

Robert Wagner, left, and Chris Bowron look over a map of New Zealand, to find Chris's home. Chris is the twelfth guest the Wagners have hosted from that country, and they have visited some of the others who enjoyed their hospitality. Wagner, a director of Western Illinois Electrical Coop., lives near Burnside.

Gasoline, which costs the equivalent of about \$2.20 a gallon in New Zealand, generally goes into smaller vehicles. Four-wheel-drive trucks are popular but about twice as expensive as they are here. Most are from Japan. Tractors and farm implements are smaller, too, mainly because of the limited tillable land. "Ford, Massey-Ferguson and International are all popular, but not the big ones. An 80-100 horsepower tractor is a big one," he says.

The educational system differs, too. Bowron spent his first eight years of school at home — studying by mail. "We only got mail twice a week, and I got two weeks' worth of work at a time. After I got my eight years of schooling in by mail, I went to a boarding school about 100 miles from home," he says.

While there are differences in the way things are done in the two countries, there are also similarities, and one is the growing role the New Zealand government. "The largest segment of the economy seems to be government employees," he says with a laugh, "but a lot of our other employment centers around agriculture and natural resources, such as pulp mills.

"Carpet mills, woolen mills, transport for livestock and fertilizer works all employ a lot of workers, too, and so do the government-owned railroads."

While Bowron notes that there are many differences in the way the countries operate, there are many similarities, and it is interesting to compare. Thanks to hosts like the Wagners, there are such opportunities for visitors to see America.



Baked-on decorator finish withstands normal operating temperatures.

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Heavy-duty cast iron door resists warping.

Secondary safety locking latch.

Flexible heat-resistant door seals insure air-tight fire box.

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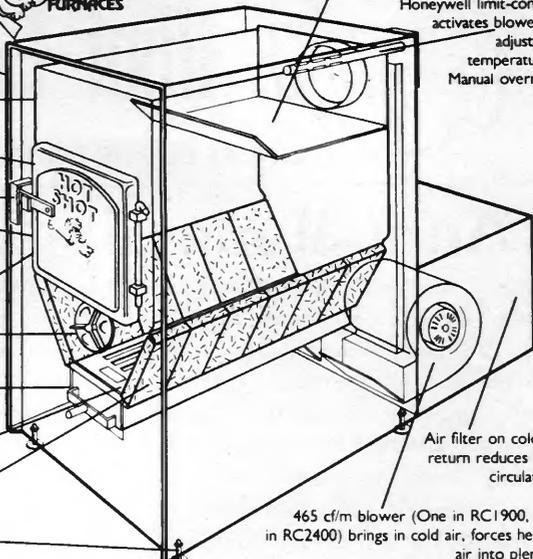
Manually adjustable draft control standard.

10-gauge steel, full-length, removable ash pan with wooden handle standard.

Double heavy-duty cast iron grates for durability.

Fire brick protects fire box, reflects heat for greater efficiency.

Rugged leveling bolts to keep unit stable and off damp floor.



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ILLINI
ELECTRIC COOPERATIVE

Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Annual meeting scheduled February 26

The Forty-Third Annual Meeting of Illini Electric Cooperative will be held Thursday, February 26, at the Ramada Inn Convention Center in Champaign. The Convention Center offers one of the best locations with meeting rooms to accommodate the large number of members in attendance each year. In addition to meeting room space, excellent banquet facilities are available.

Again this year, the cooperative is offering an excellent meal to those members who send in a reservation card. This card is attached to your official annual meeting notice to be mailed around February 11. In addition to the reservation card, each meal reserved must include \$1.00 donation.

Monday, February 23, is the cut-off for return of the meal reservation card and donation. At that time, the cooperative must give a firm count of the number of meals to be served. Any "no-shows" must be paid by the cooperative as though the meal

was served. To minimize this extra expense we ask you to share the cost. Meals will not be served without a reservation card returned prior to February 23. Please help us by returning these cards as soon as possible.

Registration starts at 10 a.m. and closes at 12 noon. The meeting officially begins at 12 noon, immediately followed by the meal.

The board of directors and staff would like to invite each and every member to attend the annual meeting of your cooperative. Officers' reports of the past year's activities will be presented and you will be able to exercise your democratic right to vote in the election of directors.

Directors from the following areas are to be elected: Champaign County, Northwest; Piatt County; and Vermilion County. The nominating committee appointed by the board of directors will submit names to be voted upon. Nominations will also be accepted from the floor.

Featured speaker will be Louis Strong, President of United Utilities Supply, Inc. of Louisville, Kentucky. United Utilities Supply is a material and hardware supply cooperative owned by the rural electric cooperatives purchasing supplies from it. Mr. Strong has been very active in rural electric activities at the statewide and national level. Articles he has written have been featured in this center section on several occasions. He will certainly present an informative and interesting speech that you won't want to miss.

The Ramada Inn Convention Center is located at 1505 South Neil Street in Champaign, just one block north of your cooperative office. Plenty of free parking is available, so plan to be there. For those in attendance, many good prizes will be awarded at the close of the meeting.

For an informative and entertaining afternoon, mark your calendar for February 26 and return your reservation card by February 23.



James F. Beatty, President of the Board of Directors at Illini Electric Cooperative, welcomes each and every member to the annual meeting.

Your annual meeting



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

Date: Thursday,
February 26, 1981

Time: Registration, 10:00–12:00 Noon
Meeting starts—12:00 Noon
Luncheon served at 12:00 Noon

Officers' Reports
Guest Speaker—
Louis Strong

Attendance prizes will be drawn.

Hypothermia

Caution for older people in winter

While we all want to conserve energy in as many ways as possible, there is one important warning concerning household temperatures in winter.

Some older people may require higher indoor temperatures — above 65 degrees F at all times — to avoid accidental hypothermia, a possibly fatal drop in body temperature.

Hypothermia occurs when the body cannot produce enough body heat. It can happen to anyone, but older people are most susceptible.

People with circulatory problems, those taking certain types of drugs (e.g. phenotizines, commonly used to treat anxiety and nausea), and children under two may also be vulnerable.

It's best to seek the advice of your doctor.

Savings:

According to data compiled by DOE's Division of Nuclear Power Development, each 1,000 megawatt nuclear generating unit saves the equivalent of about 27,000 barrels of oil per day.

Illini Electric Cooperative

MAILING ADDRESS—P. O. Box 637, Champaign, Illinois. Phone 352-5241.

HEADQUARTERS LOCATION—1605 South Neil Street.

OFFICE HOURS—7:30 A.M. to 4 P.M. Monday through Friday—closed all day Saturday, Sunday and Holidays.

HOLIDAYS OBSERVED— New Year's Day, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving and Christmas.

REPORTING SERVICE INTERRUPTIONS,—Broken Poles and Fallen Wires—Phone 352-5241—day or night—7 days a week.

Rural electric statements of belief

A review, as the new year begins, from the 1969 report of the National Rural Electric Cooperative Association's Long-Range Study Committee.

We believe. . .

- That the individual citizen, whether in rural or urban America, can and will achieve a sense of personal pride, self-accomplishment and family security if given a real opportunity to participate in social, economic and political activities as a free and equal citizen.
- That this nation's human and physical resources, under God, must be developed and utilized to the maximum extent possible and that this productive resource development should result in maximum public benefit, without regard to religion, race, creed, social or economic circumstances.
- That the development of the potential of rural America and the utilization of its assets will make a major contribution to the welfare of the nation and the world.
- That the principles of self-help cooperative enterprise embody the freedoms and inalienable rights granted by the Constitution of the United States, and are consistent with the highest ideals of the free enterprise system.
- That rural electric cooperatives have major responsibilities for helping to raise the standard of living and for improving the productivity and the opportunity for economic prosperity in an ever-changing rural America.

We like complaints

When there is a problem with a product or service, many customers hesitate to complain. They hesitate to complain to the company offering the product or service, but they will complain to family, friends and neighbors who can actually do very little to help solve the problem.

If you have a question or complaint about your electric service, please let your electric cooperative know. When

you contact us about a problem, we can then try to solve it. When you contact your electric cooperative with a problem, you're helping your cooperative maintain good service. We can't fix a mechanical problem or clear up a question about rates if you don't let us know. Write a letter, call the office or stop by. We're glad to hear from you.

Energy notes

The average American's car consumes 60 gallons of gasoline a month. It is estimated that if only half of the 52 million Americans who drive to work alone would double up, the country could save 14.7 million gallons of gasoline a day.

More oil and gas wells were drilled in the United States in 1980 than at any time of the nation's history.

The evidence is strong that energy-conscious Americans are convinced that weatherization makes sense. Since 1975, 85 percent of new homes have been equipped with attic

and wall insulation.

The nation's annual rate of growth in energy demand has been reduced from 5.4 percent in 1976 to 0.05 percent in 1979.

The crucial importance of energy to America's production of food and fiber does not appear on a chart or graph. Agricultural production consumes just over three percent of the nation's total energy. And, 93 percent of this — eight billion gallons — as compared with 74 percent of the energy used nationally is petroleum based.

40 BRAND NEW TOWELS \$1.75!

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

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Dept. B-123
St. Louis, MO 63101



Home Weatherization for Lower Cost Living Comfort

Published by the Electric Cooperatives of Illinois

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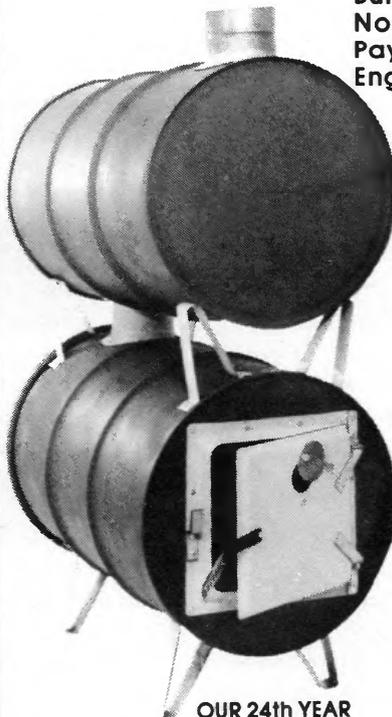
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No more middle-of-the-night stokings
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Engineered to prevent drum burn-out**



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Sotz Corporation, 13668 Station Rd., Columbia Station, OH 44028

Before you spend \$500 to \$600 on a wood heater, try the Sotz Heater Kit for under \$60... **at our risk.** If (within one year) you don't agree it out performs any wood heater money can buy, or (within 10 years) if the kit cracks, warps, or burns up, your money will be refunded, including shipping charges.

Kit converts a 55 gallon drum (not supplied) into a high capacity wood burner. Features large 11 1/2" square door opening, cam-lock door catch, and spark-proof design. Patented internal draft channel, draft control, and airtight design allow controlled, efficient heat, while limiting metal temperatures of barrel, to prevent burnup. Use of draft control allows you to heat large or small areas. Basement installation heats your entire home. Great for your garage, workshop, or cabin. Top drum squeezes 60% more BTU's from heat normally lost up the chimney. Heavy steel kit bolts together quick and easy.

Thousands in use by U.S. Army, Navy, Depts. of Nat. Resources, Agriculture, Federal, state and local government agencies. Assembled heater tested to U.L. specs. Member BBB.

Price delivered to your door: Bottom Kit **\$38.95**. Top Kit **\$20.95**. Master card - Visa welcomed

Free info about 15-30 gal. drum kits, heating water, drying wood, fireplace to wood stove and much, much more.

Almost Like Growing "INSTANT SHADE"!
Once Established, Amazing
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ZOOMS ROOF-HIGH IN JUST ONE SINGLE YEAR!

—and keeps on skyrocketing 30—40—50—EVEN UP TO 60 FEET HIGH, OR MORE, in less time than most trees nudge themselves a few feet off the ground.

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Yes! Based on amazing average weekly and yearly growth rates reported by plant scientists —It grows **SO FAST**... arches out **SO WIDE**... you can actually take a ruler and measure the incredible difference in height **every 2 to 3 days!** OR, to really leave your neighbors gasping in awe and wonder, give them a yardstick and let them measure the difference **IN FEET, every 2 to 3 weeks!**

GROWS MORE IN JUST ONE MONTH THAN MOST TREES GROW IN AN ENTIRE YEAR!

Because according to plant experts, Gov't scientists and Botanical Gardens who researched this wonder-hybrid... once established, you merely water it once-a-week, and be absolutely floored as it **GROWS UP** to an average of **A FULL 1/2 FOOT WEEKLY!** during its **SUPER-SOARING** growing season!

That's right! Grows higher than even a full grown Flowering Dogwood **IN JUST ONE SINGLE SEASON!** Grows higher than even a full-grown Star Magnolia **IN JUST ONE SINGLE YEAR!** Yes, thrusts itself so high, so fast that it actually towers over even a Japanese Red Maple, Cherry Tree or even the most graceful silky Willow, in such a ridiculously short time you will simply refuse to believe your eyes!

PLANT NOW—REACH OUT AND TOUCH ITS LUSH, THICK BRANCHES FROM YOUR SECOND STORY BEDROOM WINDOW BY NEXT SUMMER!

Think of it—just 12 months or less! No doubt about it. There's just not another "Instant" Shade Tree like it on this planet! Because—this year, thanks to this miracle of plant science, instead of spending a small fortune on a tree and then waiting half a lifetime for it to grow... get set for the garden-wonder of your life as this super-soaring hybrid rockets forth from a tiny sapling to a tower of roof-high beauty **IN JUST ONE SINGLE YEAR!**

GROWS IN VIRTUALLY ANY SOIL—REQUIRES NO SPECIAL CARE—SOARS INTO A MASTERPIECE OF BEAUTY IN JUST A MATTER OF MONTHS!

Best of all, unlike most trees that demand constant care, constant pampering... about the only thing you do when you plant this super-growing wonder-hybrid is water it and enjoy it! That's why leading botanical gardens... landscape artists... garden editors... can't stop raving about its "indescribable beauty"... its trouble-free care... Its surging, towering growth. Small wonder that leading experts hail it in the most glowing terms... recommended it again and again for homeowners who want a stunning display of beauty, both a wind and privacy screen, and deep, cool shade... and with practically no more work than a thorough watering each week!

VITAL STATISTICS FROM LEADING EXPERTS MATURE GROWTH SIZE:

as much as 50 to 70 feet. **MATURE GROWTH SPREAD:** as much as 30 to 35 feet.

ZONE OF HARDINESS: Hardy from deepest South to as far North as Vermont, Minn., Quebec, British Columbia, Winter hardy in areas where temp. drops as low as 50 degrees below zero!

LIGHT NEEDS: Grows best in sunny location. **DECORATIVE MERITS:** Highly recommended by landscape architects as beautiful, decorative specimens for homes, parks, highways etc., where exceptional fast growth and beauty are required. Perfect for fast screening and privacy.

RAPID RATE OF GROWTH: Experts report growth rates of up to 9 FEET **THE VERY FIRST YEAR ALONE** on specimen trees. That's more than most shade trees grow in 3... 4... 5... even 7 years. Once established, will grow ranch-house-roof high **IN JUST ONE SINGLE YEAR.**

CARE: No special care required, just normal garden care. Water Fully once weekly. No spraying, no dusting, no special feeding. Naturally resistant to most diseases, pest or insects.

WE HAVE AT THIS MOMENT ONLY A LIMITED SUPPLY AVAILABLE FOR RELEASE TO THE PUBLIC—FULL SUPPLY WON'T BE READY UNTIL 1982. SO ACT NOW!

Now the price of this super growing shade tree is not \$20 or \$30 you might expect, but a mere \$3.95.

That's right, only \$3.95 for this magnificent Beauty that rewards you with such a glorious display of growth **IN JUST ONE SINGLE YEAR.** However, our supply is limited! Full supplies from the growing fields will not be ready mid to late 1981 or early 1982. Therefore, all orders must be shipped on a first-come, first shipped basis. To make sure you don't miss out... **ACT NOW!**

SATISFACTION GUARANTEED OR MONEY BACK!

Remember: Satisfaction is fully guaranteed. You must be thrilled in every way with this spectacular 1-2-3-4 growing shade tree or **RETURN AT ANYTIME** within 90 days for a full refund of purchase price... **ANYTIME** within 1 year for free replacement. Could anything be fairer? Now is the time to order and plant—so send the no-risk coupon today!

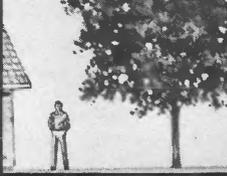
FROM MAN HIGH First Year



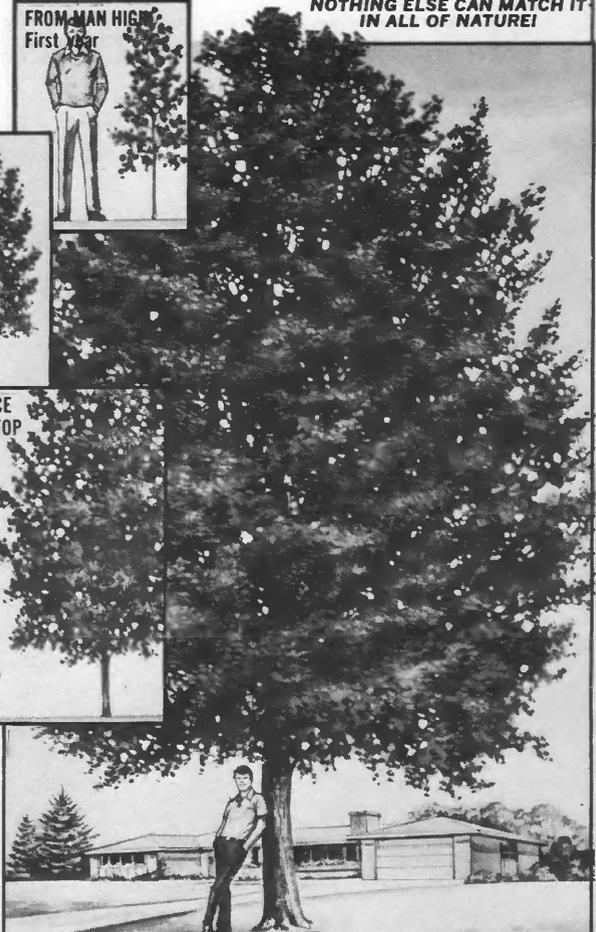
TO RANCH-HOUSE ROOF HIGH by next year



TO TWICE HOUSETOP TALL in just a few short years!

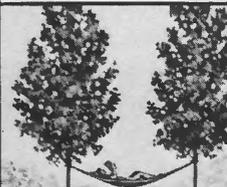


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Grows More in One Month Than Most Other Shade Trees Grow In AN ENTIRE YEAR—More in One Season Than Ordinary Shade Trees Grow In 2 Years, 3 Years or Even 5 Years! (Illustration shows magnificent size, spread and beauty of mature Populus Canadensis Eugenei.)

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Here's a luxury sight you don't have to wait half a life-time growing — a matched pair of these towering show-pieces.



Picture your patio bathed in the cool, fragrant beauty of this show-stopping miracle tree from early spring to the first snows of winter.



Just a few minutes planting time, a few season's growing time, rewards you with twin towers of beauty.

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Yes, please rush me the SUPER GROWING SHADE TREE(S) indicated below:

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- (#004) 4 for only \$10.00 (SAVE over \$7.00) plus \$1.50 post. & hand.
- (#010) 10 for only \$20.00 (SAVE over \$20.00) plus \$3.00 post. and hand.
- (#020) 20 for only \$30.00 (SAVE over \$55.00) plus \$5.00 post. & hand.

If after receiving my order I am not fully delighted, I may return anytime within 90 days and you will refund my purchase price in full (less only postage and handling costs).

Total amount enclosed \$ _____ (N.Y. Residents add sales tax).
No COD's please.

Name _____

Address _____

City _____ State _____ Zip _____

Weather conditions will determine date of shipment. Your trees will be shipped in early spring for proper planting time in your area.



Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Farm energy supply subject of U of I regional meetings

It often takes more fuel to dry your corn crop than you needed to grow and harvest it.

With increasing fuel costs and a cloud of doubt hanging over our supply of imported petroleum, getting the energy you need for both your grain-drying and livestock operations becomes a more complicated and expensive proposition every week. If you can get the fuel you need, it's likely to be a bigger and bigger drain on your pocketbook.

University of Illinois specialists have designed a program to help you cope with those problems. The program will teach you how to use more energy-efficient methods and management in operating your farm. The one-day session also will provide a look at alternate sources of energy you can put to work on your farm.

U of I specialists will discuss

energy-efficient drying methods and management as well as ways you can capture and use solar energy to reduce your drying costs. They'll describe how successful on-farm systems operate. You'll also learn how biomass burners operate.

The experts also will discuss the potential for using solar energy in livestock systems. And some Illinois farmers will describe how they are using solar energy in their operations now.

The regional meetings serving our area will be February 24 at the Sheraton Inn in Decatur (Stuart D. Hawbaker, 217/877-6042) and March 5 at McGrath IHC, one mile north of Gibson City (Charles Orcutt, 217/388-7791). Preregistration is suggested.

For more information, call the Member Service Department at Illini Electric Cooperative.

NOTICE OF PUBLIC HEARING ON SMALL POWER PRODUCTION AND COGENERATION

Illini Electric Cooperative hereby gives public notice, pursuant to the provision of the federal Public Utilities Regulatory Policies Act of 1978 and rules and regulations adopted pursuant thereto (18 CFR Part 292, Subpart D, Section 292.401) of a public hearing concerning small power production and cogeneration to be held at 2:00 P.M. on Monday, March 2, 1981, in the meeting room of the Bottom's Up Restaurant, 105 S. Sangamon, Gibson City, County of Ford, State of Illinois.

The public hearing will be held to discuss the rights and duties of the electric cooperative and small power producers and cogenerators which have the status of qualifying facilities. Small power producers include solar, wind-turbine generators, waste, biomass, etc., and cogenerators include qualifying facilities which produce waste heat or steam and electric energy.

The hearing will discuss the circumstances under which the electric cooperative is obligated: to purchase electric energy from and sell electric energy to such qualifying facilities, provide avoided cost data, establish rates for purchases and sales which are just and reasonable, in the public interest and nondiscriminatory, provide back-up power and other services and establish standards for operating safety and reliability.

This will be a joint hearing with Eastern Illinois Power Cooperative and Corn Belt Electric Cooperative, Inc.

Your annual meeting



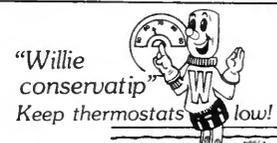
Place: Ramada Inn Convention Center
1505 S. Neil
Champaign, Illinois

Date: Thursday,
February 26, 1981

Time: Registration, 10:00—12:00 Noon
Meeting starts—12:00 Noon
Luncheon served at 12:00 Noon

Officers' Reports
Guest Speaker—
Louis Strong

Attendance prizes will be drawn.



Illini Electric will sponsor one on "Youth to Washington" tour

Your board of directors has decided to sponsor one participant in the "Youth To Washington" tour. The tour is a one-week, all-expense-paid trip to Washington, D.C. The week will be spent traveling and sightseeing in the nation's capital. The winning student will join approximately 50 other Illinois students in Springfield June 12 for the chartered bus trip and will return to Springfield June 19.

In addition to the winner's tour, 10 semi-finalists will tour Springfield's shrines and visit the legislature in session. The evening meal will be with the Senators and Representatives from



be chosen from entries in an essay contest. Any sophomore or junior from any of the area high schools in the Cooperative's service area may enter.

Contestants will submit an essay on "How Illini Electric Cooperative Enhances the Lifestyles of its Members" (exact title may vary) and submit to Illini Electric Cooperative's office on or before April 1, 1981. Essays are to be type-written on 8½ x 11 inch paper, one side only, double spaced and not to exceed 1,000 words. Resource material will be mailed to each contestant or may be picked up at the Cooperative's Member Service Department in Champaign. Essays will be judged by a panel of judges on originality, content, accuracy of facts and composition.

our area. The Springfield tour is April 22 and again all expenses including transportation will be provided.

The winner and semi-finalists will

Resource material and detailed information may be obtained by completing and sending in the official entry form below.



'YOUTH TO WASHINGTON' Official Entry Form

Illini Electric Cooperative
P.O. Box 637
Champaign, Illinois 61820

Name _____ Date _____

Age _____ Name of school _____ Class year (circle) 10 11

Mailing Address _____

_____ zip _____ phone _____

I intend to submit an entry in the Illini Electric Cooperative Essay Contest. I understand that this entry form entitles me to receive research materials furnished by IEC.

I agree that Illini Electric Cooperative will have exclusive rights to use the essay submitted for this contest.

Signature of Student

Parent's or Legal Guardian's Statement To Go On All-expense-paid Trip To Washington, D. C., & Springfield, IL.

We, the undersigned, give permission for _____ if (he or she) becomes a winner of Illini Electric Cooperative's 1981 Essay Contest, to take the expense-paid tour to Washington, D.C., and Springfield, IL, sponsored by Illini Electric Cooperative and the Association of Illinois Electric Cooperatives.

Illini Electric Cooperative will assume no liability for contestant while on the conducted tour.

signature of parent or guardian

mailing address

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Any solid fuel (wood, coal, paper logs, etc.) can be used. Since the machine is so efficient, you will use less fuel than you use now.

The only other cost to operate the unit is for electrical power to run the two blowers. That's less than 150 watts, or the same as one light bulb!



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Clean Out Trap _____ Yes _____ No

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Wood Use Per Year _____ Cord _____ Rick

Fireplace:
Rock: _____ Brick: _____
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New Adams Manager Roger Mohrman, left, with Dean Searls

Mohrman new Adams manager

Roger C. Mohrman, an employee of Adams Electrical Co-Operative for 27 years, is the new manager of the Camp Point-based electric cooperative, replacing Dean L. Searls, who retired March 1 after almost 40 years as manager.

Mohrman, an Adams County native who grew up on a farm near Quincy, is a graduate of Quincy High School and the University of Illinois (1951) with a bachelor of science degree in agriculture. Following service in the Air Force during the Korean War,

Mohrman returned to Adams County and began work for the cooperative as power use advisor. He was named member services manager in 1962.

Mohrman and wife Margie live near Camp Point, where he is active in a number of community, church and school activities. He served two terms as president of the Adams County Community School District 3, is a former president of the Camp Point Lions Club, is president and coordinator of the Adams-Brown-Schuyler Water Cooperative, has

served on the boards of the Adams County Heart Association, Cancer Society and United Fund, is active in the Camp Point United Methodist Church, the Illinois Farm Electrification Council and the Power Use-Member Service Section of the Association of Illinois Electric Cooperatives. Margie is also busy in the electric cooperative program as a Regional Committeewoman for the National Rural Electric Cooperative Association.

The Mohrmans have four children: Dennis Mohrman of Keokuk, Iowa, a YMCA director; Deborah Henry of Riverton, a first-grade teacher; DiAnn Hughes of Quincy, employed in the advertising department of Moorman Manufacturing Company, and Denise, a sixth grader at Camp Point Elementary School. They have two grandchildren.

Searls' retirement marked the end of a distinguished career in rural electrification. In addition to his work in Illinois, Searls served on three different occasions in overseas assignments to assist other countries with rural electrification.

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Avoid these pitfalls when insulating

A greater awareness of energy conservation and resulting increased use of insulating materials has introduced several new problems for the homeowner.

Recessed light fixtures, fans, bell transformers and other heat-producing devices develop extremely high temperatures during periods of frequent use. When insulation is blown above or placed in direct contact with these devices, it interferes with the proper ventilation and cooling of these objects and creates a potentially serious fire hazard.

Many insulation manufacturers caution, and the National Electric Code requires, that insulating material not be installed within 24 inches of the top, and three inches of the side, of recessed light fixtures, ballasts or other heat-generating devices. Care must be taken to prevent insulation from being placed too near metal chimneys and fireplaces as well.



When installing insulation, take a little extra time and follow the procedures outlined below to ensure a safe job.

1. Before installing insulation, make a thorough inspection of the attic area for the location of recessed light fixtures, fans,

etc. Also note the location of metal chimneys and fireplaces.

2. Using a baffle material, form a barrier allowing three inches of air space around each fixture. Make the barrier high enough so the top clears the insulation depth by at least six inches.
3. Be sure to clean the baffle area of old insulation and other debris.
4. Staple or tape the baffle in place so it will remain in position during insulation installation.

A related problem occurs when loose fill insulation is carelessly blown into the attic, covering soffit vents and obstructing air flow and ventilation which could result in moisture control problems and insulation damage.

With a few minutes of careful planning and the proper safeguards, you can have an effectively insulated home and avoid a potentially serious fire hazard.

Insulating ductwork is necessary

One of the first questions that should be asked of any member who has a ducted electric heating system and is inquiring about a higher than expected bill is: Are the hot and cold air ducts in your home insulated?

There now is wide acceptance of electric furnaces and heat pumps which utilize duct systems the same as oil, gas and coal furnaces. However, we have frequently found insufficient follow-through for proper insulation of the ducts. Over the years, masters of the old school of installing heating ducts had little concern for wrapping ducts with insulation. This idea has been carried over into many electric heat installations and we are sure it causes problems and higher bills.

We urge that installers insulate all ducts in crawl spaces, unheated basements and other exposed areas with at least four inches of insulating materials designed for such a purpose. When ducts are in the attic they should be insulated to at least the same depth as is installed over the entire attic. Also, it is important to protect the cold air return ducts as well as the hot air ducts.

When a basement is heated fulltime, there are some who believe insulation of the ducts is not important. This has merit if the exposed areas of the basement has insulation equal to that in the upper living areas. If this is the case, the planned cost of heating must be based on the total area of the

home rather than the upper living area only.

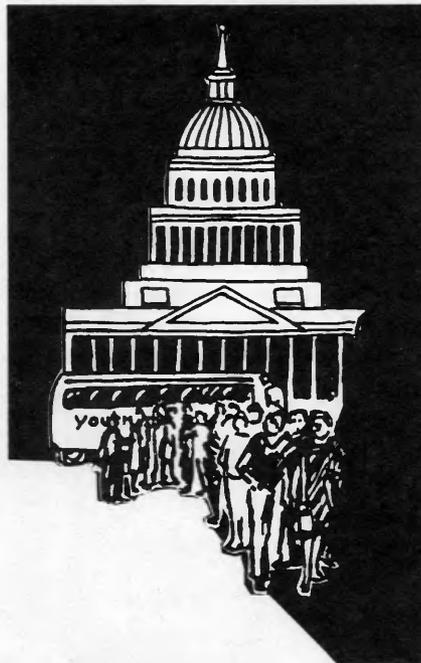
But, there are instances where insulating should be done even though the basement is heated. An electric furnace is designed with a lower bonnet temperature than other furnaces, so it is possible to experience enough heat loss in a long duct that a room at the far end will be uncomfortable. Adding duct insulation often solves this problem.

In this day of energy shortages and much higher fuel costs, insulation properly installed will save and save. This is true for other fuels as well as for electricity. If you have questions about duct insulation, give the member services department a call.

Illini Electric will sponsor one on "Youth to Washington" tour

Your board of directors has decided to sponsor one participant in the "Youth To Washington" tour. The tour is a one-week, all-expense-paid trip to Washington, D.C. The week will be spent traveling and sightseeing in the nation's capital. The winning student will join approximately 50 other Illinois students in Springfield June 12 for the chartered bus trip and will return to Springfield June 19.

In addition to the winner's tour, 10 semi-finalists will tour Springfield's shrines and visit the legislature in session. The evening meal will be with the Senators and Representatives from



be chosen from entries in an essay contest. Any sophomore or junior from any of the area high schools in the Cooperative's service area may enter.

Contestants will submit an essay on "How Illini Electric Cooperative Enhances the Lifestyles of its Members" (exact title may vary) and submit to Illini Electric Cooperative's office on or before April 1, 1981. Essays are to be type-written on 8½ x 11 inch paper, one side only, double spaced and not to exceed 1,000 words. Resource material will be mailed to each contestant or may be picked up at the Cooperative's Member Service Department in Champaign. Essays will be judged by a panel of judges on originality, content, accuracy of facts and composition.

our area. The Springfield tour is April 22 and again all expenses including transportation will be provided.

Resource material and detailed information may be obtained by completing and sending in the official entry form below.

The winner and semi-finalists will



'YOUTH TO WASHINGTON' Official Entry Form

Illini Electric Cooperative
P.O. Box 637
Champaign, Illinois 61820

Name _____ Date _____

Age _____ Name of school _____ Class year (circle) 10 11

Mailing Address _____

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I intend to submit an entry in the Illini Electric Cooperative Essay Contest. I understand that this entry form entitles me to receive research materials furnished by IEC.

I agree that Illini Electric Cooperative will have exclusive rights to use the essay submitted for this contest.

Signature of Student

Parent's or Legal Guardian's Statement To Go On All-expense-paid Trip To Washington, D. C., & Springfield, IL.

We, the undersigned, give permission for _____ if (he or she) becomes a winner of Illini Electric Cooperative's 1981 Essay Contest, to take the expense-paid tour to Washington, D.C., and Springfield, IL, sponsored by Illini Electric Cooperative and the Association of Illinois Electric Cooperatives.

Illini Electric Cooperative will assume no liability for contestant while on the conducted tour.

signature of parent or guardian

mailing address

Farmers Union members told

Thompson pledges working farmer as Ag head

The next Illinois Director of Agriculture will be a working farmer," Governor James Thompson told those attending the Illinois Farmers Union annual meeting during February in Springfield. "I'm going to find the best person I can in the state," Thompson added, "and I guarantee you he'll be a working

farmer." The Governor added that the departure of John Block, former Director of Agriculture, has made the choice a difficult one, and that some of the staffers Block took with him to Washington might have merited consideration.

Block's quick selection to the

national post, heartily endorsed by the Farmers Union, boosted the state's prestige and given Illinois more influence, the Governor added.

"We've been leaders in the Illinois Agriculture Department — to the point where, in the decision of U. S. Agriculture Secretary, Block was by far the clear choice," he said.

While the governor's quest for a working farmer was good news for his audience, he also brought less happy tidings to the meeting.

"I'd like your support for increases in the gas, liquor and cigarette taxes and license plate fees," he told them. The gas tax hasn't been raised in ten years, and I don't know anything that hasn't gone up in ten years except the price of corn," he said.

"I've had calls for better roads and transportation in Illinois, and everybody knows they're going to have to be paid for, so I assume they're willing to go along with higher taxes. If you don't think we need a better system — or if you're not willing to pay for it — write me a letter. If you do, write your congressman."

Harold Dodd, a Loami farmer and president of the IFU, told his audience that the organization was proud of its successful efforts to have sales taxes removed from any farm equipment costing more than \$1,000. "This climaxes a four-year effort, he said, "and we were able to get an eight-percent upper limit freeze on farmland assessments.

"We are still very concerned with the exodus from the farm," he said, "and statistics show that nearly 2,200 farmers leave the land every week of the year."

Senator Alan Dixon addressed the meeting, congratulating the members on a legislative job well done. He warned of cuts in the federal budget, but added that they would be fair cuts, with every sector of the economy taking its share of the bitter medicine.

(Editor's note: Governor Thompson fulfilled the pledge made to Farmers Union, naming Morgan County farmer Larry Werries as Illinois Director of Agriculture on March 3.)

ILLINOIS RURAL ELECTRIC NEWS

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Size of Home _____ Sq. Ft. Central Duct-work _____ Yes _____ No
Clean Out Trep _____ Yes _____ No

Approximate winter utility bill:
Electric: \$ _____ per mo. LP Gas: \$ _____ per mo.
Fuel Oil: \$ _____ per mo. Natural Gas: \$ _____ per mo.
Wood Use Per Year _____ Cord _____ Rick

Fireplace:
Rock: _____ Brick: _____
Other: _____

Fireplace Dimensions:
Height _____ inches
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Front Width _____ inches
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(From front of opening to back of fire box.)

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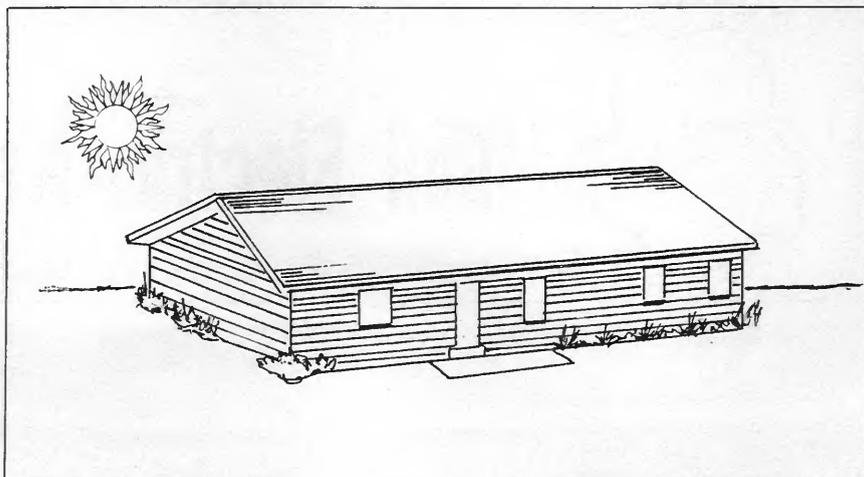
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**energy
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Building a new home? Take advantage of the sun and both winter and summer

Persons planning to build a new home can build in energy savings in a number of ways, including orientation of the structure in order to take advantage of the sun in both winter and summer.

Test and studies by builders, utilities, government agencies and colleges and universities have demonstrated that how you place your home will have a marked impact on the maximum heat gain from the sun in the winter and the minimum heat gain in the summer.

House orientation related to potential energy savings is primarily concerned with the mid-summer or mid-winter path of the sun across the house. It will also help you take advantage of or counter prevailing winds. Heat gain from solar radiation can enter the house by conduction through the walls and roof and/or by radiation through the windows. A high level of solar radiation can be converted into heat when it strikes absorbant material in the household through the windows. Therefore, in those areas where summer cooling is a problem the building should be oriented to keep the sun off the largest window area for the maximum of the summer season. For winter heating, certain areas of the house should be oriented to keep the sun on the largest window area for the maximum part of the winter season.

During the summer, the sun rises north of east and sets north of west

and at noon is at a high altitude. By contrast, in the winter the sun rises south of east and sets south of west and is at a relatively low altitude at noon. Therefore, a house oriented with its long axis running east and west will position the smallest wall area towards the rising and setting sun. In the winter, the sun altitude is much lower so the sun's rays pass under the roof overhang and through the windows to deliver radiant heat to the house. Ideal house orientation is where the long axis of the house runs due east and west and the wall having the maximum window area faces due south.

Building design factors which optimize energy efficiency are: (1) reduce summer wall exposure to the sun by minimizing the east or west wall area, (2) minimize the number of windows on the east and west walls and provide shading for the morning and/or afternoon summer sun, (3) roof overhand on the south wall should be

sufficient to shade the south-wall windows during the summer but not shade them to prevent winter-time radiation from entering, (4) windows should be eliminated from the north wall and only considered for light or cross ventilation for summer cooling, and (5) the roof should be slanted on the south side for proper placement of solar collecting equipment.

Of course, the location of a house cannot always be arranged to achieve optimum orientation as related to sun exposure and/or wind direction. Fortunately, existing homes that have a less than ideal house orientation can even achieve energy savings by carefully using landscaping methods or techniques. Maximum use of landscaping designs can produce energy saving on your heating and cooling load as much as 25 to 30 percent over an unshaded house. Next month we will discuss how landscaping your existing home may help you save energy.

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS



L. Dean Ward, seated left, is the newest member of the board of directors of Illini Electric Cooperative. Reelected to the board were Robert D. Clark, seated center, and Clarence C. Maddox, seated right. With the directors is Illini Manager Walter R. Smith.

L. Dean Ward is new Illini director

L. Dean Ward of Route 1, Champaign, was elected to a three-year term on the board of directors of Illini Electric Cooperative during the cooperative's 43rd meeting of members Thursday, February 26, in Champaign's Ramada Inn Convention Center. Two incumbent directors, Robert D. Clark of Route 1, Atwood, and Clarence C. Maddox of Route 1, Allerton, were reelected to three-year terms.

Ward replaces retired director Irvin E. Liestman, who did not seek reelection. Ward is a grain farmer and egg producer on his 230-acre farm in northwest Champaign County. Liestman served nine years as a director and was vice president at the

time of his retirement.

The director election was one of several business matters acted upon by members during the meeting. Members approved two bylaw amendments and rejected a third. One amendment receiving approval changed the deadline for petition nominations for director election. The old bylaw provision set the deadline for petitions 15 days prior to the annual meeting date. The amendment changed the number of days to 30 to allow for printing of the meeting notice and mailing to members well in advance of the annual meeting. The other approved bylaw amendment, relating to on-premises generation of electric power, was necessary to

comply with the federal Public Utility Regulatory Policies Act provisions dealing with small power production and cogeneration.

Rejected was an amendment to limit director tenure to three consecutive three-year terms and establish a three-year waiting period before a person could seek office following three consecutive terms. The proposal was made by Charles Goodall of Sidell, who proposed a similar amendment at the 1980 annual meeting. Members rejected the 1980 amendment, too.

Manager Walter R. Smith reported that system rebuilding work necessitated by the severe ice storm in the spring of 1978 and has been completed. "This was an



A large crowd turned out for the meeting, which included lunch.

approximately \$4-million project, almost \$900 per meter just to restore service reliability and safety," Smith said. "While it is comforting to know that your electric service is now much more reliable and secure, the higher rates necessary to repay the borrowed funds for the project are burdensome," he added.

Smith said unit bulk power costs increased 16.1 percent during 1980, and total bulk power costs accounted for 57 percent of total revenue. He commended the membership for cooperation in the "Condition 90" program to voluntarily reduce peak demand during the extremely hot days of summer 1980.

The report of President James F. Beatty of Philo dealt mainly with explanation of the bylaw amendment relating to changing the deadline for petition nominations for the director elections. Previously, the cooperative bylaws set the deadline for petition nominations only 15 days prior to the date of the annual meeting, Beatty said. The same bylaws called for official notice of the annual meeting to be delivered to members no less than 10 days before the meeting, allowing only five days for printing and mailing of the notices. The extra

15 days, Beatty said, will "assure that every member receives his or her notice not only on time but early enough for consideration of its contents before the meeting date."

The featured speaker was Louis Strong, president and general manager, Kentucky Association of Electric Cooperatives. Strong outlined a five-part program he considered vital if the nation is to meet its energy needs: (1) conserve liquid fuels, because the

real energy problem is a shortage of domestic petroleum, (2) increase domestic production of oil, (3) shift, where possible, from liquid fuels to other energy forms, (4) reach regulatory compromise for maximum benefit to both the environment and the consumer and (5) develop new technologies where economically possible.

Thomas H. Moore, executive vice president and general manager, Association of Illinois Electric Cooperatives (AIEC), addressed the meeting, explaining the role, function and history of the AIEC and its relationship with the electric cooperatives across Illinois.

The treasurer's report by Wilbur Gady of Sadorus indicated that total revenue for 1980 was \$4,183,365. Wholesale power cost the cooperative \$2,383,677 and interest expense was \$335,255. Net margins for the year were \$178,897.

Following the members' meeting, the board met in reorganizational session and elected Charles Cole of Rantoul as president. Other officers elected were: Robert D. Clark of Atwood, vice president; Herbert L. Aden of Newman, secretary, and G. Jay Stiehl of Tuscola, treasurer.



James F. Beatty.

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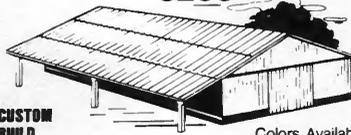
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How to write to your elected officials

When you write to an elected official, there are several generally accepted guidelines to ensure that your message is properly expressed. Keep your letter as brief and to the point as possible. If you are expressing your individual position, use your own stationery and your own words. Form letters and postcards have little impact. Type, if possible, or write legibly. Identify the subject clearly; if there is a House or Senate bill number, use it. Give your reason for writing, explaining how the issue will affect you, your family, your business or your community. If you have special credentials or knowledge, point it out. Be courteous, and remember that you are trying to

convince, not argue. Avoid name calling. If you have met the official, draw attention to that fact. Ask

the official to state his or her position on the issue; as a constituent, you are entitled to know.

Addressing your letter to U.S. and Illinois officials

President of the United States
 President Ronald Reagan
 The White House
 1600 Pennsylvania Avenue
 Washington, D. C. 20500

Dear Mr. President:

To write your Congressman:
 The Hon. _____
 U. S. House of Representatives
 Washington, D. C. 20515
 Dear Congressman _____:

United States Senators
 The Hon. Charles H. Percy
 Room 4321
 Dirksen Senate Office Building
 Washington, D. C. 20510

Dear Senator Percy:

The Hon. Alan J. Dixon
 Room 456
 Russell Senate Office Building
 Washington, D. C. 20510
 Dear Senator Dixon:

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Administration plan would raise--not lower--inflation

The White House, formalizing an Office of Management and Budget (OMB) scheme, on February 18, proposed to drastically change the way rural electric cooperatives are financed.

The plan would be "counter-productive to the good intentions of both President Reagan and OMB Director Stockman," stated the head of the National Rural Electric Cooperative Association (NRECA).

Robert D. Partridge, executive vice president of the association which represents more than 1,000 consumer-owned rural electric systems, pledged the support of the cooperatives to programs which would reduce inflation, but added, "The OMB proposals are inflationary."

Following a White House press briefing and the President's speech, Partridge said:

"We'll do our part in supporting efforts to improve the economy; however, where proposals raise rates to rural people without commensurate economic benefits to the country, we'll oppose them. All of the proposals advanced by the White House so far fall in the latter category."

"The effect of the proposals simply would be to raise interest rates without reducing the federal budget.

Rural electric systems — mostly consumer-owned cooperatives — serve more than 25 million people in 46 states.

Partridge went on to point out that if one proposed change was adopted, denying rural electric systems access to the Federal Financing Bank, the Treasury would lose approximately \$60-million in the next four years, which Treasury would otherwise receive for brokering the

REA guaranteed loans.

In addition to cooperatives having to pay higher interest on their loans, other suggested changes mean coops will have more difficulty in obtaining capital to meet their financing needs in the future, Partridge said.

It is clear, Partridge said, that the Administration's proposal for REA is "Good news for big bankers and bad news for rural Americans."

"I have asked for a meeting with the President," Partridge reported. "On September 19, 1980, then candidate Reagan sent us a letter stating his support for the rural electrification program and promising that if any changes were made he would seek our advice and counsel. I hope we hear from him soon.

"We want to make it clear that if all the REA loan programs were frozen today, it wouldn't save the government a dime. What it would do is drive up electric rates for rural consumers who, already on the average, pay more for electricity than their urban counterparts.

"A few statistics explain why. Today, rural electric systems average 4.6 consumers per mile of line, while investor-owned utilities average 35.8. Revenue per mile of line for the average rural electric system is \$2,887; for the power companies, \$36,652.

"That the Administration's plan represents a radical change in philosophy toward rural electric cooperatives is obvious. What is also obvious, despite all the high-flown rhetoric, is that they are determined to force still higher costs on rural electric cooperatives whose rates, because of the low-density areas served, are already running an average of 12 percent above those of other utilities. This plan penalizes rural America.

"Facts and figures show that today's REA loan program is working extremely well, meeting growing power needs of rural America and our agricultural economy, benefiting both rural and urban Americans. We simply will not stand for the erosion of a program which so demonstrably is basic to our nation's prosperity."



Kim Starwalt of rural Sadorus, a junior at Unity High School at Tolono, has won an expense-paid tour to Washington, D. C., in the Illini Electric Cooperative Youth to Washington Essay Contest. Besides participating in the Washington trip, she traveled to Springfield Wednesday, April 22, to take part in Illinois Rural Electric Youth Day activities. Kim pictured above with her parents, Mr. and Mrs. Ron Starwalt.

in the news bin



By Walter R. Smith
Manager

I believe most of us are in basic agreement with the new Administration's philosophy to reduce inflation and restore economic health and growth to our great society. If you will read Mr. Partridge's article on the opposite page carefully, I believe you'll understand that the OMB's proposed changes in the rural electrification program would be counterproductive to the Administration's goal of reducing inflation and interest rates. If OMB's scheme was adopted by the Congress, your cooperative's rates for electric service would have to reflect the resulting higher interest costs. In conferring with our Congressional delegation on this subject, I have learned that most of them would be responsive to grassroots requests to maintain the REA program in basically its present form.

So, on behalf of all members of Illini Electric Cooperative, I make this plea for you to write (in your own words) urging your Congressmen and Senators that we will do our part in supporting efforts to improve the economy, but oppose any changes

in the REA program that would result in increasing electric rates in the rural areas of the nation, which are already burdened with excessive energy costs. If every member will write, I'm confident that OMB's scheme can be moderated by Congress to preserve the viability of the rural electric cooperatives.

The names and addresses of those to whom you should write are as follows:

Honorable Charles H. Percy
United States Senator from Illinois
Room 4321
Dirksen Senate Office Building
Washington, D. C. 20510

Honorable Alan J. Dixon
United States Senator from Illinois
Room 456
Russell Senate Office Building
Washington, D. C. 20510

Honorable Edward R. Madigan
United States Representative
21st Illinois District
Room 2457
Rayburn House Office Building
Washington, D. C. 20515

Honorable Daniel B. Crane
United States Representative
22nd Illinois District
Room 115
Cannon House Office Building
Washington, D. C. 20515

Honorable Tom Corcoran
United States Representative
15th Illinois District
Room 1107
Longworth House Office Building
Washington, D. C. 20515

Reagan's promises differ from presidential actions

When he was still a candidate for President of the United States, Ronald Reagan sent a letter to the head of the National Rural Electric Cooperative Association (NRECA) Robert D. Partridge, outlining his support of the rural electrification program and promising that if any changes were considered in the program, he would seek rural electric leaders' advice and counsel. When it became obvious that changes were being considered, and there was no word from the White House, Partridge wrote the President

requesting a meeting.

As the President went before a joint session of Congress on February 18 with his economic proposals for the nation, including changes for the REA program, NRECA had no response from the President.

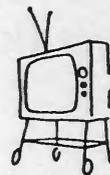
Excerpts from the text of the Reagan letter to Partridge follows:

"...Providing electricity in our rural areas has not only meant great productivity for American farmers but it has also decreased the burdens of rural women and made their lives

Some energy-saving tips

TV Sets

Don't play them to an empty room! Note: "instant-on" types are always using electricity.



Hot Water

Fix leaky faucets. Insulate heater, pipes. Set thermostat at 120° (140° if you have a dishwasher).



Illini Electric Cooperative

MAILING ADDRESS--P. O. Box 637, Champaign, Illinois. Phone 352-5241.

HEADQUARTERS LOCATION--1605 South Neil Street.

OFFICE HOURS-7:30 A.M. to 4 P.M. Monday through Friday--closed all day Saturday, Sunday and Holidays.

HOLIDAYS OBSERVED-- New Year's Day, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving and Christmas.

REPORTING SERVICE INTERRUPTIONS,--Broken Poles and Fallen Wires--Phone 352-5241--day or night--7 days a week.

easier.

"I believe that financing should be made available through REA insured and guaranteed loan programs to enable you to continue providing electricity to meet growth in rural areas. If at any time in my administration, changes become necessary in the rural electric program, those changes will be made with the advice and counsel of your rural electric leadership, to provide for the best interest of rural America and the nation..."

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Chicago, Ill.—A free offer of special interest to those who have trouble hearing has been announced by Beltone. A tiny modern hearing aid often can help. A non-operating model of one of the smallest Beltone aids of its kind will be given absolutely free to anyone requesting it.

Send for this non-operating model, put it on and wear it in the privacy of your own home. It is not a real hearing aid, but will show you how tiny hearing help can be, and it's yours to keep free. The actual aid weighs less than a fourth of an ounce, and it's all at ear level, in one unit.

These models are free, so we suggest you write for yours now. Again, we repeat, there is no cost, and certainly no obligation. Thousands have already been mailed, so write today to Dept. 4347 Beltone Electronics, 4201 W. Victoria St., Chicago, Ill. 60646.

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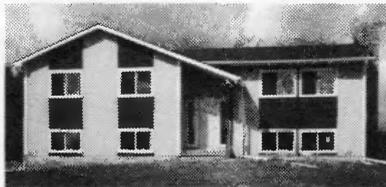
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FIRM OFFERS AFFORDABLE SOLUTION FOR TODAY'S HOME FINANCING



Most families in need of credit to build a home can still get it, says an official of Curtis Homes, a builder of complete-it-yourself custom homes in this area.

Curtis, according to Ted Sterling, representative, has access to millions of dollars to finance its homes. The Curtis Homes Assistance Money Plan (CHAMP) was created to enable home buyers willing to contribute their own labor to obtain easy credit terms with below market interest rates, no big down payment and low monthly payments during the construction period. Since Curtis is not a bank, the company sets its own liberal credit standards.

Curtis also provides assistance in obtaining long-term financing for its customers.



THOUSANDS CAN BE SAVED

The official outlined other features of the Curtis program for helping people low on cash and high in ambition to get a much-needed home:

- Curtis carpenters do the heavy framing on the purchaser's lot and foundation. The lot may not have to be fully paid for.

- Purchasers may choose from one of 17 basic plans or build a custom home from their own plans.
- Finishing materials and supplies are furnished by Curtis.
- The purchaser is responsible for completing the home and thus can save thousands of dollars in professional labor and middleman profits. Detailed step-by-step instructions are supplied by Curtis. If desired, some or all of the finishing work may be sub-contracted.
- Monthly installment payments are delayed six months after construction starts to help the owner avoid two shelter payments.

“Our entire approach has been to help solve the high cost of housing problems for families with the energy and ambition to make a work investment. We have the financial resources to assist many more families to achieve their dream home now,” the representative added.

For full details and free color catalog, call locally 309/692-7268, or toll free 1-800-358-9150, or mail the coupon today.

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I plan to do all or part of the finishing.
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however, you obtain more cooling capacity and you reduce your operating cost and obtain more for your electric dollar, year after year. The more efficiently and wisely you use energy, the less energy you will waste, and as a result you will save more money. For example, an air conditioner with a BTU rating of 8,000 and an EER of 8 will cost about 33 percent less to operate than a model with an EER of 6. For comparative purposes, check the chart on this page entitled "Annual Operating Costs" to see how EER ratings affect operating costs for various sizes of room air-conditioners.

Residential room air conditioners are increasing in popularity and come in a number of different styles. These units can be installed in sash or casement windows or even through the wall. In selecting a window unit, be certain that you are able to describe your window style and have the dimensions for your air conditioning dealer. Window units are designed to cool individual areas and are easy to install and are an economical way to cool single rooms.

What about central air conditioning? A central air conditioner cools, dehumidifies and filters the air for your entire house. An efficient electronic air cleaner in combination with your central air conditioner can reduce dust, dirt, pollen, smoke and other air pollutants by electrostatic precipitation. This may also be beneficial to those with allergies.

An air conditioner should be kept clean and in good working condition. If your air conditioner is dirty, it has to work harder and as a result uses much more energy. Close attention should be given to ensuring that the filters are clean so your air conditioner can work at maximum efficiency. A good periodic cleaning will ensure a good working condition for the air conditioner, and will help save you money on its operating costs. It is always an excellent idea to check your owner's manual for specific cleaning and maintenance instructions.

Other tips which may help you reduce your cooling costs are as follows: Tighten up your home with insulation and weather stripping to help reduce cooling costs and also

heating costs. Extra insulation reduces the "heat gain" in the summer so your air conditioner works less. Block out the sun by drawing drapes. Locate the air conditioner on the shady side of your house. Eliminate any obstructions to the air flow around your air conditioner by trimming bushes, shrubbery and keep leaves and grass and any other obstacles away which may hinder operation.

During the summer set your thermostat controls at the highest setting which is reasonably

comfortable. The American Society of Heating, Refrigeration and Air Conditioning Engineers have found that 78 degrees F. is a comfortable temperature for most people during the summer. Each degree setting higher on your air conditioner can save approximately four percent on your operation cost.

For additional or more specific information on determining the cooling capacity needed by your air conditioner or other related items, contact your local electric cooperative.

Protecting a valuable asset

You've insured your house, your car . . . probably even your stereo and television set. But, did you ever stop to think about your most valuable asset? You depend on good health in order to work and bring home your family's income. Isn't that an asset also worth protecting?

The financial security and all the things you've worked so hard for can be lost when an unexpected sickness or injury strikes. Think about it. If you were struck by a heart attack (or some other serious illness or accident), could you pay your medical bills and still manage to make ends meet without your income?

That's why most **Illinois Rural Electric Co-operatives and Telephone Co-operatives** participate in Mutual of Omaha Association Group plans.

Besides providing members with important protection, these plans can now be purchased at ASSOCIATION GROUP RATES.

Disability Income Protection — Can pay you a regular monthly check when a covered accident or illness keeps you from working.

Hospital Coverage — Helps you meet today's ever-rising costs of medical care.

Cancer Cost Supplement — Supplies extra coverage to help you afford the expensive cost of cancer treatment.

Mutual Care — "Easy-to-read" coverage that works with Medicare to provide security to those 65 and over.

Major Medical Protection — Can help cover medical expenses, even if a catastrophic illness strikes.

Life Insurance is also available, both as term and permanent insurance (cash value) from our affiliate, United of Omaha.

So, if you and your co-operative are not enrolled in these plans, let one of our representatives fill you in on the details.

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High Line News

ILLINOIS RURAL ELECTRIC CO.

217-742-3128

WINCHESTER, ILLINOIS



Across the Manager's Desk

by Robert E. Gant

2..4.. The Show Trio

Two-For-The Show Trio with their fast pace fashion will appear at 9:30 a.m., during the Cooperative's Annual Meeting, Friday, July 17, 1981. The exciting group has been together since 1975, during their college days.

Since that time they have won numerous talent contests, including their appearance on The Gong Show — Hollywood, California, which they achieved a perfect score of 30.

Totally different in personality, looks, and as solo singers, they blend their voices into smooth harmony. The trio is versatile in their vocal numbers and instruments including keyboards, guitar and banjo. The repertoire of music and fun involves a wide range of modern sounds that features the finest in close harmony and over forty crazy pantomimes of Spike Jones and Ray Stevens material.

Recently the trip has been a warm up act for such stars as: Marty Robbins, Christy Lane, Razzie Bailey and Conway Twitty.

Clay & Sally Hart

Headlining the Friday afternoon stage entertainment will be Clay and Sally Hart, nationally known from their many years on the popular Lawrence Welk TV Show. The popular duo will perform at 1:15 p.m.

Clay Hart joined the Welk Show in 1969, filling the country music spot left vacant by Lynn Anderson.

Sally and her partner Sandi sang on the Welk Show for six years filling the spot left vacant by the Lennon Sisters.

Clay and Sally were married in 1974 and since then have put together one of the most entertaining road shows in the industry. With their great band, the Rounders, they have blended their individual talents into one of the most energetic, colorful, and appealing stage performances in the contemporary and country markets.

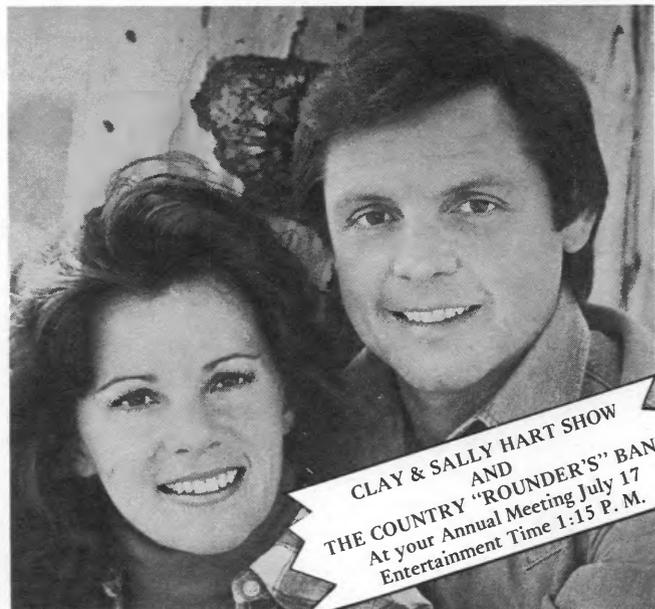
A few recent highlights include opening for Red Skelton, Alan King and appearance on the Dinah Shore Show and Jim Nabors Show.

Plan Now to Attend Illinois Rural Electric Co.'s Annual Meeting

Friday, July 17
—Scott County 4-H Fairgrounds—
Winchester



2 . 4 . . THE SHOW TRIO
At your Annual Meeting July 17
Entertainment Time 9:30 A. M.



CLAY & SALLY HART SHOW
AND
THE COUNTRY "ROUNDER'S" BAND
At your Annual Meeting July 17
Entertainment Time 1:15 P. M.

Your invitation to the 43rd annual meeting

Dear Member:

Your Board of Directors joins me in extending to you an invitation to attend our big 43rd Annual Meeting and Electrical Fair to be held at the Scott County 4-H Fair Association Building, Winchester, starting at 9:30 a.m., D.S.T., July 17, 1981.

There will be country and western entertainment on stage throughout the day, in which our members have always displayed much interest.

We hope that each of you will find time to come to our Annual Meeting this year, so that by your interest and cooperation we directors, who have tried in the past year to guide your cooperative, will find that you are backing us up. It will be a chance to meet old friends and acquaintances and, in general, have a good time.

Around July 8, you will receive the program of the meeting. On the back cover, you'll find a registration card which will save you time and possibly eliminate standing in line to register Annual Meeting Day.

We're hoping to see you!



V. T. Parks, President

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Business Meeting:

(In the Morning)
Elections of Directors
Progress Reports

Fairgrounds Exhibits

Farm Automation Equipment
Grain Drying Equipment
Material Handling Equipment
Heating - Cooling Systems
Home Appliance & Entertainment Equipment

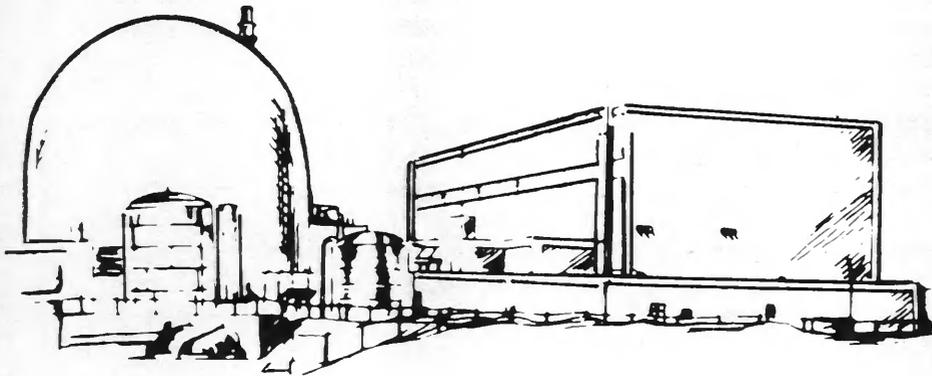
TWELVE (12) MEMBERS WILL BE AWARDED \$25.00 CREDIT ON THEIR ELECTRIC BILLS.

Names will be drawn from those members registered at the Annual Meeting.

Six (6) drawings will be made at 9:30 A. M., just ahead of the entertainment by (2 . . 4 . . The Show Trio)

Six (6) drawings will be made immediately after the entertainment by (Clay & Sally Hart Show) at 2:15 P.M.

LUNCH - available on the grounds



Clinton Power Station

Regulatory delays mean increased consumer costs

In Mid-April the Nuclear Regulatory Commission (NRC) conducted a special pre-hearing conference in Champaign to allow presentation by the Prairie Alliance, an anti-nuclear group, of a revised petition for hearing on the issuance of an operating license for Illinois Power Company's Clinton Power Station. As of press time, no decision had been made by the NRC's Atomic Safety and Licensing Board.

During the conference, representatives of two Illinois electric generation and transmission cooperatives (G&T's) — made up of 22 of the state's electric distribution cooperatives— presented statements as to the costs of any further delays in the construction and licensing of the Clinton station. The two G&T's, one made up of 15 cooperatives and the other of seven, own 20 percent of the Clinton station.

Lester W. Aeilts, manager of Western Illinois Electrical Coop., Carthage, and president of the board of directors of Western Illinois Power Cooperative (WIPCO), explained to the Licensing Board that some 44,000 farms, homes and businesses in a large area of western Illinois depend on WIPCO for electrical requirements.

WIPCO owns 9.5 percent of the plant.

Aeilts said a delay in granting the license to operate Clinton would increase costs for WIPCO due to the interest WIPCO must pay and subsequently charge its member cooperatives as construction costs on its investment in the plant. Aeilts noted that a one-month delay in commercial operation will increase WIPCO's cost of interest during construction by \$1.97-million. In addition, Aeilts said, "there will be on-going costs related to maintaining the plant and operations capacity, inflation, etc. These easily could run \$1-million per month."

The one-month interest costs for the delay could cost each of the 44,000 member-consumers of WIPCO cooperatives up to \$50 per month. Aeilts said. The second category of costs aside from interest could add about \$23 per month, he added.

Walter R. Smith, manager of Illini Electric Cooperative, Champaign, and president of the board of directors of Soyland Power Cooperative, presented the Licensing Board with similar costs which would result from further delays in licensing and commercial operation for the more than 100,000 member-owners of the 15

distribution cooperatives which made up Soyland, which owns 10.5 percent.

Donald B. Bringman, general manager of WIPCO, in a report prepared for the WIPCO board in late winter but not a part of the NRC presentation cited a number of studies conducted to determine the effect of delay in completion of Clinton and the resulting costs increases. Future costs were also studied.

"It is estimated that Clinton Unit One will be complete and in commercial operation in September 1983," Bringman said. This represents a three-month delay from estimates made in November 1980, he added. He said three principal factors have combined to slow construction progress and escalate costs: inflation, revisions required by the NRC, and effects from Three Mile Island.

The WIPCO report, which covers years 1981 to 1990, is based on several theoretical situations, three which include Clinton being completed at three various dates, one which provides for meeting requirements by means of purchased power without Clinton and a fifth alternative of construction of a fossil-fired plant.

Conclusions of the studies indicate:

1. Although the kilowatt-hour costs resulting from a large-capacity plant are somewhat higher in initial years, the large-plant costs tend to level off in a short period of time, while the costs of the smaller plant continue to increase and surpass those of the large-capacity plant.

2. Delays in completion of the Clinton plant will increase costs to consumers.

3. As in the case of the comparisons made in item No. 1 previously, completion of Clinton or installation of a fossil fuel fired station will result in higher kilowatt-hour costs during the first years of operation, but costs with such facilities after three or four years will be less than with addition of smaller combustion gas turbines and continued purchase of power.

Early completion of Clinton will result in lower power costs after 1987 than costs associated with increase power purchases and installation of combustion gas turbines, the report concluded.

for the project. "Louisian was very forceful and determined and we found out later that she put a lot of her own money into the show."

"Our approach was one of conservation," says Mamer. "it was no gingerbread, high-power promotion deal, because in the 30s nobody had any money and during the war there were no materials for appliances. We had to show people how to save energy, money and time."

So for a year-and-a-half, Mamer lived and worked out of the trailer.

Mamer and Teare would arrive in town a few days early to meet with the co-op board members and get them to support the show with money and labor. Ten to 12 hours would be spent setting up huge circus-style canvas tents, often in the middle of a farmer's pasture. In the evening, Mamer would demonstrate lighting equipment, telling her audience which

lamps were best for cooking or reading. She had written a brochure, "Good Lighting at Low Cost," to distribute among the co-op members and their neighbors. Similar demonstrations would be held the next day for laundry equipment, kitchen appliances and farm equipment. As many as 500 to 800 people came to these early shows, under tents, or in community halls in the winter, to see how these gadgets might "relieve them of the drudgery of farm work and lengthen their lives."

Always busy, Mamer during her working years thrived on only four or five hours sleep a day. Her interests range from rural sociology to electrical engineering to lapidary, the art of cutting gems which she shares with her husband, who is also retired. On the farm tour she lectured on electric conservation and she still practices it in her home, preferring small table top

appliances — a roaster, a toaster oven, well cookers and electric frying pans — to a full-size stove and oven.

Mamer's home is packed with other reminders of her REA days. Bookshelves are crowded with well-thumbed volumes and vases and tiny wooden boxes — gifts from foreign officials she visited, exchanging ideas about electricity in remote areas. The large, hand-cut gems recall her demonstrations of gem cutting as a way for farmers to earn additional income.

Mamer went back to her office after retiring to delegate handling of several history-packed file folders to member of the staff, files which she hadn't had the time to organize until now. "Twice my job was abolished by Republican administrations, in 1953 and '72. I didn't have time to clean out my desk before they moved us utilization people, so I just kept collecting," she said.

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS



**is
here!**

CONDITION 90 . . . It is a critical period on summer weekdays when the temperature soars to 90 degrees or higher. Members of Illini Electric Cooperative are asked to limit the use of heavy electric appliances to the coolest parts of those days: before 10 a.m. and after 10 p.m. Between those times is when consumers demand the greatest amount of electricity, so shifting use of major electric appliances outside of that period helps lower the cooperative's expensive peak demand.

SHIFTING APPLIANCE USE HELPS LOWER COSTS AND REDUCES OIL IMPORTS . . . During periods of peak electricity demand, that warmest part of **CONDITION 90** weekdays, Illini Electric Cooperative's power supplier must operate expensive peaking generators. These are less efficient coal-fired and oil-fired generating units held in reserve to meet peak demand. Use of our petroleum resources for boiler fuel in those oil-fired units, besides being much more costly than coal, increases oil imports and contributes to our nation's dependence on unstable foreign governments. By timing your use of heavy appliances to avoid the high demand period on days when the mercury is at 90 degrees or higher, you will help Illini Electric lower the cost of providing you power.

YOU CAN HELP . . . Be alert for **CONDITION 90** days this summer. On any weekday that the condition is expected to exist, limit your use of high-demand, heat-producing appliances between 10 a.m. and 10 p.m. Schedule your cooking, clothes washing and drying and dish washing for the early morning and late evening hours.

LET'S COOPERATE . . . With your help in observing **CONDITION 90** guidelines, Illini Electric Cooperative can lower peak demand, reduce electricity costs and save vital petroleum resources.

Think ahead

By **MARY B. FOLEY**
Office Manager

Electricity is one of the few things we use before we pay for it. We pay for a loaf of bread before we make sandwiches; we buy clothes before we wear them. On some things we make installment payments while we use them, but we know how much and how long payments will be.

Electricity is different. When the bill comes, the power has already been used. If we bought more than we meant to, it's too late to do anything about it — we can't put some back.

We all need electricity to maintain our homes and lifestyles. It's a necessity, but it is almost too convenient. It works for us even while we're away from home — keeping the house comfortably warm or cool, heating water, and cooling food. It

is so convenient, so automatic that we may forget all those kilowatt-hours necessary to keep this quiet, efficient servant working. The key to using electric energy efficiently is awareness. Awareness that we are using electricity constantly and sometimes needlessly. Awareness that the meter is diligently measuring our energy usage, whether it is used wisely or wasted. And awareness that today's electricity usage will show up on next month's electric bill.

Illinois coal — the dirty kid on the energy block, shunned and scorned for its high-sulfur content — was given a boost recently with the announcement of construction plans for a power plant that will use 1.25 million tons of the Illinois mineral annually.

The \$500-million plant will employ about 1,500 construction workers over four years and provide permanent employment for about 150 people. Construction is expected to begin in 1983.

U. S. Rep. Paul Findley, R-Pittsfield, announced in Washington that the Decatur-based Soyland Power Cooperative plans to build a coal-fired power plant in Pike County with federal loans the congressman hopes to help secure.

"This is the finest thing that has happened in my district for a long time," Findley said.

Like other members of the Illinois congressional delegation, Findley has been an outspoken proponent of specially equipped power plants that can burn high-sulfur coal.

Findley said the cooperative plans to build a 450-megawatt plant on a 1,000-acre site off of U. S. 36 on the Illinois River that will include "the latest types of scrubbers and cooling towers." Illini Electric Cooperative is one of 15 electric cooperatives which make up Soyland.

He said the proposed plant is proof that the state's vast coal reserves can be a valuable commodity despite

stiff federal air pollution controls. Coal for the project will be mined from Peabody Coal mining operations near New Athens. Findley said that Soyland plans to contract over the next 35 years for \$1-billion worth of Illinois coal.

Soyland Power, which currently owns no power plants, serves 15 of the state's 27 electric cooperatives through 26,500 miles of distribution lines in

central and Southern Illinois.

Soyland, which serves about 100,000 customers, estimates it will need 700 megawatts of generating power by 1987. The cooperative owns a 10.5-percent share of the nuclear Clinton Power Station in DeWitt County.

Findley said the Pike county site, near Florence, was considered the "preferred site" by Soyland.

Look twice at ceramic insulation

Ceramic insulation, promoted in some states as a product far superior to other insulation for home use, doesn't have energy experts convinced of its performance ability.

Manufacturers claim three inches of the granular, white insulation, when poured in place properly, will cut heat transfer almost completely. Achieving such insulation efficiency would make a high R-value but latest manufacturer's literature about ceramic insulation doesn't state an R-value. (R is a measure of resistance to heat flow. The higher the R-value, the better for insulation.)

The U. S. Department of Energy's (DOE) Architectural and Engineering Systems Branch was skeptical about the "near-zero heat transfer" claim. At the DOE's request, tests were run recently by the Oak Ridge, Tenn., National Laboratory.

Oak Ridge did have a positive comment, pointing out that ceramic

insulation is "an acceptable insulation with many favorable properties, including fire resistance."

The Oak Ridge tests resulted in an R-value of 1.3 per inch for the loose-fill ceramic insulation. By comparison, loose-fill, batt or blanket insulation used in many homes now has an R-value of more than three per inch. Engineers say installing such insulation three inches thick, as recommended for the ceramic product, would not result in near-complete stoppage of heat transfer.

The FTC requires all home insulation to have a standard test to determine its R-value. Manufacturers must label packages of insulation with information about R-value, thickness and coverage area. If consumers won't see the package before installation, retailers must provide a fact sheet giving information on the product's effectiveness.

(Rural Kentuckian February 1981)

Touch controls may be affected by on-site generation

"Touch" controls on appliances are extremely sensitive to voltage fluctuations. Under normal operating conditions, the line voltage of power suppliers is under control of voltage regulators, substations and on lines throughout the area they serve.

The biggest problem is caused when members attempt to serve themselves through their own on-site electrical power generation. Home generation normally does not have voltage controllers. For example, a large generator which is turned by the power take-off shaft of a tractor starts generating whenever the rotor starts

turning. The voltage starts low and then increases until the speed of the shaft reaches the point where the voltage is at the level desired by the operator. As electrical load is turned on, the speed declines and so does the voltage. If the speed is picked up to bring up the voltage and then the electrical load goes off, the voltage goes high and can damage equipment connected to it. This can happen with any home generation equipment which does not have automatic voltage regulation. The electrical control system of the "Touch" control appliance does not even need to be

turned on for the controls to be damaged.

Many cooking units have the "Touch" control system. Similar control systems will soon be available for washers, dryers and other equipment.

So if you have home generation, even for emergencies, be sure to disconnect the power circuits to all appliances with "Touch" control systems if you plan to do your own generation.

It is advisable to also disconnect these circuits during a lightning storm.



James Walsh, second from left, discusses his farm operation with the visitors.

Foreign visitors tour Wayne-White area

Wayne-White Counties Electric Cooperative was host during the last week of May to four officials representing rural electrification programs in Bangladesh and Egypt. During their visit in Illinois, they studied the organization and operation of the Fairfield-based electric cooperative, toured farming operations in the cooperative's service area, examined cooperative substation and transmission equipment and construction, visited the Mapco Coal Company construction site, toured the Dowzer Transformer plant in Mt. Vernon and spent a day in Springfield.

The visitors were Fanzi H. El Alfi and Mohamed Shams El Din Abo Shady of Egypt and Mohammad Abdul Wadud and A. S. F. R. Khan of

Bangladesh. A former employee of Wayne-White, Ivan Holler, is on overseas assignment assisting in Bangladesh with rural electrification.

Their visit to the United States was coordinated by the National Rural Electric Cooperative Association (NRECA). Wayne-White Manager Bill Endicott was host for the foreign visitors during their five-day stay.

Included among their visits to area farms were trips to the grain and cattle operation of James T. Walsh

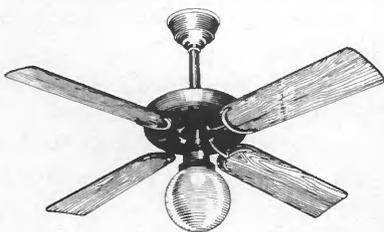
of Carmi, and to the fertilizer business and farm of Robert D. Glover of Mt. Erie. Walsh and Glover are directors of Wayne-White. Of extreme importance to the foreign visitors was the extent of farm electrification in this country. While at the Glover farm they saw a silo-to-feed-bunker cattle feeding operation which featured a fully mechanized mixing and feed distribution system.

One full day was spent with Bill Bennett, system engineer, examining



Manager Bill Endicott, left, helps demonstrate equipment.

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an operator, no electric shock would have occurred. Usually, onlookers want to see the whole thing again. Lindsey obliges, after resetting the GFI.

The National Electrical Code (NEC) calls for GFI installation in a number of instances, including bathrooms, garages, outside outlets and around swimming pools.

The reasons for such NEC requirements are obvious. Many small electrical appliances — hair dryers, razors, tooth brushes, etc. — are used in the bathroom. While users are cautioned against operation of such devices near or over a sink or tub of water, it is essential that the GFI be used to prevent any accidental entry of a connected appliance into water.

The requirements for garages and outdoor outlets apply mainly for use of tools and lawn care equipment.

NEC provisions apply to conventional and mobile homes. Local codes may vary, so persons building a new home should be sure they use a qualified electrician. Your electric cooperative can assist you with information about the GFI. The GFI can be added to existing homes, too. Again, consult qualified people.

Lindsey points out a number of tips for those interested in installing and using the GFI. They must be installed properly, he says. The GFI which is to replace a conventional breaker requires special connection to the neutral conductor, to provide for sensing of the neutral amperage. The unit should be tested periodically, about every 30 days. Be sure the GFI matches your breaker equipment, and have a qualified electrician do the work.

In the event a home is equipped with a fuse panel, a subfeed can be built off the fuse panel to a new breaker panel for the circuit you wish to place on a GFI.

In addition to the breaker-type GFI, there are two other types. One is the outlet type, which fits into a regular receptacle outlet box, replacing the regular duplex receptacle. The other is the portable type, which can be moved from place to place and plugs into any existing 110-120-volt receptacle outlet.

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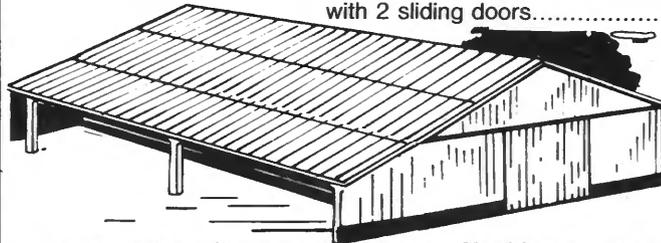
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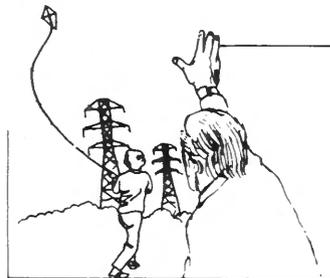
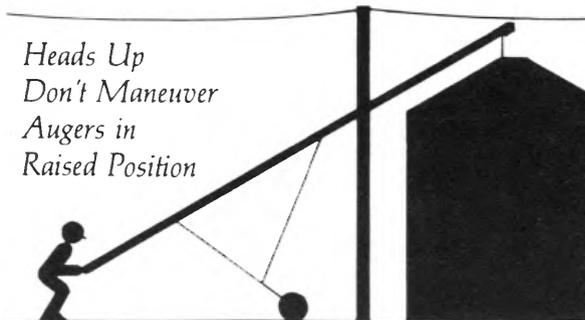
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS



Lights blinking?

The OCR is on the job

Have you ever noticed your lights blinking during a storm? We know some members have because they've asked questions about it in the past. Well, those blinking lights mean that the oil circuit recloser (OCR) near your house is doing its job.

The cooperative uses OCR's to help maintain electrical power during a storm. The precision mechanical switching contacts and hydraulic pump action that allows these sectionalizing devices to open and reclose are what maintain your electric service and prevents an inestimable number of line outages.

For example, when a tree limb falls on the line, the OCR opens the circuit and momentarily causes your lights to go out. Then if the tree limb falls clear of the line (or if the limb is small and burns in two) and the line is not damaged, the OCR recloses the circuit and your lights come on again. The OCR will perform this opening-closing operation up to three times in succession. But if the tree limb remains on the line, the OCR will protect the line, other hardware and equipment by safely keeping the circuit open. Then we must send out a crew to locate and correct the problem and restore service.

So if you notice your lights blinking on and off during a storm, you'll know that your OCR is on the job and working properly. Also keep in mind that if you give us permission to cut and trim trees, you will help eliminate some of the blinking when storms hit our area.

The energized vehicle

If a tractor or piece of equipment hitched to the tractor should contact an overhead line, the tractor and the equipment become energized. However, the driver of the tractor and any riders are usually safe from electrocution as long as they remain on the unit. Rubber tires may partially insulate the ground, possibly preventing completion of a good electric circuit.

Should you find yourself in this situation, or witness someone else in a similar circumstance, be sure that no attempt is made to leave the tractor until help arrives from your cooperative or a qualified rescue squad.

Be sure to keep other persons from contacting any part of an energized tractor or equipment. Avoid touching the tractor with any metal or other conductive object.

If unusual circumstances demand immediate evacuation from the tractor, the individual must jump clear of the energized unit, making sure no part of the body contacts the ground and the unit at the same time. Be especially aware of parts of the equipment extending away from the main unit. Even a momentary contact, making a circuit to ground, can mean a fatal injury. These same precautions apply to an energized automobile.

'Touch' controls sensitive to voltage fluctuations

"Touch" controls on appliances are extremely sensitive to voltage fluctuations. Under normal operating conditions, the line voltage of power suppliers is under control of voltage regulators, substations and on lines throughout the area they serve.

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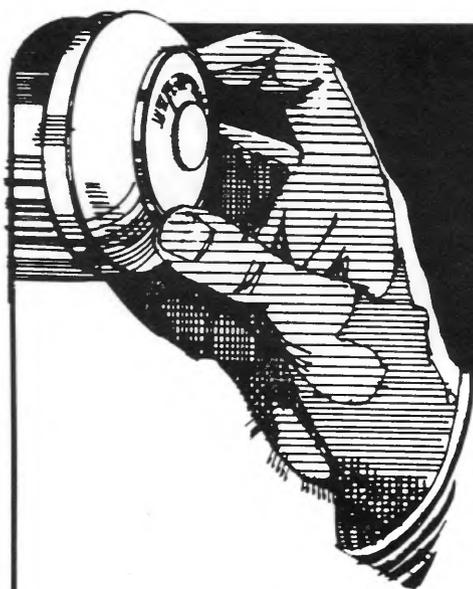
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It is advisable to also disconnect these circuits during a lightning storm.



How to cut the cost of cooling your home

When summer heat strikes, do you feel as though your "get-up-and-go" gets up and goes? Then here's news for you! You can get maximum comfort . . . for minimum cost by using some "cold facts."

But, is it worth the effort to keep the house cool? Yes, when temperatures stay in the comfort range you automatically feel better, work better and look better. Plus "Summer-izing" your home is a good way to save money, save energy and save the environment.

Here are eight ways to "cool-proof" your home:

Prevent air leaks to keep cool air inside.

1. weatherstrip doors and windows
2. button up — close doors and windows from morning to evening
3. use storm doors and windows
4. plan your "warm activities," do laundry and dish-washing in off peak hours . . . early morning or late evening
5. turn off lights
6. use freezer and refrigerator efficiently — open these appliances as little as possible

7. close off "hot spots" when kitchen, water heater and laundry areas are behind closed doors — other rooms stay cooler
8. use exhaust fan in kitchen and bath

Here are a few tips for saving on "cool bills":

1. inspect air filter often
2. don't over cool
3. keep condenser clean
4. follow a service schedule — regular lubrication is essential. Check fan belt and have a professional check your equipment every other year
5. place window units carefully

When it comes to summer-izing your home, planning really pays.

1. trees shading bedroom window
2. utility room exhaust fans
3. light-colored roofing
4. fireplace flue closed when not in use
5. attic vent, fan
6. awning shading southern and western exposure
7. screened porch
8. outdoor cooking area
9. blinds or light drapes at windows
10. doors and windows weatherstripped

So keep your cool this summer and for all summers ahead and remember many of these tips that keep your home cooler in the warm weather will also help keep it warmer in the cool weather.

Water-to-air heat pumps Innovative systems use ground water and reservoir

Improved efficiency in heating and cooling was of primary interest for Illinois electric cooperative power use/member service representatives during a June conference in Quincy, and innovative heat pump systems in two

western Illinois homes provided on-site examination opportunities for the group.

Some 30 participants in the conference visited the homes of Donald I. Kerr, Jr., of Warsaw and

Eugene Rabe of Mendon to see installed water-to-air heat pumps in operation.

Both systems represent an effort by the homeowner to take advantage of their particular situation to save energy and money.

"We decided to go with the water-to-air heat pump when we built our new house," Rabe told the group, "because we had to build a fairly large reservoir anyway. We needed it for our livestock and, since we live in the country, we needed it for fire protection, too. I talked to Marvin Hall, our area agriculture advisor, and he said it just made sense to use it for our heat pump, since it was there."

Rabe's reservoir holds about 28,000 gallons of water, and the heat pump uses and returns 4.5 gallons a minute. Water goes into the pump at 56 degrees F. and comes out at 42 degrees, Rabe says. The heat pump used 5,050 kilowatt-hours from January through May this year, and until he shut it down to clean the reservoir. The Rabes heat about 3,700 square feet in their three-year-old home.

Kerr also talked to Hall before choosing a heating system, and he talked to others, too. He visited with Ken Kober, staff assistant at Western Illinois Electrical Coop., Carthage, and visited an energy fair in Quincy.

"We're down in the Mississippi River bottoms," Kerr says, "and we get water at 14 feet with a sand point and the supply is steady, so we decided to use a water-to-air heat pump for that reason. It's worked well for us."

In addition to the heat pump, Kerr took some additional steps to save energy by building an extraordinarily well insulated home. After studying construction techniques of the "Arkansas Home," which features two-by-six studs on 24-inch centers, and the University of Illinois' "Lo-Cal

Protecting a valuable asset

You've insured your house, your car . . . probably even your stereo and television set. But, did you ever stop to think about your most valuable asset? You depend on good health in order to work and bring home your family's income. Isn't that an asset also worth protecting?

The financial security and all the things you've worked so hard for can be lost when an unexpected sickness or injury strikes. Think about it. If you were struck by a heart attack (or some other serious illness or accident), could you pay your medical bills and still manage to make ends meet without your income?

That's why most Illinois Rural Electric Co-operatives and Telephone Co-operatives participate in Mutual of Omaha Association Group plans.

Besides providing members with important protection, these plans can now be purchased at ASSOCIATION GROUP RATES.

Disability Income Protection — Can pay you a regular monthly check when a covered accident or illness keeps you from working.

Hospital Coverage — Helps you meet today's ever-rising costs of medical care.

Cancer Cost Supplement — Supplies extra coverage to help you afford the expensive cost of cancer treatment.

Mutual Care — "Easy-to-read" coverage that works with Medicare to provide security to those 65 and over.

Major Medical Protection — Can help cover medical expenses, even if a catastrophic illness strikes.

Life Insurance is also available, both as term and permanent insurance (cash value) from our affiliate, United of Omaha.

So, if you and your co-operative are not enrolled in these plans, let one of our representatives fill you in on the details.

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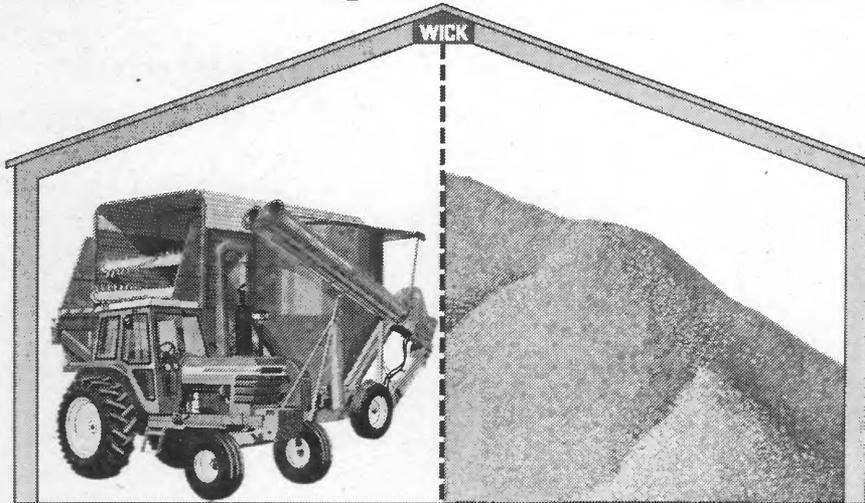
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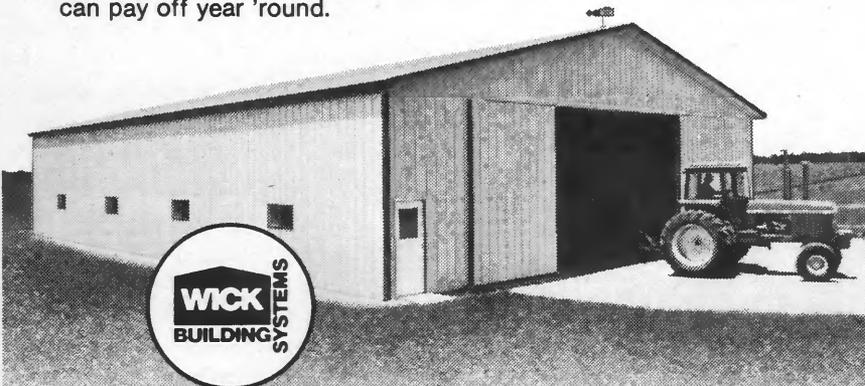
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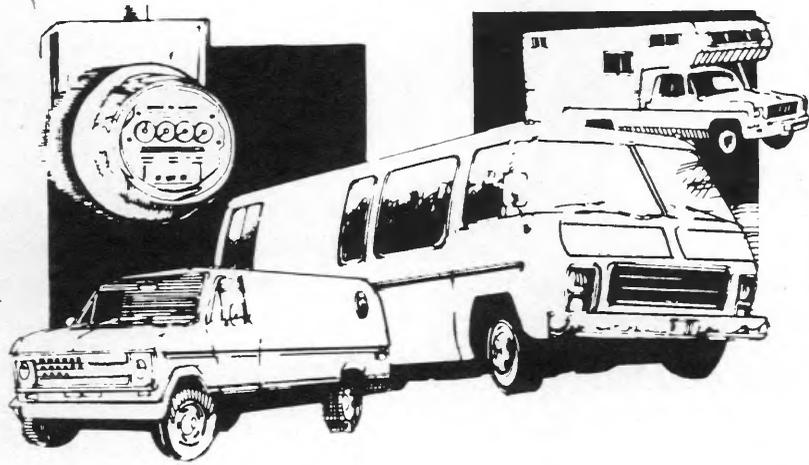
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Electricity doesn't take a vacation



When you are relaxing during your vacation, your electric meter isn't. Many members assume that when they are on vacation, or simply away from home at work, there isn't any electricity used in the home. But that's not true. Many major home appliances, such as the water heater and refrigerator, continue to operate on regular cycles.

So if you want to give your electric meter a break when you take a vacation this year, turn off all nonessential appliances and follow these steps before leaving.

- Turn off your water heater. If you don't it will continue to keep your water hot although there won't be anyone there to use it. Note that it will take several hours for the water heater to bring the water temperature up to the desired level after you return home.
- If you have more than one refrigerator or freezer, put all the food into one unit and turn off the others. If possible, use the most efficient one for storage. Remember that frost-free refrigerators and freezers continue

their cooling-defrosting cycle even though you aren't home.

- Make sure your air conditioner is turned off. There's no need to keep a cool house if there is no one there to enjoy it.
- Check for other appliances that can rest while you are gone. Some of these may include dehumidifiers, sump pumps, clocks and decorative lighting. Use timers for necessary security lighting.
- It's important to note that in disconnecting any appliance it will no longer perform its job. Pumps and dehumidifiers will not operate and freezers and refrigerators will defrost.

Read your meter before you leave and again when you return to determine how much energy was used while you were gone. And don't forget that after you return and wash several loads of soiled laundry, your electricity usage will jump quickly as water heaters, washers and dryers go back to work. Remember, even though you're vacationing away from home, your electricity requirements aren't.

Be careful with CB antennas

Citizen band (CB) radios have been a great boon to farmers by providing for continuous communication between all phases of farm operations. However, the use of CB radios can create a hazard, both to the farmer operating the equipment and to the reliable operation of electric power lines.

Electric power lines are designed to provide safe clearance over a 14 foot high vehicle when the vehicle is on public roads or in farm areas accessible to vehicles.

This is in accordance with licensing requirements in the State of Illinois which specify a 13-foot-6-inch maximum height for vehicles operating on Illinois roads.

In some cases, farmers have attached CB antennas on farm equipment such as combines or other high equipment. The overall height of the equipment plus the antenna may exceed 20 feet. This can lead to a hazardous condition if the equipment is operated under a power line.

Use of shorter antennas will minimize the problem but any combination of vehicle and antenna which exceeds 14 feet should be considered as a potential hazard. If you are farming near utility lines and your vehicle, equipment and antenna height exceeds 14 feet, or if you have any questions about safe operating clearance from power lines in your location, please notify your local electric cooperative.

TV Sets

Don't play them to an empty room! Note: "instant-on" types are always using electricity.



Efficient grain drying methods add profits, improve quality

"Drying a corn crop can require as much fuel per acre as was used to grow and harvest it," says William Peterson of the University of Illinois.

Energy costs are climbing and farmers must utilize efficient and careful drying methods to save fuels, money and produce even better products.

The annual Grain Conditioning Conference, held in Champaign, presented the latest recommendations for on-farm grain conditioning including techniques to improve the energy efficiency and costs of drying operations.

It was the consensus of the grain drying experts to use low temperature drying, no heat drying or solar drying as methods to increase energy utilization and cut costs. Any of these methods also aid in marketing.

Peterson has these suggestions for efficient crop drying:

—Don't dry it if it will be fed to livestock. Late harvested corn can be stored, with aeration to keep it cool, at 18 to 20 percent moisture if it will be fed to livestock during the winter. Ventilate with low pressure fan.

—Harvest at a low moisture. Provided there is not increased field loss, save energy by harvesting at lower moisture content. Twice as much moisture must be removed from 27 percent moisture corn as corn containing 22 percent to reduce

content to the desired 15½ percent. Corn with 24 percent moisture dried to 15 percent instead of 13 percent will save 25 percent on fuel costs where high-speed drying is used. Excess weight 'shrinkage' caused by overdrying is the owner's loss at the market.

—Using a more energy-efficient drying method. Use the natural drying ability of the air. High speed drying methods use 2,000 to 3,000 BTUs per pound of water removed, whereas low temperature drying in the bin will use only 1,000 to 1,500 BTU/lb. of water removed.

Peterson stresses utilizing a sufficient amount of air and keeping the drying system simple. Low temperature in storage drying is a relatively new practice.

—Don't try low temperature drying on damaged corn because damage accelerates spoilage and retards airflow.

—Screening out trash and using a distributor helps in getting air through the corn. Level as you fill.

—Operate the fan continuously except during prolonged below freezing temperatures. Keep the corn cool and move the drying front through the corn as quickly as possible.

—When outside temperature is 50 degrees Fahrenheit or higher, don't use

a heater.

—Use the heater during damp weather and at night.

—Temperature rise to five to 10 degrees is sufficient. Extra heat will accelerate spoilage faster than the increase in drying rate.

—Use controls that prevent heater operation unless the fan is running.

—Check moisture content of a sample from the bottom of the bin periodically. Too much heat has been used if corn is drier than desired. Many operators have been successful in some seasons using no heat at all.

Relatively simple low-cost solar collectors can be built which will provide the five to 10 degree temperature rise needed for low temperature drying.

Since the drying period will be extended over several weeks, this allows time for substantial amounts of solar energy to be collected. A "back-up" heater is suggested for extended cold and rainy periods.

Gene Shove, Professor of Agricultural Engineering, University of Illinois, who experimented with no heat drying emphasizes the need for sufficient air, and suggests filling the bins slower so that each new layer of corn has ample drying time before the next layer is added. Fans alone often raise the temperature two to five degrees.

Energy conservation and clean clothes

In a study for the Department of Energy, researchers at Oak Ridge National Laboratory took a look at home laundry methods and concluded that householders can save several cents a load by:

- Using a warm — not hot or cold — water cycle. Warm water is more economical overall because colder water requires more detergent.
- Adjusting the water level to the size of the load.
- Using a cold water rinse.
- Drying only full loads.

Consumer Affairs specialists at

General Electric concur with Oak Ridge's recommendations and add some of their own:

- If soil accumulates after several consecutive warm-water launderings, use an occasional hotter wash, consistent with garment care labeling. Then increase detergent use during subsequent warm-water washing.
- Wash heavily soiled clothes in hot water.
- Use chlorine bleach or other disinfectants in times of family illness or if there are infants in the

household.

- If you are going to dry Permanent Press items in an automatic dryer, use the washer's Normal (fast) spin instead of the Gentle (slow) spin usually recommended. This method removes more water during spin, thus shortening the drying cycle and saving money.

Savings of a few cents per load add up when multiplied by 60 million, the estimated number of automatic washers in the country, each doing an average of 35 loads per month.

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Virden Perma-Bilt Company Engineering Department is now offering 1 7/8" x 24" windmill cylinder barrels, with caps, at 1/4 the price they are selling for now! These barrels and caps are made from thick heavy wall PVC and then lined with 1/8" of urethane. These barrels are as good as any brass barrel on the market! The urethane lining assures long life and true check strokes. Our 1 7/8" x 24" barrel sells for \$35.95 plus \$2.50 postage and handling. It connects right to your 2" pipe (steel or PVC). These urethane lined barrels are doing a wonderful job right now! Send for free information. **VIRDEN PERMA-BILT CO., 2821 Mays St., Box 7160 IN Amarillo, TX 79109. 806/352-2761.**

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A few miles away, a farmer is engaged in less frivolous activity, but with a similar plane. Flying out of a large lawn behind his house, he makes a low-level check of his fields to look over his crops.

A few years ago, such scenes would have been unbelievable. Now, they are regular occurrences. They are made possible by a new kind of aircraft called ultralights. Powered ultralights are a natural spinoff from hang gliders, which have been around for years, but which, for the most part, only descend after being launched.

The Federal Aviation Administration has, so far, kept out of the regulation business as far as ultralights are concerned, only stipulating that such craft must be capable of being foot-launched — a nice way of saying that somebody, somewhere, sometime, must have been able to take off in one by running with it. Such freedom from regulation is one of the reasons ultralights are so popular. No expensive pilot's license is required to fly them.

Jim Woods of Edwardsville, a member of Southwestern Electric Cooperative, hopes to make ultralights fairly commonplace in Illinois. He flies and sells Quicksilvers, manufactured by Eipper Formance, Inc., a California firm.

"I got into the Eipper Formance line by accident," he says, "because I'd gone to a seminar in California to look at another brand, and to get a dealership. I stayed six months and looked the field over pretty carefully. I came back with the Quicksilver dealership because I think they're the best you can buy."

Like their unpowered hang-glider brethren, Quicksilvers make use of brightly hued materials to lend color to the new kind of sport flying.

Woods notes that the Quicksilver M comes with a 15-hp two-cycle Yamaha engine as standard equipment. It takes off in about 60 feet or less into the wind, and cruises at 24-30 mph, with a top speed of 42 mph. It lands at about 20 mph.

"I like this model because of the simple controls," Woods notes, adding, "the pilot turns by shifting his weight — and it's a very natural thing, and easy to learn. They're about the

easiest to learn, but very light pilots tend to have a little difficulty because banking the craft depends on weight shifting. A petite young woman who flies a Quicksilver has overcome that problem by wearing a scuba diver's weight belt when she flies."

The company also offers a float conversion.

"We have another exciting model out now, too," Woods says. "The Double Quick is a larger-engined version of the Quicksilver, with a 30-hp Cuyuna engine. It offers better

takeoff and climb performance." All the craft fold into fairly handy trailerable-sized packages, and can be set up to fly in about half an hour, once the basic skills are mastered.

"We've sold about 100 planes since starting a couple of years ago," Woods says, "and we train each buyer before we turn them loose with a plane. Not all companies do that, but ours requires it, and we believe it's the best way. The training is built into the price of the plane, and we want the sport to grow, safely, and sensibly."

Protecting a valuable asset

You've insured your house, your car . . . probably even your stereo and television set. But, did you ever stop to think about your most valuable asset? You depend on good health in order to work and bring home your family's income. Isn't that an asset also worth protecting?

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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Congress rejects Administration plans to change rural electric loan program

In the Congressional budget-cutting process just ended, it was for the rural electric cooperatives a case of Congress recognizing that Administration proposals would have accomplished no more than raising electric rates in rural America.

The \$36-billion package of spending cuts passed by Congress just before the August recess contains sections that largely hold the line against earlier White House proposals to drastically change government lending programs for financing of rural electric systems across the country.

That bill, the Omnibus Budget Reconciliation Act of 1981, which President Reagan signed into law August 13, specifically directs that rural electric cooperatives continue to have access to the Federal Financing Bank (FFB) in borrowing money under the federal Rural Electrification Administration (REA) guarantee. It also gives discretion to make loans with an interest rate as low as two percent in hardship cases.

CUTS DENIED

In June, Congress also rejected Administration proposals to shave this year's loan funds for rural electrics by \$62-million. It was one of the few instances where Administration requests for 1981 budget cuts were denied outright.

Congress is expected to restore REA loan fund levels to original figures that were in the budget of the Carter Administration for 1982: a range of \$850-million to \$1.1-billion for all REA loans and a \$5.145-billion level for REA guarantees.

Reviewing what are regarded on Capitol Hill as major victories, Robert D. Partridge, head of the National Rural Electric Cooperative Association

(NRECA), had double praise, not only for Congress but also for rural electric consumers and their local and state organizations:

"This bipartisan support of both rural and urban legislators," Partridge said, "is making it possible for rural electric systems to continue to operate under a loan program that's successfully helping them meet the power needs of rural America and our agricultural economy."

"But this has also been a tremendous demonstration of citizen concern and worthy activism on the part of rural electric consumers. Their letters, their visits — and the response to them by Members of Congress — certainly evidenced clearly that there is confidence in the rural electrification program," said Partridge.

EARLY BATTLE

It was on February 19 that the Office of Management and Budget (OMB) announced that it would administratively bar rural electric cooperatives from further use of the FFB, and it also sponsored legislation to eliminate the special interest rate of two percent which had been available mainly to cooperatives with two or fewer consumers per mile of line. Nationwide, rural electric systems average 4.6 consumers per mile of line.

In a battle of words and figures that followed, rural electric leaders maintained that the OMB proposals were asking rural electrics to make an "empty sacrifice."

They reminded Congress that two to five percent loans from REA were "off budget," coming from a separate "revolving fund" replenished by loan payments.

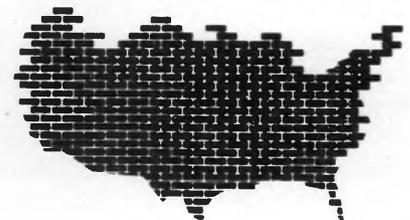
But denial of access to the FFB, an arm of the U.S. Treasury, which

actually makes \$11-million annually for servicing borrowers, was the most puzzling feature of the Administration proposals. The rural electric co-ops would have to get outside money at higher interest. But for all that extra cost, there still would be no impact upon the federal budget. The greatest impact, legislators were told, would be upon rural consumers who would have to carry the greater interest burden for decades by paying more in their electric bills.

In the months that followed, the OMB strained to prove through statistical sleight-of-hand that rural electric rates were less than those of urban companies and paint a picture of rural Americans getting an unfair energy subsidy. The rural electric systems countered that, in fact, U. S. Dept. of Energy figures showed that the electric bills of rural consumers were 12% higher than those in the more profitable service of the populated cities.

By Spring, Congress had received thousands of pieces of mail, visits and telephone calls, including an NRECA-sponsored legislative rally of more than 2,000 rural electric people in May, demonstrating a highly concerned constituency.

COOPERATIVES
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ILLINOIS RURAL ELECTRIC NEWS

Wholesale costs to increase

Rate increase expected January 1

Your Cooperative has been notified by its wholesale power supplier (Central Illinois Public Service Co.) that it plans to file a request to the Federal Energy Regulatory Commission for an increase in the rates to electric cooperatives, et al to become effective in January 1982. The magnitude of the proposed increase is unknown at this writing. However, since wholesale power costs constitute 63 percent of total operating costs for your Cooperative, it seems appropriate to advise you now that there will be an upward adjustment in your rates for service effective in January 1982. Although this is information that I would prefer not be necessary to provide you, it is a fact we must all face.

While electric rates have risen markedly since the OPEC oil embargo of 1973, the cost of electric service has not increased as rapidly as most other forms of energy that we use. With the federal deregulation of natural gas, it is anticipated that its cost will be four times as high by the year 1990 and it is expected that petroleum-based fuels will follow this trend closely, whereas electric rates will likely double during that same period of time. So electric service will remain an energy bargain for any

purpose adaptable to its use.

We all became somewhat spoiled during the 1950s and 1960s with extremely low-cost electric energy, which was produced in generating plants having low capital costs, and the boiler fuels were relatively cheap. New generating plans now coming on line, and those yet to be built, are installed

in
the
news
bin



By Walter R. Smith
Manager

at very high capital costs, due in great measure to over-regulation by many government agencies with overlapping, and often conflicting, counterproductive requirements. Of course boiler fuels have escalated out-of-proportion to the general cost-of-living increases. While improved technology in power plant design has resulted in better operating efficiency, the requirements of interpretations of

the "Clean Air Act" have more than offset those gains in operating efficiencies.

It appears that there is a new and refreshing public awareness of the need for more nuclear-fired electric power generation which, if implemented, will not only prevent shortfalls in production capacity in the late 1980's and 1990's, but will help stabilize electric energy costs. It behooves us all to support the present Administration's efforts to lift the ban on the commercial reprocessing of spent reactor fuel, develop the breeder reactor technology (which produces more nuclear fuel than it consumes) and remove obstacles to the construction and licensing of the current generation of nuclear reactors.

It is never pleasant to have to advise you that your cost of service will increase, but this is deemed better than waiting until it has to be done to maintain solvency and bring it to you as a surprise. The magnitude of the increase cannot be determined until we know the magnitude of the wholesale power cost increase. A negotiating committee of the Association of Illinois Electric Cooperatives had its first negotiating meeting with CIPS representatives scheduled for September 23 and will continue to analyze the company's cost of service and hopefully arrive at a level of rates for wholesale power that is justifiable before November 1.

Electricity---it is still quite a bargain

We are fully aware of the burdens placed on your budget and pocket-book by inflation and the high cost of living. The Cooperative, too, is suffering from the upward spiral of inflation and increased costs. Have you complained lately about the price of electricity? Let's compare... many prices have exceeded the rising cost of the electricity you use and when you stop to consider, it is still a bargain.

Note these...

1. The cost of a ½ inch sheet of plywood will operate the table saw you use to cut it for 40 hours.
2. The cost of a pound of sirloin steak will operate the electric burner on which you cook it for 15 hours.

3. The cost of one flashlight battery will operate the average clock radio for three months.
4. A box of facial tissues and a roll of paper toweling will operate an electric dryer for 5 hours.
5. A monthly telephone bill will operate your C.B. set for 7,000 hours.
6. The cost of an average magazine will operate the light by which you read it for 50 hours.
7. The cost of a 1/4 inch electric drill will operate it for 260 hours.
8. A pound of coffee will operate the percolator over 200 hours.
9. The cost of an LP record will

operate the phonograph for over 100 hours.

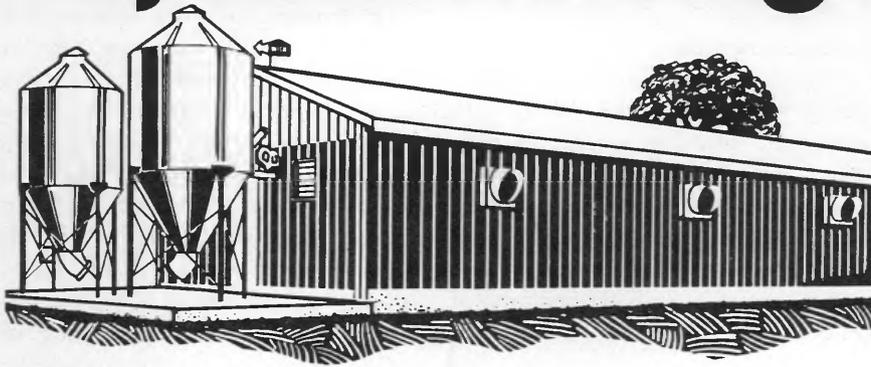
10. The cost of two people attending a movie will operate your television five hours per day for five months.
11. The cost of a pack of cigarettes will operate the average family toaster for three months.

These comparisons are based on average prices of both commodities and electricity.

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Marion	Glenn Hudgens 618-993-5560	Genoa City	Chuck Schuren 414-279-5424

Sawmill operator 'grew up' in business

Cutting up is a way of life for Wayne Hendrix of Marshall. Hendrix, an Edgar Electric Cooperative member, runs a small sawmill. With help from two part-time employees, Wayne can saw about 10,000 board feet of lumber a week, or about half a million feet a year when business is good.

"I really enjoy the lumber business," Wayne says, "and I kind of came by it naturally. My father had a sawmill and I just kind of grew up in the business."

"We usually run the mill about two days a week — maybe three. With the size of the operation being what it is, that's about all we need. We run year 'round most of the time, though, except a couple of those really severe winters when we couldn't," he notes.

Wayne also serves as road commissioner for Marshall Township and runs a small farming operation.

Hendrix buys some of the timber for the operation, and saws some himself. Sycamore and cottonwood are probably the most common timber processed at the mill. The bulk of the lumber is rough cut for use in building pallets and crates. Wayne also does some milling for furniture manufacturers. "We cut hardwood sometimes for what they call grade lumber," he says, "mostly oak or walnut, and we air-dry it and save it until we have a semi-trailer load. We sell some poplar to them, too."

The sawmill generates a lot of material that once went to waste, but Wayne tries to minimize that.

owned, for-profit utilities were receiving good treatment from the administration. "There's a new bill to wipe out some of their debts, and to allow them to retain \$1-billion a year they were paying, in addition to \$3-billion they were already retaining. In contrast, the Office of Management and Budget (OMB) is asking you to take a whopping cut. We recognize that the investor-owned utilities need and deserve some consideration, and we're glad to see them get it, but where's the balance and fairness? For some reason, OMB says the rural electrics are destroying the economy, while the IOU's are part of the economic recovery."

Harold V. Hunter, an Oklahoma rancher recently appointed by President Reagan to head the Rural Electrification Administration (REA), told the delegates that the cooperatives should get used to the idea that federal money and loan guarantees will be drying up, and seek new sources of loans for needed capital. "There has been a gradual

trend in this direction," he said, "and it will have to be accelerated."

Hunter urged his listeners to communicate with their members, especially in regard to rates, which he expects to continue to escalate virtually indefinitely.

"Regardless of what happens, as we see the disappearance of some of

the cheaper imbedded interest rates and cheaper investments of yesterday, and when we see some of the newer higher costs being welded in, we know that rates are going to be raised in order to meet the costs of doing business, and the sooner you can warn your members, the better off you'll be," Hunter concluded.

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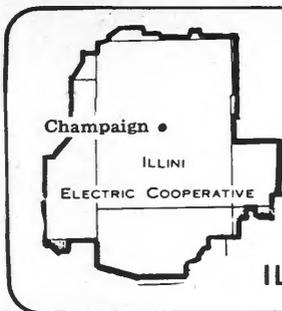
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

Autumn is heating unit safety check-up time

Shorter days, cooler weather, and the turning hues of autumn leaves are signs of changing season and winter on its way.

While you're readying yourself for the less friendly climate of winter days, take time to prepare your home for the heating demands put on it by cold and stormy weather.

Underwriters Laboratories Inc., an independent, not-for-profit organization testing for product safety since 1894, reminds you that defective or poorly maintained heating equipment deprives you of needed warmth while raising costly fuel bills. More importantly, turning on a furnace that hasn't been properly serviced or inspected risks the tragic consequences of asphyxiation or fire to your family and home. So take time now to check your heating system carefully.

UL offers you this handy checklist detailing practices which should help keep your heating equipment in good working order. Perform them on a regular basis to help insure a warm and safe home this winter.

- Replace disposable air filters when dirty with replacements that bear the UL Listing Mark. Wash permanent filters in mild soap and water to help increase furnace efficiency and promote safe operation.
- Clean warm air outlet registers and air returns of any accumulated dust and be sure they are not covered by obstructive materials such as rugs, drapes and curtains.
- Make certain room thermostats are free of dust and correctly set.
- Keep the furnace area clear of combustible materials. Never store liquids with flammable vapors, such as gasoline and paint thinners, in the furnace room.

- Clean and inspect your humidifier for optimum operation.

- Clean all combustion air intake openings of dust and dirt.

Even though you may feel you have kept your unit in top operating condition, UL recommends that a qualified serviceman make the following inspections and services at the start of each heating season:

- Inspect air blower belts; adjust the tension or replace them if worn.
 - When applicable, depending on the type of equipment, eliminate accumulated scale from the firebox and combustion chamber. Inspect for perforations, cracks or openings in the heat exchanger which may permit by-products of combustion to leak into the heated air supply. Inspect flue pipe and connections between heating unit and chimney.
 - Check the chimney for any blockage and accumulation of soot.
 - Clean the circulating air blower wheel and the combustion air blower wheel if one is provided on your heating unit.
 - Check boilers for proper water level. If a low water cut-off is provided, determine that the cut-off is functioning properly.
 - Determine that all safety controls (limit and primary safety controls) and fuel shut-off valves are in working order.
 - If the unit contains an adjustable fan switch, the controls should be set to manufacturer's recommendations.
 - If the unit is provided with an automatic vent damper, determine that the vent damper functions properly, opening when the burner is in operation, and closing after the burner shuts down.
- For gas-burning units, these

additional inspections should be conducted:

- Determine that the pilot or pilots are burning properly, and that the burner ignition by the pilot is satisfactory. It is important that the pilot flame is steady. A small or yellow flame indicates that the pilot burner is either dirty, or the pressure regulator needs adjustment.
- Check to see that the main burner gas is burning properly. Adjust the primary air shutters if required.
- Test for spillage at the draft hood. In addition, UL recommends that a qualified serviceman perform these inspections and services on oil burners:
 - Clean and adjust ignition electrodes and replace if they are worn.
 - Inspect oil pumps, lines and fittings to assure that they are free of oil leaks.
 - Check the burner flame for the proper pattern. Replace the nozzle if necessary.
 - Check the draft regulator for proper operation.

Illini Electric Cooperative

MAILING ADDRESS—P. O. Box 637, Champaign, Illinois. Phone 352-5241.

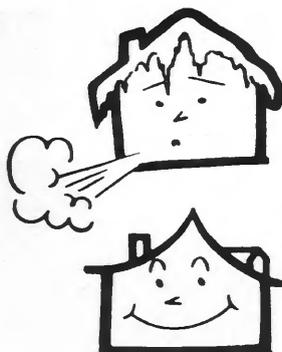
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Heating bill can be increased by an inefficient fireplace



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Conservenergy

There's no denying the coziness of a toasty fire on a cold winter evening. However, that wealth of heat near the fireplace can lead to a false belief that heating costs are being reduced.

With a conventional fireplace, the loss of heat begins when the fire is started. As soon as the flue damper is opened, heated room air begins to rise out the chimney.

As the fire builds to a blaze, it burns more and more room air, which is replaced with cold outside air drawn into the house through infiltration points. The temperature in other rooms drops. The heating system is activated, raising the air temperature in the rooms. All the while, the burning fireplace continues sucking heated air into the fire and up the chimney.

Finally, as the fire dies down, more warm air is lost as the damper is kept open to allow combustion gases to escape.

So much heated air escapes that researchers at eastern university have found that nightly use of a fireplace can raise monthly heating bills by 20 percent.

As pointed out above, this is because the fireplace pulls cold outside air through infiltration seepage areas around doors, windows, wall outlets and others. It also allows heated air to rise out the chimney when the fire is started and when it dies down.

While cutting waste from a fireplace can be done through adding glass doors and careful use, getting a real heat gain is more challenging.

The typical fireplace delivers only about 10 percent of the potential heat available in the fuel it burns. Essentially two factors contribute to this poor efficiency. First there is no method of controlling combustion air. Second, a mechanism to transfer heat to where it is wanted is lacking.

However, many recent models of fireplaces incorporate technology which makes them more efficient.

Outside combustion air is brought into the fire through a duct. Some models offer a device to control the amount of air intake. And air exchangers are available to help transfer heated air into the room while glass doors reduce air loss up the chimney.

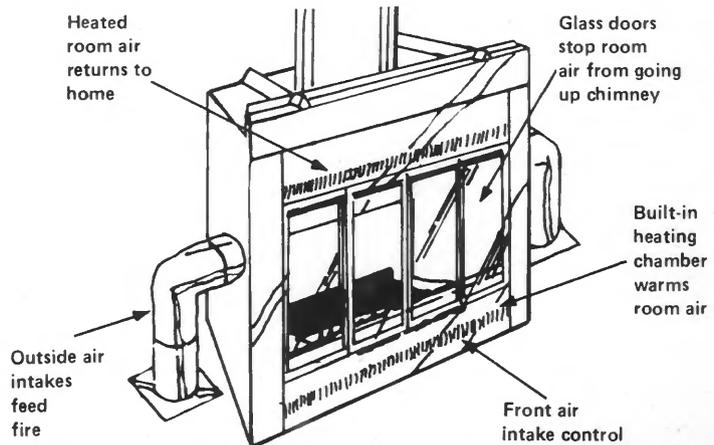
Wood Burning Stoves

Wood burning stoves do offer better performance. A testing center for stoves has found that heating efficiency ranges between 40 to 60 percent, more than twice as high as even the most efficient fireplace.

Stoves control air intake more precisely and their bodies act as heat exchangers by radiating heat on all sides.

The traditional Franklin stove is one of the least efficient. The most efficient wood burning stoves are almost air tight and offer lots of surface area.

If you have a home with an older type fireplace, remember that it won't save you much money, so use it wisely. And those homeowners with recent models which incorporate outside air intake and glass doors, can only expect marginal benefits.



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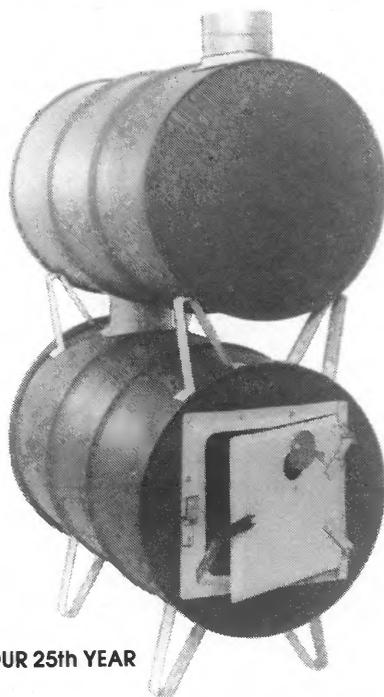
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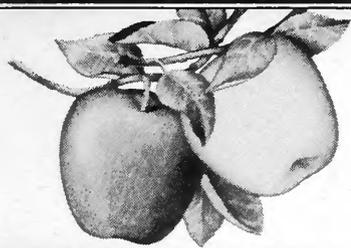
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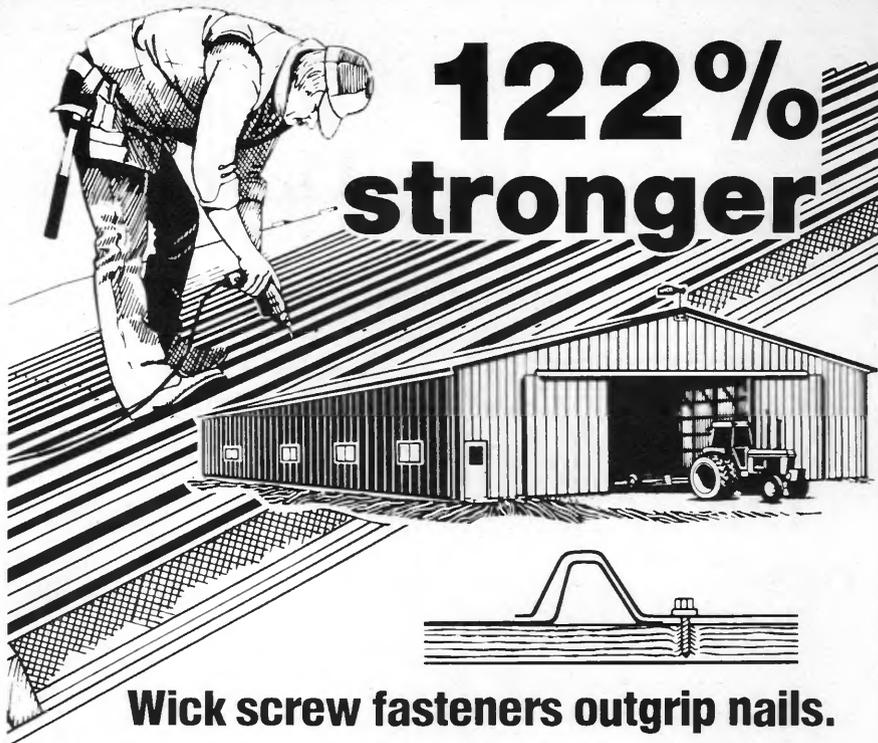
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Illini Electric News

ILLINI ELECTRIC COOPERATIVE 217-352-5241 CHAMPAIGN, ILLINOIS

in
the
news
bin



By Walter R. Smith
Manager

Illini Electric Cooperative is embarking on a \$4-million system improvement program, based on its long-range engineering plan, to assure meeting its members' capacity needs with high quality, continuous electric service in the years ahead.

The present distribution system, with six substations, has served well since its design and installation in the late 1940's and early 1950's, with two major storm damage rebuilds to the distribution lines during that 30-year period as well as upgrading many hundreds of individual service installations. The project now getting under-

way will add three new substations, with the necessary 69,000-volt transmission lines to serve them, and heavy three-phase underground distribution circuits from those stations into the distribution grid.

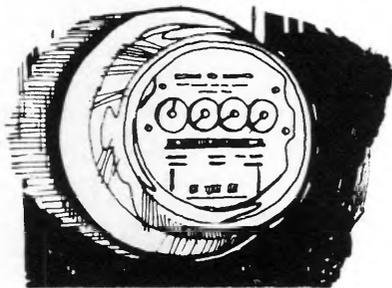
These system improvements will minimize outages of service as well as provide adequate capacity to meet the area's growing needs. We anticipate continued good cooperation from members and other landowners in the acquisition of the necessary right-of-way easements and substation sites. Efforts of this magnitude require a high spirit of cooperation throughout the membership in the interest of timely and economical completion of the necessary projects.

Electrical systems are very capital intensive and require careful scheduling well in advance of the need because of the long lead time involved. Engineering studies and system analysis are constant ongoing procedures as are long-range financial studies and forecasts which include rate design and implementation. Rates must be designed to cover the costs of service in as fair and equitable manner as pos-

sible. The cooperative's staff is well along with its rate study of which you were advised in my letter included with your October service bill. It appears likely that, although the studies are in their final stages, all analysis and approvals will not be completed soon enough for application of the new rates on the January bills, as was initially planned. There was considerable delay in wholesale power negotiations and, of course, wholesale power costs are the major portion of your service costs.

We will endeavor to keep you as fully informed as possible and solicit your inquiries and input when you deem it appropriate. Messages for the center section of your magazine must, by necessity, be prepared well in advance of publication. With conditions and philosophies changing as fast as they are these days, it is difficult to keep information current. This center section, for Illini Electric Cooperative members only, is our most economical method of communication.

Keep track of your energy use



Electric bills are up.

But so are costs for all forms of energy.

By becoming a meter monitor you can chart changes in your family's lifestyle that will enable you to live within your energy budget.

Using a chart with each day's date and kWh used, jot down the reading on your electric meter. If possible, begin your readings on the day you read your meter and enter the reading on your billing stub which you return with your payment.

Each day read your meter and subtract the previous day's reading from the current reading and you have the kilowatt-hours used during the 24-hour period. By adding the daily figure into a weekly total and the weeks into a monthly total, you can see how much power your family used — and when — during that monthly billing period.

Illini Electric Cooperative

MAILING ADDRESS—P. O. Box 637, Champaign, Illinois. Phone 352-5241.

HEADQUARTERS LOCATION—1605 South Neil Street.

OFFICE HOURS—7:30 A.M. to 4 P.M. Monday through Friday—closed all day Saturday, Sunday and Holidays.

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REPORTING SERVICE INTERRUPTIONS,—Broken poles and Fallen Wires—Phone 352-5241—day or night—7 days a week.

How to check farm wiring

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

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

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

If the disc continues to rotate, electric current is being used. Disconnect at the fuse box, one circuit at a time. If the meter stops, this indicates that the trouble is in the circuit that was

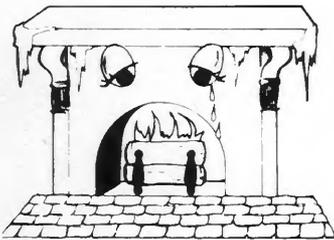
last disconnected. Meters do not run unless electricity is being used.

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

Electricity leaks are more common during wet weather. The trouble can often be located around the water pumps, shop equipment or entrances to buildings.

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

If your electrician is unable to locate the ground, then Illini Electric Cooperative, Champaign, telephone 352-5241.



Your fireplace is a loser... if it mostly sends precious heat up the chimney.

Make it a winner with a blower system that distributes warmth throughout the room.

Keep the damper closed when the fireplace is fireless, and when it is in use, open the damper only enough to provide a good draw.

And be sure your fireplace works for you safely. A thermal glass screen will let heat radiate out, but keep hot ash and coals inside.

For more tips on the care and feeding of fireplaces, and other ways to save energy, give us a call.

Report electric hazards

Your Cooperative has over 1,500 miles of line and thousands of poles, crossarms, insulators, transformers and other equipment essential to supplying electric service to more than 4,500 member-owners. Through a systematic inspection and maintenance program, we try to keep our distribution system in the best possible condition.

However, sometimes the unexpected occurs. The weather, vandals or accidents create safety hazards that we can't possibly discover unless someone tells us about them. That someone is YOU, the member. We hope that should an electrical hazard come to your attention, you will be the one that reports the problem to us.

Here are some of the hazards that you should be on the lookout for:

- **Damaged or Fallen Utility Pole** — When a pole has fallen because of an accident or any other reason, or when it appears it is leaning dangerously, don't go near it. Don't touch anything that may be in contact with the line. Call our office at once and give us any information you have about the situation.

- **Damaged Lines or Insulators** — Storms, accidents or vandals may damage electric lines or insulators. Sagging or broken lines can be a serious safety hazard. Notify us at once if you observe such a situation.

- **Trees on Lines** — Electric power lines are essentially fixed, but nature (and man) seems to find ways for the trees and lines to come together. When this happens, the tree may become a conductor and present a potential hazard to anyone who comes in contact with it. It can also damage the line and cause an outage. If you know of a case where a tree has grown into a line, call the IEC office. Our crews are trained to handle such hazards quickly and safely.

In summary, we are asking you — the member — to share the responsibility for locating safety hazards along the electric lines that serve you. We need your help in correcting situations that present the potential for safety hazards and outages.

Merry Christmas

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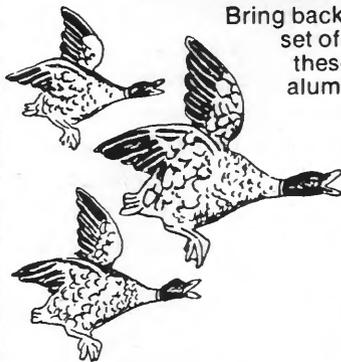
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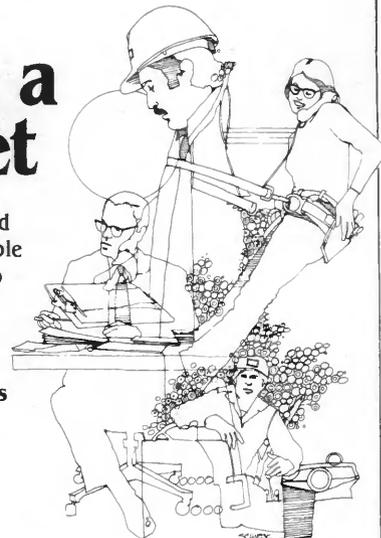
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