had driven some 25 miles to pick berries. They live near Olney, and are but one of many families who drive miles to pick berries at the farm. Many come from Indiana and much of southern Illinois, Sanders remarks. At times, there have been upwards of 800 people picking.

Sanders got into the strawberry business somewhat by accident. For

several years, he farmed and worked for the Richland County schools, then he had to retire for health reasons. Since they had a strawberry garden for their own use and it was a good producer, it seemed logical to expand the patch into a commercial venture, with the consumer doing the work at harvest time.

Still, the Sanderses do plenty of work on the five acres now planted. It takes about ten months of work a year to keep the patch in good condition and the farm is, again, almost a full-time job. Sanders straws the plants in the fall, removes some of the straw in the spring, and spends some of his time resetting plants.

"I use gray geese to keep the weeds out of the berry plants," Sanders says, "and a good goose will do as much work as two people. I take the geese out of the patch early in the spring, before the berries set on the plants. I don't use any chemical sprays or anything like that to control the weeds." (Earlier in the spring, Leroy Wakefield of Norris Electric Cooperative had a chance to see the geese in action when he visited the Sanders place to develop a story for the June issue of Norris Electric News.)

The harvest starts about the last of May or early in June, and lasts about 20 days, but it's not like it was just a few years ago, Sanders says. Then, he had 10 acres in berries, and the quarter-mile driveway was lined with cars parked by pickers going through the fields. "But it just got to be too much for me," he says, "and I've let it get down to about five acres now. It's a lot easier to take care of."



Strawberries take a lot of babying, and Sanders goes through his field often. In the photo at left, he examines some ripening berries. He keeps the field weed-free with geese, which are taken out to the field before the berries set on the plants.



Dean Searls



Elwood Olver

Adams' Searls receives ASAE Kable Award

Dean L. Searls, Manager, Adams Electrical Co-Operative, Camp Point, has received the 1978 George W. Kable Electrification Award. The award recognizes agriculture engineers for personal and professional contributions in applying electrical energy to the advancement of agriculture through agricultural engineering.

The award was presented by the American Society of Agricultural Engineers (ASAE) during the Society's summer meeting at Utah State University, Logan.

The Kable Award is sponsored by the Food and Energy Council (FEC) and by "Electricity on the Farm" magazine. It is presented annually in honor of George Kable, the magazine's editor from 1937 to 1950.

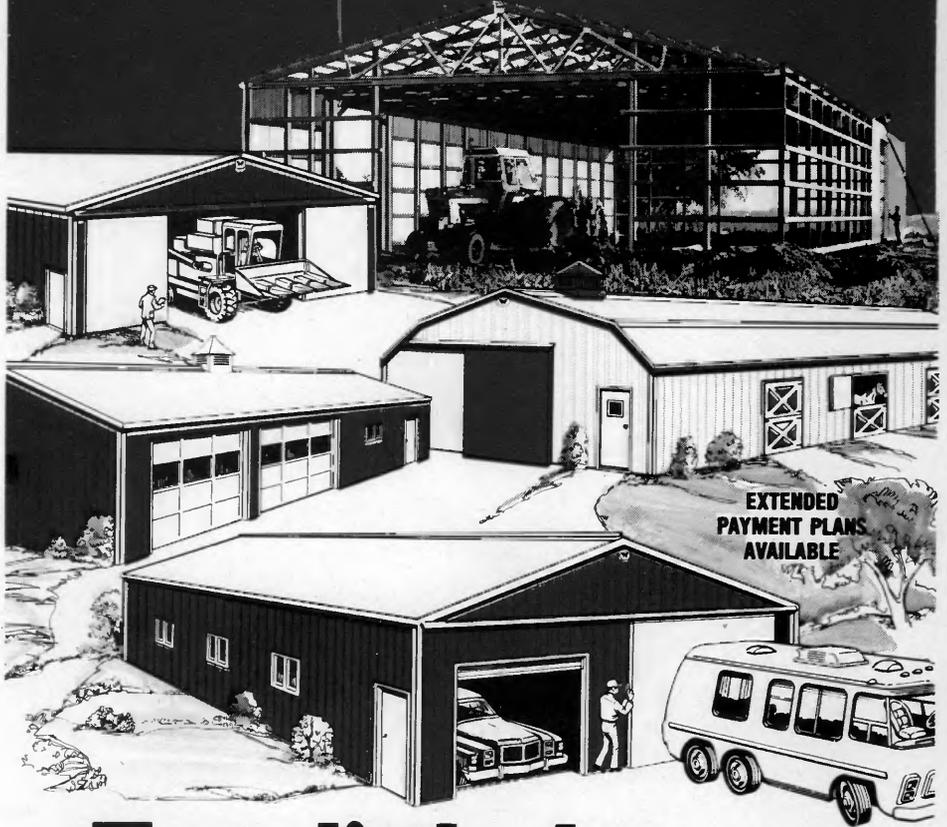
Searls has worked in the rural electrification field for 39 years, serving for the past 35 as manager of Adams. He is president of the board of the Illinois Farm Electrification Council. In 1973, he was elected to the board of directors of the national Food and Energy Council.

Another Illinoisan, Elwood F. (Woody) Olver, professor and head of the agricultural engineering processing division, University of Illinois, was elected an ASAE Fellow. Fellows are elected annually by ASAE's board and are chosen for their unusual professional distinction and extraordinary qualifications.

Olver is executive secretary of the Illinois Farm Electrification Council.

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manager's report

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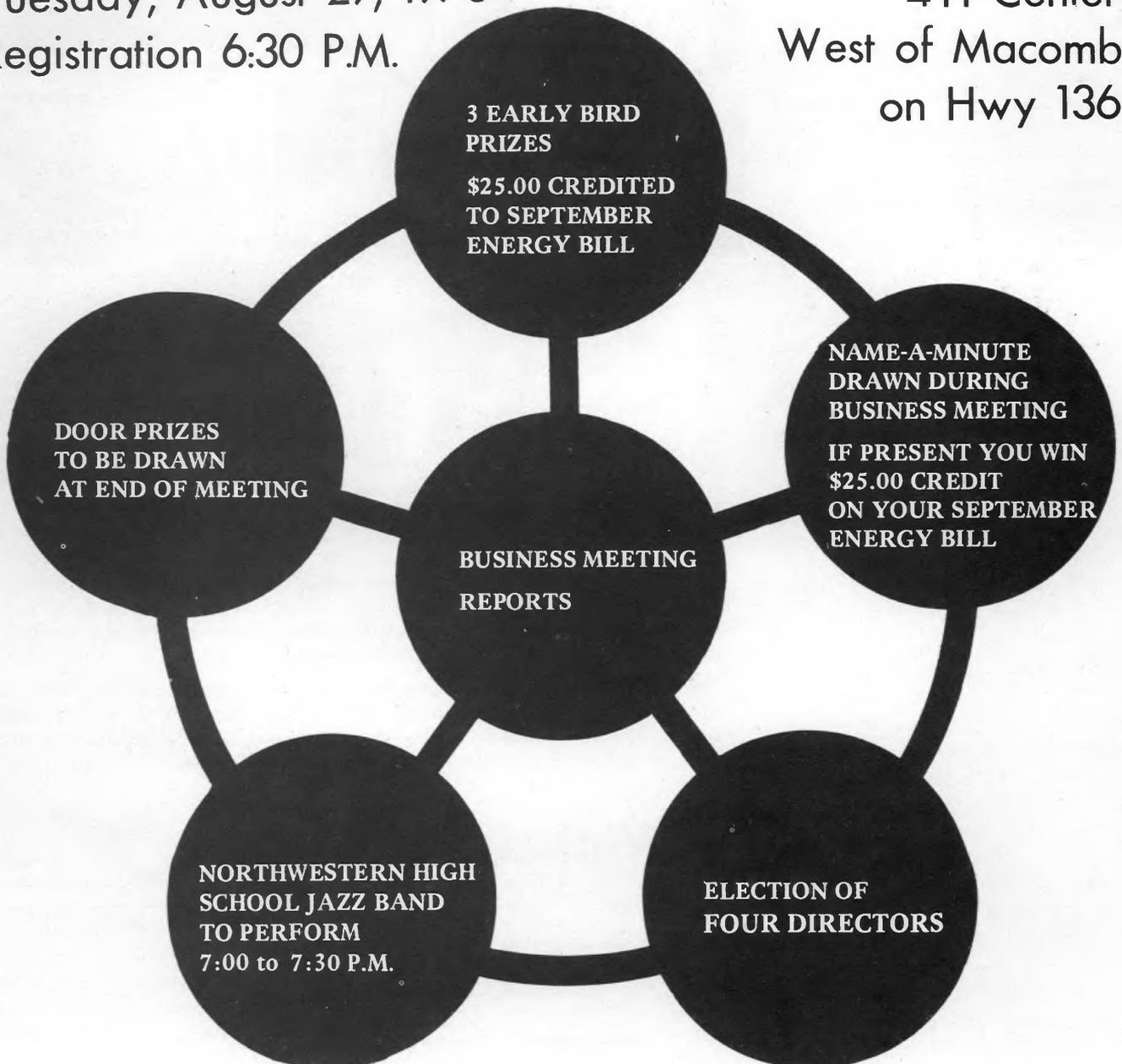
IREN SUPPLEMENT

McDonough Power Cooperative

Annual Meeting

Tuesday, August 29, 1978
Registration 6:30 P.M.

4-H Center
West of Macomb
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William R. Harris, Attorney

McDonough Power Cooperative
MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

ANNUAL MEETING

The 1978 McDonough Power Cooperative annual meeting will be held Tuesday, August 29, 1978 at 7 p.m. at the 4-H Center west of Macomb on Route 136.

Your official notice will list names of members nominated for your cooperative board of directors. These names were selected by the nominating committee, who met July 26, 1978. Additional nominations may be made by petition or from the floor at your annual meeting.

A name a minute will be drawn during the official meeting. For those who are present and name is drawn a \$25 credit toward your September energy bill will be given.

Also, three early bird prizes of \$25 each will be drawn and the winners will receive this amount toward their September energy bill.

Remember—you must be present and registered to be eligible for prizes.

Royal Newman, General Manager of Soyland Power Cooperative, will be the guest speaker. Come hear what he has to tell you about the future nuclear power plant.

DAY or NIGHT

REMEMBER...Your cooperative emergency service is on call 24 hours per day including Sundays and holidays.

837-1400

Please place all other calls during regular business hours, 8 a.m. to 5 p.m. to 833-2101. Closed on Saturdays.

How To Check Farm Wiring

Occasionally we have a member who finds he has a ground on his farm wiring system and probably has wasted a considerable number of kilowatt-hours before making the discovery. By using the following procedure, you can check your farm wiring system for grounds.

Turn off ALL appliances, equipment and lights. Be sure to disconnect everything, even the electric clocks.

Check the revolving disc in the electric meter. It may move slowly either forward or backward, but will stop before it makes a full turn, this is normal.

If the disc continues to rotate, electric current is being used. Disconnect, at the fuse box, one circuit at a time. If the meter stops, this indicates that the trouble is in the circuit that was last disconnected. Meters do not run unless electricity is being used.

If the disc still continues to rotate after ALL circuits have been disconnected, this indicates that the trouble is between the meter and the fuse box. Trouble may be in the service entrance cable, trees, windmill frames, or ground wires.

If you are unable to locate the ground, call your electrician.

If your electrician is unable to locate the ground, then contact us at McDonough Power Cooperative.

Annual Meeting Time Is Near



7:00 P.M.
Tuesday,
August 29,
4-H Center
West of Macomb



The water intake is a key element in the water delivery system of the fireboat. Duncan, left, watches as Thompson checks for obstructions, while Behling, in the yellow outfit, looks on.

First by land; now by water

(continued from page 6)

hoses can be moved from the boat to a four-wheel-drive vehicle. Such capability is especially useful in the winter, in case the boat is frozen in place at the dock.

Seper and Thompson, as are all the residents along the lake, are members of Southeastern Illinois Electric Cooperative, headquartered in Eldorado. Southeastern receives electric power from the SIPC plant.

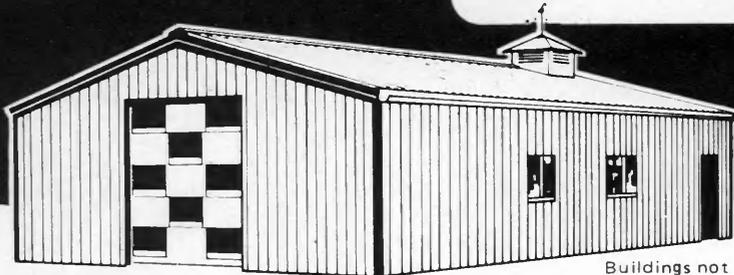
Thompson is past president of the Lake of Egypt Property Owners Association. John Ford is the current president.

The volunteer fire department draws its primary support from the property owners association, Thompson points out. The association contributes half of each member's \$10 annual dues to the fire department. This contribution, along with money raised by the ladies auxiliary of the fire department, provides the funds necessary for the department to obtain matching federal assistance. About 17 men are active in the department at the present time, three years after its start. Henry Basco, acting chief when Seper was out of state this summer, says they need about 24 to adequately cover the lake. (One truck is located at Pharaoh's Gardens area on the lake, and the other at Eagle Point Bay.) "We need more volunteers," Basco says.

Communication is a key element in making the fire department effective. Thompson explains that all locations on the lake are assigned a location code. Calls for assistance go straight into the Marion Fire Department, then the message is relayed back to the volunteers by paging devices. Ten firemen carry the paging units. A return call to Marion pinpoints the fire location.

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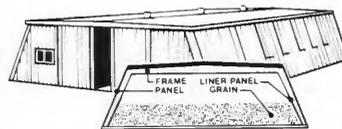
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SOYLAND CLINTON PARTNERSHIP

(Continued from page 9.)

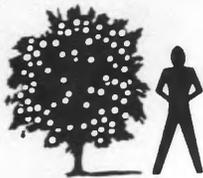
megawatts (mw) of power from the Clinton station in 1982, another 100 mw in 1986 from a joint coal-fired venture and completion of Soyland's own plant in 1987.

Following the officers' reports, 30 persons were elected to represent the 15 cooperatives of Soyland's board of Directors. Chosen were: Stanley N. Huffman, Flora, and William L. Stanford, Flora, Clay Electric Co-operative; Robert W. Vander Pluym, Breese, and Irvin W. Wessel, Centralia, Clinton County Electric Cooperative; William D. Champion, Gays, and C. E. Ferguson, Mattoon, Coles-Moultrie Electric Cooperative; G. V. Beer, Bloomington, and Frank L. Simpson, Farmer City, Corn Belt Electric Cooperative; G. N. Hodge, Milford, and Dennis L. Tachick, Paxton, Eastern Illinois Power Cooperative; Maurice Johnson, Paris, and Byron G. McCoy, Paris, Edgar Electric Co-operative Association; Edgar G. Arnn, Geneseo, and Paul Mallinson, Geneseo, Farmers Mutual Electric Company; James F. Beatty, Philo, and Walter R. Smith, Champaign, Illini Electric Cooperative; Roy E. Horton, Princeton, and M. M. Jontz, Princeton, Illinois Valley Electric Cooperative; Robert E. Pendell, Macomb, and Lyndall Pigg, Bushnell, McDonough Power Cooperative; Joseph Fellin, Waterloo, and Preston Mosbacher, Prairie du Rocher, Monroe County Electric Co-Operative; L. Eugene Boldt, Stewardson, and William E. LeCrone, Shelbyville, Shelby Electric Cooperative; Jack A. Compton, Greenville, and Donald F. Sanders, Ramsey, Southwestern Electric Cooperative; D. E. Hanes, Mt. Vernon, and Allen Sisk, Mt. Vernon, Tri-County Electric Cooperative; and Bill Endicott, Fairfield, and Evans C. Williams, McLeansboro, Wayne-White Counties Electric Cooperative.

During the board's reorganization meeting, Smith was reelected president; Compton, vice president; Tachick, secretary-treasurer, and Champion, assistant secretary-treasurer.

SEPTEMBER 1978

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Grow full-size, full-flavored fruit on trees that grow only 8- to 10-feet high. Stark Bro's special dwarfing procedure affects only tree size. Fruit is often bigger than regular trees. Trees yield usually within just two years after planting.

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manager's report

by Robert E. Pendell, Manager

watts n

IREN SUPPLEMENT



Another large number of members attended this year's meeting.

Power supply a major Soyland benefit

Participation by McDonough Power Cooperative in joint ownership of a power station expected to be operational in 1982 is seen as a significant step in ensuring adequate supplies of electric power for members, Manager Robert E. Pendell reported during the cooperative's 41st annual meeting on August 29 in Macomb.

Pendell said McDonough was one of 15 Illinois electric distribution cooperatives making up Soyland Power Cooperative and that Soyland plans a 10.5-percent purchase of Illinois Power Company's nuclear Clinton Power Station in DeWitt County. He said that an additional expected benefit of McDonough's

participation is stabilization of power costs, although, he cautioned, "Energy cost is going to continue to rise. We will have to live with this.

"Through this participation, working together with our neighboring cooperatives and government, millions can be saved by avoiding duplication of costs," Pendell added.

A special feature of the meeting was a presentation on the Clinton Power Station by Royal Newman, Soyland general manager, and Richard Ruzich, manager of energy supply.

Three cooperative directors were reelected to three-year terms on the board, while a fourth member was elected to a two-year term to complete the unexpired term of the late

Raymond R. Irish.

Reelected were: Max Welsh, Sciota, District 4; Kenneth Moore, Good Hope, District 6, and Harold Whitman, Cameron, District 9.

William J. Pollock, Colchester, is the new director for District 3. Mr. Irish served as a director of the cooperative for nearly 17 years.

"Energy supply is by far the largest issue the consumer faces today," McDonough President Lyndall Pigg, Bushnell, said. "Petroleum consumption will outstrip existing petroleum supplies by the year 2000. We must push hard to develop fuel alternatives that are available now. Nuclear energy and coal must be relied upon for electric generation. We must

ILLINOIS RURAL ELECTRIC NEWS

DIRECTORS

Lyndall Pigg, President
Clair Butcher, Vice President
Max Welsh, Secretary
Donovan Lawyer, Treasurer
William J. Pollock
Harlan Monroe
Kenneth Moore
D. Carroll Walters
Harold Whitman
William R. Harris, Attorney

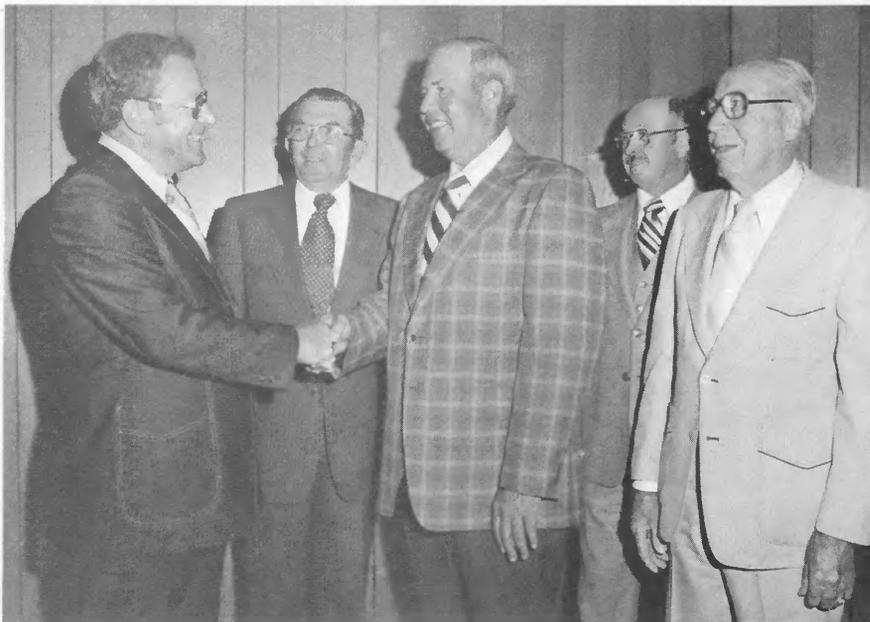
McDonough Power Cooperative

MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400



Clockwise from above: President Lyndall Pigg conducted the annual meeting. Manager Robert E. Pendell presents his manager's report as Directors Harold Whitman (left), D. Carroll Walters (second from left) and Max Welsh (right) look on along with the Rev. Dean Guymon (second from right), who gave the invocation. Manager Pendell congratulates William J. Pollock, newly elected director, while, from left, reelected Directors Max Welsh, Kenneth Moore and Harold Whitman look on.



analyze and be concerned about the unreasonable environmental delays that are seriously jeopardizing our energy future," he added.

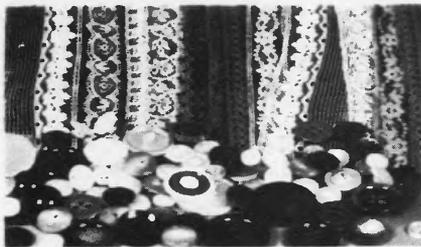
The two cooperative officials also pointed out the results of an interesting comparison: In 1977, McDonough members paid an average of four cents per kilowatt-hour, the same average cost as in 1948.

SEPTEMBER 1978

Treasurer Donovan Lawyer, Industry, said wholesale power costs continue to be the single greatest expense of the cooperative. In 1977, he said, the cooperative spent over 61 percent of each dollar for power, or

\$1,583,020. Total revenue for the year was \$1,619,575. Taxes for 1977 totaled \$164,307.

Entertainment prior to the meeting was by the Northwestern High School Jazz Band.



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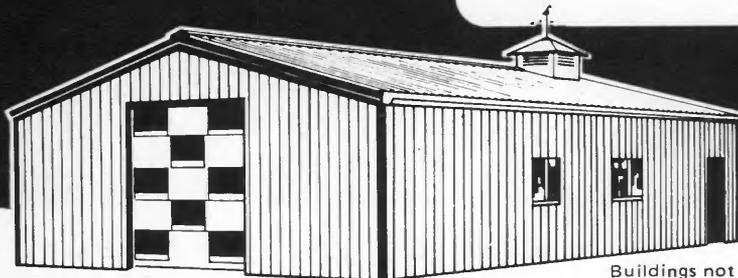
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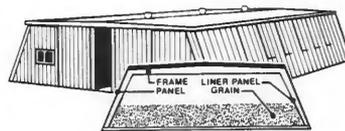
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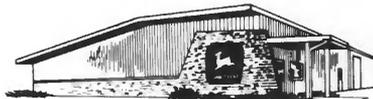


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**BURN AWAY UP TO ANOTHER 30 — 40 — 50 POUNDS, OR EVEN MORE!
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Now from one of America's leading obesity specialists comes a thrilling crash-burn way to slimmer . . . that does away with all the torture of rigorous diet ONCE AND FOR ALL — ends brutal exercise FOREVER!

What this doctor has done is simply this: Found a surefire way for you to gently raise the level of your fat-burning metabolism step up the flow of your body's own natural fat-burners so that every time you eat . . . your system automatically NEUTRALIZES THE EFFECT OF ALL THE CALORIES IN THE FOOD YOU TAKE IN — AND YOUR BODY MELTS AWAY FAT LIKE HOT WATER MELTS DOWN ICE!

Yes, with this doctor's thrilling ANTI-CALORIE PROGRAM and capsule, you "rev up" your inner furnace — you neutralize all the calories coming in — so not one ounce of the food you eat can possibly turn to fat

**ACTUALLY SHRINKS YOUR BODY'S FAT CELLS
STARTING IN JUST HOURS!**

Yes based on published reports from professors at leading medical schools . . . PLUS experimental fat-burning studies on U.S. Army officers, West Point Cadets and independent research tests . . . with the food you eat on this doctor's CAPSULE PROGRAM . . . your body automatically neutralizes the effect of all the calories you take in — automatically forces pounds and inches to vanish so FAST, that before you hardly know it, you:

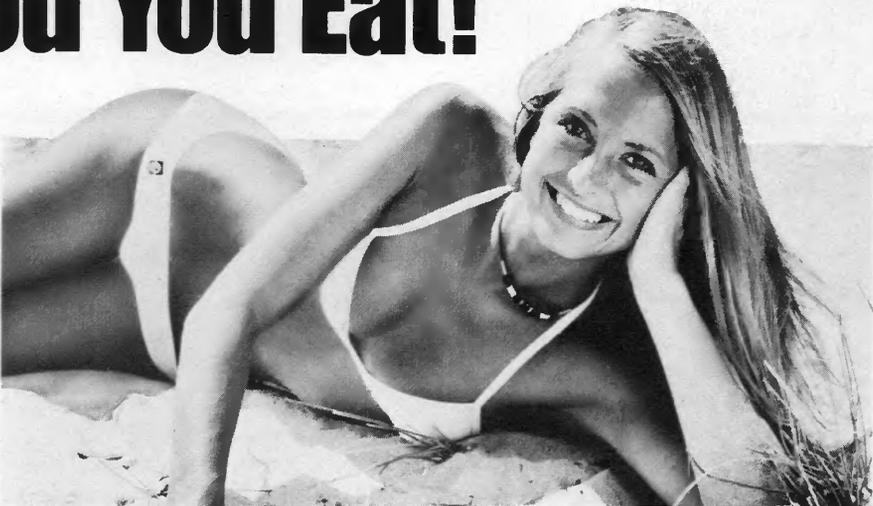
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LOSE UP TO 3 INCHES OFF YOUR THIGHS
LOSE UP TO 4 INCHES OFF YOUR BUTTOCKS
LOSE UP TO 4 INCHES OFF YOUR STOMACH**

as you start to win the physique of a naturally skinny person . . . those types who never seem to gain an ounce!

**YOUR TUMMY FEELS LIKE YOU FEASTED, BUT YOUR WAISTLINE
LOOKS LIKE YOU FASTED!**

Just to give you an idea of how fast this thrilling anti-fat weapon burns away excess fat and inches . . . according to California University Medical School research on energy burn-off you can actually melt away more fat each 24 hours than if you ran 10 to 14 miles a day! — Lose more pounds each week than if you did 300 sit-ups each morning and 300 push-ups each night! LOSE as much as a FULL SIZE THE FIRST 5 DAYS ALONE

VITAL NOTICE: Before starting this program, consult with your physician to be sure you are in normal health and your only problem is excess weight. Individuals with high blood pressure, heart disease, diabetes, or thyroid disease should use only as directed by a family physician and see if he doesn't agree that this Lifetime Road to Slimness including the few minutes of nightly toeup the doctor highly recommends is by far one of the most medically sound, fully sensible approaches to the problem of excess weight



**BEST OF ALL — YOU STAY SLIM FOR GOOD! BECAUSE AT LONG
LAST, YOU HAVE IN YOUR HANDS A LIFETIME WEAPON TO DEFEND
YOURSELF AGAINST FAT BUILD-UP!**

Yes, when you arm yourself with this thrilling ANTI-CALORIE CRASH-BURN PROGRAM and doctor's capsule . . . you actually fortify yourself with the only thing you'll ever need for LIFETIME PROTECTION against excessive fat build-up. That's because, medical science now offers you a proven way to neutralize all the calories in the food you eat — gently step up your metabolism . . . stimulate and "target" your body's "fat-burner" chemicals to attack clinging pockets of fat, so you burn away excess flab meal to meal these 3 medically proven ways

**ONE — BECAUSE YOU CONSTANTLY NEUTRALIZE THE EFFECT OF
THE CALORIES IN THE FOOD YOU EAT, YOU BURN AWAY STORED-UP
FAT AND CONTINUE TO GROW SLIMMER AND SLIMMER FROM MEAL
TO MEAL!** Yes, when you launch yourself on this doctor's calorie-deficit crash-burn program you gently step up your inner furnace! So when food enters your body, instead of being stored as fat, it is AUTOMATICALLY converted to burned-away energy

**TWO — YOU GRADUALLY ACCELERATE YOUR FAT-BURNING ME-
TABOLISM** by greater caloric burn-off than intake. Meaning, your body, without you even feeling it, unleashes a steady surge of fat-burner chemicals directly into your system to attack stored-up fat . . . automatically breaks down . . . converts it into fluid . . . that drains right out of your body!

Just like a furnace grows hotter and hotter the more you stoke it . . . so your own body burns away fat faster and faster the more you step up your fat-burning metabolism

**THREE — YOU COMPLETELY DEFEAT THE GREATEST SINGLE
CAUSE OF FAT BUILD-UP, runaway appetite and overeating.** Because the moment you take this doctor's CAPSULE, ravenous hunger disappears. Gnawing appetite is switched off . . . you lose your craving for food for hours at a time

More significant . . . when you do eat on this Doctor's CRASH-LOSS diet and Lifetime-Slim maintenance program, since your body completely NEUTRALIZES THE FAT-BUILDING EFFECT OF ALL THE CALORIES IN THE FOOD YOU EAT, excess fat simply cannot form . . . stored-up body fat burned off and melted away by the hour — and you continue to grow slimmer instead of fatter after each meal you eat!

**DOCTOR ADVISES: USE THIS CRASH-BURN PROGRAM ONLY WHILE
YOU'RE OVERWEIGHT . . . OTHERWISE YOU MIGHT GROW TOO THIN!**

Of course, there is one thing you must keep in mind. You cannot use this CAPSULE CRASH-BURN PROGRAM indefinitely . . . otherwise, you might become overly thin.

Also, as long as you are on this ANTI-CALORIE Program you cannot stuff and gorge yourself silly on over-rich, high-fat foods. There is a reasonable limit on just how fast medical science can help you safely burn away fat: BUT — and here's the very heart of this wondrous development: Because this thrilling ANTI-CALORIE concept not only helps you neutralize the effect of the calories in all the food you eat . . . but ALSO puts gnawing appetite to sleep . . . you simply lose that driving urge, that maddening craze to make fattening food the very center of your existence . . . thanks to this medically proven formula that contains the most powerful reducing aid ever approved for release to the public, without a prescription, by the United States Government!

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LOSE up to 10 lbs. the first 7 days
LOSE up to 7 lbs. more the next 7 days**

or "Thera-Thin" costs you nothing! Simply return within 10 days for full refund (except postage and handling, of course) Act now! Send NO-RISK TRIAL SUPPLY today!

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Div. of American Consumer, Inc.



manager's report

by Robert E. Pendell, Manager

watts n

IREN SUPPLEMENT

78 Ways to Save Energy

In 1978, we must all help stabilize our economy by conserving America's limited energy resources and depending less on those from overseas. Separately, each of us can try to keep our energy demands reasonable. In short, we can guarantee a better future for ourselves and generations to come by wise energy management today. Cooperation is the key. Here's how you can help:

1. Choose the proper size air conditioner for your needs.
2. Compare units' energy efficiency ratios (EER)-the higher, the better.
3. Locate on shady side of house, away from shrubs, dryer vent.
4. Don't block air circulation with furniture or drapes.
5. Clean air conditioner filter regularly.
6. Don't run window fan when unit is on.
7. With central air, set thermostat around 78 degrees.
8. Keep the sun, light fixtures and heat-producing appliances away from your thermostat.
9. Cook in self-heating appliances.
10. Use kitchen/bathroom exhaust fans to reduce humidity.
11. Turn off heat-producing gadgets when not used.
12. Close shades on sunny side of house.
13. Make sure insulation, especially in ceiling, is adequate.
14. Install a power attic ventilator.
15. Run an attic vent fan on cooler days and nights.
16. Choose a light-colored roof to reflect sunlight.
17. Plant shade trees on south and west sides of house.
18. Install window awnings to block afternoon sun.
19. Vent Clothes Dryer to outside.
20. Update your home's insulation-nothing is more important.
21. Leave your thermostat as low as comfort allows.
22. Place thermostats on inside walls, away from drafts.
23. Train family members to shut outside doors tightly, quickly.
24. Lower thermostat when large groups of people gather.
25. Add storm windows and doors or thermal glass.
26. Weatherstrip and caulk around windows, doors.
27. Draw shades on cloudy days, open when sunny.
28. Insulate or carpet floors above unheated crawl space.
29. Seal off unheated rooms.
30. Close fireplace damper when not in use.
31. Humidify for more comfort at lower room temperatures.
32. Check entire heating system before winter.
33. Clean furnace filter once a month.
34. Don't block registers/radiators with furniture, drapes.
35. Wear cotton/wool layers of clothing.
36. Use electric blanket or layers of quilts at bedtime.
37. Don't rely upon portable electric heaters to do a full time heating job.
38. Insulate heating ducts or pipes in unheated areas.
39. Never use your oven to heat kitchen.
40. Install glass fireplace doors to help contain room heat.
41. Use straight-sided pans with flat bottoms.
42. Match pan with size of surface burner.
43. Cover pots with tight-fitting lids.
44. Boil only the amount of water needed for tea, coffee.
45. Thaw frozen foods before cooking.
46. Don't preheat oven when broiling or roasting.
47. Don't "oven peek" too much.
48. Bake several dishes at once-freeze extra portions.
49. Turn off oven and surface units early-heat will finish job.
50. Cut cooking energy 50-75 percent with a microwave oven.
51. Use all-day slow cookers, low-wattage appliances.

REFRIGERATORS/DISHWASHERS WASHERS/DRYERS

52. Fill refrigerator to capacity without blocking air circulation.
53. Defrost when ice is ¼-inch thick.
54. Locate away from heat sources.
55. Make sure door gaskets are tight.
56. Cool foods before refrigerating.
57. Avoid repeated, extended door openings.
58. Clean condenser coils periodically.
59. Maintain about 40 degrees refrigerator temperature, zero in freezer.
60. Wash only a full load in dishwasher.
61. Turn off after wash cycle, let dishes air-dry.
62. Match wash time, cycle and water level to clothes load.
63. Wash clothes (full loads only) in warm or cold water.
64. Presoak stained clothing to shorten wash cycle.
65. Separate lightweight and heavy clothing before drying.
66. Don't overdry clothes; clean lint filter after each load.
67. Remove clothes promptly to avoid ironing.
68. Fix leaking faucets.
69. Take brief showers instead of baths.
70. Don't leave water running when shaving or rinsing dishes.
71. Match water heater size to your needs; set at 140-150 degrees.
72. Insulate long runs of water pipes.
73. Wrap jacket of the electric water heater with 3½" insulation to keep 'standby' losses at a minimum.
74. Use fluorescent rather than incandescent bulbs, where possible.
75. Burn one 100-watt bulb instead of two 60-watt bulbs.
76. Keep lamps, shades and bulbs dust-free.
77. Paint ceilings and walls a light color.
78. Turn off lights when not in use; go to bed early!

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McDonough Power Cooperative
 MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

Name Per Minute Drawn From Membership List

Stealing Electric Service--Stealing From Neighbors

Following are the members' names drawn during the business session at the annual meeting on August 29, 1978. If the member was present they received \$25.00 credit on their September energy bill. The asterisk indicates the winners:

Neil/Lana Chassman
 Michael/Judith Todaro
 Ken Adelman
 Louella Banks
 Clarence Wright
 Lyle Alumbaugh
 Dale/Dorothy Anderson
 Bill/Jane Anderson
 William/Pauline Kendall
 Roger Shelor
 Jerry/Katherine Wall
 Ronald Kimler
 Jerry/Joyce Allison
 Milt Sullivan
 Lyle/Shirley Hickman
 Melvin/Patricia Zulauf
 John/Judy Horine
 Paul Astrouski
 Verlyn Mayall
 John/Carolyn Ewen, Jr.
 Raymond Gearhart
 Hubert/Roberta Meadows
 Fred Shimmin
 Robert/Sharyn Cunningham
 John Kane
 Loren/Pauline Wiley
 W. I./Carol Deisher
 Hugh/Marjorie Jones
 George/Grace Crow
 Charles Hayes
 James/Onnalee Eskridge
 Mr. & Mrs. Truman Kost
 Danny Morrison
 Henry/Vera Vanbrooker
 Loyd/Jean Burton
 Kent E. Nell
 Dwayne/Carol Coker
 Ralph/Iola Neill
 Rodger/Judith Chaplain
 Paul/Nancy McKee
 James/Deborah Nunn
 Dean A. Hansen
 Ron/Gene Curtis
 Karl/Nancy Calvert
 Robert/Lois Johnson
 Albert Kern
 M. H./Phyllis Hassan
 Orval/Glenn Torrance
 G. R./Sandy Crosby
 Arthur Gallagher

Macomb
 Macomb
 Macomb
 Blandinsville
 Bushnell
 Good Hope
 Good Hope
 Avon
 Avon
 Colchester
 Macomb
 Macomb
 Macomb
 Colchester
 Tennessee
 Marietta
 Macomb
 Macomb
 Macomb
 Roseville
 Raritan
 Abingdon
 Berwick
 Roseville
 Media
 Abingdon
 Kirkwood
 Galesburg
 Monmouth
 Adair
 Industry
 Macomb
 Macomb
 Plymouth
 Adair
 Good Hope
 Macomb
 Macomb
 Macomb
 Macomb
 Bushnell
 Good Hope
 Sciota
 Blandinsville
 Avon
 Macomb
 Macomb
 Blandinsville
 Macomb
 Addison

Damon Justus
 Howard Havens
 Wayne Brooks
 Ruth A. Bradford
 Phil Marshall
 Lawrence/Ruth Hanley
 Russell Dakin
 Lowell/Mary Cortelyou
 Robert Elander
 James Kiesow
 Larry/Sharon Schafer
 Dennis Young
 Jack/Margie Hennenfent
 Franklin Heaton
 Thomas/Golda Ashwood
 Don/Maxine Kitch
 Leon/Carol Bainter
 Dorothy Hull
 James/Eloise Graham
 Bill/Joanne Rich
 Eddie/Marjorie Sammons
 Swan Hills Golf Course
 Carl L. Carlson
 John/Barbara Legate
 Thomas/Cassie Draper
 Eldon/Marguerite Beard
 J. L./Dorothy Stoneburner
 Howard Welsh
 Ron/Kathie Tinkham
 Clyde/Mildred Bailey
 Danny Ross
 Roger/Linda Kelley
 Philip/Jaclyn Dodd
 Robert Motley
 James/Florine Miller
 James/Eleanor Gallagher
 Johnnie/Nancy Hall
 Orie Clauson
 Toledo, Peoria & Western RR
 Donald/Marcia Adams
 H. A. Kelso
 Murrell Purdy
 Vernon/Carol Loveall
 Minnie Lewis
 Catherine Null
 Lyle or Terry Webb
 Galen Olson
 Willard/Wanda Peterson
 Melvin/Shirley Lotz
 Michael/Mary Stenger
 Jack/Kathy McPherson
 Maurice Litchfield
 Mike/Linda Clark
 Don Payne
 Edward G. Miller/Wilma S. Gorsuch
 Elmer/Barbara Onion
 Raymond/Leila Brown
 John Miller
 B. B. Bader
 Ernest/Susan Toland
 *Erwin Jones, Jr.
 *Leroy/Mary Dunn
 *Charles/Ruthi Hillyer
 *Francis/Florence Kane
 *Garry E. Nelson
 *Dick Weller

Colchester
 Marietta
 Macomb
 Macomb
 Macomb
 Monmouth
 Sciota
 Stronghurst
 St. Augustine
 St. Augustine
 Berwick
 Roseville
 Cameron
 Rushville
 Vermont
 Industry
 Macomb
 Plymouth
 Adair
 Macomb
 Macomb
 Avon
 Roseville
 Abingdon
 Abingdon
 Avon
 Roseville
 Abingdon
 Kirkwood
 St. Augustine
 Monmouth
 Colchester
 Macomb
 Macomb
 Colchester
 Macomb
 Tennessee
 Tennessee
 E. Peoria
 Macomb
 Macomb
 Macomb
 Macomb
 Blandinsville
 Bushnell
 Good Hope
 Good Hope
 Blandinsville
 Stronghurst
 Macomb
 Macomb
 Macomb
 Macomb
 Macomb
 Table Grove
 Macomb
 Industry
 Vermont
 Rushville
 Blandinsville
 Plymouth
 Industry
 Roseville
 Colchester
 Macomb

Tampering with a meter, unauthorized connection of service or diverting electric energy for the purpose of reducing kilowatt-hour registration or to avoid payment for energy used is an unlawful act, punishable by up to six months in prison or by a fine up to \$500 or some combination of both. A person guilty of such intent to defraud shall be guilty of a Class B misdemeanor. The following is an excerpt from the Illinois Revised Statutes Chapter III 2/3:

"Any person, who with the intent to defraud, tampers with, alters, obstructs or prevents the action of any meter, register or other counting device which is a part of any mechanical or electrical machine, equipment or device which measures service, without the consent of the owner of such machine, equipment or device, shall be guilty of a Class B misdemeanor."

The few persons guilty of such fraudulent practices are stealing from the cooperative and thus increasing the cost of electric service to all other members.

If you know of such a practice, we urge you to contact us immediately. If you prefer, you need not identify yourself. If you will give us the location, we will conduct an investigation.



The early bird winners

Dennis Carson
 Mildres Hensley
 Mrs. Enerson Vail

Colchester
 Blandinsville
 Macomb.

Delayed effective date and longer duration key elements of new wholesale power agreement

A new agreement for the purchase of wholesale electric power for eight Illinois electric distribution cooperatives and one generation and transmission cooperative went into

effect October 1, two months later than previous annual agreements, and will be for a period of 15 months, rather than the one-year period of earlier agreements. Cooperative

officials estimate the rate increase delay and moratorium will save member-consumers an estimated \$800,000.

The agreement, developed after lengthy negotiations with Illinois Power Company (IP), followed IP's initial request for an annual rate increase of \$3.4-million effective August 1 this year to the cooperatives which purchase bulk power from the supplier. The result of the negotiations over a period of several weeks was a purchase contract that includes an annual rate increase of \$2.4-million to the cooperatives, with a delayed effective date of October 1, and a moratorium on additional increases until January 1, 1980.

Cooperatives involved include: Clinton County Electric Cooperative, Corn Belt Electric Cooperative, Farmers Mutual Electric Company, Illinois Valley Electric Cooperative, McDonough Power Cooperative, Monroe County Electric Co-Operative, Southwestern Electric Cooperative, Tri-County Electric Cooperative and Western Illinois Power Cooperative and its seven member cooperatives: Adams Electrical Co-Operative, Illinois Rural Electric Co., M.J.M. Electric Cooperative, Menard Electric Cooperative, Rural Electric Convenience Cooperative, Spoon River Electric Co-operative and Western Illinois Electrical Coop.

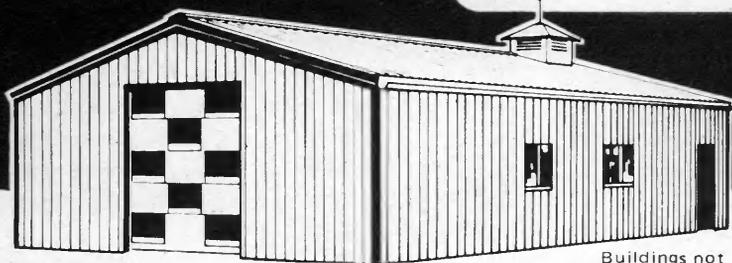
Representing the cooperatives in the negotiations was the IPC Bulk Power Negotiating Subcommittee of the Association of Illinois Electric Cooperatives' Energy, Environment and Engineering Committee. Members of the committee include the manager of each of the cooperatives which purchase bulk power from IP.

Average overall impact of the new



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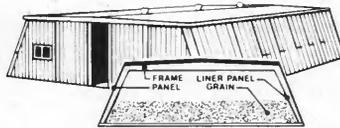
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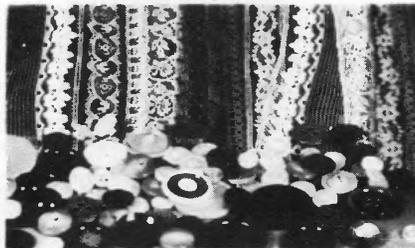
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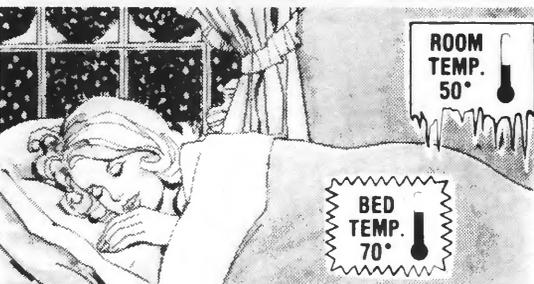
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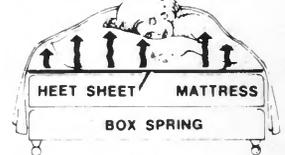
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manager's report

by Robert E. Pendell, Manager

watts m

IREN SUPPLEMENT

Home energy audits available

Will it really pay me to add insulation? . . . to add storm windows?

What additional energy savings can be achieved in my home?

How much will my electric bill go down by weatherizing?

These are typical of many of the questions asked your cooperative by concerned members. Energy management in the home is becoming more important to members as electric costs climb. Many of you are asking what your cooperative can do to help.

One way your cooperative can help is to provide straight answers to some of your energy management questions such as those posed here. Through a free home energy audit now available, some of those answers are available.

A home energy audit involves a computer calculation of home heat loss characteristics, based upon member completion of an energy audit questionnaire. In addition, the computer will apply electric costs and building material costs to determine the pay-back period of the costs of weatherizing. Most of the basic information needed to determine the feasibility of various type of weatherization is provided.

How can you participate?? It is easy—and confidential.

Stop in at your cooperative office and see the "Home Energy Conservation Information Center." Pick up your copy of the energy audit questionnaire. Follow the instructions and mail to the Division of Energy, Springfield, IL. In about three to four weeks you will receive a computer print out showing cost savings.

Illinois Energy Conservation Program



Cooperative Extension Service College of Agriculture University of Illinois at Urbana-Champaign

Here is your Project Conserve Questionnaire

Sponsored by the Illinois Division of Energy

General Information

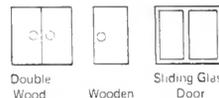
- When was your home built?
 - prior to 1920
 - 1921-1945
 - 1946-1965
 - 1966 to present
- What type is your home?
 - one-story
 - two-story
 - split-level
 - three or more stories
- When was your heating system last cleaned or serviced?
 - less than 6 months ago
 - 6 months to 1 year ago
 - 1 to 2 years ago
 - more than 2 years ago
 - not serviced
- What indoor temperature do you attempt to maintain in your home in the winter during:

daytime:	evening:	night:
<input type="checkbox"/> 55-59	<input type="checkbox"/> 55-59	<input type="checkbox"/> 55-59
<input type="checkbox"/> 60-64	<input type="checkbox"/> 60-64	<input type="checkbox"/> 60-64
<input type="checkbox"/> 65-68	<input type="checkbox"/> 65-68	<input type="checkbox"/> 65-68
<input type="checkbox"/> 69-75	<input type="checkbox"/> 69-75	<input type="checkbox"/> 69-75
<input type="checkbox"/> above 75	<input type="checkbox"/> above 75	<input type="checkbox"/> above 75
- Approximately, what is the total square footage of heated living area in your home? (To estimate living area, multiply the length x width of your home by the number of heated and utilized stories.)

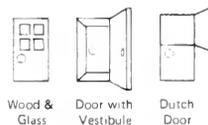
<input type="checkbox"/> 800 or less	<input type="checkbox"/> 1,601-1,800
<input type="checkbox"/> 800-1,000	<input type="checkbox"/> 1,801-2,000
<input type="checkbox"/> 1,001-1,200	<input type="checkbox"/> 2,001-2,200
<input type="checkbox"/> 1,201-1,400	<input type="checkbox"/> 2,201-2,400
<input type="checkbox"/> 1,401-1,600	<input type="checkbox"/> 2,401 or more

Doors

- The following are diagrams of common types of exterior (outside opening) doors. Enter below each diagram that most closely resembles your doors the number of each type of door in your home. Do not include doors that open into garages.



Number of Doors:



Number of Doors:

- How many of your doors are equipped with storm doors?

- On a cold, windy day can you feel air leakage near the doors even when the doors are closed?
 - all
 - none
 - some

- Do you have weather stripping and/or caulking around your exterior doors?
 - all
 - none
 - some

Air Conditioning

- Is the entire living area of your home air-conditioned?
 - yes
 - no

If your home is not air conditioned, skip to Question No. 13.

- What type of equipment is used in your home for summer cooling?
 - electric central
 - one or more air conditioning window or wall mounted units
 - gas central air conditioning

- What indoor temperature do you attempt to maintain in your home in the summer during:

daytime:	night:
<input type="checkbox"/> 70 or less	<input type="checkbox"/> 70 or less
<input type="checkbox"/> 71-74	<input type="checkbox"/> 71-74
<input type="checkbox"/> 75-78	<input type="checkbox"/> 75-78
<input type="checkbox"/> above 78	<input type="checkbox"/> above 78

Happy Thanksgiving

from directors and employees of McDonough Power Cooperative

DIRECTORS

Lyndall Pigg, President
 Clair Butcher, Vice President
 Max Welsh, Secretary
 Donovan Lawyer, Treasurer
 William J. Pollock
 Harlan Monroe
 Kenneth Moore
 D. Carroll Walters
 Harold Whitman
 William R. Harris, Attorney

McDonough Power Cooperative
 MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

**Tips For Better Use
 of Your Food Freezer**

Your food freezer can save time in the kitchen. It can cut down on the number of your shopping trips. It can help you have better meals in any season.

But, the freezer can't perform wonders on the food itself. This must be of good quality when you freeze it, must be properly prepared for freezing, and must be properly packaged.

When you have taken care of all of these "musts," there are a number of tips that can help you make better use of your freezer. Here are a few of them.

1. Organize your freezer with special sections for meats, fruits, vegetables, breads and desserts for family use.
2. If you entertain a lot, reserve a shelf or part of a shelf for party foods.
3. Label all packages with content and date of freezing, then arrange foods that have been in the freezer the longest time near the front. Use these first.
4. Use adhesive labels for labeling packages. They stick without moistening and stay stuck.
5. If you pack lunches for any member of the family, allot special space for lunch items.
6. As you shop and add new foods to your freezer, reorganize as you store the food to keep packages rotating.

Always follow instructions of your freezer booklet when preparing foods for freezing. Then, rejoice in the delicious products that will add zest and interest to your meals all year long.

Energy Costs

13. What fuel is used by your heating system?
 gas oil
 electricity coal
 propane kerosene

14. During the last twelve months, what was the total cost of energy used for heating, including all its various uses in your home?
 \$200 or less \$601-\$700
 \$201-\$300 \$701-\$800
 \$301-\$400 \$801-\$900
 \$401-\$500 \$901-\$1,000
 \$501-\$600 \$1,001 or more

15. If the fuel for summer cooling in your home is different from your heating fuel, indicate its total cost to you for the last twelve months, including all its various uses in your home.
 \$200 or less \$601-\$700
 \$201-\$300 \$701-\$800
 \$301-\$400 \$801-\$900
 \$401-\$500 \$901-\$1,000
 \$501-\$600 \$1,001 or more

Attics

16. Do you have an attic or crawl space under your roof?
 yes no

If you have no attic or crawl space under your roof, go on to Question No. 23.

17. Is your attic area heated?
 yes no

18. Do you have permanent flooring installed in your attic?
 yes no

19. Does your attic have vents or windows that provide ventilation?
 yes no

20. Is your attic equipped with an exhaust fan?
 yes no

21. How much insulation is in the floor of your attic?
 1-2 inches 9 or more inches
 3-4 inches none
 5-6 inches unknown
 7-8 inches

22. What does the insulation in your attic look like?
 loose particles none present
 blankets or batts unknown

Windows

23. The following are diagrams of common types of windows. Enter below each diagram that most closely resembles your windows the number of each type of window you have in the heated living area of your home. Also indicate whether or not the windows have wooden frames. Don't forget basement windows if you include the basement in the heated living area of your home.



Double Hung



Tilting



Casement

Number of Windows:

Wood Frame: yes yes yes
 no no no



Sliding Pane



Picture or Bay

Number of Windows:

Wood Frame: yes yes
 no no

24. How many windows are equipped with either storm windows or double glazing?

25. Do your windows rattle?
 all none some

26. On a cold, windy day can you feel air leakage even with the windows closed?
 all none some

27. Do you have weather stripping and/or caulking around your windows?
 all none some

28. What type of fuel is used by the following appliances in your home?
cooking stove:
 gas propane
 electricity oil
 oven:
 gas propane
 electricity oil
 water heater:
 gas propane
 electricity oil
 clothes dryer:
 gas propane
 electricity

29. Do you have the following energy consumers in your home?
 color television set yes no
 outside gas light yes no
 frost free refrigerator yes no
 frost free food freezer yes no

for further information call: 217/782-1926

Before you send in your free energy audit, please print your full name, street address, city, state and ZIP code.

Name _____ Address _____
 City _____ State _____ Zip _____

mail this completed questionnaire to:

Project Conserve

Division of Energy
 Illinois Department of Business & Economic Development • 222 South College Street • Springfield, Illinois 62706



Questions about the future

How scarce will energy be, and who will allocate it?

A leading electric utility official has suggested six questions that should be asked of those persons who advocate energy retrenchment in our society. James J. O'Connor, President, Commonwealth Edison Company, posed the questions during a speech to participants in the Illinois Energy Conference on Electric Utilities in Illinois during September in Chicago.

Questions O'Connor said should be asked included:

- Just how scarce should energy be—and who will allocate it?
- Who might be forced to reduce energy consumption in the event there is not enough energy to meet everybody's needs—the large industrial user, the homeowner, the farmer—or who?
- Just how willing would Americans be to trade their single-family homes for the energy-saving apartments the Swedes are living in, and are the Swedes happy with these units?
- Just how would the American working man react to having labor-saving, energy-using machines taken away and having a pick and shovel put in his hands?
- And when 20 men with hand tools replace the one man and his machine, how much will the 20 men be paid?
- And will someone please ask those who allege that the U.S. energy industry is suppressing solar power because “corporations don't own the sun” just why there is no solar power in countries where there are no corporations—just government?

O'Connor was one of over 40 Illinois and national utility and government leaders who spoke during the three-day conference, sponsored by the Energy Resources Center of the



University of Illinois at Chicago Circle, the Illinois Energy Resources Commission and the Illinois Institute of Natural Resources. Dr. James P. Hartnett is Director of the Energy Resources Center and served as chairman of the conference planning committee.

Among the members of the conference planning committee was

. . . Consumer electric costs are being driven higher and higher by the standards and regulations.

James H. Eddleman of the Association of Illinois Electric Cooperatives. Eddleman and Illinois State Representative Daniel M. Pierce were co-chairmen of the first day's afternoon session on power plant planning and siting.

Five persons addressed the conference during the discussion of

Porter J. Womeldorff, left, Manager of Planning, Illinois Power Company, was among a group of speakers who discussed power plant planning and siting during the Illinois Energy Conference on Electric Utilities in Illinois. Seated are Representative Daniel M. Pierce, center, a member of the Illinois Energy Resources Commission, and James H. Eddleman of the Association of Illinois Electric Cooperatives, co-chairmen of the session.

planning and siting, including Porter J. Womeldorff, Manager of Planning, Illinois Power Company; Richard J. Grant, Environmental Affairs Supervisor, Central Illinois Public Service Company; Martin Wagner, Policy Planning Division, U.S. Environmental Protection Agency; Robert V. Laney, Deputy Director of Operations, Argonne National Laboratory, and Tor Kolflat, Illinois Energy Resources Commission.

Grant said development of accurate load growth forecasts and competent planning and siting of power plants require considerable attention to problems caused by uncertainties, especially those relating to existing and proposed environmental standards and regulations.

He added that amid all these uncertainties is one certainty: consumer electric costs are being driven higher and higher by the standards and regulations.

Grant noted recently proposed federal EPA standards—New Source Performance Standards—which would

Fiat-Allis Demonstration Area

Heavy equipment sales 'built' near Springfield

Fiat-Allis' Bill Rummer, on the tractor, talks with Wayne Fuchs of Rural Electric Convenience Cooperative, which provides electric service to the heavy equipment manufacturer's product demonstration site.

Just a few miles southeast of Springfield, tractors, scrapers and front-loaders roar back and forth, some plodding slowly and surely, others scurrying around like determined beetles. They are not working on a great project, and the earth they move from one place to another today may well be moved back tomorrow.

The machinery works regularly at the Fiat-Allis Demonstration Area, and the primary function of the area, according to W. L. "Bill" Rummer, supervisor, demonstration areas, "is to generate sales."

"We bring in our salesmen, show them the equipment and tell them the selling points," Rummer says, "and we put them on the machines to operate them. We don't try to make qualified operators out of them, but we do want them to get the feel of the equipment."

Prospective customers, too, are brought to the site of occasion, given a tour of the Springfield Fiat-Allis plant and labs, and are treated to a display of the equipment at work. Rummer tries to keep at least one piece of equipment from each product line at the demonstration area, and there are some 25 pieces of equipment in the



comparison of tractor parts, dissected to show the relative "beefiness" of the Fiat-Allis parts as compared to those of the competition.

"We have a couple of demonstration operators here, and a serviceman," Rummer says, adding, "all in all, it takes about a dozen people to put on a good formal display."

The demonstration area is operated on some 70 acres of land leased from the City of Springfield, and serves as the summer facility. It is served by Rural Electric Convenience Cooperative Company, Auburn. Another site, near Phoenix, Arizona, gets a lot of use during the winter months, while a third site in Italy is in use nearly the year around.

The demonstration area in Italy points up the international nature of the firm, which has plants in Italy, England and Brazil, as well as licensees in Japan, Canada and Singapore.

One of the tractors at the site is the Model 41B, which, equipped with blade, cab and ripper, will weigh in at about 160,000 pounds, and cost in the neighborhood of \$330,000. Even at the seemingly stiff price, Rummer notes, the 41 is a popular model.

"Many of our biggest tractors go for coal mining or land reclamation," he says, "and one coal company in

"All in all, it takes about a dozen people to put on a good formal display."

company's line.

Observers at the site sit on bleachers protected from the weather by a blue and white tent-like structure that also houses a product exhibit. One of the prime displays is a

"Many of our biggest tractors go for coal miners or land reclamation."

Pennsylvania has eight of them on order. Coal must really be the name of the game these days."

It is no surprise that the firm's large tractors are selling well, since big equipment is needed to keep up with America's ever-growing energy needs.



manager's report

by Robert E. Pendell, Manager

watts n

IREN SUPPLEMENT



Merry Christmas

from the Gang at
McDonough Power Cooperative

"Seasons Greetings." The holiday season is here and we would like to say "Thank You" to all of our member-consumers for the very fine cooperation we have had the past year.

We sincerely hope that 1979 will be a prosperous year for all of us.

We all want to wish you a very Merry Christmas and extend our wishes for a Happy New Year.

Christmas Night

*Christmas comes each year,
We hear the old familiar carols ring;
The same sweet carols ring,
That they heard the angels sing.
We see the great bright star again,
That shone that wondrous night;
The children's hearts are gladdened,
With gifts and joys they delight.
The Christmas trees with tinsel,
And lights gleaming bright;
Shine forth to whisper—
It is Christmas night.
It all means the Heavenly love,
That the Christ Child brought;
And fills our hearts with in,
The love all mankind has sought.*

—Opal Danielson, English, IN

Board of Directors

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Donovan Lawyer	D. Carroll Walters
Harlan Monroe	Max Welsh
Kenneth Moore	Harold Whitman
Lyndall Pigg	

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Kenneth Moore
D. Carroll Walters
Harold Whitman
William R. Harris, Attorney

McDonough Power Cooperative

MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

Reorganization of board

At the September 25, 1978, board meeting, the first meeting following the annual meeting, the officers were elected as follows:

Lyndall Pigg, Bushnell, President;
Clair Butcher, Macomb, Vice-President;
Max Welsh, Sciota, Secretary, and
Donovan Lawyer, Industry, Treasurer.

The Board of Directors' monthly meeting is held on the fourth Monday of each month, unless this falls on a holiday as it does in December when it is scheduled for December 19.

Mr. William Pollock of Colchester was welcomed as a new member of the board, replacing Mr. Raymond Irish who passed away in July, representing district 3.

Look up--and Live

Each year, death and injuries result when power lines come in accidental contact with grain augers, irrigation pipe, television and citizens band radio antennas, stack movers and metal ladders. The list goes on and on.

Such accidents are not only serious, but can be prevented. Sometimes the operators of equipment are not even aware that power lines are near.

It is basic safety to prevent a hazardous trap for someone else, also. Avoid stacking irrigation pipe or hay near a power line. Remember that grain bins and other structures should be built a safe distance away.

Those who must be especially alert to power line locations at all times include operators of well drilling equipment, persons working with metal ladders, stack moving equipment, grain augers, bale elevators, cranes and draglines.

Memoriam

Mrs. Blanche Noper passed away at the Americana Nursing Home in Macomb on Thursday, October 26, 1978, following several months of illness.

Directors, employees and associates of McDonough Power Cooperative as well as cooperative people throughout the state held the highest degree of esteem and affection for Mrs. Noper.

She was one of the incorporating directors of the cooperative and gave of her time and energy to the creation and development of the cooperative, serving from July 1938 until August 26, 1975, at which time she chose to retire.

At the time of her retirement the Board of Directors presented with her with a resolution, a part of which follows:

"WHEREAS, Mrs. Noper has contributed sound judgment and deliberation to the problems that have confronted this board and the questions it has had to decide over the years, and

WHEREAS, THE Directors of the Board desire to express their appreciation for the services Mrs. Noper has rendered as Director and as Secretary of the Cooperative and for the efficient and pleasant manner in which she had faithfully performed her duties as a director for the benefit of the cooperative and its entire membership."

She was very active in the Good Hope Methodist Church and many varied activities and served them each as faithfully.

We will each miss this gracious lady, but our lives have been enriched by having known her.



Blanche Noper

Willie Says—
Bright Ideas For
Christmas Are
ELECTRIC!
Why Not Give A
Security Light?

Willie Says—

Willie says Merry Christmas to all of you. This is the time of year when we are usually in good spirits so don't let an electrical fire, caused by faulty wiring or overloaded circuits, spoil your Christmas this year. Have your wiring checked by a qualified electrician. . .

Retirement by Dunham closes long career; Buller is successor

Lyle E. Dunham, whose 27 years with the Association of Illinois Electric Cooperatives were marked by dedication, determination and unselfish contribution of time, has retired, ending a career of service to and contact with thousands of Illinoisans.

The Brown County native, who worked five years for Adams Electrical Co-Operative, Camp Point, after Naval service during World War II, accepted a temporary assignment with the AIEC in 1951 to assemble tents, chairs, lighting, sound and other equipment for a traveling annual meeting "caravan" to assist many of the state's electric cooperatives. Shortly after joining the AIEC staff as a permanent employee, he conceived the Illinois Electric Cooperative Emergency Work Plan to provide manpower, equipment and materials in the event of an emergency. (During the Spring ice storm, the plan was activated, saving valuable time in restoring service.)

One responsibility led to another, and he became the AIEC's special services coordinator, serving the state's electric cooperatives in a variety of capacities—including legislative representative; coordinator for meetings, group purchases and job training and safety programs; beauty pageant director; printing supervisor, and Youth to Washington tour



director. In 1961, Dunham was named Director of Member Services.

As Director of Member Services, Dunham worked closely with power use and member service personnel. His service at the cooperative locations made his name and face very familiar.

Throughout his career, Dunham also worked closely with agriculture groups, including the University of Illinois College of Agriculture. On several occasions, Dunham was honored for his service, but perhaps the highlight of the honors came in November when the Illinois Chapter of Gamma Sigma Delta, the Honor Society of Agriculture, presented him with its Award of Merit for outstanding service to agriculture in Illinois. Chapter President Dr. Lyle P. Fettig, who presented the award, cited him for his work to assist farmers in the most efficient and economical use of electric power, his various activities with the Illinois Farm Electrification Council and his work on behalf of the 4-H, Future Farmers of America and the Illinois Young Farmers.

Gary W. Buller, a former staff member of South Dakota State University, has succeeded Dunham.

Buller formerly was a design and research engineer with the Agricultural Engineering Department of South Dakota State, Brookings, where he received his bachelor of science degree



Clockwise from top left: Dr. Lyle Fettig, left, President of the Illinois Chapter of Gamma Sigma Delta, The Honor Society of Agriculture, presents the fraternity's Award of Merit to Lyle E. Dunham, retired Director of Member Services for the AIEC. Gary Buller, a native of South Dakota, is the new Director of Member Services. Dunham, who directed numerous annual meeting beauty pageants, poses with Nancy Hammann, Miss Illinois Electric Cooperatives of 1965.