

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.”



Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

40th Annual Meeting

Again this year the Ramada Inn Convention Center will host the annual meeting. With excellent dining facilities a large group can have an enjoyable meal to start the afternoon off right. Last year's large turnout proved it to be a success.

In order to plan a meal for each person, the cooperative must know in advance how many people will be attending. The annual meeting notice and luncheon reservation card will be mailed to each member in late January. This reservation card must be returned by February 10. At this time we must turn in an exact count for the meal. Please help us by returning these cards as soon as possible.

The annual meeting is the highlight of the past year's activities. Your board of directors and employees invite each and every member to attend and hear the officer's reports and exercise his democratic right to vote in the election of directors.

This year's meeting will bring the retirement of one

director. After 20 years of service, Clarence P. Day of R.R. Bement will retire from the board of directors. During his tenure, Mr. Day has served as an officer and achieved a near-perfect record of attendance at board meetings.

Directors for the cooperative will be elected from the following areas: Piatt County; Champaign County—Northwest; and Vermilion County. The nominating committee, appointed by the board of directors, will submit names to be voted upon at the meeting. Nominations will also be accepted from the floor. The Ramada Inn Convention Center is located at 1505 South Neil Street in Champaign, just one block north of Illini Electric Cooperative's office. Plenty of free parking is available, so plan to be there. For those registered, many good prizes will be awarded at the close of the meeting.

For an informative and interesting afternoon, mark your calendar for February 16, and return your reservation card by February 10.



Wilbur Gady, president of Illini Electric Cooperative, welcomes each and every member to the annual meeting.

40th Annual Meeting

Place: Ramada Inn Convention Center
1505 S. Neil
Champaign, Illinois

Date: Thursday,
February 16, 1978

Time: Registration—11:00 A.M.
Luncheon served at 12:00 Noon
Meeting starts—1:00 P.M.
Officers' Reports
Speaker—Dayle Deal, Field Supervisor
Illinois Farmers Union

Attendance prizes will be drawn

Winter begins with near blizzard

The very latest transportation equipment purchased was pressed into service during the week of December 5. Two severe snowstorms with high winds and drifting caused serious problems when our trucks were needed in the south Champaign and Douglas counties area. To begin with, a coating of ice developed on the lines when freezing rain hit in this area. High winds then developed, causing the lines to jump up and down; this caused some lines to break.

The major problem was not the number of people out of service; it was the very bad road conditions to get to these breaks. Many times the only way our trucks could get through was with a road patrol leading them through the drifts. There were times when road patrols could not be rounded up, when it was up to the crews to ford the drifts on their own.

When the first of the two-part storm hit, it was recognized that an alternate means of transportation would be needed. Howard Schweighart, Operating Superintendent, decided to buy a snowmobile. A crew hauled it on a four-wheel-drive pick up as far as it would go, then unloaded it and rode the snowmobile to the outage.

At no time during the entire two-part storm did our crews stop trying to restore service. Working in shifts of up to 25 hours, crews worked under the most adverse weather conditions possible, at times making no progress at all. However, they kept trying. We congratulate these men for their dedicated efforts.

We must congratulate each of the township road commissioners for their efforts to get our trucks through, sometimes going beyond their boundary lines to help those of you out of power.

Township Commissioners we found most helpful included: William Swisher, Garrett; A. E. Kleiss, Tuscola; Richard Crouse, Camargo; Mark Henry, Sargent; Marshall Coslet, Murdock; Jean Nonman, Raymond; Gene Chestnut, Sidney; Albert Grafton, Young America; Joey Hawkins, Oakland; Leslie Jamison, Dix, and Jerry Christian, Crittenden.

A big thanks goes to those people riding their personal snowmobiles carrying some of our crews around and to those who furnished gasoline and

hot meals to some of our crews.

It was a severe storm and a hardship on everyone. Cooperation among everyone got us through.



A four-wheel-drive pick-up and a snowmobile were found to make a good combination during the severe snow storm in December.

Battery explosions

There are, perhaps, many people who do not know or who have forgotten—and particularly during the colder months—that automobile batteries explode. Recently a battery explosion occurred when booster cables were connected during sub-zero temperatures. Fortunately, the person connecting the battery cables was not seriously injured, because he was able to wash the acid off promptly.

In addition to the danger from the acid, the battery casing shatters and becomes pieces of shrapnel flying through the air.

What can cause this? A fully charged battery or one being charged generates hydrogen gas, which is highly explosive. It takes as little as four percent hydrogen in air to form an explosive mixture. You can see that it is very important to prevent sparking near the cell caps where the hydrogen is usually present.

Based upon actual cases, the following are some reasons why battery explosions occur:

1. Connecting or removing the terminal cables while the battery

charger is in the "on" position.

2. Creating a spark in connecting the cable to the improper pole.

3. Using a match or other potential source of ignition for lighting.

4. Fastening cable to a battery post which is internally damaged.

5. Installing a fully charged battery with some switches in the "on" position.

The danger can be minimized by following certain procedures. Make the booster cable connections on the "charged" battery first; this way, there will be no path to ground and no sparking. Make the last connection on the motor or frame, away from the discharged battery, instead of on the terminal which is grounded.

Remember—treat a charged battery with respect, and avoid creating a spark or other source of ignition. If you are accidentally sprayed with battery acid, wash the sprayed area with large quantities of water, particularly if the area involves the face and eyes. Then seek professional medical treatment.



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)



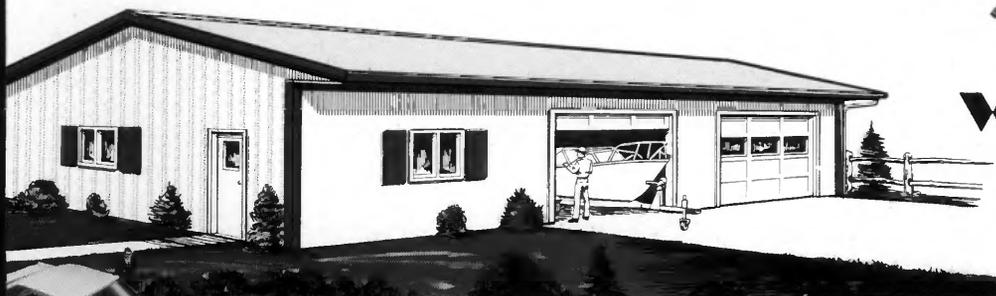
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Degree-day Figures Tell Where Fuel Dollar Goes

This winter seems warmer than last year. Would you like to find out if this winter is colder or warmer than the average for our locality?

YOU CAN ACCOMPLISH this with some simple calculations. Professional heating engineers have been doing it for about 40 years and they vouch for the system.

To begin with there is "the degree-day," an official statistical measure of coldness. For example, when the daily mean temperature is 65 degrees or higher, most buildings require no heat to maintain an inside temperature of 70 degrees.

THE DAILY MEAN temperature is obtained by adding together the high and low temperatures reported by the local weather bureau for the day and dividing the total by two. Thus if the high is 70 degrees and the low 52 degrees, the daily mean temperature is

61 degrees.

Now each degree of mean temperature below 65 is considered to be one degree-day. Thus in the example given, four of these degree-days accumulated during the 24-hour period. In other words the mean temperature for that period (61) was four degrees below 65.

IT IS CLEAR, then, that for every degree of mean temperature below 65, more fuel is going to be needed to keep a 70-degree temperature indoors. Suppose the mean temperature for a day is 35 degrees. That means 30 degree-days (or 65 minus 35). Such a day, it should be clear, would require twice as much heating fuel as a day with a mean temperature of 50 (65 minus 50 or 15).

To apply the degree-day concept to your own home, you should keep a record of the accumulated degree-days

and of fuel consumption for a week or two. Then divide the amount of fuel used during this period by the degree-day total, to find the amount of fuel per degree-day required to heat your home.

USING THE resulting figure, you can estimate the quantity of fuel you will use in a normal winter in your locality. Actually the weather bureau has tables of normal total heating degree-days for all areas of the United States.

This is also one way to check on your fuel bills. In fact, according to heating engineers, you should be able to estimate your monthly bill before it arrives by keeping a record of the accumulated degree-days. And you can check on your furnace or home-heating system to see how efficient it is. Professional engineers do this all the time in large dwelling complexes.

The Auto Club of Missouri has warned that improper use of battery jumper cables to start a stalled car can explode the battery, injure the motorist, and damage the car. Volatile hydrogen gas produced by the battery can be touched off by sparks from the jumper cables, the Auto Club says. Acid produced by the battery can burn and in some cases blind a motorist who is using cables incorrectly.

The following safety precautions are essential:

1. Make sure the dead battery is not frozen. If it is, it could explode. Be sure the battery used to start the dead battery is the same voltage. Do not connect a 6-volt battery to a 12-volt battery or vice versa.
2. Turn off all lights, radio, and battery-operated accessories and be certain the two cars are not touching each other. Set the parking brake and shift the car into

Safe Use of Battery Cables

neutral gear or park.

3. Remove all vent caps from both batteries and cover the vent holes with a heavy or double-folded cloth to lessen the chance of explosion and prevent the battery acid from spraying.
4. Connect one of the two jumper cables to the positive battery terminal on the booster battery. Attach the other end of the same cable to the positive terminal of the other battery.
5. Connect the end of the second jumper cable to the negative terminal of the booster battery.

Connect the other end of this cable to a ground connection (the bumper, frame, or alternator mounting bracket) on the stalled car. Do not attach this cable to the negative terminal of the dead battery and do not allow the clamps on one jumper cable to touch the other.

6. Do not lean over the top of either battery when placing the cable clamps on the terminals.
7. Start the engine of the car with the booster battery. Once it is running you may attempt to start the stalled car.
8. Once the stalled car is running, remove the cables from the ground connection from the car that had the dead battery.
9. Remove the cloth covering the vent holes being careful not to get battery acid on your skin. Properly dispose of the cloth and replace the cloth and replace the vent cover.

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 cold 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 alright,



call your electric cooperative. Give your address, location number and tell how long the power has been off. This will help your electric cooperative's emergency work crews determine the extent of the outage and aid in speeding repair service.

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

EXTENDED OUTAGE—WINTER

1. Wrap up in your warmest clothes. Wear several layers of clothing rather than one or two bulky garments. Thermal underwear helps.
2. Keep the refrigerator and freezer closed. If the outage lasts until food starts to thaw, put the food outside in a shaded place. Be sure the temperature is cold enough to permit this. Be sure food is protected from birds, dogs, etc.
3. In extreme cold, fill all available containers with drinking water, then drain the pipes in your house to prevent their freezing and bursting.
4. Maintain an adequate supply of fuel for cooking on your fireplace, grill or camp stove.
5. Cook in the same manner as you would during a summer outage, but be mindful of dangerous fumes.
6. Keep canned goods with a long shelf life on hand to eat during the emergency outage. Soup, chili and stew, for example, are simple to prepare and provide warmth as well as nourishment.

7. In extreme cold temperatures, the entire family should group together in one room where all drafts have been sealed off. If a fireplace or wood burning heater is available in the home, make that room your headquarters for the duration of the outage.

8. Layers of blankets or quilts provide adequate warmth at bedtime, but warm, down-filled sleeping bags are best.

9. During periods of rest, the human body gives off 75 watts of heat. Use this heat by grouping two or three persons together under blankets inside zipped-together sleeping bags.

POWER BACK ON

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

CAUTION: If you have a heat pump and it's winter, don't reset the thermostat to the "ON" position as soon as the power comes back on. Here's why:

The electric heat pump performs its job by circulating a refrigerant gas. When the power has been off for a while, the unit's gas cools and changes to liquid. This liquid has a tendency to collect in the unit's compressor. If the unit is forced into operation at this state, possible mechanical damage can result. To protect your heat pump and your pocketbook, follow this rule after a winter power outage.

If the power has been off from two to ten hours, wait one and one-half hours before turning your heat pump on. If the power has been off longer than ten hours, wait three hours before restarting. This time is necessary for the crankcase heaters to change all the liquid refrigerant back into a gas again. If your unit has an emergency heat switch, you can use it to have warmth during the waiting period. But don't forget to turn it off once the heat pump is operating normally again.

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

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

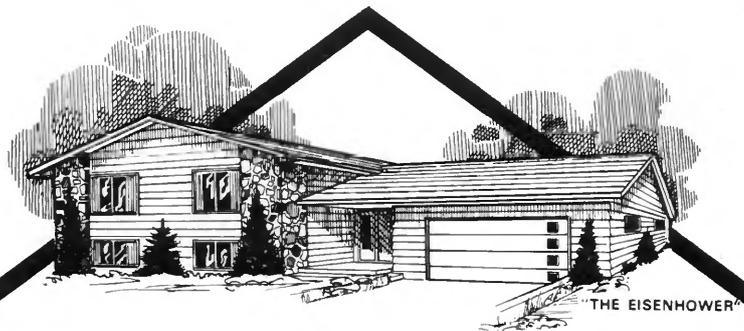
wire was essential to food production," Swanson added.

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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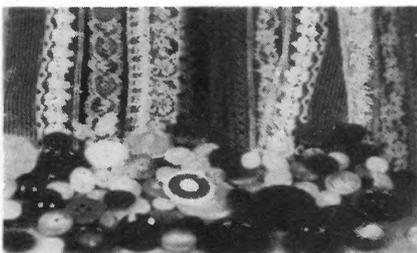
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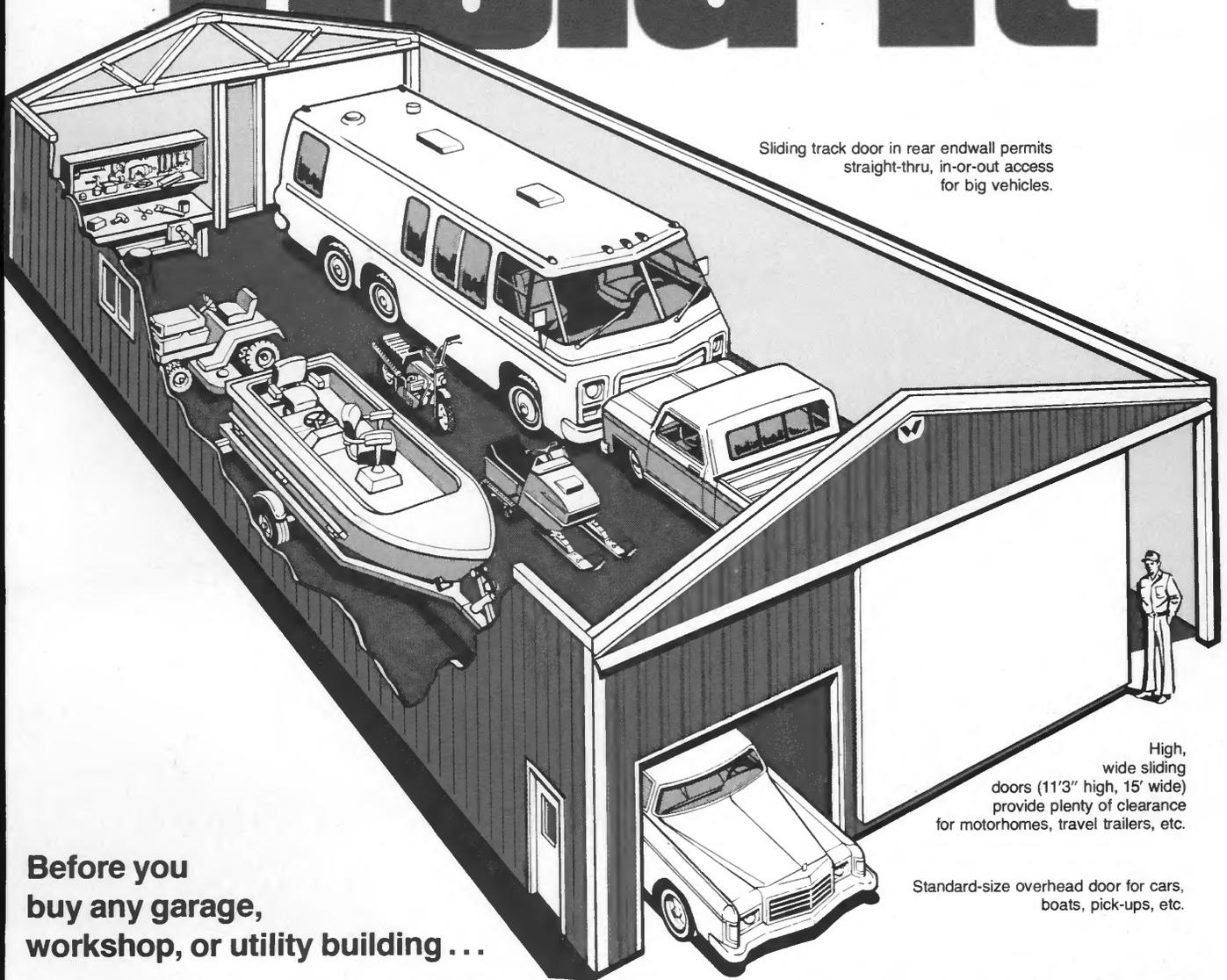
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS



A large number of Illini Electric Cooperative members turned out for the cooperative's 40th annual meeting, held in the Convention Center of the Ramada Inn in Champaign.

Prior to the meeting, members enjoyed a "sit-down" lunch of ham, baked potatoes, peas, salad and desert.

Clark Is New Director; Manager Smith Tells of Coal Strike Impact on Illini

The newest member of the Illini Electric Cooperative Board of Directors is Robert D. Clark, a grain farmer who lives near Atwood.

Clark, 45, was elected to the nine-member board during Illini's 40th annual meeting, conducted Thursday, February 16, in the Ramada Inn Convention Center in Champaign. He replaced Clarence P. Day, Bement, who retired.

Clark, his wife, Ann, and sons, Mark, David and John, live on their 500-acre farm. The new director has a background of service to agriculture. He is a former director and secretary of Bement Grain Company and is a member of the Farm Bureau.

In addition, he is a member of the Masonic Lodge and the American Legion and is a Navy veteran who

served during the Korean War.

Another good turnout was on hand for the cooperative's annual report and business session. For the past two years members have gathered in the convention center for a "sit-down" lunch prior to the officers' and manager's reports.

The featured speaker for the meeting was Dayle Deal, Field Supervisor for the Illinois Farmers Union and a nationally known agriculture leader.

She told Illini members, "Agriculture is an industry worth saving and must be saved. Farmers' images are changing to reflect their increasing importance in the world. Agriculture is the only real source of income the country has."

Illini members were urged to

conserve electricity "in any way you can" until the end of the coal strike by Manager Walter R. Smith.

Smith said the coal strike, which was in its 11th week at the time, had resulted in depleted stockpiles of coal at the cooperative's power supplier's generating plants and that he had been notified by the supplier, Central Illinois Public Service Company, that on February 14 CIPS had only a 25-day supply of coal remaining. Smith said CIPS, the cooperative's only supplier of power, had reduced voltage by five percent to conserve the dwindling supply.

"As a result of this impending crisis," Smith added, "we have reduced voltage at our substations three percent and trust that new coal will become available before any

blackouts are necessary.”

Smith also said the strike probably would have a serious impact on electric bills in the near future. “I fear that ultimate settlement of the present dispute between the mine workers and mine operators will result in a substantial increase in fuel costs,” Smith told the members.

He said a rate increase of about 15 percent effective with the March billing may not be enough to cover fuel costs that are expected to result when the strike is settled.

The two directors were reelected: Irvin E. Liestman, Mahomet, and Clarence C. Maddox, Allerton.

Cooperative President Wilbur W. Gady, Sadorus, said that despite the coal strike Illinois was fortunate in that it has huge reserves of coal. He added that he hoped a strike settlement and an easing of environmental regulations would allow the coal reserves to be put to good use.

“There are tough times ahead in the energy business, but we must have electricity, and we are going to have it,” Gady stressed. He reiterated Illini’s plans through membership in Soyland Power Cooperative to own a portion of the Clinton Nuclear Power Station. “This plant should be in operation by late 1981. It will provide about 40 percent of the power needs for member cooperatives,” Gady added. Illini is one of 15 Illinois electric distribution cooperatives which made up Soyland.

Treasurer Liestman’s report illustrated the growing cost of electric power. During 1977, Illini paid \$1,668,394 for wholesale power, nearly 70 percent of the cooperative’s total operating expenses. Total operating revenue for the year was \$2,853,869 and net margins were \$122,879. Taxes paid in 1977 totaled just under \$48,000.

Following the members’ meeting, James F. Beatty, Philo, was elected president of the board. Other officers are: Liestman, vice president; Charles C. Cole, Rantoul, secretary, and Gady, treasurer.

Other members of the board are: Merle A. Buddemeier, Longview; C. V. Swanson, Paxton, and E. S. Wetzal, Atwood.



Clarence P. Day, Bement, center, who retired after 20 years of service to Illini Electric Cooperative, was honored for that service during the annual meeting. Presenting Day with a special plaque is Wilbur W. Gady, Sadorus, who presided during the meeting. Looking on is Merle A. Buddemeier, Longview, another Illini director.



Special entertainment for the annual meeting was provided by The Four Horsemen, a singing quartet made up of students at Armstrong High School.



Robert D. Clark, rural Atwood, right, receives the congratulations of Illini Manager Walter R. Smith following Clark's election to the cooperative's board of directors. Looking on are Irvin E. Liestman, Mahomet, left, and Clarence C. Maddox, Allerton, who were reelected to the board. All will serve three-year terms.

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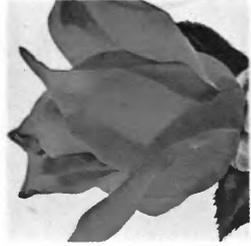
MIRANDY
Huge full blooms of dark red. Fragrant. Former patent no. 632



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



HAPPINESS
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. Sterilizing 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



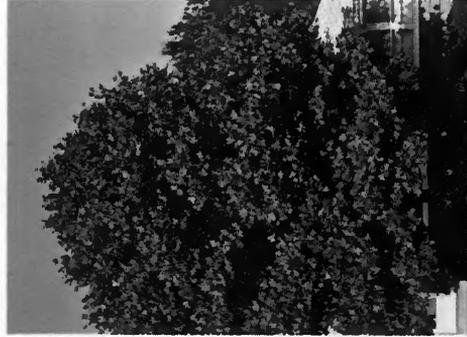
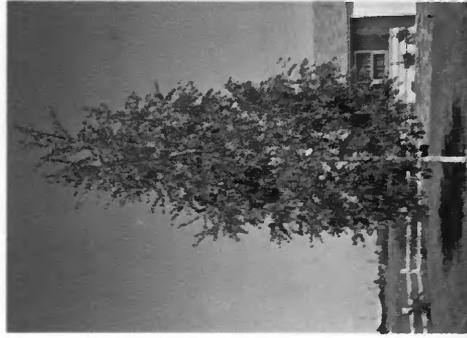
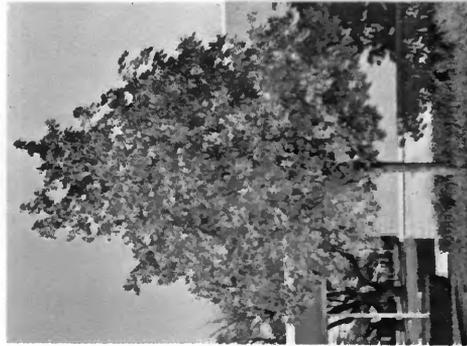
NOCTURNE
Long perfectly formed buds. Velvety red. Former patent no. 713



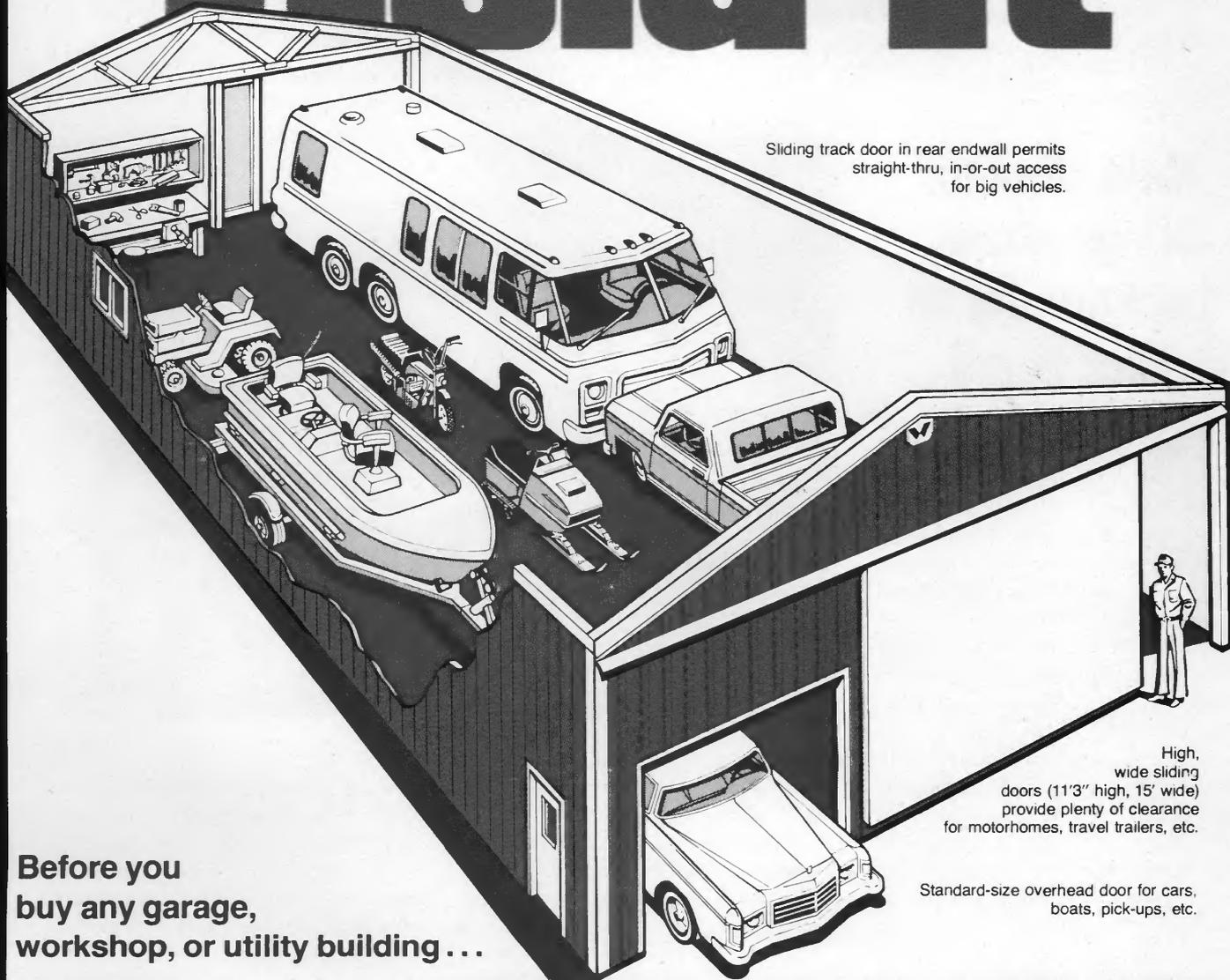
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

New director brings strong background to Illini board

Among the desirable qualifications for a director of a rural electric cooperative are an understanding of agriculture, an interest in the community, an appreciation of the cooperative way of getting things done and knowledge of the advances made because of rural electrification.

The newest member of the board of directors of Illini Electric Cooperative, Robert D. Clark, easily meets these qualifications.

Elected during the February 16 annual members' meeting, Clark, who farms a total of 500 acres in two Piatt County locations, has a background that should help him provide leadership for years to come as he serves the Champaign-based electric cooperative. Clark, 45, was elected to replace Clarence P. Day, Bement, who retired after 20 years as a director.

Clark's background as a farmer and agriculture leader includes growing up in Piatt County, the son of a farmer. Born at Hammond, Clark moved with his family in 1948 to the farm where he lives today. Before serving four years in the Navy during the Korean War, Clark farmed with his father. Today he works the same land, near Atwood, producing grain and raising a few head of cattle.

A member of the Masonic Lodge and American Legion, Clark has been a Farm Bureau member for many years and is a former director and secretary of the Bement Grain Company. The Clarks are members of the First United Methodist Church of Bement.



Robert D. Clark

The Clark farming operation is a family affair, especially now that his three sons—Mark, David and John—are teenagers. Clark's wife, Ann, has always been involved in the farming work, too.

As a hobby, Ann Clark has started a collection of blue glass objects. While he has no specific hobby, Robert Clark displays a talent for woodworking when he shows off the antique high chair he has refinished.

Clark's activities as a member of Illini go back several years, including service on a number of members' nominating committees.

"I've enjoyed the experience of serving on the grain elevator board. I've always had an interest in working with cooperatives," he explains. "It is not only an honor, but a privilege to serve as a director. It is sort of a duty to serve when called upon."

As a person who grew up in an area which has benefited from rural electrification, Clark is very quick to point out its value. "The establishment

of rural electric cooperatives is the single most advancing thing that ever happened to rural life," Clark says.

"I used to stay with my grandparents sometimes. They didn't have electricity and trying to read by a kerosene lamp was no fun at all."

Illini Electric

Mailing Address — P. O. Box 637,
Champaign, Illinois. Phone
352-5241.

Headquarters Location — 1605 South
Neil Street

Office Hours — 8:00 A.M. to 5:00
P.M., Monday through Friday —
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and Holidays.

Holidays Observed — New Years,
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ILLINOIS RURAL ELECTRIC NEWS

Prepare for Severe Weather in Illinois

The weather is always a prime consideration when planning any outdoor activity in Illinois during the summer months. It's wise to know the weather forecast for the period of time you plan to be outdoors. Whether you're doing farm field work, picnicking, camping, boating, cycling, swimming or whatever, don't let unexpected weather conditions spoil your outings or endanger your life.

Weather conditions can become dangerous with little warning, especially in Illinois at this time of year. Frequently changing weather conditions can easily catch you by surprise. If getting wet by a sudden rain shower was the worst that could happen, we wouldn't be very concerned. But there are life-threatening hazards which occur during sudden thunderstorms that everyone should be aware of. They include being struck by lightning or the victim of tornadoes, high winds and flash floods that often accompany torrential rains.

Always be weather-wise. Observe the sky frequently. You can usually see a thunderstorm developing in advance. Don't let a sudden thunderstorm catch you by surprise.

Lightning

Lightning kills more people in this country than tornadoes, hurricanes and floods combined. The reason is alarmingly simple. Lightning occurs in every thunderstorm, no matter how mild or severe. There are 30 or more thunderstorms per year at any given place and most occur during the summer months. This is no reason to panic, however. Odds are slight that you will be struck by lightning. Some common sense precautions can make the odds even smaller.

Five areas where lightning casualties often occur are under trees, in open water, in open fields, at the golf course and at the telephone.

If you are caught out in the open during a thunderstorm:

- * Do not take shelter under a tree or other tall object.
- * Avoid shelter in small isolated sheds in open areas.
- * Seek shelter in low-lying area such as a ravine or valley, but be careful of a ditch with a wet bottom—it may provide a better conductor of

electricity than the surrounding area.

- * Keep away from fences, tractors or other metal objects that could attract lightning to your body.
- * In a forest, seek shelter in a low area under a thick grove of small trees.
- * Get out of and away from open bodies of water.
- * If you are in a group, spread out. Stay several yards apart so the smallest number will be affected should lightning strike.
- * Get into a car—it's safer than being in the open should lightning strike.

Indoors, in your home or other large structure, is the safest place to be in a thunderstorm, but stay away from fixtures connected to plumbing or electrical wiring. Stay away from open doors and windows. Don't use the telephone unless it's an emergency. Be aware of the possibility of fire in case the building is struck by lightning.

Tornadoes and High Winds

Wind storms frequently accompany thunderstorms. These are a threat to mobile homes, in particular. Mobile homes which are not properly tied down and anchored are extremely susceptible to wind damage.

Recreational vehicles of all kinds are vulnerable to high winds when driven on the highways. The sudden gusty winds of a thunderstorm can catch a driver off guard and force the vehicle from the roadway.

If you suspect strong winds which are often seen as dust being picked up into the air ahead of a storm, pull from the roadway and park the vehicle into the wind until the storm has passed. Do not remain in the vehicle if shelter is available nearby. Take cover in a building or lie flat in a ravine or ditch to wait out the storm.

Tornadoes which occasionally accompany thunderstorms are the most devastating of storms and should be avoided at all costs.

If you are in a vehicle in the open and see a funnel cloud approaching, leave the area as rapidly as possible. If you can't escape the path of the tornado, stop and get away from the vehicle. Lie flat in a ravine or ditch and protect your head from flying debris. It's a good idea to take cover whenever you encounter an usually

severe storm. Darkness or heavy rain can obscure a funnel cloud—take cover just in case.

Office buildings, factories, shopping centers and schools usually have a designated area at which to find shelter in case of a tornado. An interior hallway on the lowest level usually provides the most protection. In your home, the basement usually provides the greatest safety.

Mobile homes (even when properly secured) are not likely to survive a tornado and should be evacuated when a tornado threatens. Many parks have a designated community shelter, such as a sturdily constructed laundry building.

Flash Floods

Torrential rains which may accompany thunderstorms can cause flash flooding. This is especially true in urbanized areas with an abundance of pavement. Motorists should avoid being caught in low-lying area or in underpasses where water accumulates rapidly during a storm. Flash flood waters can stall vehicles and threaten occupants with drowning. On the open highway, cars caught in low areas by flood waters are often swept from the roadway. Do not drive in heavy rain unless you can see clearly ahead.

Camping near a stream can prove hazardous in the event of torrential rain. Examine your campsite closely to be sure you can escape quickly should the stream begin rising rapidly.

Final Warning

The National Weather Service keeps close watch on all kinds of severe weather conditions. They issue frequent radio and television bulletins advising of severe weather developments in your area. They also give actual warnings of tornadoes, severe thunderstorms and flash flooding. National Weather Service warnings and alerts are for the protection of all citizens—take them seriously.

It is impossible to give warnings to everyone in every situation. But it is imperative that everyone be weather-wise. Just as energy-wise consumers monitor their home energy use, a weather-wise citizen keeps an eye on the sky to be aware of weather developments. Don't let the one-in-a-thousand or even the one-in-a-million chance make you another tragic statistic. Be weather-wise.

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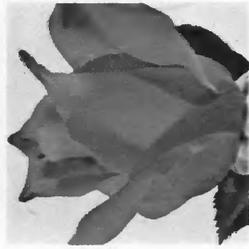
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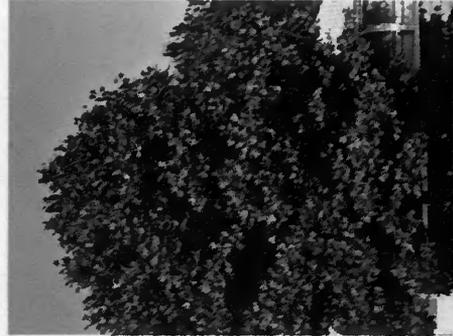
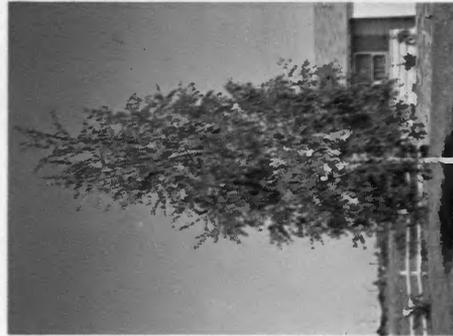
NOCTURNE
 Long perfectly formed buds. Velvet red. Former patent no. 713



DIAMOND JUBILEE
 A yellow and orange combination. Former patent no. 924



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Restoration completed

(continued from page 7)

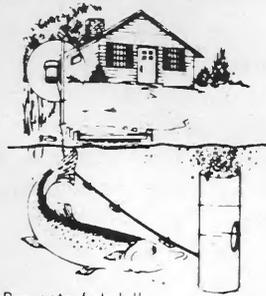
Franklin, in Illinois Rural Electric Co. territory. Illinois Rural, a cooperative with one of the most widespread service areas in the state, was also one of the hardest hit.

"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.

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS



This is just part of the more than 75 extra people and 30 extra trucks that provided immediate assistance from as far away as Ohio, Kentucky and Indiana.



Here are two of the many truckloads of poles arriving during the storm. An estimated 1,000 poles were broken off.



One of the crews from Millers Construction Company replaces a broken pole. When possible, broken poles were reset temporarily in order to speed restoring service. It could take most of the summer to replace all the poles that were reset.

Ice Storm '78

Again, east central Illinois was hit by a devastating ice storm. The Easter weekend turned into the second worst storm of the cooperative's history—only the ice storm of 1967 exceeding this in total damages.

Preliminary estimates show the cost will exceed \$400,000 for emergency storm costs. This figure includes just the immediate costs to get the lines back in the air; it does not include replacing the estimated 1,000 poles broken and the miles and miles of damaged wires.

Replacement costs for damaged poles and new wire for some areas will be in excess of three million dollars. This rebuilding of some lines will cause more outages this summer as the men work on these lines.

We appreciated your patience during the storm and hope you will be understanding this summer as work to rebuild some of the damaged lines progresses.

The major damage was caused to our entire area south of Interstate 74. Since the wind was strong and gusting from the east, only the north-south lines were affected. In certain sections, all north-south lines had either the wires broken or the poles broken, or both.

As the ice storm hit around 9:30 Friday morning, calls went out immediately for extra crews from other parts of the state. By that night, as evidence of the severity of the storm was showing up, more crews were called in, this time from out of state.

To compound the problem, other ILLINOIS RURAL ELECTRIC NEWS

THANKS . . . for the memories

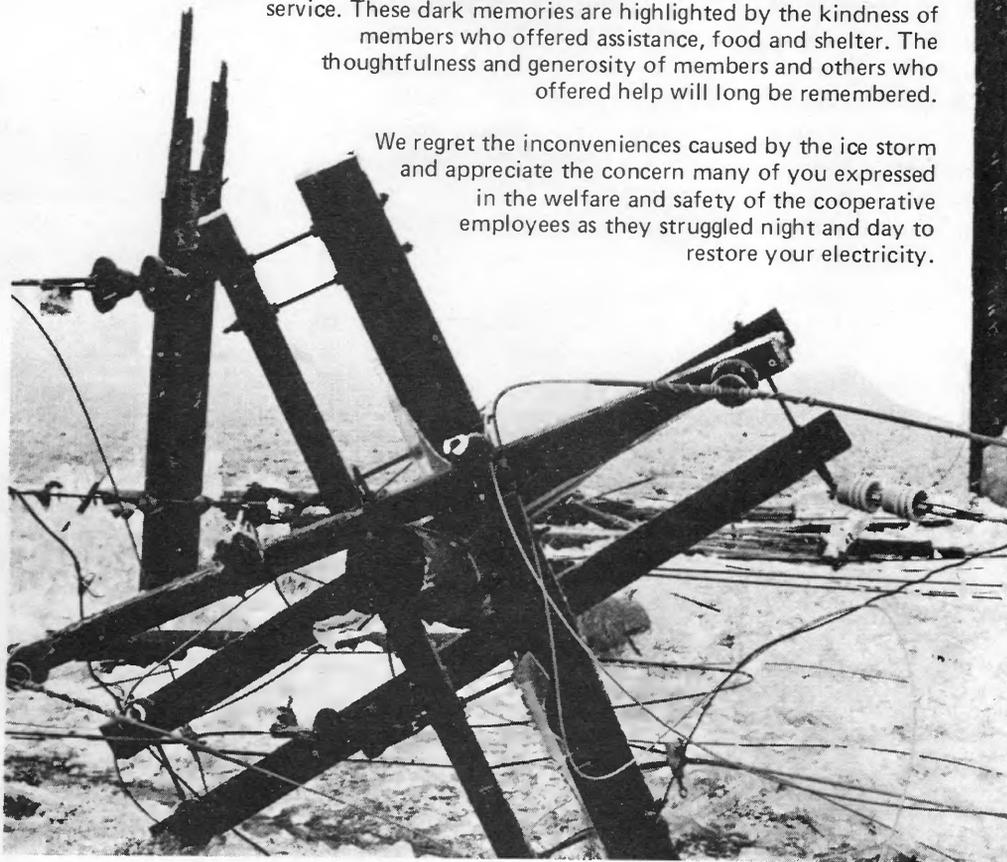
The winter of '78 and the Easter ice storm will be long remembered—especially by those electric consumers who were without electricity for days and, in some areas, weeks because of extensive ice damage to electric systems.

Even now, with electric service restored, cooperative line crews continue to rebuild miles of storm-damaged lines. Some reconstruction will take months.

Although memories of those long, dark days without electricity are not pleasant ones, your electric cooperative would like to thank the members who endured the severe hardships of the storm. We especially want to thank members for their patience and understanding during the extensive power outage.

Your cooperative's employees remember the ice storm, too—they worked around the clock, during and after the storm, to help restore your electric service. These dark memories are highlighted by the kindness of members who offered assistance, food and shelter. The thoughtfulness and generosity of members and others who offered help will long be remembered.

We regret the inconveniences caused by the ice storm and appreciate the concern many of you expressed in the welfare and safety of the cooperative employees as they struggled night and day to restore your electricity.



Illini Electric Cooperative

utilities were also calling for extra crews. By Saturday, crews from as far away as Ohio and Kentucky were on their way to help us. We also had crews from Indiana and southern Illinois furnishing help. A total of 75 extra people and around 30 extra trucks together worked nearly around the clock for nine days to restore

service to everyone.

Many of the repairs made were temporary. An additional six months to one year will be needed to make permanent repairs. During this time, our normal schedule of work will suffer some delays. We ask you to please bear with us and allow extra time for any wiring changes needed at

your place.

Those of you contemplating adding grain drying should notify us not later than July 1 for fall completion. After this date, we may not have time to complete the necessary work you need done.

Please cooperate by planning well in advance.

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, Illini

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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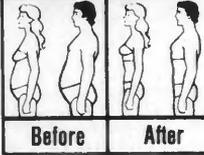
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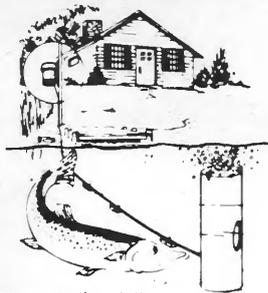
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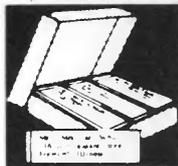


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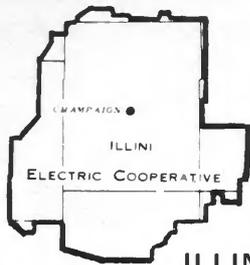
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

WE WANT YOU TO KNOW WHY YOUR ELECTRIC BILL IS

HIGHER

You've heard this before, but it bears repeating. Your electric energy bills are increasing. We think it is important that you know why.

Almost everything you buy costs more now because of inflation. But rising electric energy costs are not so easily explained.

Most electric generating plants burn coal to produce electricity. During the 119-day coal miners' strike, electric suppliers were forced to buy coal wherever and whenever they could—and it wasn't cheap. Expensive supplies of oil and natural gas were also purchased to help coal reserves last through the strike.

The result of these costly, but necessary, fuel purchases is a bigger electric bill for all consumers.

Higher electric bills are the immediate result of the strike. In the months ahead, however, the new coal contract will have long-term inflationary effects on electric energy costs. This is due primarily to a direct increase in miners' wages, plus additional increases in cost of living, welfare and health benefits. It all adds up to about an eight-percent jump in coal prices.

Inflated coal costs aren't the only reason why your electricity costs more, but they're a major part of the increase in your electric bill. As consumer-owners of your Illini Electric Cooperative, you should know why your electric bills are higher.

Your Utility Bill



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.

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.

Install Standby Equipment Properly

To have a safe electrical standby system, it must be installed properly.

During the winter when we are battling ice storms, one of the primary concerns to our linemen is a member's use of standby generators and alternators which might not be properly connected. An improperly installed generator or alternator is a real safety hazard to the men repairing the lines. Standby equipment, used as an alternate source of power installed without the required safety connections, can feed electricity back out through the transformer into your cooperative's distribution system at 7,200 volts, creating a hazard for linemen.

The supply of standby equipment was not great enough to keep up with the demand during the most recent ice storm. There was a great demand for any size unit available. Portable, self-contained, units were shared with neighbors to keep some heat in the homes, to keep home freezers cool and to pump water. Some units were purchased, used and, when power was restored, were sold.

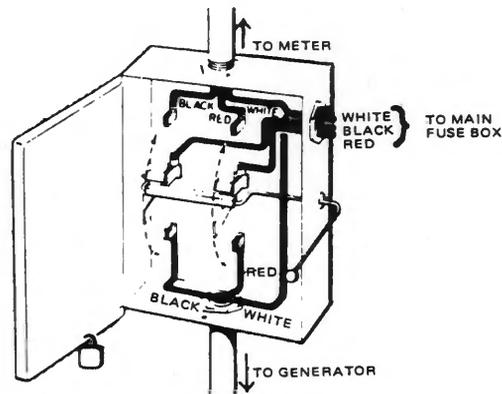
In spite of all the units purchased, we had few inquiries on how to connect the standby equipment in a safe manner. Usually the suggestions

given were for a temporary connection that would provide protection for the linemen.

The National Electrical Code requires that a double-throw safety switch be installed on the member's system to provide the permanent positive safety needed when standby equipment is being used. If you still have standby equipment or have access to a unit, we suggest you contact an electrician to install a double-throw switch in your wiring system, hopefully before the next emergency arises. Now, while it is still fresh in your

mind, is the time to make arrangements for getting that double-throw switch installed.

The double-throw switch can mean protection for your equipment, too. Our linemen are instructed to use grounding sets on the lines they are working on. This is for their protection. The grounding set will also cause a generator or alternator to be shorted out should it be improperly installed allowing current to flow out onto your cooperative's distribution system. The double-throw switch is for your safety, too.



The wiring of a typical double-throw transfer switch. Note that the neutral (white) wires are fastened together while the hot (red or black) wires are fastened to the switch terminals. The switch is shown in the neutral or open position.

Take Care of Your Generator

During the Easter weekend ice storm, many generators and alternators were purchased and used until normal electrical power could be restored. There have even been reports that some members purchased standby equipment, used it until their power was restored and then sold it to someone less fortunate who did not have power yet.

Standby equipment is essential to some farm operations and in homes where treatment for illness depends on electrical power. It is surprising to learn some farms with a dairy or confinement operation depend entirely on the electric service always being there when it is needed. Some farms have no provision for the time

when the usual electric service is not available, such as during the recent ice storm. Some rural homes have no provision for pumping water other than with an electric pump. A small standby generator or alternator could perform this task adequately, yet would be large enough to keep a home freezer cool and a furnace blower operating by alternating loads.

We wonder how many members have purchased standby equipment this winter because of the ice storms, used them until power was restored and stored the unit away until the next time there is a need—perhaps a year or two from now.

If this is the case there is a good possibility that next time the unit will

operate only a short time, if at all. To keep the standby equipment in good working order, it should be run at least once a month to keep from drawing moisture and to keep the bearings lubricated so they won't "freeze." If yours happens to be a small, self-contained unit, it also helps the motor to be run occasionally. Running the alternator to provide some lighting for some farm chore or a picnic or to power a welder, if the unit is large enough, is a good way to operate the unit occasionally so it can be checked out and serviced to ensure that it will be operational the next time an emergency arises.

'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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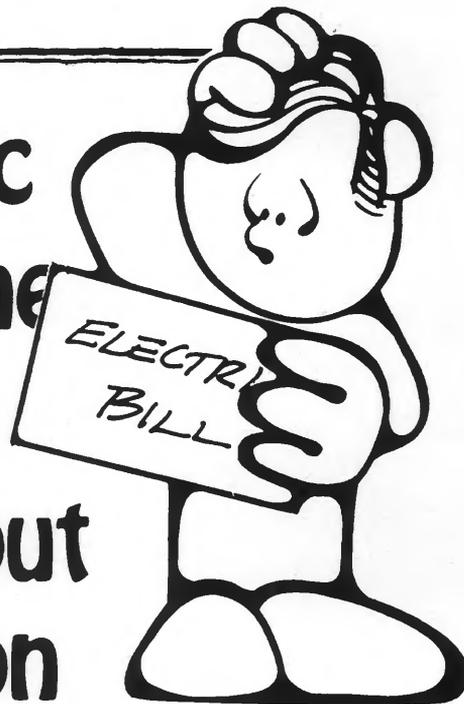
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Last Winter's Electric Bills Should Be All the Incentive You Need to Get Serious About Energy Conservation



If last winter's severe temperatures and high heating costs convinced you of the need for serious energy management around your house, don't wait until summer is over to do something about it.

Proper insulation that could have saved you money last winter can still save you money cooling your home this summer — if you install now.

In Illinois, generally recommended insulation levels are R-30 or more in ceilings and R-19 in walls and floors. Adequate insulation provides the most significant money savings that you can achieve on home heating *and* cooling costs. Frequently, homeowners find that insulation pays for itself in energy savings within three to five years.

The Electric Cooperatives of Illinois urge you to implement energy conservation measures. Proper insulation will effectively prevent energy waste and will save you money on your energy bills.

Efficient use of electricity *IS* energy conservation. Use energy wisely.

Freezer Failure Hints

Have you ever thought about what you would do if your home freezer stopped running? If your freezer does stop running or the electricity goes off for sometime, the U.S. Department of Agriculture (USDA) offers some special precautions you can take to keep your food from spoiling.

Follow one of these rules, and you stand a good chance of preserving your food:

First, keep the freezer closed. Open it only to take food out for transport or to add dry ice. Try to determine how long the current will be off, and how long the food will keep.

The length of time food will stay frozen depends on the amount of food in the freezer. A full freezer will stay cold many hours longer than a freezer only a quarter full. It also depends on

the kind of food. A freezer full of meat will not warm up as fast as a freezer of baked food. The length of time food will stay frozen also depends on the temperature of the food. The colder the food, the longer it will stay frozen.

The freezer itself is important. A well-insulated freezer will keep food frozen much longer than one with little insulation. And the size of freezer; the larger the freezer, the longer the food will stay frozen.

Second, if you have a locker plant in your area, make advanced arrangements to take care of food during an emergency. When transporting the food to the plant, wrap it in plenty of newspaper and blankets, or use insulated boxes. Then rush the food to the locker plant.

Your next best alternative is to add "dry ice" to the freezer to try to retain the cold. The more dry ice you use, the longer your food will remain frozen. Invest some time on the telephone, when you have no emergency, to find out where you can buy "dry ice" should you need it.

If all else fails, break out the home canning equipment and cook the thawed food whatever ways your family may like it. Here, again, be sure you have the containers, lids, and other canning equipment on hand, and those canning recipes handy.

Always examine meat or poultry before you decide what to do with it, because it may become unsafe to eat if it starts to spoil. Get rid of the food if the color or odor of the thawed food is questionable.

Make Sure Air Conditioner Is Properly Sized

It's important to select the proper size room air conditioner.

If it's not sized properly, you may not be getting the cooling efficiency or the dehumidification that you need.

The chart shows a simplified way to figure how much BTU air conditioning capacity you need. All you need to know is (1) the size of the room, (area in square feet) (2) whether or not the ceiling of a room under the attic is insulated, (3) location of the room either up or downstairs, and (4) the direction the room faces.

On the top floor, additional cooling is required to offset the heat absorbed through the roof unless properly insulated. Further, rooms exposed to the west will get the sun when it's hottest.

After determining from the chart the BTU capacity needed, select the air conditioning unit size closest to, but not smaller than, the BTU capacity needed. Units usually are designed with capacities of 4,800, 5,000, 5,200 BTU's, etc.

For efficiency, don't forget to check the Energy Efficiency Ratio (EER). On the nameplate you will find the BTU capacity and the watt rating. Divide BTU's by watts and buy the unit that gives the highest answer.

The higher the number, the more efficient the air conditioner. If the

answer is seven or more, it's pretty efficient.

BTU's	WEST		SOUTH		EAST		NORTH	
	Ceiling under occupied room or insulated ceiling under attic	Un-insulated ceiling under attic	Ceiling under occupied room or insulated ceiling under attic	Un-insulated ceiling under attic	Ceiling under occupied room or insulated ceiling under attic	Un-insulated ceiling under attic	Ceiling under occupied room or insulated ceiling under attic	Un-insulated ceiling under attic
33,000	1,740	1,000	1,820	1,050	1,920	1,090	2,150	1,230
22,000	1,440	830	1,510	870	1,590	900	1,785	1,010
23,000	1,140	670	1,300	710	1,270	730	1,420	830
18,000	860	510	920	540	970	560	1,060	620
17,000	800	475	870	505	915	525	1,005	585
16,000	750	440	820	470	860	490	950	545
15,000	685	405	750	430	790	450	870	500
14,000	620	370	680	390	720	410	790	450
13,000	595	330	605	350	645	365	680	405
12,000	470	285	530	305	570	325	625	355
11,000	442	268	445	265	535	305	555	320
10,000	365	205	360	225	390	235	425	260
8,500	290	160	310	200	355	215	380	235
8,000	230	140	250	160	290	185	330	210
7,500	170	125	220	140	240	160	280	180
6,000	150	100	170	110	190	120	205	130
5,000	130	90	145	100	170	110	180	110

- Determine the wall with maximum outdoor exposure (West Maximum and North Minimum)
- Which factor exists:
 - Ceiling under occupied room or insulated ceiling under attic.
 - Uninsulated ceiling under attic.
- Size of room—

Length x Width: (Sq. Feet) This is your Key Number.

- Take your Key Number and find the closest figure to this in the appropriate column. The BTU column, above, will indicate the estimated BTU's cooling capacity required to cool your particular room.

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 Oliver

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.

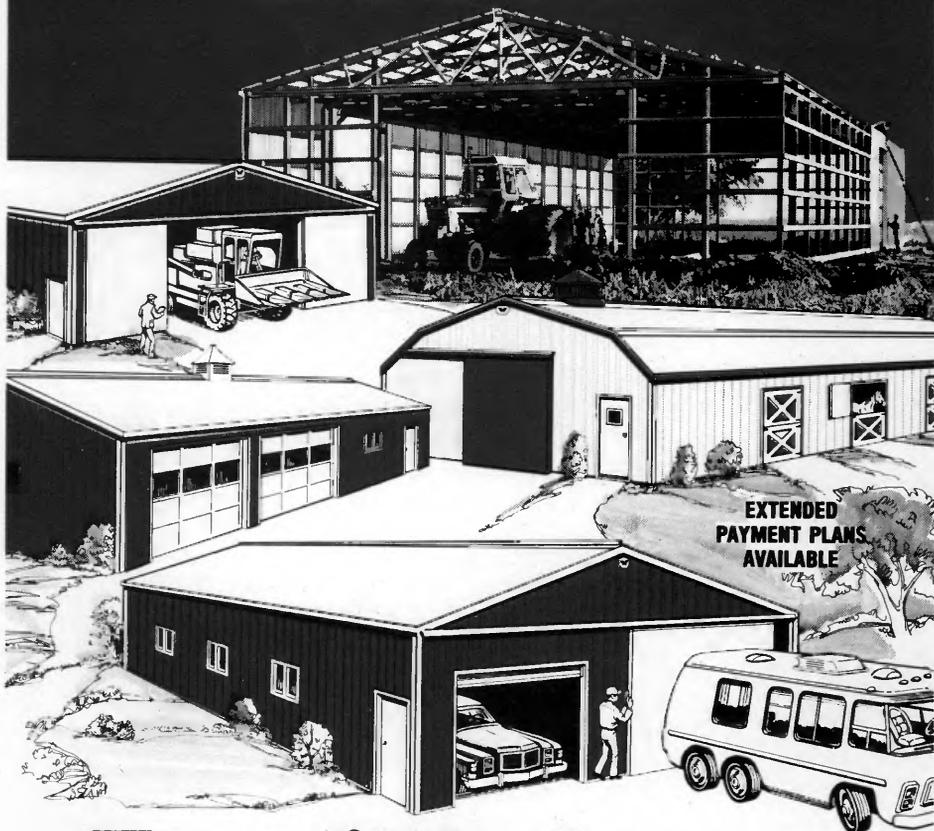
Searls has worked in the rural electrification field for 39 years, serving for the past 35 as manager of Adams. He is president of the board of the Illinois Farm Electrification Council. In 1973, he was elected to the board of directors of the national Food and Energy Council.

Another Illinoisan, Elwood F. (Woody) Oliver, 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.

Oliver is executive secretary of the Illinois Farm Electrification Council.

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

If Last Winter Convinced You to Insulate Your Home, We Hope You've Done it by Now...

Last winter's record cold temperatures convinced a lot of us to insulate our homes. If you haven't done it by now, don't wait until the first snowfall to invest in insulation. The insulation that could have saved you money on last winter's energy bills can save you money this winter—if you install now.

Inspect your insulation **before** it's time to turn on the heat. Illinois electric cooperatives generally recommend insulation levels of R-30 or more in ceilings and R-19 in walls and floors. By insulating to recommended levels, homeowners frequently find that their energy savings soon pay for the total cost of insulation.

There are many ways to cut home heating costs, but nothing you can do comes close to the savings you can realize by installing proper insulation. And, as energy costs increase, your insulation savings increase, too. Don't wait to insulate—start cutting your energy costs now.



Room Air Conditioners Now Efficiency Rated

Finding the best value in room air conditioners is easier than it used to be. The energy-efficient ratio (EER) is calculated by dividing the BTU's per hour of cooling by the watts used.

Units of the same size differ in their ability to cool efficiently. But before EER listings were made available, there was no practical way for the layman to tell which units were the

most efficient.

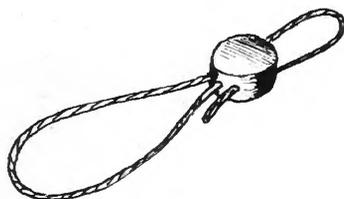
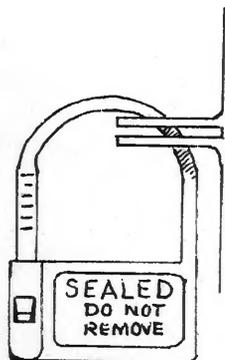
Efficiency is important because units that give more cooling per watt (and have higher EER's) cost less to operate than less efficient units. An EER of 10 or better is considered excellent; eight to 10 is good. Units with EER's below six should be avoided.

A buyer of a unit with a low EER

may find that the "life cost" (all costs connected with owning and operating the unit during its life-cycle) of the unit is higher than another unit of the same size with a higher EER. The unit with the higher EER may have a higher purchase cost, but its life cost will probably be much lower, thus making it the best investment for consumers concerned about energy and costs.

ILLINOIS RURAL ELECTRIC NEWS

Breaking Meter Seal Is Illegal



The seal on your meter is a lock—even though you may not have regarded it as such. It's a utility lock.

It is just as unlawful to break or destroy a meter seal without permission as it is to break a padlock or door lock.

If you have need to break a meter seal, whatever the type or for whatever purpose, **don't do it yourself.**

Should you need a meter removed to install siding, to do rewiring or for any other purpose, call our office and let us know about it. We will give authorization and issue an order for our serviceman to break the seal and remove the meter so the needed work

can be done. He has the authority to break a meter seal—you don't.

When you need a seal broken for any purpose, be sure to allow us ample time to schedule it and to get there when you need us.

Your board of directors and management become concerned at reports of broken or removed meter seals. There's always the suspicion that the reason for such removal may be to steal electricity—and for this, all members pay, even though we may be able to apprehend the thief.

Think about it—a meter seal is a lock and must not be tampered with, broken or destroyed.

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.

Illini Electric Cooperative

Hours, Address, etc.

Mailing Address — P. O. Box 637,
Champaign, Illinois. Phone
352-5241.

Headquarters Location — 1605 South
Neil Street

Office Hours — 8:00 A.M. to 5:00
P.M., Monday through Friday —
closed all day Saturday, Sunday
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Holidays Observed — New Years,
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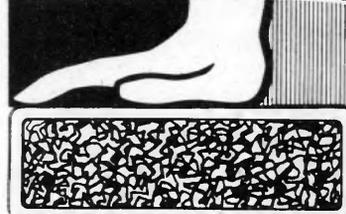
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- The amount shown on the cash register?
- The gasoline pump meter?
- Your heating oil delivery?
- The amount of gasoline in your farm tank?
- The weight of a quart of ice cream?
- The scales at the farm mill?
- The mileage on a tire?

BUT, so many people question the accuracy of their electric meter, despite the fact that they are built much better than many fine watches. AND, seldom do meters run fast. If they are defective, they run SLOW—we often find when answering high bill complaints that the meters are slow, not fast.

Insulate now!



HOLD FUEL COSTS DOWN



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.

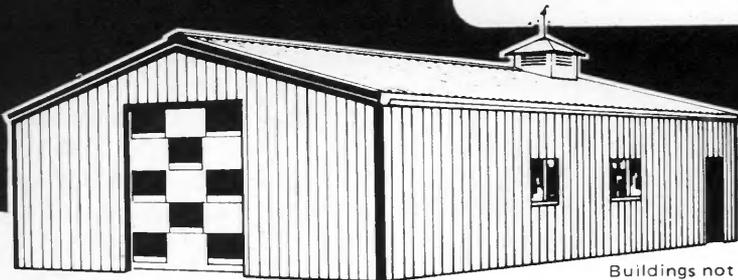
Thompson is past president of the Lake of Egypt Property Owners Association. John Ford is the current president.

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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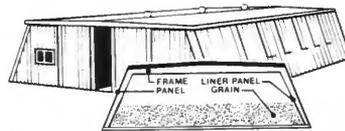
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SOYLAND CLINTON PARTNERSHIP

(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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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

WE WANT YOU TO KNOW

There's no getting around it. If you want electric energy, you need power generating plants to produce it. We must build power plants to keep up with increased electric energy use and the cost is rising . . . and so are your energy bills. The Electric Cooperatives of Illinois want you to know why.

We all recognize the personal effects of inflation and the steadily rising cost of everything we buy. But rising energy costs are not so simple to explain.

One of the biggest expenses in the production of electricity is the cost of building electric generating plants. Plant construction is more expensive because of rising costs for building materials and labor, higher interest rates

WHY YOUR ELECTRIC BILL IS

HIGHER

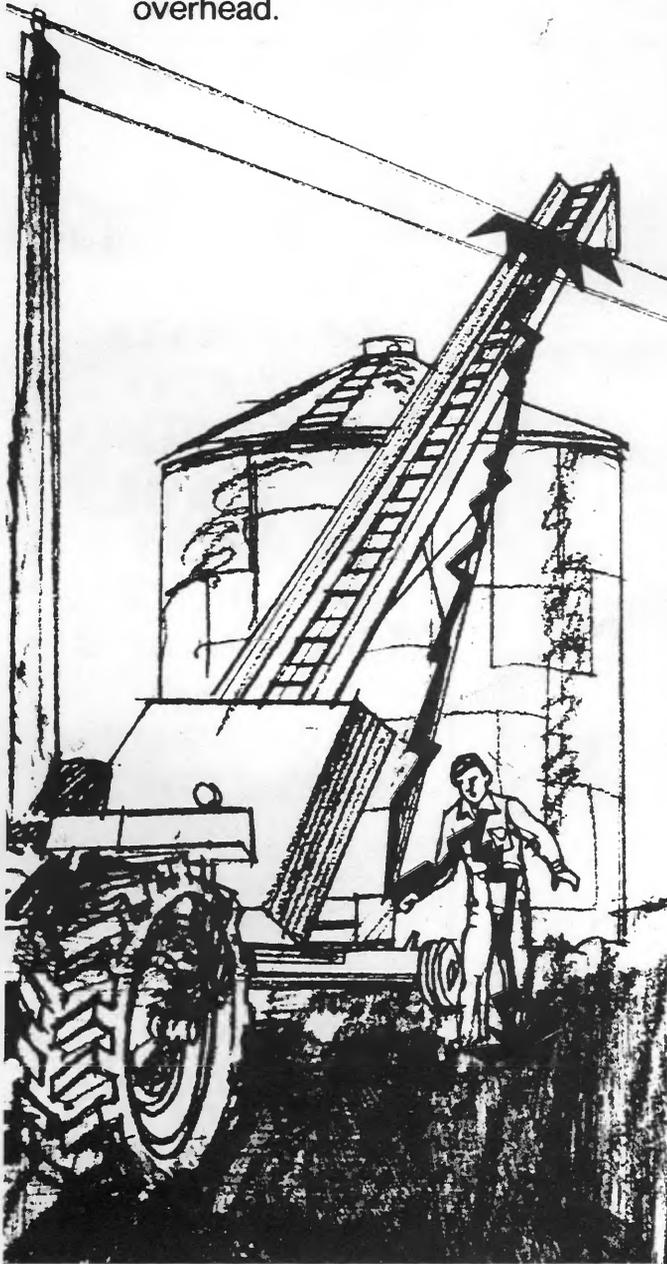
on money to finance plant construction and the enormous cost of environmental protection equipment. It all adds up to a monumental price tag.

Power plants are going to be bigger and more expensive if we continue using the massive amounts of energy required to maintain our nation's economy and production capability.

The increasing cost of building electric power generating plants isn't the only reason why electricity costs more, but it's a major part of the increase in your monthly energy bill.

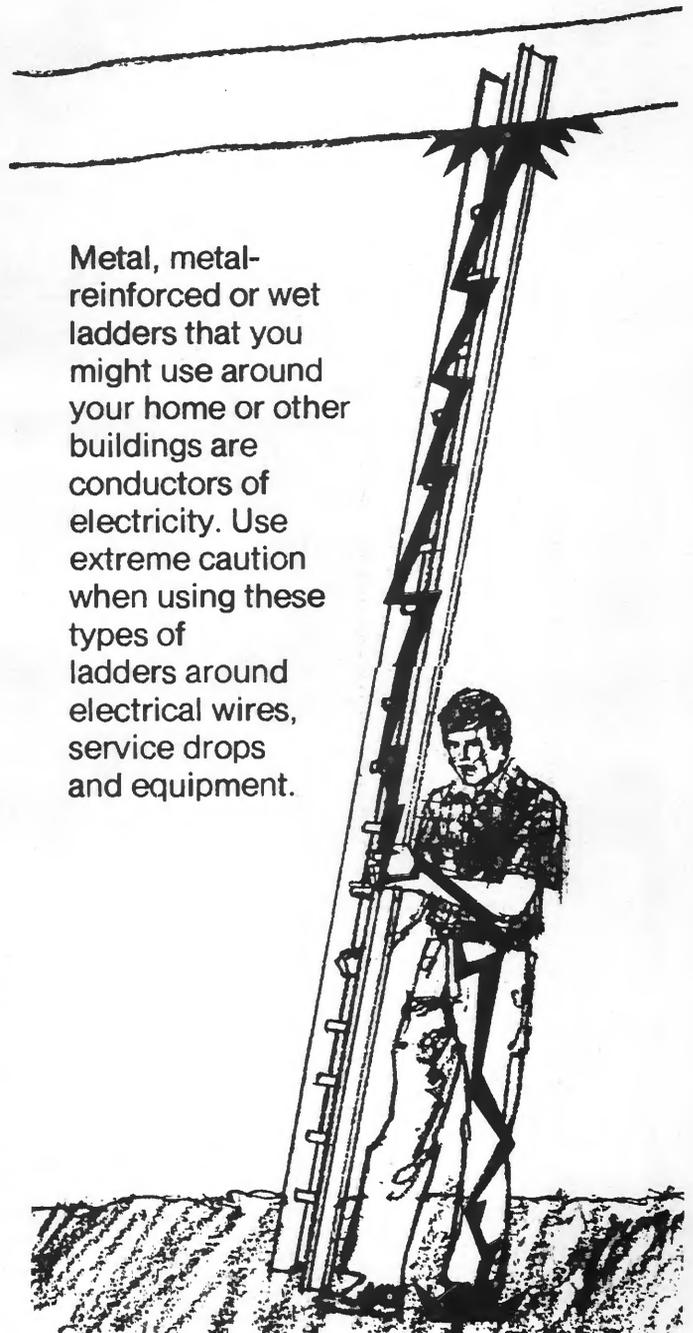
As consumer-owners of your electric utility, you should know why your electric rates are higher . . . after all, it's your business.

Farm grain augers, and many other types of farm equipment, are of such height and length that they become an excellent path to the ground should you fail to REACT. Recognize the potential danger of a powerline overhead.



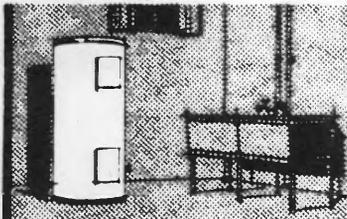
Think Safety Around Power Lines

Metal, metal-reinforced or wet ladders that you might use around your home or other buildings are conductors of electricity. Use extreme caution when using these types of ladders around electrical wires, service drops and equipment.

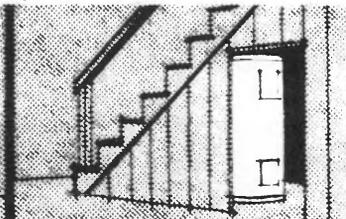


Electric Water Heater

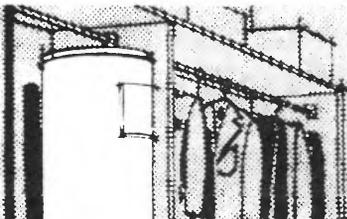
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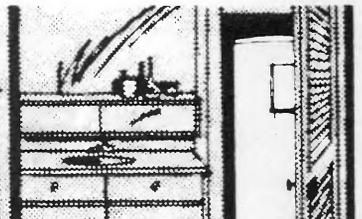
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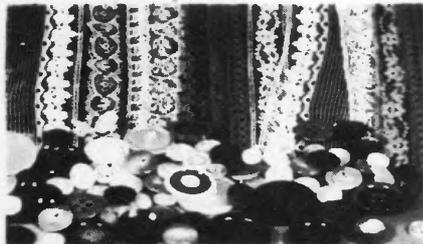
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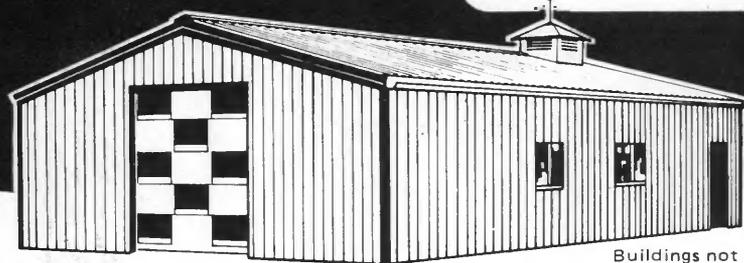
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Display Buildings Only



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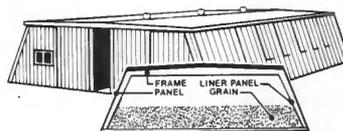
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Neutralizes All The Calories In The Food You Eat!

Meaning: After Each Time You Eat, Your Body Breaks Down Bulging Fat and Burns It Away — So You Grow Slimmer and Slimmer From Meal to Meal. (up to a full size smaller in just 5 days) . . . as you melt away both fluid and fat at the incredible rate of as much as

2 POUNDS GONE THE FIRST 24 HOURS
6 POUNDS GONE THE FIRST 48 HOURS
10 POUNDS GONE THE FIRST 7 DAYS

and depending on how overweight you are — how much you want to lose — and how fast you want to lose it . . .

BURN AWAY UP TO ANOTHER 30 — 40 — 50 POUNDS, OR EVEN MORE! TURNS EVERY LAST BIT OF THE FOOD YOU EAT INTO BURNED-AWAY ENERGY INSTEAD OF STORED-UP FAT!

Medical science has proven conclusively that in your body there exists a fat-burning system of natural chemical fat-destroyers so powerful, they are capable of NEUTRALIZING THE EFFECT OF ALL THE CALORIES IN THE FOOD YOU EAT. That once you discover how to unleash these fat-destroyer chemicals against clinging pockets of fat . . . you can actually compel your body to GROW SLIMMER, INSTEAD OF FATTER, AFTER EACH MEAL YOU EAT!

WORKS SO FAST — THE VERY FIRST WEEK ALONE YOU LOSE AN AVERAGE OF UP TO 1½ POUNDS OF FLUID AND FAT EVERY 24 HOURS!

Now from one of America's leading obesity specialists comes a thrilling crash-burn way to slimmness . . . 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

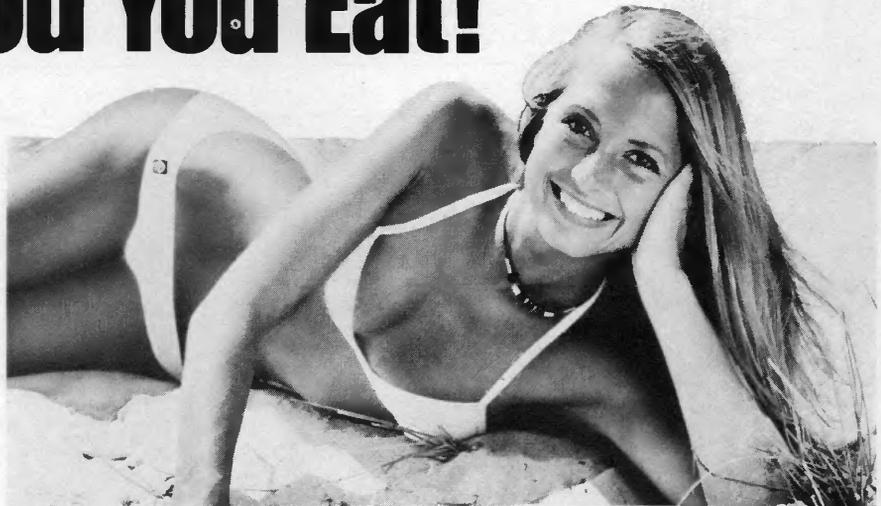
LOSE UP TO 4 TO 6 INCHES OFF YOUR WAISTLINE
LOSE UP TO 2 TO 5 INCHES OFF YOUR HIPS
LOSE UP TO 3 INCHES OFF YOUR THIGHS
LOSE UP TO 4 INCHES OFF YOUR BUTTOCKS
LOSE UP TO 4 INCHES OFF YOUR STOMACH

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: an 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 toneup 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 DEFEAT 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 GRAUALLY ACCELERATE YOUR FAT-BURNING METABOLISM 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!

Now just think what this great ANTI-FAT weapon means to you, if all your life you've had to fight off excess pounds, battle away inches?

WHY "KILL" YOURSELF WITH BRUTAL DIET OR TORTUROUS EXERCISE? NOW — YOU CAN ENJOY A LIFETIME OF SLIMNESS WITHOUT RAVENOUS HUNGER!

It means that from this day on . . . you simply start the ALL-OUT ASSAULT ON FAT by taking these medically proven CAPSULES . . . called "Thera-Thin", before eating . . . as part of this incredible "CRASH-BURN" PROGRAM . . . to help you NEUTRALIZE ALL THE CALORIES IN THE FOOD YOU EAT! You gently raise the level of your fat-burning metabolism . . . "rev up" that inner furnace . . . unlock and activate the natural chemical fat-burners nature has placed in your body . . . and BURN AWAY FAT, MELT AWAY INCHES as you start to grow slimmer and slimmer from meal to meal!

REMEMBER: You must see dramatic results in just 24 hours —

results you can see on your scale with your own very own eyes, the very first morning . . . yes, you must
LOSE up to 6 lbs. the first 48 hours
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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PENN-BIO PHARMACEUTICALS, Dept. JACB-56
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Yes, I want to burn away excess weight fast and permanently with this doctor's crash-loss ANTI-CALORIE CAPSULE PROGRAM featuring amazing THERA-THIN. Please rush me the offer I have checked below. If not delighted, I may return it in 10 days for refund (except postage & handling), of course.

CHECK OFFER DESIRED

(003) Full 21-day supply . . . only \$6.95 plus 50¢ postage & handling

(011) Full 42-day supply . . . plus \$11.95 (you save \$2.00) plus 75¢ postage & handling

(029) Full 63-day supply . . . only \$14.95 (you save \$4.00) plus \$1 postage & handling

Total amount enclosed \$ _____ PA residents add 6% sales tax

Check or money order, no CODs please

CHARGE IT! (check one) Exp. Date _____

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Div. of American Consumer, Inc.



Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

one
man
one
vote



That's democracy in action. Control by the majority. It works for businesses as well as government.

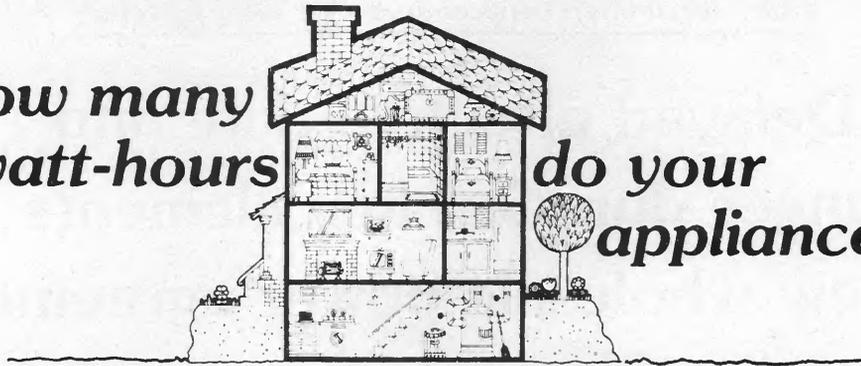
In Illinois, 30 electric cooperatives . . . serving more than 190,000 consumers in 86 counties . . . are democracy in action. Making use of a 2,000-year-old self-help concept, Illinois electric cooperatives provide dependable electric energy for the common benefit of their members.

Illinois electric cooperatives believe the cooperative way of doing business—through grassroots involvement and member participation—is one of the most workable solutions ever devised to assist people in receiving common service which might not otherwise be afforded them.

During October—Cooperative Month—the Electric Cooperatives of Illinois salute the continuing efforts of all cooperative organizations to enhance the quality of life for citizens throughout our state and nation.



How many kilowatt-hours do your appliances use?



Your Cooperative's personnel are often asked about the amount of electricity consumed by members' individual home appliances.

This reference chart shows the estimated yearly kilowatt-hour consumption of most electrical appliances found in the average home. The figures are based on the national average use statistics.

Your individual use may vary from these estimates due to factors such as the number of people in your home, the size of the appliance, your life style and electrical use habits and

in some instances, geographical area of appliance use.

Your individual appliance usage can be calculated with the following formula:

- 1) Find the wattage of the appliance by checking the serial number plate.
- 2) Multiply wattage by the estimated hours of use in one year.
- 3) Divide the final figure by 1,000—the answer is the estimated kilowatt-hours per year.

	Average Wattage	Average hours per year	Est Kwh used per year
FOOD PREPARATION			
Blender	386	39	15
Broiler	1,436	70	100
Carving Knife	92	87	8
Coffee Maker	894	302	106
Deep Fryer	1,448	57	83
Dishwasher	1,201	119	363
Egg cooker	516	27	14
Frypan	1,196	155	186
Hot plate	1,257	72	90
Mixer	127	102	13
Oven, microwave	1,450	131	190
Range with oven	12,200	96	1,175
Range with self-cleaning oven	12,200	99	1,205
Roaster	1,333	154	205
Sandwich grill	1,161	28	33
Toaster	1,146	34	39
Trash compactor	1,380	24	36
Waffle iron	1,116	20	22
Waste disposer	445	67	30
FOOD PRESERVATION			
Freezer—15 cu ft	341	3,504	1,195
Freezer (frostless 15 cu ft)	440	4,002	1,761
Refrigerator (12 cu ft)	241	3,021	728
Refrig (frostless 12 cu ft)	321	3,791	1,217
Refrig/freezer (14 cu ft)	326	3,488	1,137
Refrig/freezer (frostless 14)	615	2,974	1,829
LAUNDRY			
Clothes dryer	4,856	205	993
Iron (hand)	1,008	143	144
Washing machine (automatic)	512	201	103
Washing machine (non-automatic)	286	266	76
Water heater	2,475	1,705	4,219
Water heater (quick recovery)	4,474	1,075	4,811

	Average Wattage	Average hours per year	Est Kwh used per year
COMFORT CONDITIONING			
Air cleaner	50	4,320	216
Air Cond. (Room)	860	800	688
Blanket	177	831	147
Dehumidifier	257	1,467	377
Fan (attic)	370	786	291
Fan (circulating)	88	489	43
Fan (rollaway)	171	807	138
Fan (window)	200	850	170
Heater (portable)	1,322	133	176
Heating pad	65	154	10
Humidifier	177	921	163
HEALTH & BEAUTY			
Hair dryer	750	51	38
Heat lamp-infra red	250	52	13
Shaver	14	129	1.8
Sun lamp	279	57	16
Toothbrush	7	71	0.5
Vibrator	40	50	2
HOME ENTERTAINMENT			
Radio	71	1,211	86
Radio/rec player	109	1,000	109
B/W TV (tube)	160	2,188	350
B/W TV (sol state)	55	2,182	120
Color TV (tube)	300	2,200	660
Color TV (sol state)	200	2,200	440
HOUSEWARES			
Clock	2	8,760	17
Floor polisher	305	49	15
Sewing machine	75	147	11
Vacuum cleaner	630	73	46

*Based on 800 hours of operation per year. This figure will vary widely depending on area and specific size of unit.

SOURCE: The Electric Energy Association

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.

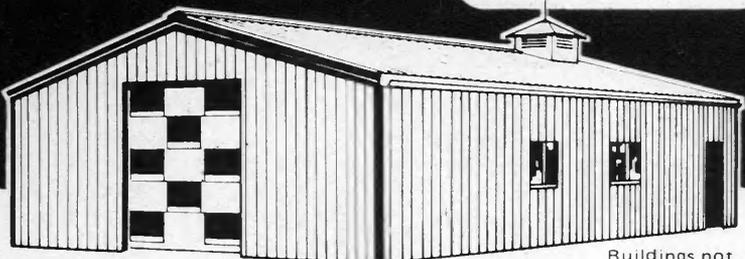
Representing the cooperatives in the negotiations was the IPC Bulk Power Negotiating Subcommittee of the Association of Illinois Electric Cooperatives' Energy, Environment and Engineering Committee. Members of the committee include the manager of each of the cooperatives which purchase bulk power from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

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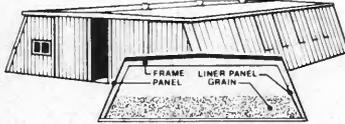
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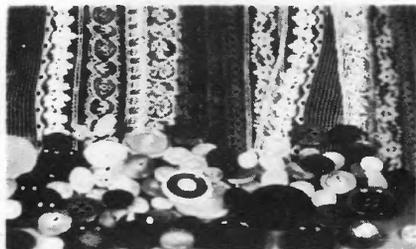
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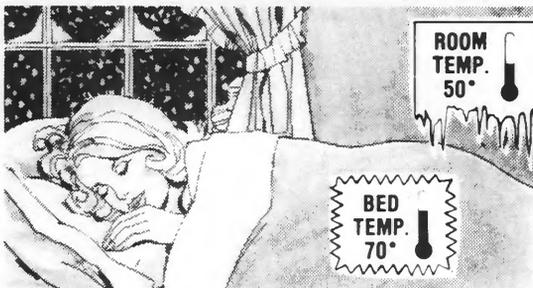
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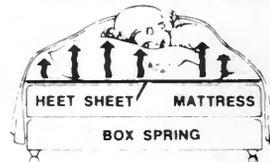
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Nuclear Power : 'NO REASONABLE ALTERNATIVE'

Carl Walske has a career in the nuclear field which dates back to 1951.

Principal staff advisor to four Secretaries of Defense on all nuclear matters, Walske's background also includes service on the U.S. Mission to the North Atlantic Treaty Organization, work as technical liaison between the U.S. and British civilian nuclear programs, and as senior scientific advisor on the U.S. delegation to the nuclear test ban conference in Geneva.

Holder of a doctorate in theoretical physics from Cornell University, Walske now serves as president of the Atomic Industrial Forum, a not-for-profit association representing over 600 educational, industrial and scientific organizations interested in peaceful development of nuclear energy.

Reprinted From Rural Electrification Magazine

Less than a generation ago, tapping the power of the atom to produce electricity was only a dream, a dream of the conveniences and even luxuries which someday might be added to our lives. Steady progress has been made toward that dream as nuclear technology has been developed and introduced commercially—but rather suddenly we have realized that widespread nuclear power is not merely a pleasant dream but a vital and present need.

A recent statement about the energy crisis signed by 33 distinguished American scientists, including 11 Nobel Prize winners, observed that "...the republic is in the most serious situation since World War II... We can see no reasonable alternative to an increased use of nuclear power to satisfy our energy needs."

The reason for their concern is that

we are running out of oil and gas to fuel our power generators; coal alone is not an adequate substitute; conservation methods are insufficient, and other potential sources of power cannot be developed on time, or economically, if at all. The sky-high price of oil is going to get higher as it gets scarcer, and the price of electricity made from it will rise in tandem. If we remain dependent on oil, we put ourselves at the financial and political mercy of other countries.

Fuel for nuclear power is abundant and relatively cheap, however, and the technology is safe and clean. The first commercial nuclear plant went into operation in 1957, and there now are 55 such plants operable in this country and 96 abroad. So the solution to a major part of the energy crisis is at hand.

But two flies have appeared in the ointment. One, the costs of building

new power plants of all kinds have skyrocketed faster than utilities can raise money to build them. Since nuclear plants cost up to a third again as much to build (although they are much cheaper to operate than a fossil plant) they are the first to be cancelled or deferred.

This problem, while serious, is secondary to the basic question: Do we need nuclear power in the first place? I fervently believe that we do, and we shall have to let utilities raise the initial capital in exchange for the long-run savings and other benefits that nuclear power will bring.

The other fly in the ointment is the rise of an antinuclear movement led in part by men who have lost their belief in our modern technological society.

We arrive at the conclusion that there is "no reasonable alternative" to nuclear power cautiously, but not reluctantly. It is a proven technology

ILLINOIS RURAL ELECTRIC NEWS

with the best safety record of any high technology industry, and it will provide abundant energy much more cheaply than any other power generation technology, and with much less effect on the environment.

Fuel statistics tell much of the story. A typical 1,000-megawatt power plant would consume annually 2.3-million tons of coal, 10-million barrels of oil or 64-billion cubic feet of natural gas—but only 30 tons of nuclear fuel. And of this 30 tons, 97 percent could be recycled and reused. It is uncertain how long our uranium supply will last when used in present day reactors, although it is probably a matter of decades. But the “fast breeder” reactor, now under development with NRECA support, and which uses fast neutrons and the common uranium isotope to breed more fuel than it consumes, will extend our nuclear fuel supply by thousands of years.

Because so little fuel is used, operating costs of nuclear plants are well below those of conventional plants; fossil fuel costs more than five times as much as uranium. At the end of 1974, one kilowatt-hour of electricity cost an average of 10.5 mills when produced by a nuclear plant and 17 mills when produced by a fossil plant—a difference of about 40 percent. The figures include amortized capital allocations.

Bechtel Power Corporation estimates that the total generation costs for a nuclear plant going on line in the mid-1980s would be about 10 mills per kilowatt-hour lower than for a coal plant, and as much as 21 mills lower than for an oil plant.

The fast breeder will have special economic benefits. Westinghouse Electric Corporation estimates that fast breeders will result in an economic benefit on about \$1,600-billion in comparable dollars to the \$8-billion that will be spent in development. This is a benefit-to-cost of 200 to one.

And nuclear plants generate this cheap power without smokestacks spewing pollution. A very small part of the radioactivity created in the plants is routinely discharged, but it is much less than the trace level of radioactivity that permeates us and our surroundings all the time.

Despite its benefits, people tend to

worry about nuclear power because of its application to atomic bombs and its production of radioactivity. But a bomb-like explosion of an existing nuclear plant would be a physical impossibility that even the severest critics don't suggest.

The odds against any one American dying from a nuclear accident from all the plants expected to be operating in 1980 are five billion to one. We already have accumulated more than 1,600 reactor-years of operation of civilian and military plants without injury to the public.

According to a recent government-sponsored study headed by Dr. Norman C. Rasmussen of M.I.T., “Nuclear accident probabilities are so low that they are insignificant compared to the overall risk due to manmade and natural risks.”

The radioactivity in used fuel is as carefully contained at every step in its transportation and reprocessing as it is in the plant. Additionally, nuclear plants, fuel and wastes are guarded at all times and restricted by rigorous security procedures so that they can't be reached by saboteurs, terrorists or thieves.

Another possibility that tends to worry people as government and industry get bigger and more complex is that technological decisions—such as whether to rely on nuclear energy and how to do it—may be made without their participation and without consideration of their interests. But whatever the case with other technologies, the nuclear decision making process involving numerous federal, state and local reviews, including citizen hearings, guarantees responsiveness to the needs of affected parties. According to the statement of the 33 American scientists, “The safety of civilian nuclear power has been under public surveillance without parallel in the history of American

technology.”

All these fears are being exploited and the need for nuclear power is being derided by antinuclear campaigners in their battle not only against nuclear power but against the present extent of electrical use and its potential increase. Their sensational charges are getting a great deal of attention from the news media.

These critics charge that geologists and economists are wrong when they say that there's an energy crisis; that conservation experts are wrong when they point out the inadequacy and the drastic consequences of radical conservation methods; that safety experts are wrong when they say that serious nuclear accidents or radiation releases are next to impossible; that public health specialists are wrong about safe levels of radiation; that power engineers are wrong when they say that they can design safe and effective nuclear plants, and wrong when they say they can't now design practical power plants using exotic methods such as fusion or solar energy; and that government, industry, associations such as NRECA, and numerous private persons and groups are wrong when they say that nuclear power is safe, cheap, clean and effective and that the country must have it now.

The extremist critics think that somehow society will be improved by a successful citizens' movement to stop and tear down nuclear electrification. But rural electric co-ops have proven that a successful citizens' effort to construct rather than destroy an electrification system can improve society. I hope that all people can learn from this example that with a proven technology such as nuclear power and the need and desire of people for it, society can only be immeasurably improved by its rapid and widespread application.



Happy Thanksgiving

from the
Board and Staff
of

ILLINI
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Questions about the future

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

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.

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

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

"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



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

"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.



Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Busy fall for Illini

Ice storm rebuild in full swing

This has been a very busy fall for your cooperative. In addition to our normal work load, the rebuild work following the Easter weekend ice storm is in full swing. Miller Construction Company was the low bidder to rebuild 120 miles of single-phase overhead lines. These lines will be upgraded in wire size, pole size, and closer pole spacing. These lines will be much stronger, hopefully reducing the chances for a severe outage. With favorable weather, completion of the overhead rebuild is expected around February.

A total of 80 miles of three-phase major feeder lines must also be replaced because of extensive ice storm damage. One of our crews and a crew from Miller Construction Company is currently rebuilding one of these major feeder lines south and then east out of our Sidney substation. In the case of the three-phase feeder

lines, it was decided to place these underground. The differential cost is about 20 percent higher for three-phase, whereas single-phase underground runs about 50 percent higher. At this time it is not economically justifiable to install single-phase lines underground. The 20 percent higher cost of three-phase can be justified because of the larger number of customers served from these main lines.

At this time most of the rebuild work has been centered south and east of Champaign. Later other areas will be under construction. In all cases an attempt will be made to transfer to the new lines without an interruption of your service, however, there could be some inconveniences necessary. We want to apologize for any inconveniences and thank you for your understanding.



Above: Miller Construction Company crewmen transfer the hot wires to a new pole. Below left: Miller's crew leans an old line over so part of the 120 miles of new overhead lines can be installed. Below right: Miller's crew and one of our crews install three-phase underground line south and east of Illini's Sidney substation.



Will the real Ralph Nader please stand up?

By LOUIS B. STRONG
President
Kentucky Association of
Electric Cooperatives

Ralph Nader, America's number one consumer advocate, appeared on the National (Electric Cooperative) Managers' Conference recently. Nader had accused the electric cooperatives of having lost their concern for social welfare, of no longer following real cooperative principles, and ignoring the evils of nuclear energy, high voltage transmission lines and failing to utilize the so-called "soft technologies" such as solar and wind power that are now available. . .

While I had no illusion about changing Nader's mind on nuclear energy, I had hoped this occasion might be used to try to enlist Nader's support and concern for reducing the economic burden on consumers of unnecessary increases in electric rates, resulting from over-regulation, legal harassment, impractical environmental rules and blind opposition to all energy producing projects. Surely America's number one spokesman for protecting the consumers' interests and the 25 million Americans who are trying to provide themselves with electric service at cost, ought to both be interested in ways to keep these costs as low as possible within a framework of reasonable and logical environmental restraints.

I think it would be fair to say that we got absolutely nowhere with this approach. While I realize that judging another person's motives or really knowing our own is often difficult, we cannot avoid and, in fact, have a responsibility to try to judge and evaluate people's motives and philosophies before we support or oppose them. Based on this encounter with Ralph Nader, along with what he has written, supported and opposed, here are my observations.

I had previously viewed Ralph Nader as a person with a sincere but sometimes over-zealous concern for those areas in our economic and social system in which the consumer and the environment need to be protected through national, state and local

governments. But after a more serious study of what Ralph Nader is saying, writing and doing, and after listening to his comments, and from his response to certain questions, I came away from this encounter almost convinced that his consumer interests may simply be a means to an end. I am almost convinced that Ralph Nader is going to use any areas of dissatisfaction in our society and create new ones where they do not exist, because he had a deep and underlying animosity against our entire economic and social structure, and his real motive is to see them both drastically changed.

Why would Ralph Nader travel to Minnesota and join in and publicly support the opponents of a cooperative transmission line without even consulting the nonprofit consumer-owned cooperatives that are trying to build this line? In questioning him, I found he had no basis for his accusation that the cooperative leaders were building this line without any concern for the harm it would do to people, crops and livestock. When I pressed him for some scientific authority for his statement that this line would stunt the growth of children born and raised in this vicinity, he admitted it was just a possibility that he didn't think the cooperative had properly considered. When asked if he was aware of and would be interested in seeing the results of rather extensive experiments that had been conducted in which no harmful effects were found in livestock and crops, he just didn't seem to be interested. It is a very

frustrating experience to try to deal with this kind of logic. If, for example, some person says the world is going to come to an end next Thursday at 6 p.m. or they say there is a possibility that a meteorite may strike and destroy New York City within the next five years, how do you prove with 100 percent scientific certainty that they are wrong. In the scientific world there is an axiom that says for every cause there is an effect, and for every effect, there is a cause. So it is absolutely impossible to say with scientific accuracy that there is no effect from any action you take.

It is easy to criticize, to find fault, to tear down, to oppose, but those who do so have a responsibility to offer something better. I found in Ralph Nader a person who has an evangelistic zeal to oppose to obstruct without realistically facing the practical alternatives. He would have the electric cooperatives, for example, not build another power plant, either coal or nuclear, and to stop all high voltage transmission lines. When asked to provide alternatives, he said:

1. "With proper conservation measures, no more electric power will be needed in this century.
2. And even if it was, it could be provided with small solar and wind generating units."

Such unrealistic alternatives may make sense and satisfy many of Nader's followers, but you and I who live in the real world know it is really no alternative at all, and if Ralph Nader should succeed in stopping all coal and nuclear plants, the result will be economic disaster for the consumer he professes to protect, with social and political upheaval certain to follow.

Commitments for nuclear plants outside the United States rose to a total of 586 during this last year, while the U.S. practically stood still. A survey by the Atomic Industrial Forum indicates there are now 52 foreign countries with nuclear programs and together they increased their nuclear commitments by 20 percent this last year. Belgium now leads all other nations in supplying over one-fifth of its total electric power from nuclear plants.

New office hours

Office hours for Illini Electric Cooperative have been changed. Effective January 2, 1979, the cooperative's new office hours will be 7:30 a.m. till 4 p.m., Monday through Friday. The office will be closed Monday, December 25, Christmas, and Monday, January 1, New Year's Day.

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. Fetting, 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 Fetting, 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.