

New! From Mutual of Omaha!

Three way protection

that covers you both IN and OUT of the hospital

UP TO
\$5,000.00

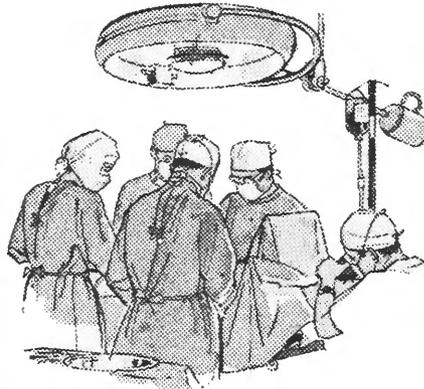
FOR DOCTOR CALLS AND
HOME CARE



Doctor Calls and Home Care—Pays up to \$5,000.00 on a scheduled basis for out-of-hospital doctor bills, drugs, medicines, X-rays and lab tests, private duty nursing care, plus much, much more. Even includes benefits for charges made by a hospital for a planned program of continued home care following hospital confinement. Covers the whole family.

PLUS UP TO
\$15,000.00

FOR IN-HOSPITAL, SURGICAL-
MEDICAL BILLS



Hospital-Surgical-Medical—Pays up to \$15,000.00 on a scheduled basis for in-hospital doctor calls, medicines, drugs, lab tests, operating room costs, surgical fees and much, much more. In addition, pays from \$10.00 to \$60.00 a day (depending on the plan you qualify for) for hospital room and board... pays **DOUBLE** the daily benefit selected when confined in an intensive care unit.

PLUS UP TO
\$800.00

A MONTH
FOR REGULAR
LIVING EXPENSES



Living Expenses—Pays from \$100.00 to \$800.00 a month (depending on the plan you qualify for) to help take care of regular living expenses when the family breadwinner is disabled and can't work. As explained in your policy, these *tax-free* benefits are payable for disabilities that start before retirement or age 65. Special benefits are payable for disabilities that start thereafter.

FOR MORE INFORMATION CONTACT THESE GENERAL AGENTS

L. Earl Cutler
7600 West Main Street
P.O. Box 965
Belleville, Illinois 62223
Phone AC618-398-1950

S. B. Stottrup
111 East Decatur
Decatur, Illinois 62525
Phone AC217-429-5495

A. H. Morris
1119 South Sixth Street
Springfield, Illinois 62705
Phone AC217-528-3434

W. C. Hoyes
407 Rockford Trust Building
P.O. Box 419
Rockford, Illinois 61105

Jock B. Williams
Jock Williams Division
285 South Plowzaway
Cape Girardeau, Missouri 63701
Phone: AC314-334-2841

R. L. Thomas
309-10 Bondi Building
Galesburg, Illinois 61401

Free Facts about how you
can get more for your money

Mutual of Omaha will furnish money-saving facts about its comprehensive new health insurance coverage that protects you until you become eligible for Medicare at age 65. After 65, benefits are modified to supplement Medicare.



Life Insurance Affiliate:
United of Omaha

MAIL THIS COUPON TODAY!

Mutual of Omaha
Omaha, Nebraska 68131

Dept. 2R

Please rush free facts about Mutual of Omaha's new "Three-way" protection plans that are now available in my state.

Also rush FREE information about fine, modern low-cost life insurance programs available to my family from United of Omaha.

I am over 63. Please furnish me FREE facts about new "Extra Security" hospital income plans available in my state.

Name _____

Address _____

STREET AND NO. OR R.F.D.

City _____

State _____ Zip Code _____

IF UNDER 18 HAVE PARENT SIGN HERE



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

Make plans Now to Attend Co-op's 35th Annual Meeting

The 35th annual meeting of Illini Electric Cooperative will be held February 10, 1973, at the Rec-Arena, located two miles south of Champaign at 1 p.m.

The official notice will be mailed to each member around the last week in January. Manager Walter Smith, remarked, "I would like to invite each member to attend the annual meeting to hear the officer's report on the past year's activities and to exercise his democratic right to vote in the election of directors." The meeting has been planned to provide both information and entertainment.

IN ADDITION to officers' reports, directors will be elected from the following areas: Douglas County east, Champaign County southeast, and director at large. The nominating committee appointed by the board of directors will submit names to be voted on at the meeting. Nominations will also be accepted from the floor.

This year's annual meeting will be held at the Rec-Arena, located two miles south of Champaign on U.S. 45 behind the Old Orchard Bowling lanes. Ample parking space will be provided so plan on coming and arriving early so that you can register before 1 p.m. An early registration will entitle you to be eligible for an "early bird" award to be given at the start of the meeting. Many other attendance prizes will be awarded at the close of the meeting. Everyone attending will have a good chance of winning a prize.

SATURDAY was chosen to enable parents of school-age children to attend. For those who arrive early to visit with cooperative personnel and their neighbors - coffee, soft drinks, ham sandwiches and doughnuts will be served from 11 a.m. until 1 p.m. The meeting will start promptly at 1 p.m.

The keynote speaker this year will be Mr. Clyde Gentry, a well known educator and hu-



President Merle Buddemeier, personally invites each and every member to attend this year's annual meeting.

morist. In addition, a demonstration on fire prevention and use of home fire extinguishers will be given by James L. Holycross of the Urbana Fire Department.

For an interesting and informative afternoon, mark your calendar and plan to attend.



Your Home Heated Electrically

Clarence Rohlfig of Fisher has converted his house to electric heat this past fall. Mr. Rohlfig commented, "After visiting in Kenneth Bright's all electric home many times, I was convinced that electric heat was the heating system I wanted in my home."

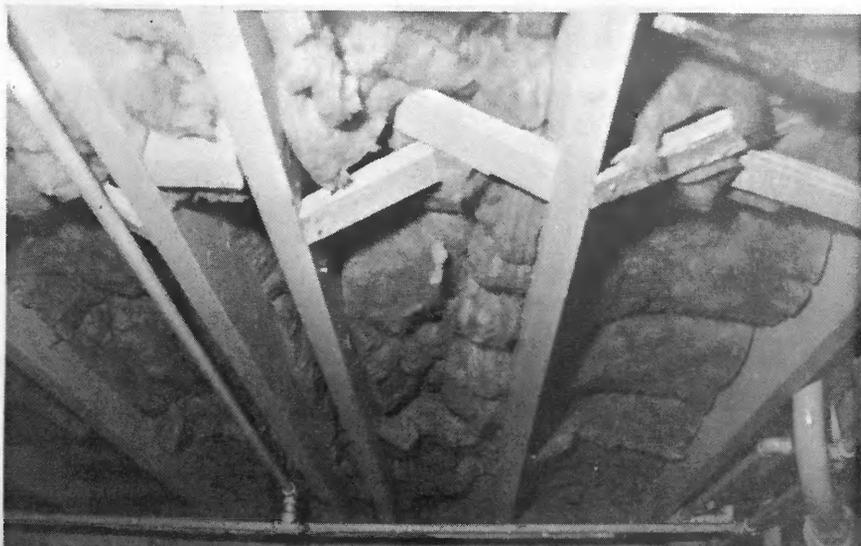
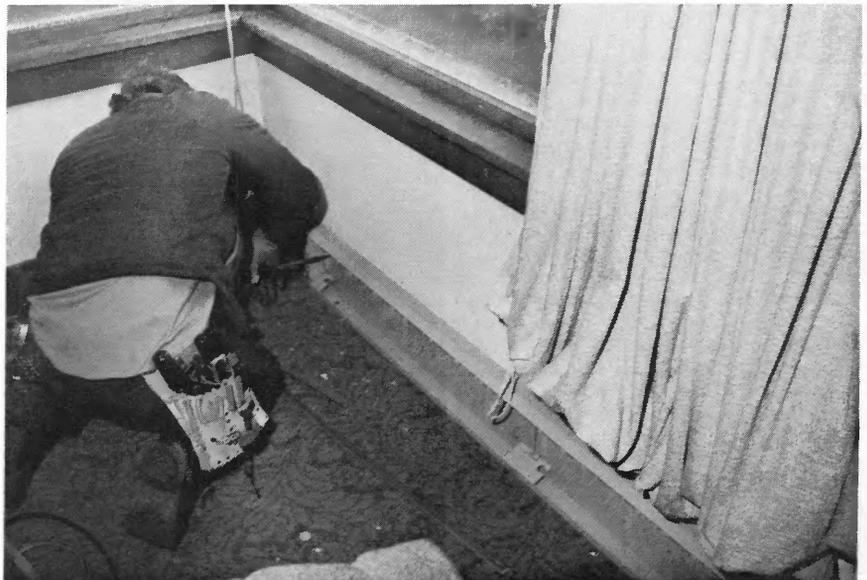
With the rising cost of fossil fuels, electric heating is fast becoming the least expensive way to heat your home. Wholesale electricity costs have gone up a little, other fuels have risen faster than electric heating rates.

Check your fuel bills; if you are not satisfied, call us for a free estimate of what it would cost to heat your home and who the local electrician would be to install it. In the months to follow, articles will appear on the four major ways to install electric heating. Remember, almost every home, large or small, can be converted to electric heating.



Clarence Rohlfig, Fisher, installed electric heat after visiting neighbors electrically heated home.

RIGHT: Mr. Rohlfig installed baseboard heating. With no moving parts, no draft or noise is created. Baseboard electric heaters and the thermostats are guaranteed to operate for the life of the building so future maintenance and replacements costs are eliminated. A member of Hesterberg Electric's crew is shown here installing a baseboard under a window. **BELOW:** By insulating below the floor, heat will be conserved and the floors will be warmer.



Illini Electric

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

Headquarters Location—1605 South Neil Street, South of Champaign on U.S. Route 45.

Office Hours—8:00 A.M. to 5:00 P.M., Monday through Friday—closed all day Saturday, Sunday and Holidays.

Holidays Observed—New Years, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving and Christmas.

Reporting Service Interruptions, Broken Poles and Fallen Wires—Phone—352-5241—day or night—7 days a week. No reverse charge calls accepted.

What's New?



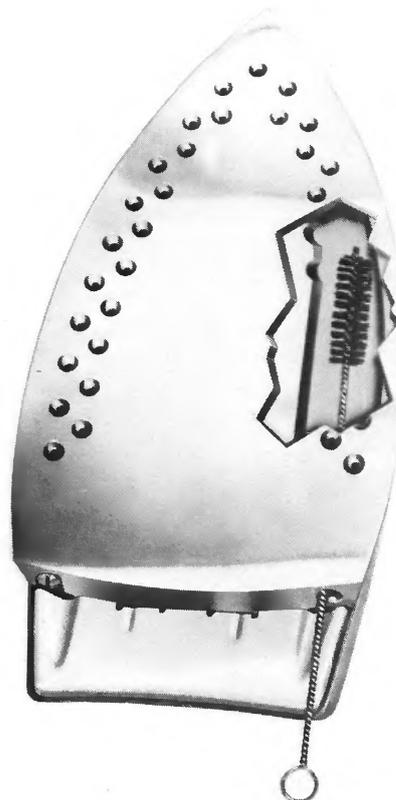
• Chalet Chef

West Bend has developed a beautiful, electric chafing skillet called the Chalet Chef. The new appliance features porcelain-on-aluminum construction in a warm, butterscotch

color. The no-stick interior is ideal for cleaning. The two-quart blazer pan converts the unit into a chafing dish, a lovely setting for any table. The item comes complete with an automatic, removable heat control.

• Clean Steam Iron

The first iron that can be cleaned on the inside has been developed by Westinghouse. It comes with a brush that will remove burned lint and water scale particles from the steam channels. You can clean it from the inside by merely removing two plugs on the back of the iron and inserting the brush. The Clean Steam iron also has the exclusive Fabriscope gauge that shows when the iron reaches the proper temperature, a Fabri-Guide index for quick reference to the proper setting for modern fabrics and a safety heel rest. The suggested retail price is less than \$27.



Westinghouse 4-H Awards

(continued from page 10)

his parents are members.

"Dean Searls, (manager of the cooperative) has been a great incentive to me," Robert said. "Not only has his cooperative people helped us in our electrical workshops, but Mr. Searls also helped me get into the National Society of Professional Engineers."

Searls was on hand to see Robert receive his scholarship. He seemed very pleased and proud that one of the 4-H'ers from his service area had won one of the national awards.

And you thought that the cooperatives didn't get anything for their involvement with 4-H.

MAKE BIG MONEY IN UPHOLSTERY AND FURNITURE RESTYLING

Men, Women, all ages—learn Upholstery at home. Turn old cast-off sofas, chairs etc. into like-new furniture selling for \$150, \$300 or even more! Make huge profits re-doing seating in homes, motels, theaters, restaurants and all types of vehicles. No experience needed—we show you how...even provide tools, supplies, kits, to make a roomful of furniture. Approved for Vets. Send for FREE BOOK. Modern Upholstery Institute, Box 899, Orange, Calif. 92669.

We've got it made!

Free Catalog

Grow full-size apples, peaches, pears, cherries on famous dwarf-size trees.

Send for Stark Bro's new free catalog. 400 varieties of fruit trees, shade trees, shrubs, roses — including famous Stark dwarf-size fruit trees that produce full-size apples, peaches, pears, cherries in your home fruit garden. Catalog shows you six places in your yard to plant dwarf-size trees.

Earn Extra Money

Check block below for free kit if you're interested in earning extra money part-time or full-time as a Stark salesman.

Stark Bro's, Box A10313, Louisiana, Mo. 63353

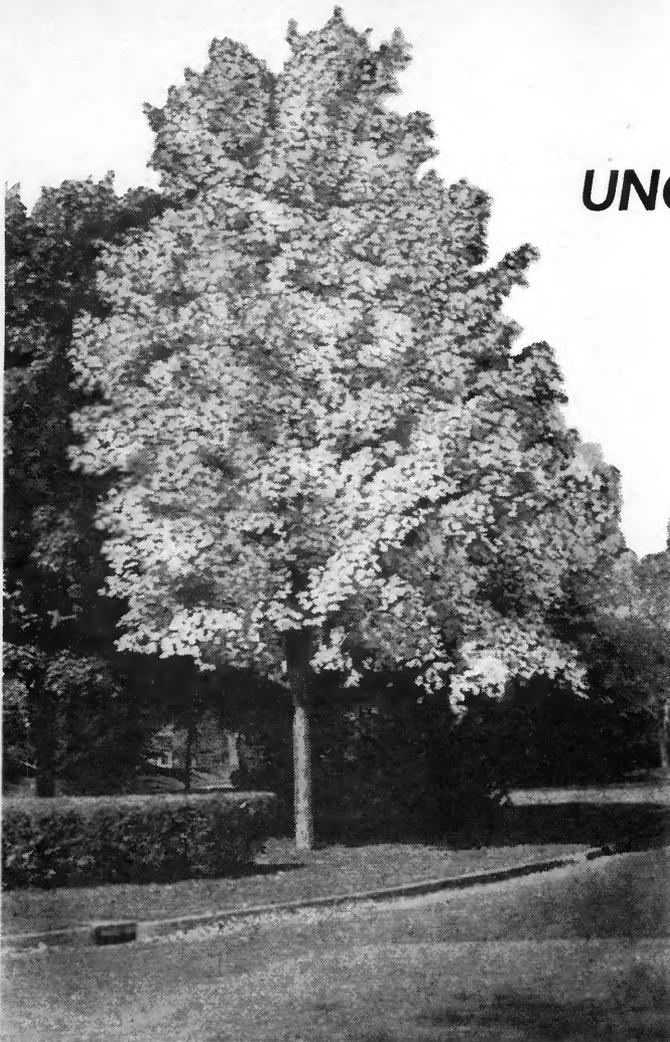
FREE CATALOG

Stark Bro's Nurseries, Box A10313 Louisiana, Missouri 63353

Send me your Free Catalog and special offer on early orders.

If you're interested in earning extra money as a Stark salesman, part-time or full-time, check this block. We'll mail you a free kit.

Mr. _____
 Mrs. _____
 Miss. _____
 (Please print)
 Address _____
 City _____
 State _____ Zip _____



Actual unretouched photograph of a five year scarlet maple.

UNQUESTIONABLY THE MOST BEAUTIFUL FAST GROWING SHADE TREE IN AMERICA TODAY

- This gorgeous tree is known as the scarlet maple, the red maple, or the **EVER CHANGING MAPLE**.
- Beautiful Red Scarlet leaves in the fall of the year, and beautiful deep dark green leaves in the spring of the year.
- Grows approximately 30-40 feet over a five year period, which makes it one of the fastest growing shade trees in America today.
- Many landscape architects, nursery men, and gardening experts refer to this tree as the "2 in 1" tree, because of its dual qualities of beauty and speed.
- Now is the ideal time to plant this tree.
- Shipped at 4 to 6 feet — all shipping cost paid.
- Due to the tremendous demand for this tree please allow two weeks for delivery.

Beauty — This beautiful shade tree blazes a brilliant red color in the fall and an olive green color in the springtime. Yes, recognized tree experts agree it is the one tree that delivers beauty throughout the year.

Height — This magnificent tree grows approximately 30 to 40 feet over a five year period (see photograph) and eventually soars to a height of eighty feet or more.

Hardiness — This tree is very hardy as the wood from maple trees is recognized as the hardest anywhere.

Adaptability — "The scarlet maple has one of the widest ranges of our native trees, growing from eastern central Canada to Florida, and because of its ease of transplanting it adapts to any type of soil." (From *All About Trees* by E. Johnson). The one tree experts agree will grow anywhere in the U.S.A.

TO BEAUTIFY YOUR HOME NOW ORDER TODAY ON A TWO WAY GUARANTEE

Imagine! This beautiful tree shading your front yard and the looks of admiration and words of praise it will bring to your house and home. You'll agree it lends lovely contrasts to its surroundings. Now the retail price of this tree is \$4.98, but during this spring planting season our price is only \$4.49. Yes, just a mere \$4.49 for this beautiful shade tree. **ORDER TODAY—YOU WILL BE PLEASED.**

TWO WAY GUARANTEE

We are so sure that this is the most incredible shade tree that you've ever seen, here is our 2-way, ironclad guarantee: (1) If, upon arrival, you are not completely satisfied, then return for a full refund; (2) Free replacement, for any reason, up to one full year. When have you ever seen a stronger guarantee?

OUR CHALLENGE TO YOU

It's almost too good to be true, but we feel so sure that these trees are some of nature's most prized possessions that we are making you an outstanding offer. Our knowledge and experience of many years and our own research about this tree gives us confidence in the following challenge. If you can find just one negative comment by an expert printed in any magazine, periodical, or gardening book, we will give you any item from our catalogue of over 400 varieties absolutely free of charge. We send a catalogue with every order. This offer is hard to beat! We are sure that anything you read anywhere about this beautiful scarlet maple will have nothing but praise and acclaim.

NURSERY BARN

Dept. IR-2

RFD #1 McMinnville, Tenn. 37110

Please send us these beautiful shade trees, on a two-way guarantee, the trees indicated below.

- 1 Shade Tree\$ 4.49 4 Shade Trees (Save \$6).....\$11.98
 2 Shade Trees (Save \$2).....\$ 6.98 8 Shade Trees (Save \$12)....\$21.98
 I enclose \$ _____ in cash check money order

Name _____

Address _____

City _____ State _____ Zip _____



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

How's Your GFI?

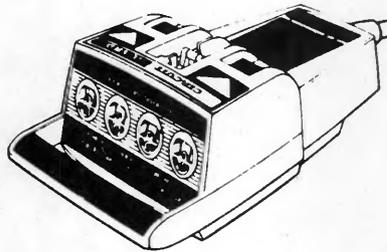
*Federal Law to Prevent Shocks
May Shock a Lot of People*

A device that shuts off the electricity when a person receives an electric shock is now available. The device is called a Ground Fault Interrupter (GFI).

Ground Fault Interrupters are designed to "sense" trouble and open a circuit the instant any stray current greater than 5/1000 of an ampere starts to flow to ground through a person or any object not intended to carry it. The device operates on the principle that the amount of current flowing in the two wires to an appliance is equal when it is operating properly. If there is a "fault to ground," such as a short, the current flowing through the two wires will not be the same. This difference is sensed by the control which shuts off the power. GFIs are intended to protect personnel, not equipment. They should be used in addition to fuses or circuit breakers—not instead of them.

If you frequently use portable tools outdoors, you may be in for a shock, in more ways than one (without GFI protection). Not that portable power tools are that dangerous—especially if they're the double-insulated or 3 wire grounded type. 40-16A

But, how much is it worth to take additional precautions against even that slight chance? The new 1971 National Electrical Code (1) Section 210-22 (d) on Ground Fault Circuit Protection states, "For residential occupancies, all 120-volt, single-



A Portable Ground Fault Interrupter.

phase 15 and 20-ampere receptacle outlets installed outdoors shall have approved ground-fault circuit protection for personnel. The effective date of this requirement shall be Jan. 1, 1973." Ground fault protection is also permitted in other circuits, locations and occupancies. Exact interpretation of the provision is not yet entirely clarified.

Chances are that you've received an electrical shock without actual injury. If you were partially insulated by dry soil, dry shoe soles, or similar nonconductor, the electrical current was unable to complete its path through your body to the ground and you were unharmed. But, given just the right amount of conductivity to the ground, it takes less than 60 milliamps (.060 amps) to be fatal to humans. That's less than it takes to illuminate one tiny Christmas tree bulb.

GFI's come in 15, 20, 25 and 30 ampere size, either portable or fixed. For about \$200, one manufacturer offers a portable ground-fault interrupter into which several portable power tools can be plugged at one time. It's an easy way to be sure no tool can possibly become hazardous to personnel from a shock standpoint—while it's in use.

At present it is probably more feasible to protect only the circuits that pose the greatest risks, such as outdoor, kitchen, basement and garage circuitry. Lighting circuits have a small risk in comparison with utility circuits. A portable unit is available if you want protection that can be moved.

Take Care of Electric Blankets

It's time to put that electric blanket back to work for your comfort and convenience.

Here are a few clues on care. Plug in your electric blanket to see that all electrical parts are working properly as follows:

Check connections to be sure all plugs fit securely so the connections won't come apart in normal use.

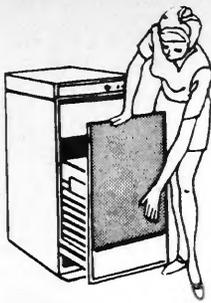
See if the signal light on the control dial goes on indicating that the blanket is heating.

Check the cord and if there are bare or worn areas, take the blanket and cord parts to an authorized dealer. Be prepared to wait about two weeks and longer if the blanket must be returned to the factory for replacement parts.

Never, never have an electric blanket dry cleaned. This usually ruins the insulation on wiring. Most blankets are washable. Read the instructions that came with your blanket and follow them carefully. If the directions have been misplaced, ask your dealer to supply a new set to match the blanket model you bought, or write to the home economics department of the manufacturer.

**GET THAT
WARM FEELING
ALL OVER**
WITH ELECTRIC HEAT.

**HAPPY NEW YEAR
TO ALL OF YOU
FROM
ALL OF US!!!!**



The Trash Compactor

The trash compactor is the newest and cleanest method of trash disposal to be introduced. It has been accepted not only because of its convenience for the homemaker and the vast potential for waste disposal savings, but also for its environmental and ecological benefits to the home and community.

The primary benefit of a compactor is convenience for the user — easier and fewer trips to the outside trash can, usually only once a week compared to every day without a compactor. And, the compactor provides opportunities for monetary savings on solid waste collection and disposal — less frequent and more efficient collection and disposal.

Also, the compactor has some ecological advantages, including a cleaner, neater, more sanitary kitchen and outside trash storage area. Each time any normal item of household waste is created, all one needs to do is pull open the drawer and drop in the trash. Almost all household items can be put into the compactor, including glass bottles, cartons, bones, plastics and some aerosol cans (avoid aerosol can containing explosives or inflammable products). Every time the compactor door is closed, a measured amount of deodorant spray is automatically released on the trash. Its special chemical formula helps control odors and helps to keep your home smelling fresh and clean.

The compactor will not operate unless the key lock is turned to "on" and the drawer is completely closed. This is a safety feature for families with small children. When the unit is activated, a ram exerts approximately 2,000 pounds of force to compact the trash. The unit may be stopped at any time during its 60-second cycle and then reactivated. The trash bag is moisture-proof and polyethylene-lined,

FEBRUARY, 1973

Adequate Wiring



Every homeowner at one time or another wonders if his house wiring system is adequate enough to handle the load demanded of it. Here are some indications that would suggest immediate help is needed.

1. Blowing of fuses when certain appliances are used together. The inability to operate your appliances as needed indicates that too large a load is being imposed on the circuit.
2. Overheated wires, switches, fuse box and plug-ins suggest that the current flowing through these are excessive or that a loose connection may be present.
3. Lights which dim down and stay down while something is running is a strong indication that wire sizes are too small to handle the load demanded of it.

and it may be easily removed and replaced when full.

The trash compactor is versatile. It may be used in many convenient locations where an adequately-wired electrical outlet is available. Also, it is inexpensive to operate because it is energized by a 115-volt circuit. As it is free-standing, it may be placed anywhere where extra counter space may be needed. Also, the trash compactor may be built into kitchen cabinets with no expensive alterations.

Compacted trash benefits sanitary landfills and is compatible with modern recycling systems and municipal incinerators. It is actually beneficial to a properly-operated sanitary landfill. The trash reduces the volume in the landfill cells and promotes quicker settling, while at the same time decomposing at about the same rate as non-compacted trash. Most modern landfill operations presently include compaction as part of the required sanitary earth covering process used.

These are just some of the indications of inadequate wiring.

Time has made many wiring systems inadequate. The designers of the wiring systems that were installed when lights were first available were unable to visualize the tremendous increased uses of electric current. The old 60-amp. fuse box was designed for loads of 35 years ago, plus the additional loads of the foreseeable future. Who could see, 35 years ago, electric air conditioners, electric clothes drying, electric water heating, electric clothes washing, electric garbage disposal, electric trash compacting, electric heating and the ever increasing number of electric kitchen appliances that the housewife has come to know and trust.

The remedy for an outdated wiring system is really not complicated. It usually means an increase in size of the service entrance and fuse box, plus additional circuits to various parts of the house. Some appliances, such as the freezer, refrigerator, garbage disposal, dishwasher and furnace should be placed on circuits by themselves. The kitchen should have at least two circuits to the receptacles, so that the small appliance loads in the kitchen can be split between the two circuits.

The actual work is complicated and should not be taken on by amateurs. A qualified electrician should be called.

Illini Electric

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

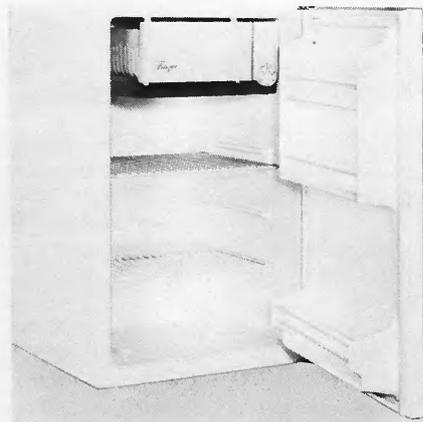
Headquarters Location—1605 South Neil Street, South of Champaign on U.S. Route 45.

Office Hours—8:00 A.M. to 5:00 P.M., Monday through Friday—closed all day Saturday, Sunday and Holidays.

Holidays Observed—New Years, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving and Christmas.

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What's New?



● Mini-Refrigerator

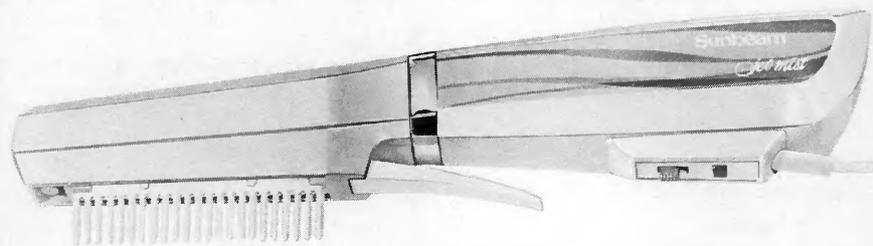
A 5.4 cubic foot refreshment refrigerator, designed for the home bar, den or recreation room is now available from Sears, Roebuck and Co. The new counter-high refrigerator has a small freezer section with a cube tray and is equipped with two adjustable shelves to allow for tall bottles. The compact Cold-spot is large enough to accommodate three 6-packs of 16-ounce beverage cans.

● Waste Disposer

The In-Sink-Erator Division of Emerson Electric Company introduces a new design in garbage disposals. It allows the wastewater to move out with greater flushing power, minimizing drain line clogging. The unit includes an automatic reversing action which doubles the life of the shredder parts. It also has polyfoam insulation around the grind chamber which reduces noise. The disposer has a one-half horsepower motor. Its stainless steel grinder prevents corrosion.



● Jet-Mist Comb



New from Sunbeam, the "Jet-Mist" heated comb offers instant wet styling or warm air drying at the touch of a lever. The Jet Mist delivers a large volume of fine spray while warm air provides dry-

ing power. The comb is convenient for home use or travel. It's great for nails, too. It comes with a wide tooth plastic comb, metal comb and a double-row bristle brush. The suggested retail price is \$23.98.

Grain Drying-

(Continued from page 10)

keeping the unit in operation during periods of high humidity, stopping the unit when the temperature drops below freezing, removing the finds from the grain and careful distribution and leveling to insure even air flow . . . The elevators were unable to get fuel enough for drying or to dry fast enough to keep up with deliveries and were forced to pile corn out of doors. Conventional dryers were using from 50 to 100 percent more fuel and operating very slowly while the low temperature dryers were drying corn to 15 to 16 percent in a little longer time than experienced in previous years. The users are well satisfied with low temperature drying."

Marvin A. Lauterjung, farm sales adviser, Illinois Power Company, Decatur: "In checking with electric suppliers and manufacturers throughout Illinois, we estimate that there are at least 400 electric low temperature grain drying units operating in Illinois . . . A bin should only be filled half full with 30 percent moisture grain. When this grain is dried to 22 percent continue to fill the bin . . . The bin can be filled in one day if necessary providing the grain is below 22 percent moisture . . . The two features of electric low temperature drying which have impressed farmers using it are the fast rate of fill and the high quality of grain produced by this system. Electric low temperature grain drying systems can be installed in corrugated steel bins or converted ear corncribs . . . After this past grain drying season we must agree that this method of conditioning grain was proven acceptable and has benefits for the farmers and grain processors in Illinois."

MAGNIFYING GLASSES



A Blessing For Folks Over 40

Read newspaper, telephone book, Bible and do close work easily. SEE CLEARER INSTANTLY. Not Rx or for astigmatism or eye diseases. 10 day trial. Sturdy, good-looking. Glass precision ground and polished; metal hinges. Send age, sex. SATISFACTION GUARANTEED. On arrival pay postman \$4.95 plus C.O.D. or send only \$4.95 and we pay postage. PRECISION OPTICAL CO., Dept. 109-A Rochelle, Ill. 61068

ILLINOIS RURAL ELECTRIC NEWS

Cut off the electricity and your life can be drastically affected for several hours.



Cut off your earning power and your life can be drastically affected for years.

Like electricity, good health is something we often take for granted. But just as lightning can suddenly cut off the electrical power, disability can just as quickly cut off your earnings. At a time when medical bills are added to the cost of everyday living, the loss of your income can be especially serious.

Your Disability Income Protection Plan can help see to it that you will have money to live on when you are unable to work because of a covered illness or injury. Underwritten by Mutual of Omaha, this plan can pay you from \$100 to \$800 a month depending upon the plan you choose and qualify for. These are tax-free benefits to help replace your paycheck. You use it on your family's needs as you see fit.

For more information regarding this Disability Income Protection Plan, just mail in the coupon below. Or contact your local Mutual of Omaha representative.



L. Earl Cutler
7600 West Main Street • P.O. Box 965
Belleville, Illinois 62223
Phone: (618) 398-1950

S. B. Stottrup
111 East Decatur • Decatur, Illinois 62525
Phone: (217) 429-5495

A. H. Harris
1119 South Sixth Street
Springfield, Illinois 62705
Phone: (217) 528-3434

W. C. Hayes
407 Rockford Trust Building • P.O. Box 419
Rockford, Illinois 61105

Jack B. Williams
Jack Williams Division: Office
285 South Plazaway
Cape Girardeau, Missouri 63701
Phone: (314) 334-2841

R. L. Thomas
309-10 Bondi Building
Galesburg, Illinois 61401

UNDERWRITTEN BY
**Mutual
of Omaha** 
The people who pay...

Life Insurance Affiliate: United of Omaha

MUTUAL OF OMAHA INSURANCE COMPANY
HOME OFFICE: OMAHA, NEBRASKA

Disability Income Protection Plan
Mutual of Omaha • Dodge at 33rd Street
Omaha, Nebraska 68131

Dept. 2R

Please rush me the complete facts on the Disability Income Protection Plan that can pay me up to \$800 a month in tax-free benefits.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

FILL OUT AND MAIL TODAY. NO OBLIGATION!



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

Members Call for Restoration Of REA Direct Loan Program

Illini Electric Cooperative members are deeply concerned about President Nixon's elimination of the Rural Electrification Administration (REA) two percent direct-loan program.

At their 35th annual meeting in Champaign, the members passed a resolution calling for President Nixon to rescind his executive order.

The resolution also stated that the members "urgently request their representatives in the United States Congress to use every effort within their constitution prerogatives to support the position of Illini Electric Cooperative and to legislate as necessary to curtail the usurpation of legislative powers by the administrative branch of government."

Illini serves more than 4,000 consumer-owners in Champaign County and parts of Douglas, Edgar, Piatt, Vermillion, Ford, McLean and Moultrie counties.

In his annual address, President Merle A. Buddemeier pointed out that "few of us realize the important part electric cooperatives have played in our standard of living."

Electric cooperative systems have barely one-tenth of the consumers per mile of line and only one-fifteenth of the revenue per mile of line compared to investor-owned electric utilities. They also serve areas of thin population, some with a declining population.

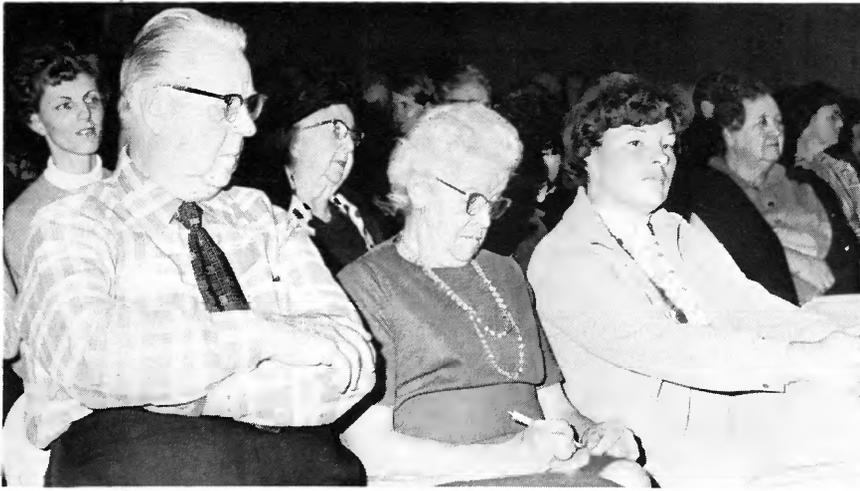
And so, for this and other reasons, electric cooperatives since their inception a generation ago have depended on loans from REA for most of their capital funds.

Buddemeier urged each member of the cooperative to contact their congressmen and let them know "we favor the original rural electric program as initiated some 36 years ago."

Walter R. Smith, manager, said the cooperative was making every effort to persuade the Administration to

Officers and directors at Illinois Electric Cooperative for 1973 are, (seated from left): E. S. Wetzels, Merle A. Buddemeier, Clarence C. Maddox and Charles C. Cole. Standing from left: French L. Fraker, attorney, C. V. Swanson, James F. Beatty, Wilbur W. Gady, Clarence P. Day, Irvin E. Liestman and Walter R. Smith, manager.





ABOVE: Members listen attentively to annual meeting speakers discuss the growth and the future of their cooperative. More than 500 persons attended the meeting. **RIGHT:** Clyde Gentry, a well-known educator and lecturer who was the former administrator of Crawfordsville Indiana Community Schools, was the keynote speaker.



reinstate the two percent loan program in the best interest of re-vitalizing rural America.

"You probably noticed that the cooperative realized a margin in its 1972 operatives," Smith went on to say. "That is certainly gratifying in view of the minus margins that have appeared over the last five years due to the heavy cost of restoring service after the devastating ice-storm in 1967."

Smith explained that the electric power industry is growing at a fantastic rate as people become more aware of the advantage of using electric energy.

"Illini Electric Cooperative is an important segment of the electric industry and it will continue to serve its member-consumers well," he declared. "The cooperative will also pay its fair share of the research and development cost necessary to meet society's energy needs."

Smith said that he had several inquiries during the past few months concerning the fuel adjustment which had been appearing on members' service bills since last October.

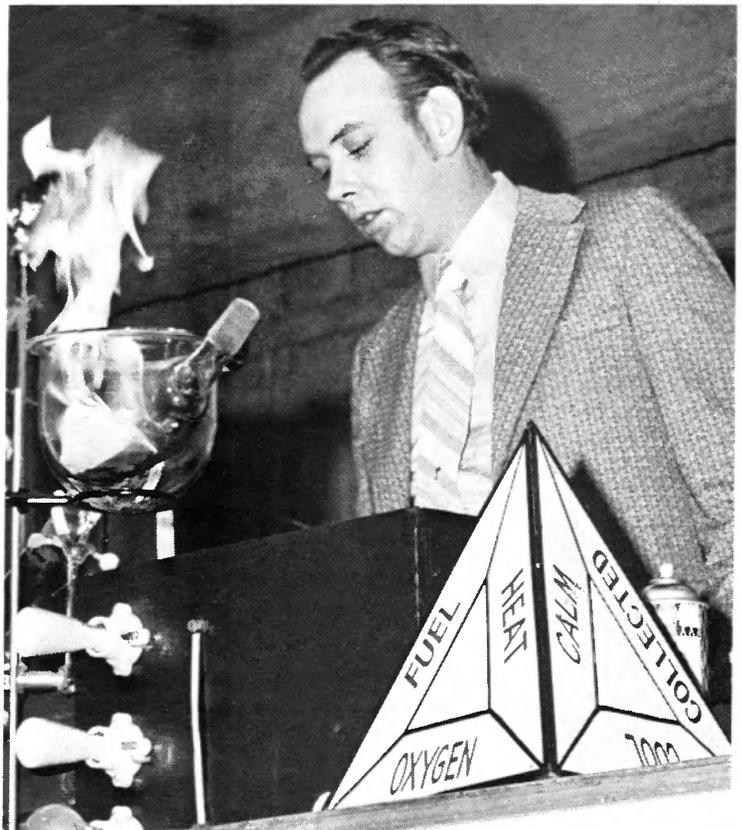
"Fuel cost is a major item in the production of electric energy and, therefore, our contract for wholesale power includes a clause providing for an adjustment of 0.1 mill per kwh for each \$.01 that fuel cost varies from \$.20 per million BTU," he explained. "Due to many factors, including shortage of usable fuels, the price has been steadily increasing over the past three years to where it is now.

"One of the reasons fuel costs have increased beyond former expectations is the recent laws enacted to reduce air pollution which prohibits the use of a large portion of the nation's coal reserves which has a high sulphur content—such as the coal in Southern Illinois.

"Much research and development is now under way for methods to remove pollutants from the smokestack gases, but until suitable means are installed and working, most of the coal being used is transported from out West—this increases its costs. The other fossil fuels (gas and oil) are in short supply."

Treasurer Charles C. Cole reported the cooperative remains in sound financial condition. Increasing financial obligations continue to be met, he said, reporting 1972 payments of \$243,628 in principal and \$55,665 in interest on REA loans and \$73,092 in taxes.

Cooperative members re-elected James F. Beatty, Buddemeier, and C. V. Swanson to three-year terms as directors. At their re-organizational meeting, directors re-elected all officers: Buddemeier, president; Clarence C. Maddox, vice-president; E. S. Wentzel, secretary, and Cole, treasurer.



Larry Holycross, University of Illinois Fire Department, demonstrated several fire prevention methods and controls.

What's New?

Consumer Assembly '73

(continued from page 7)

● Fun Furnace

Don't throw away your old bottles and glass! Quatre, Ltd., has introduced "Nova" a new electric hobby furnace. The Nova turns bottles and glass into artistic decorator objects. As a plus, you can also perform traditional enameling and firing of greenware and ceramic glazes. It's designed in two sections for tall and short bottles. Each section has its own power cord. The unit weighs less than 10 pounds and plugs into any 115 volt power source. The furnace is available in saffron yellow, pumpkin orange or chocolate brown.



● QuikDrip

"The Great American Coffee Machine" is West Bend's totally new automatic drip style coffeemaker. QuikDrip makes 2 to 8 cups of coffee at the rate of one cup every 90 seconds. The full 8-cup capacity takes 12 minutes. The water is heated to the proper temperature, then flows through the ground coffee to the glass carafe. The Carafe sits on a 70-watt warming plate which keeps it at perfect serving temperature. The unit, which has a permanent polyester mesh filter to assure crystal clear coffee, is available in beige or brown.



Freeman told the consumer group that if they don't get involved in the fight over a national energy policy they will end up the real victims of high bills, shortages and a polluted environment.

He conceded that future energy costs will go up but he is convinced the rise need not have a multi-billion-dollar price tag. He wants to buy time by beefing up research and development for new sources of cleaner energy.

"Long-term energy needs will only be met at reasonable prices in terms of dollars and the environment when the federal government launches a unified, vigorous research and development effort," Freeman said.

"With an Apollo thrust by 1985, the U.S. could develop at least seven new sources of cleaner energy. I contend that the country can research and develop itself out of an energy crisis with federal funding of \$1.5 to \$2 billion per year. That's about three times the present spending."

Another speaker at the assembly was Senator Phillip A. Hart of Michigan who stressed campaign financing reform and easing economic concentration as the steps needed if the "people" are to win in their battle with the "power brokers."

Other speakers included: Herbert S. Denenberg, Pennsylvania Insurance Commissioner; T. Donald Rucker, an advocate of reform of the pharmaceutical business; Robert McNeil of the Public Broadcasting System, and Ogden J. Johnson and Robert E. Wilmoth with the Food and Drug Administration.

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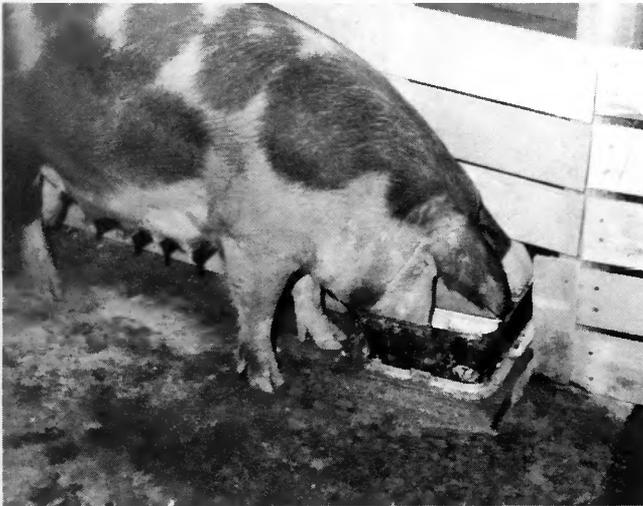
Illini Electric News

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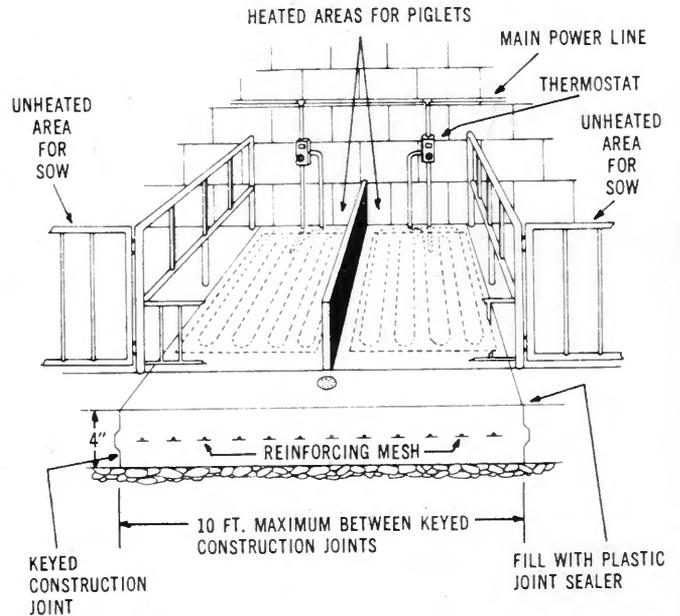
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Champaign, Ill.

Electric Heating for Livestock



ABOVE: Water fountains inside or outside a building can be protected from freezing by installing a small electric heater in the water. ABOVE RIGHT: As illustrated in this diagram of farrowing stalls with floor cable heat, each creep area can be controlled separately to allow some areas to be turned off when not in use.



Jim Fendley of Monticello recently installed cable heat in a new finishing building. Pigs which are three to four weeks old can be moved into each of the four pens where they will stay until sold.



The thermostat's sensing bulb is located in the concrete floor to control the floor temperature and is not controlled by the air temperature.

Electric Heating Cable From Farrowing To Finishing

Warm surroundings for newborn pigs are essential if the maximum number of pigs is to survive. One method of providing the warm environment for baby pigs consists of placing electric heating cable in concrete floors. Growing and finishing hogs can also benefit from floors warmed by electric heating cable.

A floor temperature of 90 degrees in the creep area will keep the baby pigs warm and safe. The floor temperature can be reduced about 6 degrees F. per week. A floor temperature of about 60 degrees F. is appropriate for larger animals.

Heating Mat

The easiest method of installing heating cable is the use of a heating mat. This is a prefabricated mat which has the cable properly spaced and anchored in the flexible mat and has the appropriate power leads and grounding strand as required by the National Electrical Code.

Installation

A common way to install heat cable has been to start with a gravel fill covered with a vapor barrier. A layer of insulation is normally used beneath the heat mat to impede the flow of heat from the mat into the ground. The insulation, which might be in the form of two inches of rigid insulation, is placed on the vapor barrier and covered with at least ¼ inch of grout, a cement and sand mix, where the mat is to be placed. The mat is then positioned on the grout and a concrete mix is spread

Figure 1.

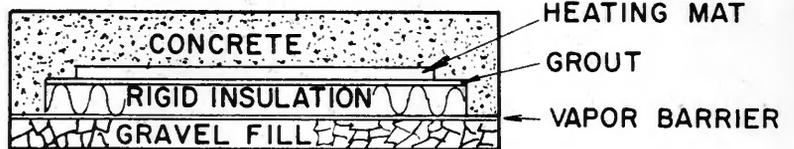
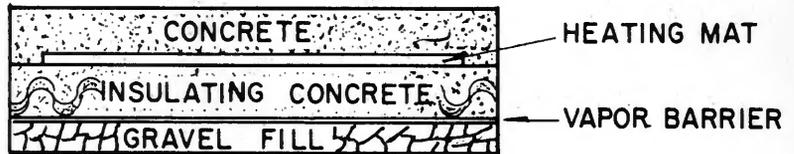


Figure 2.



over and around the heat mat to a depth of about two inches over the heat mat. The grout prevents melting of the insulation by keeping the heating cable away from the insulation. It also prevents burnout of the cable by providing a good heat-transfer medium around the heating cable (Figure 1). An alternate method consists of pouring three inches of insulating concrete over the floor area and vapor barrier, positioning the mat, and pouring about two inches of regular concrete over the entire area (Figure 2).

Another mat installation procedure which may be followed consists of placing a thin layer of sand over the vapor barrier. The mat is then positioned on the sand and covered with another layer of sand. A concrete layer is then poured to its full 3½ to 4½ inch thickness. The operating costs will be higher than for the installations utilizing some form of insulation under the mat (Figure 3).

Regardless of the mat installation method, insulation should be used around the perimeter of the building. This reduces the heat loss to the outside. A minimum depth for perimeter insulation should be two feet.

Thermostatic Control

About four farrowing stalls or finishing pens can be controlled with one thermostat. The use of additional thermostats will provide more versatility as far as regulating animal numbers and sizes per pen. The thermostat sensing bulb should be placed above the heating mat in one of the stalls or pens. A switch should be installed for each stall

or pen so the mat can be turned off when not needed. The amperage rating of the thermostat must be of sufficient capacity to operate all pens or stalls to which it is connected. If several pens are controlled by one thermostat, it is necessary to keep hogs in the pen that contains the thermostat.

The bulb should be installed in conduit which has the lower end sealed. The conduit protects the sensing bulb and capillary tube which operate the thermostat. The conduit also facilitates removal of the bulb if replacement is ever necessary. After installation, it is advisable to fill the conduit with oil to prevent moisture condensation inside the conduit and to provide better heat flow to the thermostat bulb.

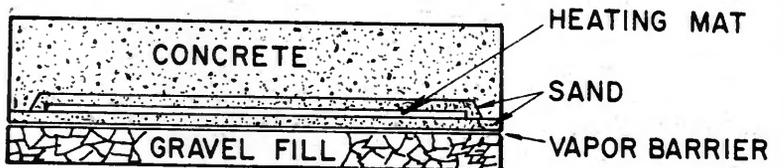
Heating Cable Wattage

Approximately 35 to 40 watts per square foot of floor area are recommended for the creep space in farrowing stalls in well-constructed buildings that do not have other heat sources. The heating cable should be turned on about a day before the sow is expected to farrow because the concrete warms up slowly.

Finishing buildings do not need as much of a heat source in the floor as is required for farrowing. If the building has an open front, about 17 to 20 watts per square foot is adequate. The normal procedure is to provide the recommended wattage in about one-third to one-half of the finishing area.

This publication developed by the 1972-73 IFEC Environmental Control Committee.

Figure 3.



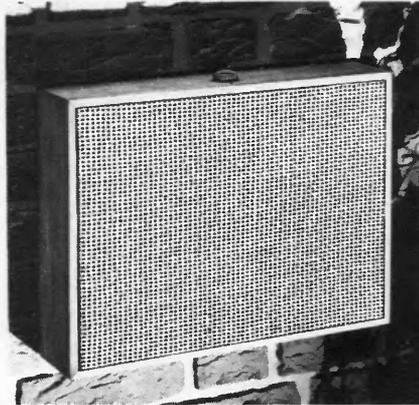
What's New?

A Time Of Crisis

(continued from page 5)

Patio Speaker

Add enjoyment to outdoor living with the Patio Extension Speaker. Complete in a redwood cabinet with attractive cane grille. The unit has a built-in volume control to adjust sound level outdoors. Installs easily with regular extension cord wire. Built to last and survive year-around weather. Manufactured by Argos Products Company.



Hot Pot

A new electric Hot Pot with fashionable avocado color-on-aluminum finish has been introduced by West Bend. The unit features two to six cup capacity, ideal for instant coffee, other beverages, soups and leftovers. The full range selector can be set from low to high with three intermediate settings. The automatic Hot Pot retails for under \$13.00.



Dehumidifier

Admiral has developed a new dehumidifier. The huge 23-pint water container has a built-in handle and a non-spill design. Capacity rating is 14 pints of moisture per day and features a humidistat control which shuts the unit off when preferred humidity level is reached. There is also a direct-to-drain hose connection. The pre-enameled steel housing is finished in Desert Sand.

Salad Maker/Can Opener

Rival's newest 2-in-1 appliance—shreds, grates and slices fruits and vegetables automatically. An all-around worksaver, it also opens cans with smooth efficiency. The salad maker comes with three chrome steel cones. The "Click 'n Clean" removable cutter makes cleaning a snap. It has a top-mounted On/Off switch, and the cord storage ends annoying cord tangle.



under the Rural Development Act.

The assistant general counsel's opinion points out that before a loan may be made under the act, the Secretary of Agriculture must determine that an applicant is unable to obtain credit elsewhere "from private lenders at prevailing interest rates and terms . . . manifestly, also, the prevailing interest rate is not limited to five percent."

Senate Agriculture Committee Chairman Herman Talmadge of Georgia in his address accused the Nixon Administration of "unconstitutional" action in terminating the direct-loan program.

Talmadge said REA is a key element for the continuing effort to improve the quality of life in rural America where "half of the poverty and 60 percent of the substandard housing in America is the burden of less than 35 percent of the total population."

Although the elimination of the direct-loan program over-shadowed the entire meeting, several other items were discussed.

Participants attended various meetings and discussions on rural and community development, the Occupational Safety and Health Act, boards and management, bipartisan political action, financial management, legal affairs, future energy sources and elements of a national energy policy.

Also at the meeting, Charles E. Wyckoff of Piekton, Ohio was elected president of the board of directors of NRECA.

Wyckoff previously served as vice-president of the NRECA board and replaces Louis Strong of Louisville, Kentucky, who served in that position for three years.

Named as vice-president of the board was John R. Dolinger of Clarksville, Tennessee, and re-elected secretary-treasurer was Paul Ogier of Wallace, Nebraska.

Safety Training Means Increased Productivity

“Unsafe acts account for 88 percent of on-the-job accidents while only 10 percent results from unsafe conditions. And 90 percent of the conditions described as unsafe have never created an accident. When it comes to job accidents, we’re looking too much at the wrong reason. We must continue to emphasize that job accidents can be reduced through proper personnel safety training.”

So said Ernest Shearer, Job Training and Safety (JT&S) Instructor, Indiana Statewide Rural Electric Cooperative, Inc., Indianapolis. He directed his comments to nearly 150 key individuals of Illinois electric cooperatives represented at the 29th annual Illinois JT&S Conference in Springfield.

“To illustrate my point,” Shearer continued, “41 of 52 accidents in our statewide systems occurred in the nine systems which do not participate in our JT&S program. Our industry is fast becoming more and more technical and we can’t wait five years to train our people for something which they should know about today. Safety is the responsibility of management and work crews require specialized training.”

The Illinois JT&S Program—the first of its kind in the United States—was formed on May 20, 1941 when the JT&S Committee was created in cooperation with the Board of Vocational Education and Rehabilitation (BVER), State of Illinois.

Sherwood Dees, Director, Division of Vocational and Technical Education, State of Illinois, told the group: “Since 1941 we have had a most rewarding relationship with the JT&S Committee and the Association of Illinois Electric Cooperatives. We have been most willing to financially support and assist in this favorable program. Some JT&S programs in other states are just starting to figure out how to do what you’ve doing for years . . . The need for retraining and upgrading of skills is

of the highest priority . . . Today there is a demand for vocational training and skilled workers. Use your influence as citizens and taxpayers to see that educational facilities are providing vocational and technical training to meet the increasing need.”

Other safety speakers included Ralph M. Coe, Director, Resources Division, Industrial Department, National Safety Council, George J. Keller, Director, Association Safety Services, Employers Insurance of Wausau, and Paul J. Campeggio, Supervisor, Construction Safety Inspector, Illinois Department of Labor.

“Although we have different living and working conditions,” Coe said, “we all live a reasonably safe life. Each of us, because of our concern for our fellowman, has a role to play in everybody’s safety.”

Campeggio talked about the Occupational Safety and Health Act and similar requirements by the State of Illinois: “We must be concerned about working conditions around energized lines and take the necessary precautions for employee protection. Although new types of equipment and machinery with new safety features are being used today, personnel must have the proper training in their use. The OSHA requirements and state requirements protect both the employer and employee. It’s a fair act. Most of you are following safety procedures which won’t call for enforcement. Inspections of working conditions will be conducted on what will be a ‘worst, first’ basis according to the most complaints received by our department.”

Keller said: “Protect yourself by keeping in top physical condition, by maintaining the proper mental condition and attitude, and by having knowledge of your job. Be interested in finding out about the work you’re doing and understand how it’s being done today.”

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Illini Electric News

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Dry Your Corn Electrically, Economically

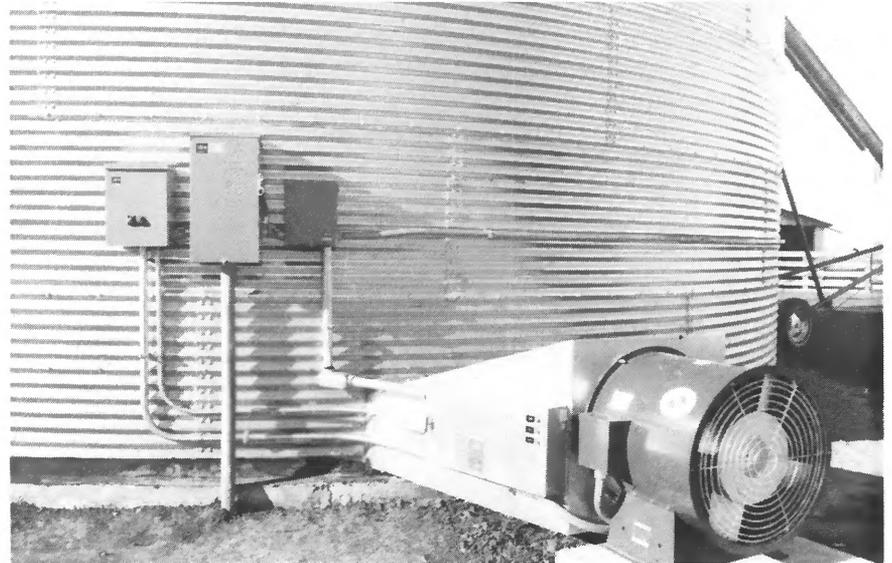
Research on low-temperature drying of shelled corn is swinging the drying process away from high heat and big fuel bills.

Dr. Gene C. Shove, professor agricultural engineering at the University of Illinois, assisted in developing this new drying method. It is based on the use of natural air during October and November. Only a little electric heat is added to control humidity during the drying process.

Final moisture content of shelled corn dried with unheated air during this period will probably be 17 to 19 per cent because relative humidity is expected to average about 80 per cent. Drying corn to 15 per cent moisture content requires the addition of enough heat to lower the relative humidity of the air to about 65 per cent. An increase of 7 degrees F. in air temperature will be required to reduce the relative humidity of 30 to 50 degrees fall air to 60 to 70 per cent. Even with the addition of this heat, the air temperature will still be low enough to ensure several weeks of storage for undried corn.

One advantage of this new drying method is that a bin can be completely filled in one day with grain that has a moisture content of 22 per cent, if the proper filling and drying procedure is followed. More important is the fact low temperature, electric heat provides higher quality grain.

An understanding of the allowable storage time is important, as well as proper sizing of air-moving and heating equipment. The bin can



Eleven electric grain dryers similar to the one shown above were operated last fall. All the corn taken from the bins after drying was of excellent quality and had no spoilage despite the severe weather conditions. Drying costs ranged from three to five cents per bushel which was favorable to drying with LP gas.

be filled without delay. A distributor should be used to ensure uniform grain distribution. Fine material should be screened out to ensure even air distribution.

Drying shelled corn with air having a daily average temperature in the range of 30 to 50 degrees Fahrenheit is a slow process because of the limited capacity of low-temperature air to absorb moisture. However, drying can be completed within the corn's allowable storage time if sufficient air is moved through the bin.

If you are interested in obtaining more information on Dr. Shove's method of low-temperature drying of shelled corn with electric heat, your cooperative has a publication developed by the Materials Handling Committee of the Illinois Farm Electrification Council. This publication is free for the asking.

A new grain-drying unit, "Grain-lamp," uses infrared heat lamps to provide radiant energy for drying. The lamps are mounted in windows set 10 feet apart in the walls of the bin and below the perforated floor.

Stay in the Car After Accident

In the past few months there have been several car-pole accidents in the cooperative area. Hitting the pole or any accident is bad—but what could happen makes your cooperative personnel a little nervous. So we offer this advice:

Should your car crash into a utility pole and the wires fall across the vehicle, **STAY** in the car. You are safe **INSIDE** your vehicle. The wires could make a lethal weapon of the entire metal body of the car. If you open the door and step on the ground, you may be electrocuted. The same fate would be suffered by any would-be rescuer touching the car.

PLAY IT SAFE by staying in the car, warning bystanders to keep away and by asking someone to phone the local electrical utility and police.

If you witness such an accident, remember you should never go within ten feet of **ANY** fallen wires!

Stand-by Systems Are Useful

The topic of stand-by generators and alternators for farm and home use has been quite popular since the recent ice storm.

We have always recommended the use of stand-by equipment especially for farms raising livestock in confinement buildings, for dairy farms, and for homes where sickness is involved. But, like so many other things, the purchase of a stand-by generator is easily put off until an emergency situation exists.

Usually there are several questions that arise in a discussion of stand-by equipment. What size to purchase? What is needed to install the equipment? How is it powered? What about servicing of the equipment? What will it cost? We will attempt to answer some of these questions in this article.

The most important factor in selection of a stand-by system is the size or capacity. A careful study should be made to determine how much and what kind of equipment the system must operate. What is the total wattage to be operated?

A long-ranged view should be maintained in selection of the system.

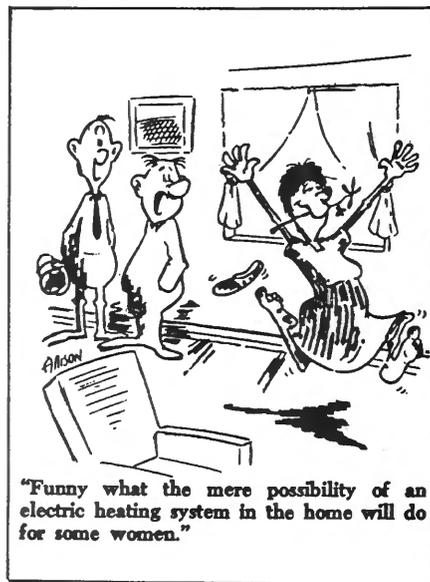
Long-range plans may include additional equipment which will be connected to the stand-by system. This planned additional load should be added to the present load when selecting the capacity of the standby system.

A power unit to operate the stand-by system must also be considered. A farm operation usually will have a tractor available to power the unit, so a power take-off model emergency unit would be the type considered. However, the system can be purchased complete with engine. The type of fuel to be used in the engine must be considered when a complete unit is selected. Availability of the various fuels and local regulations governing the storage of gasoline and gaseous fuels must be given careful consideration in selecting an engine.

Electric utilities require transfer (double throw) switches be installed in stand-by electric generating systems. The use of the transfer switch prevents current generated by the stand-by unit from feeding through the electric utility transformer onto power lines where utility personnel may be working. In one position, the transfer switch will allow power to flow from a normal source of power. In the other position, contact with the normal source of power is broken and contact is made with the emergency system.

Service for the emergency unit can be important. We recommend the purchase of a unit from a dealer where parts and service are readily available. The unit should be operated at least once a month and checked for any needed repairs. This not only allows the user to make any needed repairs but keeps him familiar with the proper operation when an emergency does arise.

The stand-by unit can be used to power electric tools in areas away from a normal source of power. A portable unit, for instance, could be used in making repairs to machinery in the field, provide lighting for a picnic, or to power a water pump.



SPRING HOUSE CLEANING

When the jonquils begin pushing up out of the ground, you can rest assured the housewife starts thinking about spring house cleaning. But, with electric heat, it is kept to a minimum.

Yes, electric heat is clean. But, like any other fixture in the rooms of your home, electric heat will gather dust and lint. A vacuum cleaner with a crevice or brush attachment will reach and clean most deposited dust on both the baseboard heaters and the wall type heaters.

Before beginning the cleaning job, be sure the electricity is turned off at the service panel for the circuit serving the heater. Take off the front panel of the wall heater by removing a few screws. Most baseboards have spring-like clips that hold the face-panel in place. The central electric heating system, such as the electric furnace or heat pump, can be simply cleaned by changing the filter. The only heating system that requires absolutely no cleaning is the completely hidden ceiling system, such as ceiling cable.

But, we can say with assurance, electric heating, no matter the type, is clean in that it in itself produces no dirt, or soot and leaves no film.

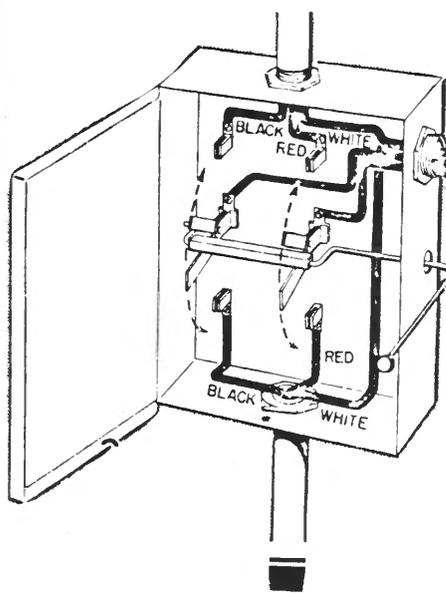
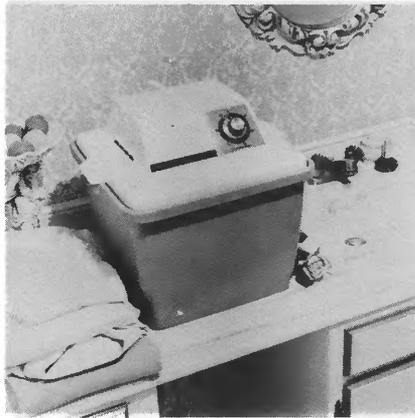


Figure 1: The wiring of a typical double-throw transfer switch. Note that the neutral (white) wires are fastened together while the hot (black or red) wires are fastened to the switch terminals. The switch is shown in the neutral or open position.

What's New?

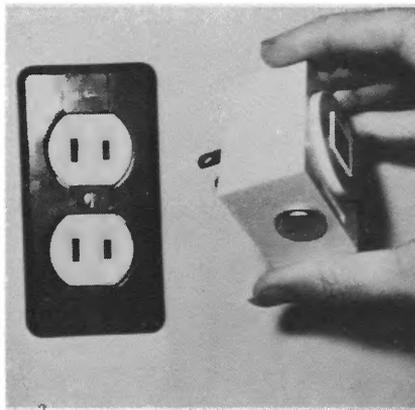
Mini-Washer

Rival's new portable "Wash-O-Matic" is just right for today's compact living. The mini-washer is 15 inches high and 14 inches square, yet, it's big enough to do a two-pound load. It features a 30-minute timer, lint trap, and shuts off automatically. The tub, cover and three-vane agitator is made of sturdy polypropylene. The suggested retail price is \$42.95.



Fire Alarm

The world's smallest fire alarm has been developed by the James W. King Company. The tiny alarm with a big voice sounds off when the temperature reaches 135 degrees. It can be moved from room to room and even packed for use in motel and hotel rooms. The alarm operates on 115 volt current and plugs directly into outlet. The suggested retail price is \$9.95.



Swivel TV

Zenith has introduced a new "Turn it, Tilt it" black-and-white TV set. The 12-inch diagonal set features solid state modules, instant picture and sound, plus a "private listening" earphone with 15-foot

cord. It also includes a 48-inch monopole antenna and convenient top carry handle. The Rosewood color cabinet is available in white or ebony color trim.

House Sustains Rural Water—Sewer Veto

The House of Representatives on April 10 sustained President Nixon's vote of a bill (H.R. 3298) to restore the rural water and sewer grant program which had been terminated by the Administration earlier as an economy move. This program has been an integral component of the Rural Development Act of 1972.

The vote to override the veto was 225 to 189—51 sort of the necessary two-thirds.

As an admitted move to influence Congress to sustain the veto, Secretary of Agriculture Earl L. Butz on April 9 announced a \$100-million rural sewer loan (not grant) program, also under the Rural Development Act, as a "substitute" for the terminated grant program. The loan program will provide loans at 5 percent interest to rural communities to install water and sewer lines.

When he terminated the congressionally authorized program, the President claimed there were other rural aid programs which could be used for the same purpose at less cost to the government. H.R. 3298 would have ordered the Administration to continue the terminated program.

According to testimony before the House Agriculture Committee in February, experience shows that in about 70 percent of sewer system applications and about 30 percent of water applications, a grant is necessary to make the system economically feasible. Such rural communities would not be able to qualify for loans.

In a last-minute plea to House members to override the veto, Speaker Carl Albert of Okla. said, "We are dealing with the authority of the Congress of the United States to make the laws of the land. The merits of the programs are too great to be caught up in the destruction (caused by) a partisan power struggle."

Youth To Springfield

Thirty-five finalists in the 1973 "Youth to Washington" contest sponsored by Adams Electrical Co-operative, Illinois Rural Electric Co., and Western Illinois Electrical Coop. were special guests at the state capital recently as part of this year's "Youth to Springfield" activities.

Each year, most of the 27 Illinois distribution electric cooperatives hold annual essay contests to pick their winners for the week-long "Youth to Washington" tour.

Seven cooperatives this year added a new dimension to the contest—a tour of the state capital for finalists.

It was difficult to say who was the most impressed, the young cooperative essay contest finalists or the government workers and legislators. Everywhere the group went, those who they met complimented the group on how well-mannered and clean-cut they were.

"Trouble? With these kids? Not hardly," Bob Patton, tour director of the Youth to Washington and Springfield tours, said.

"This is my third year on the tour and we have never had any trouble. They are all too mature for that. Look at them, I really believe they are the leaders of tomorrow."

Upon arrival at the Capitol, the students rushed over to meet with Secretary of State Michael J. Howlett. Secretary Howlett said he had "all the faith in the world in our young people. I urge each and everyone of you, and especially you girls, to become involved with our political system."

From there, the students visited both houses of legislature in session.

"Mr. Speaker!" Rep. Michael McClain of Quincy cried over the dull roar on the House Floor. "I would like to ask that we take a few minutes to recognize some special visitors with us today."

"In the gallery are some 30 outstanding high school students who are touring the capital city today, sponsored by the Illinois electric cooperatives."

Every member of the House Floor of the 78th General Assembly rose to applaud their guests.



Secretary of State Michael J. Howlett welcomes the "Youth to Springfield" group to the capital city.

To someone who hasn't visited the legislature before, the scene on the floors of the House and Senate looks like things are in utter turmoil.

Legislators quickly pointed out to the group that most of the debates have been heard before in committee meetings or in an earlier session. But when a crucial vote is at hand, utter silence is observed.

Outside the Senate chambers, Sen. Clifford B. Latherow of Carthage took time from his busy schedule for a short question and answer session. From there the students went on an open-door tour of Lt. Governor Neil Hartigan's office.

Following an afternoon of touring the Association of Illinois Electric Cooperatives' headquarters, the Old State Capitol and Lincoln's home and tomb, the group met for an evening banquet with their area legislators.

Senators John L. Knuppel of Petersburg and A. C. "Junie" Bartulis of Benld, along with Representatives Clarence Neff of Stronghurst, Ken Boyle of Carlinville, McClain, Gale Schisler of London Mills and Mary Lou Kent of Quincy spent an informative and enjoyable evening meeting and dinner with the group.

Eastern Illinois Power Cooperative, Egyptian Electric Cooperative Association, Southwestern Electric Cooperative, Inc., and Wayne-White Counties Electric Cooperative sponsored a similar tour for their some 50 finalists on June 6.



Illini Electric News

Illini Electric Cooperative

Phone 352-5241

Champaign, Ill.

MANAGER'S COLUMN:

In The News Bin

BY WALTER R. SMITH

Bonus Bucks Program To Be Discontinued

For several years your cooperative has been making a cash incentive payment to members who add certain major appliances to the electrical system. Many of you participated in this program.

The program, "Bonus Bucks," appeared to be somewhat effective in improving load factor on the system, thereby helping to control power costs and defray amortization expense. We believe that it also had some influence in many members' acceptance of new, or improved appliances and electric home heating, air conditioning, etc. The program's best contribution to the cooperative's long-range objectives has been to provide useful information in designing the basic system and revamping local installations to alleviate service problems.

We also felt that the bonuses offered were sufficient to encourage

each member to report the addition of major appliances which allowed our engineering department to adjust capacities prior to emergency situations which may result without such notification.

Due to many significant factors it has become necessary to discontinue the "Bonus Bucks" program. Your board of directors has devoted considerable time and effort to this decision throughout the past several months. The program will be discontinued for any of the covered additions reported after August 31, 1973. This date was established to allow sufficient time for this notice to reach all members, as well as to provide sufficient time to reprint bill-forms and other material which advertised the program.

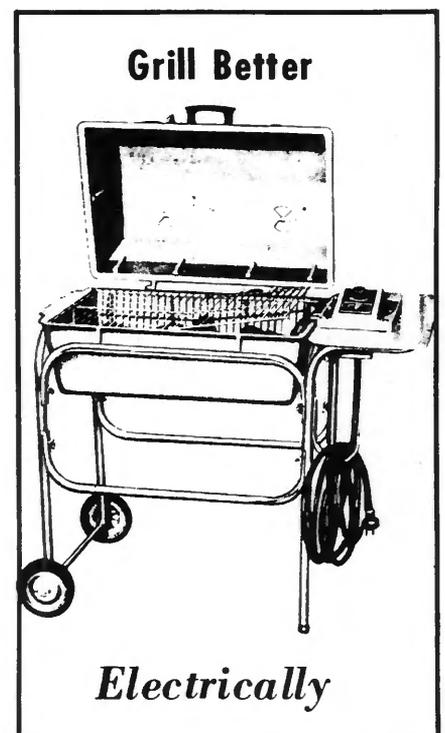
In the deliberations by the board and key staff members concerning the "Bonus Bucks" discontinuance, it was generally agreed that we should cooperate in the national effort to conserve the country's natural resources as well as reduce the cooperative's expenditures in promotional activities.

Costs of rendering high-quality, continuous electric service to each member have increased at such a rapid rate recently that it is necessary to re-evaluate all costs very critically. Particular emphasis will be placed on those items that are considered unnecessary to the basic function of providing high-quality, continuous electric service at the lowest cost consistent with good long-range goals of the cooperative.

Although the cooperative has discontinued its bonus payments as an incentive, I trust that you will continue to report to, and discuss with, the cooperative staff any major additions to your electrical system. This will permit us to keep the facilities, both on a system-side and local basis, adequate to supply all needs. This will prevent emergency outages, low voltages and other disenchanting experiences which neither you, nor the people trying to serve your electrical needs, enjoy.

Although the "Bonus Bucks" program will be discontinued on August 31, 1973, we urge you to advise the cooperative staff whenever you anticipate the addition of major appliances so that adjustments in available service capabilities can be made on a planned basis and your service reliability will be preserved.

The addition of grain drying and space heating equipment is particularly critical and we must know in advance of your plans. It normally requires at least three-months lead time to engineer the necessary changes in service facilities, acquire the equipment and complete the revamp work required to adequately serve these kinds of additional electrical loads. It is our job to coordinate the facilities to your needs. We are proud and happy to be able to do it, but we must have your cooperation to enable us to do the job early enough to meet your requirements. Please feel free to discuss any of your electrical problems with staff members of Illini Electric Cooperative. Thank you.



ILLINOIS RURAL ELECTRIC NEWS

Keep cool, dry and breath better in the months ahead

ROOM AIR CONDITIONER SELECTION GUIDE									
WEST		SOUTH		EAST		NORTH			
Ceiling under occupied room or insulated ceiling		Un-insulated ceiling under attic		Ceiling under occupied room or insulated ceiling		Un-insulated ceiling under attic		Ceiling under occupied room or insulated ceiling	
B.t.u.s		under attic		under attic		under attic		under attic	
33,000	1740	1000	1820	1050	1920	1090	2150	1230	Sq. Ft.
29,000	1440	830	1510	870	1590	900	1785	1010	Sq. Ft.
23,000	1140	670	1300	710	1270	730	1420	830	Sq. Ft.
18,000	860	510	920	540	970	560	1060	620	Sq. Ft.
17,000	800	475	870	505	915	525	1005	585	Sq. Ft.
16,000	750	440	820	470	860	490	950	545	Sq. Ft.
15,000	685	405	750	430	790	450	870	500	Sq. Ft.
14,000	620	370	680	390	720	410	790	450	Sq. Ft.
13,000	595	330	605	350	645	365	680	405	Sq. Ft.
12,000	470	285	530	305	570	325	625	355	Sq. Ft.
11,000	442	268	445	265	535	305	555	320	Sq. Ft.
10,000	365	205	360	225	390	235	425	260	Sq. Ft.
8,500	290	180	310	200	355	215	380	235	Sq. Ft.
8,000	230	140	250	160	290	185	330	210	Sq. Ft.
7,500	170	125	220	140	240	160	280	180	Sq. Ft.
6,000	150	100	170	110	190	120	205	130	Sq. Ft.
5,000	130	90	145	100	170	110	180	110	Sq. Ft.

- Determine the wall with maximum outdoor exposure (West Maximum and North Minimum).
- Which factor exists:
 - Ceiling under occupied room or insulated ceiling under attic.
 - Uninsulated ceiling under attic.
- Size of room— Length x Width: (Sq. Ft.) This is your Key Number.
- Take your Key Number and find the closest figure to this in the appropriate column. The B.t.u. column, above, will indicate the estimated B.t.u.'s cooling capacity required to cool your particular room.

When the lyricist wrote, "The weather outside is frightful, but in here it's so delightful," he was talking about blustery winter. However, his words are equally apt during sweltering, humid summer days if you have home air conditioning.

A summer air conditioner performs four basic functions. It cools, dehumidifies, cleans and circulates conditioned air in an enclosed space, room or zone.

Some features of room air conditioning in the home include:

- Controlled, comfortable temperature and humidity conditions which contribute greatly to sound, restful sleep.
- Humidity controls can eliminate moisture problems such as mildew, damp closets and musty summer odors.
- Air filtering is an integral part of air conditioning equipment and helps reduce airborne dust, dirt and pollen.
- Outside noises are reduced because windows and doors are closed.

ROOM AIR CONDITIONERS OFFER MANY OTHER ADVANTAGES

- Quick results. Smaller units can go home in the car trunk, install in the window with a quick

mounting kit, plug into an existing adequate outlet and start cooling.

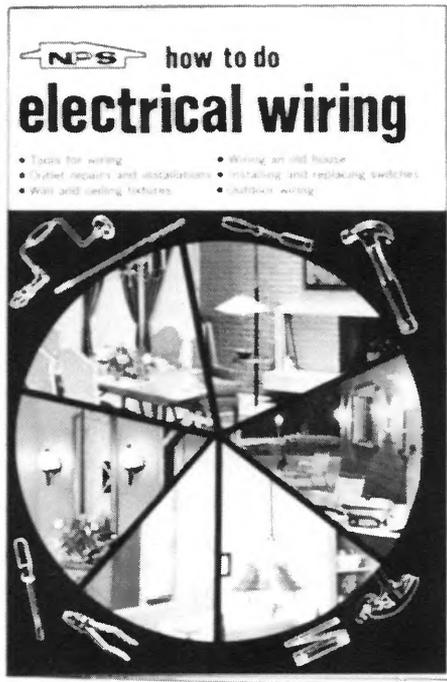
- Condition large or small areas. Units are available as small as 4,000 BTU to as large as about 33,300 BTU.
- Air condition part of your house at a time. Additional units can be added as desired. You can switch units around if you wish.
- Room air conditioners with decorative fronts and hidden controls are an asset to any room decor.
- You can get units for your present 115-volt household wiring.
- Room air conditioners can be used where unusual conditions make the installation of central air conditioning impractical.
- Installation of room air conditioners can be made through the wall if windows are not in ideal locations for the units.
- Models for double-hung, casement and awning-type windows are available.
- YOU DO NOT have to worry about ducting since window room air conditioners do not require ducts.

Make your home "delightful" this summer if you haven't already done so, by adding the air conditioning or room air conditioner suitable for your needs.

What's New?

Wiring Book

The new "How To Do ELECTRICAL WIRING" book provides handy tips and instructions for the average home electric installations and repair. The contents cover basic wiring data; wiring problems and solutions plus general basic electrical specifications for individual projects and tools required. For your copy send 85¢ to National Plan Service, Inc., 1700 W. Hubbard, Dept. 276, Chicago, Ill. 60622

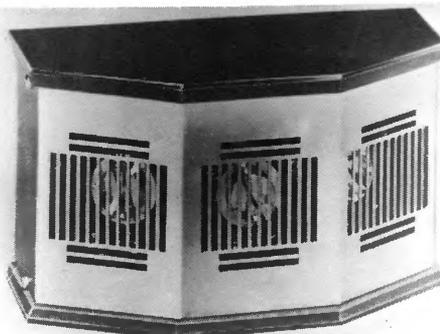


Refrigerator

Cold snacks and beverages are always within convenient reach with the party portable refrigerator from General Electric. The refrigerator is an ideal addition for the den, patio or family room. The 2.1 cubic-foot refrigerator is equipped with ice trays and is finished in simulated wood-grain vinyl. The custom cart has a stain-resistant walnut finish and twin teacart handles which form caddies for up to eight glasses.

Rat-i-cator

Russell Enterprises has developed the "Rat-i-cator." The device drives rodents away by generating a high frequency ultrasonic sound. The compact one pound unit operates from 24 volts so an electrician is not necessary for installation. The Rat-i-cator operates night and day and covers up to 3000 square feet of area.



Energy Answers Aren't Easy

Availability of energy adequate to maintain a vigorous economy must be accompanied with assurances that sources of such energy are sufficiently reliable and dependable to guarantee our national security.

So said Charles A. Robinson Jr. recently in a talk prepared for state government leaders. Robinson is the head of the new energy and environmental policy division of the National Rural Electric Cooperative Association, Washington, D.C.

Robinson pointed out that while energy consumption is growing at a fantastic rate, the more easily recoverable supplies of petroleum and natural gas—which together supply 78 per cent of our total energy—are approaching depletion.

Warning against removing price restraints on fuel, Robinson said: "If all restraints are lifted, the retail price of oil will be set by producers in a substantially noncompetitive, seller-controlled market . . . From the consumer's viewpoint, there is no guarantee that higher prices will produce more oil or gas or how high the price must go before the shortage can be relieved . . . Nor does anyone outside of the industry itself seem to know precisely what it costs to produce these products."

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Roaches eat Sure Kill greedily and return to their nests which they contaminate, starting a chain reaction that wipes out all other roaches and eggs. Sure Kill never wears out, is absolutely odorless and safe to use. It contains no D.D.T. A single can cleans out six rooms and keeps them free of roaches and waterbugs for five years. Money back guarantee. Send just \$3.98 for one can, two for \$6.98 postpaid.

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ILLINOIS RURAL ELECTRIC NEWS

Cut off the electricity and your life can be drastically affected for several hours.



Cut off your earning power and your life can be drastically affected for years.

Like electricity, good health is something we often take for granted. But just as lightning can suddenly cut off the electrical power, disability can just as quickly cut off your earnings. At a time when medical bills are added to the cost of everyday living, the loss of your income can be especially serious.

Your Disability Income Protection Plan can help see to it that you will have money to live on when you are unable to work because of a covered illness or injury. Underwritten by Mutual of Omaha, this plan can pay you from \$100 to \$800 a month depending upon the plan you choose and qualify for. These are tax-free benefits to help replace your paycheck. You use it on your family's needs as you see fit.

For more information regarding this Disability Income Protection Plan, just mail in the coupon below. Or contact your local Mutual of Omaha representative.



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Illini Electric News

Illini Electric Cooperative

Phone 352-5241

Champaign, Ill.

Why Suffer?



The hot humid weather is upon us again and many of you are thinking about how you can cool your home.

Several ideas will come to mind, window fans, attic fans, and air conditioners. Each of these will help to control the temperature inside the house. The attic and window fans have been around for a long time and have won their place in the design of house cooling. The window fan and attic fan are most effective for night cooling. They do an effective job of pulling in cooler nighttime air to replace the hot humid daytime air that has built up in the house during the day. They do not do much toward cooling during the day while outside temperature remains high.

Effective house cooling during the day and night can best be provided with an air conditioner. This unit may be a window mounted unit or a central system using the ducts of the forced air heating system to distribute the cooled air throughout the house.

Both of these systems have their advantages. The window unit is easier to install and less expensive. The central system, while it is more expensive, does a much better job of distributing the cooled air throughout the house for total comfort. Any good forced air system will incorporate a central air conditioning system with a minimum amount of work. The unit is permanent and does not require removal during the heating season.

One disadvantage of the window air conditioner is its limited air distribution. Window units will normally not be able to cool the entire house without over-cooling the area, where the window unit is located.

Air conditioning can mean a lot to the entire family, but it can be said that the housewife will benefit the most. The additional heat released while cooking greatly increases the temperature in the house. This uncomfortable condition has a tendency to tire the housewife. An air conditioner helps to create a better working atmosphere and the housewife is the benefactor. The housewife will also receive another benefit in that the house

will be a lot easier to keep clean. Air conditioning allows the home to be completely closed up, keeping out the dirt and dust that normally is blown into the house.

Members of a family affected by hay fever and allergies receive the greatest health benefit with an air conditioner. Pollen infiltration is lessened by having the house closed up. The filtering element of the air conditioner also screens out sources of discomfort for these sufferers.

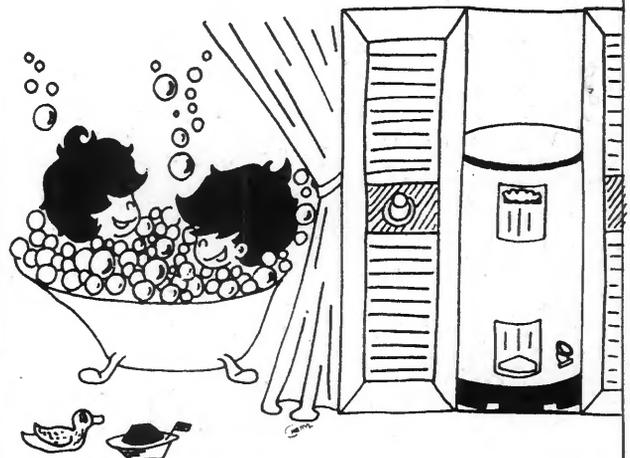
Drapes, walls, carpet and furniture do not need to be cleaned as often with air conditioning, saving both time and money.

The entire family sleeps, eats, and feels better with air conditioning. The family feels like doing more things together and is less irritable than when they are hot and uncomfortable.

Air conditioning is a must for people who suffer from heart problems. Studies have shown that the heart does not have to work nearly as hard in a comfortable condition as it does in hot, humid condition when the body is trying to remove excess heat.

For your comfort and peace of mind and for better health, take advantage of the air conditioning specials being advertised at this time of year.

US KIDS GET INTO MORE HOT WATER...



ESPECIALLY WHEN IT'S ELECTRICALLY HEATED. AN ELECTRIC WATER HEATER FITS CONVENIENTLY INTO ANY AVAILABLE SPACE.

SO TURN YOUR OLD-FASHIONED BATH TUB INTO A MODERN BATH WITH A QUICK-RECOVERY, FLAMELESS ELECTRIC HOT WATER HEATER!!

Ideas For Economy In Use Of Electricity

DON'T COOL UNOCCUPIED AREAS

Sound obvious? Well, just step into the average conference room that's used maybe once a week. Brr! Or how about storerooms, meeting rooms, even auditoriums?

COOL ON NIGHTS PRECEDING HOT DAYS

This may seem to contradict the "Don't" suggestion, but cooling load can be reduced significantly when it's known the coming day will be a sizzler, if the cooling equipment is operated at night and early morning to cool the building.

Then the temperature can be allowed to rise slowly in the afternoon, when the outside air is the hottest and cooling load would be the greatest.

SHUT DOWN COOLING WHEN NOT NEEDED

Essentially, during holidays, weekends, vacations and labor strikes — depending, of course, upon the customer and the building.

VENTILATE UNINSULATED ATTICS

This involves investing in an attic ventilator or cooling fan, but the savings in the long run on air conditioning will return the investment.

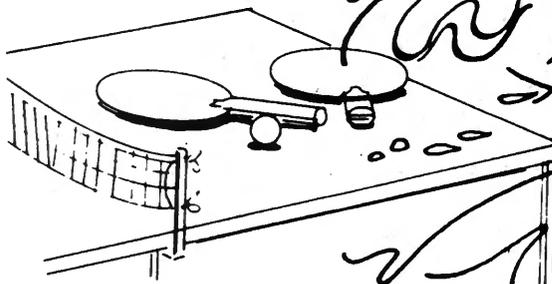
Attics turn into ovens in hot weather, reaching temperatures over 140 degrees Fahrenheit. This mass of hot air above the ceiling is another costly load on cooling equipment.

VENT ALL MAJOR HUMIDITY PRODUCERS

In most cases, this means the clothes dryer, which releases a whopping 26.4 pounds of water vapor per cycle. But restaurants and certain industries may have equipment with similar or greater impact.

If humidity is kept outside, it won't have to be released by expelling conditioned air, nor will it add to dehumidification load.

Haunted By A Damp Basement?



Maybe You Need a Dehumidifier!

Excess humidity can cause rust and corrosion in your basement—or "sneak" upstairs, and cause warping, mildew... unpleasant odor and discomfort.

Protection against dampness damage is important. Excessive humidity—damp air—is a very common problem in the temperate zone during the summer months. High humidity is especially noticeable in basements, enclosed or unused rooms where circulation is limited, or where a large amount of moisture is added to the air, as in laundries.

While high humidity may appear to be only a minor inconvenience or source of discomfort, it can cause costly and irreparable damage. Moisture most frequently attacks in two ways:

RUST OR CORROSION of metal objects is accelerated by mois-

ture and results in discoloration, loss of strength, freezing of moving parts and pitting. Tools, machinery, toys, furniture and many other metal products thus can be completely ruined by moisture.

MILDEW, a fungus growth that attacks fabrics, leather goods, paper and other items of organic origin, thrives in dark, cool, moist places—like basements not protected by a dehumidifier. The presence of mildew is evidenced by a musty odor and in later stages by actual mold forming on and in the material attacked.

Both the odor and the mold are difficult, if not impossible, to remove. In addition, mildew actually eats into materials it attacks; just as rust eats into metal.



Illini Electric

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

Headquarters Location—1605 South Neil Street, South of Champaign on U.S. Route 45.

Office Hours—8:00 A.M. to 5:00 P.M., Monday through Friday—closed all day Saturday, Sunday and Holidays.

Holidays Observed—New Years, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving and Christmas.

Reporting Service Interruptions, Broken Poles and Fallen Wires—Phone—352-5241—day or night—7 days a week. No reverse charge calls accepted.

What's New?



Compactor

The General Electric trash compactor puts an end to messy garbage cans, reducing a week's accumulation of trash for a family of four into one neat disposable bag. It has an automatic spray to help control odors and the key-lock prevents unauthorized use. The unit can be used free-standing or built-in undercounter. The two removable front panels reverse to give a choice of four decorator colors—avocado, harvest, coppertone or white.

Ice Crusher

Crush mounds of ice automatically with the new ice crusher from the Toastmaster Division of McGraw-Edison Company. The large see-thru drawer catches the ice and doubles as a serving container. It has a recessed on-off dial and a gravity-fed opening is covered by safety flaps which spring shut as soon as cubes are dropped in.



Electromatic Skillet

Corning's new electromatic skillet offers formal or informal dining at its best. The 10-inch skillet dish can be removed from its cooker-base for use separately in the oven, on the range or as a serving dish. It holds 2½ quarts and comes with a detachable handle. The dish is completely immersible and can go into the dishwasher. The base only needs to be wiped off after each use.

Air Conditioner

The personal Porta-Cool air conditioner is now available from Hot-point. The portable model weighs only 43 pounds yet provides 4,000 BTU's. It is 10 7/8 inches "thin," and plugs into any adequate 115-volt, three-prong grounded outlet. The unit is equipped with a built-in handle and expandable side panels to simplify installation. The beige appearance styling blends in with a wide variety of room decor.



Today's You Tomorrow's Need

Two families of Illinois electric cooperatives are a bit happier this month than last. Each had a son recently named to a major office of the Illinois FFA Association at the group's 1973 convention in Champaign.

S. Gene Schwarm, son of Mr. and Mrs. Stanley Schwarm of Loogootee, who are members of Greenville-based Southwestern Electric Cooperative, was named president of the nearly 17,000 members organization. Dave Rothermel, son of Mr. and Mrs. Kenneth Rothermel of Broadlands, who are members of Champaign-based Illini Electric Cooperative, was elected secretary.

Schwarm, a member of the Brownstown FFA Chapter, was also named the state winner of the Illinois FFA Foundation Award for beef production. He commented on the FFA organization:

"The young people of today who belong to the FFA are meeting the challenges of change. New thinking and new programs are making the FFA more relevant and flexible than ever before. One example is the addition of the agribusiness program. This gives members without farm-

Get rid of all ROACHES and WATERBUGS with **SURE KILL** Or You Pay Nothing

Roaches eat Sure Kill greedily and return to their nests which they contaminate, starting a chain reaction that wipes out all other roaches and eggs.

Sure Kill never wears out, is absolutely odorless and safe to use. It contains no D.D.T. A single can cleans out six rooms and keeps them free of roaches and waterbugs for five years. Money back guarantee. Send just \$3.98 for one can, two for \$6.98 postpaid.

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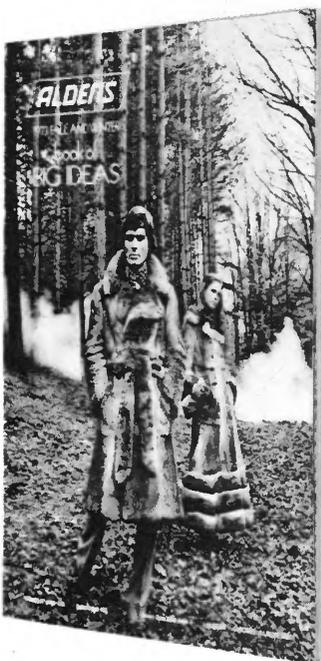
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Mfr. and Distr.



From atop of WIPCO's steam generating plant at Marl, the cooperative's new turbine-generator stretches out below. The power cooperative is finding it increasingly difficult to find enough oil for its generating purposes.



free

ALDENS new 268-pg. Fall & Winter Catalog

Act now! Clip this coupon and be ready for an exciting shopping season ahead! You'll find thousands of money-saving fashions, home furnishings, all shown in glorious color, inside this catalog. Here's at-home shopping at its best, at Aldens where millions of families have saved with satisfaction since 1889.

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RAISE \$60 to \$600

for your church or group easily with this beautiful
PRAYING HANDS INSPIRATIONAL PLATE

Exclusive design, trimmed in brilliant 18-Karat gold, printed with the Serenity Prayer.

Durer's famous Praying Hands have become a symbol of faith known and loved wherever displayed. That's why one of these magnificent 8" wall plates should be on a wall or mantel in every Christian home. The Praying Hands have been reproduced in glorious detail under a prayer of guidance. A background of porcelain highlights the hand-finished colors and 18K gold trim along the scalloped edges. Self-hanging cord attached.



Raise money the Wade way.

Your group makes no investment. Sell each plate for \$1.50, earn 60¢ on every sale. Here is how your treasury grows with Wade's Praying Hands Inspirational Plate:

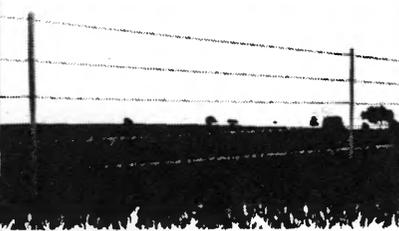
Your members sell	You pay only	And keep for your treasury
100	\$ 40	\$ 60
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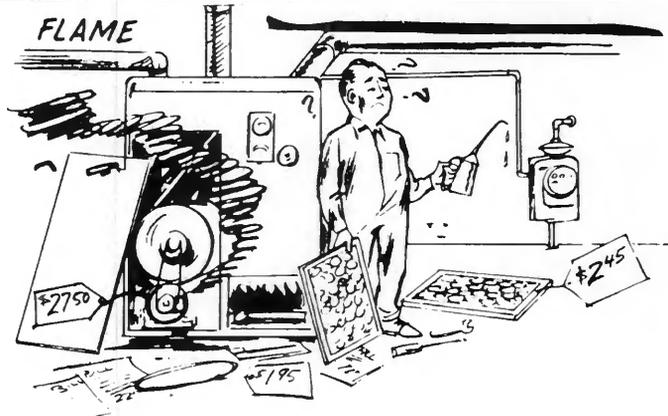


Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.



A STEP IN THE RIGHT DIRECTION!

Change Your Home to Electric Heat

You've heard a lot of talk about the advantages of flameless electric home heating compared to fuel-burning systems. And now, you think you might want to convert to flameless electric heating.

From every indication, you'll be taking a step in the right direction. Let's look at the average home, its heating needs and the process of converting to flameless electric heating.

You have a fuel-burning system, perhaps with warm air ducts to carry the heat throughout the house. Or, it might be a hot water pipe system. In the basement or a utility room, you have a large, cumbersome furnace which burns up the fuel to heat the air or water.

The hot air or water is forced through the ducts or pipes to the various rooms of the house. You're able to close or partially close a vent or radiator, here and there, in an unused area.

Occasionally, the furnace acts up

and the repairman comes in. He leaves later, dirtier from rummaging around the furnace but richer for his efforts.

House cleaning is pretty regular; a film seems to settle over everything during the heating season.

The heat is turned down during the night, but if one of the children has the sniffles, you keep it higher than usual and sweat out the extra heat in your room.

Now you're beginning to picture yourself with flameless electric heating. And it sounds almost too good to be true. Enter a man with some facts on flameless electric heating.

The basic change would be the fuel-burning furnace. It comes out completely and leaves you with a lot of extra living space. With flameless electric heating, wires hidden in the ceiling of your home are all that's needed to bring heating power to the rooms.

Attractive baseboard radiators and wall panel units, or hidden wires embedded in the ceiling, do the actual heating. It's clean and 100 percent efficient. If you prefer to make use of

your existing warm air ducts or hot water piping, you can install a compact flameless electric furnace or electric boiler. It's so small, it can be mounted inconspicuously on any wall and it eliminates all the problems of a fuel-burning furnace.

The cleanliness of the electric furnace won't impress a repairman too often, because it's unlikely that he'll be called.

Whatever flameless electric system you choose, you won't have any more grime, soot, or smoke, because no fuel is burned.

In addition, with many new flameless electric heating installations, you can have a thermostat in every room to give you precise room-by-room temperature control.

The fact that flameless electric heat is a fast growing way of heating in the U. S. today is proof that all this talk about flameless electric heat is really true. And, if you're still in doubt, check with anyone of the more than three million families who are already enjoying flameless electric heat.

ADVANTAGES!!

- No Soot
- No Combustion
- No Smoke
- No Waste

- No Dust Blown From Room to Room
- Controlled Humidity
- Decorating Lasts Longer
- No Fuel Lines
- No Chance of Explosion

- No Dangerous Fumes
- No Waste Material
- No Fuel to Store
- No Danger of Asphyxiation
- No Flues

MANAGER'S COLUMN:

In The News Bin

BY WALTER R. SMITH

No More 'Bonus Bucks'

This is written for those members who did not read our "Illini Electric News" center section in the June issue of "Illinois Rural Electric News" (REN). It is also a reminder to those who did read that issue that for many good and sufficient reasons the "Bonus Bucks" incentive program to Illini Electric Cooperative members will be discontinued effective August 31, 1973. The addition of major appliances covered by the "Bonus Bucks" program reported after August 31, 1973, will not be eligible for payment of the bonus.

It has been necessary to discontinue this program for many reasons; the primary reason being the so-called energy crisis that the nation has developed for itself and which will require concerted effort by all citizens to overcome. We owe it to our present society, as well as to generations yet unborn, to direct our best efforts to wise use of all our abundant natural resources over long-range efficient use of our best technology, much of which is yet to be developed.

Please refer again to your center section of "REN" in the June, 1973 issue for a more detailed explanation of the discontinuation of the "Bonus Bucks" incentive program. There will be no payments of bonus for items formerly covered by the program after August 31, 1973.

I again URGE YOU to discuss with the cooperative's engineering and operating personnel any additions of major electrical equipment that you contemplate in view of assisting us to make necessary adjustments in service

August, 1973

capabilities to supply new needs. We won't know, unless you tell us, what your future requirements for electric service capacities will be; our guesses are usually inadequate.

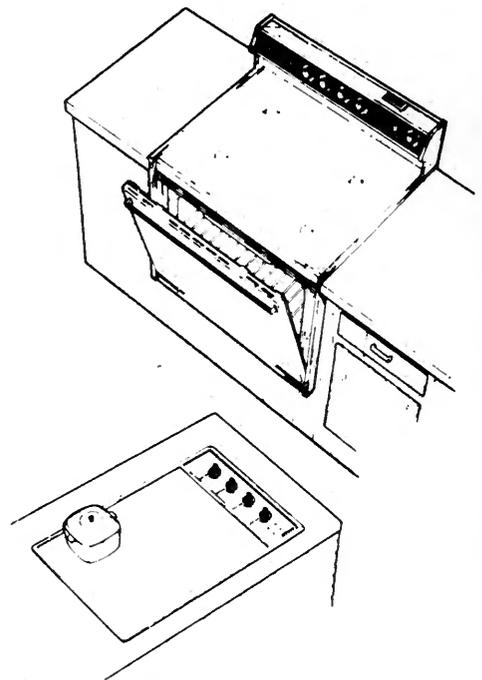
Your newly designed electric service bills will show the electric rates applied to your class of service in the space formerly occupied by information concerning the "Bonus Bucks" program. If the information shown there is not sufficient for your needs in analyzing your account, please feel free to inquire at the cooperative's office for further detail.

We employees are all here to render your electric service needs at the lowest cost consistent with sound, long-term corporate objectives. As in most cooperative endeavors, this can be done only with the combined efforts of all persons concerned. Therefore, we must sometimes solicit your help and advice even if we have to buy it. That was the main purpose of the "Bonus Bucks" program which has now been discontinued: to provide financial incentive for members to report their major appliance additions. We must now solicit that information in ways other than financial incentives. It must now be done by helping each member realize the importance of discussing major additions of electric loads with those dedicated and trained persons who are responsible for supplying your electric energy requirements.

It seems appropriate to mention again that it normally requires at least three-months lead time to engineer any necessary changes in electric service facilities, acquire new equipment and complete the field work required to up-rate service facilities. So, please plan your electrical additions well in advance in order that we can coordinate service facilities to make most efficient use of them. Thank you.



Your Something New From Corning



Now there is a Corning range you can use with your present pots and pans. Corning replaces your cooktop — not your cookware. It's a new smooth-top range especially designed for using your favorite pots and pans.

The first smooth-top range by Corning was designed to be used with Corning's special ground Corning "Cookmates" cookware. It is known as the Corning Gourmet model and a set of Cookmates comes with every Gourmet Range or Counter that Cooks.

The latest addition is known as the Family model. It's great for just plain cooking. It is just as beautiful as the Gourmet Range, and both models have pyrolytic self-cleaning ovens. The ovens are large enough to hold three eight-inch cake pans on one shelf.

It lets you use just about every pot and pan in your kitchen, whether stainless steel, cast iron, aluminum (enamel?), copper or glass.

Features of both the Family model and the Gourmet model are available in the built-in style — The Counter That Cooks cooktop, with single or double wall ovens to match.

Service for Corning ranges is available from over 2,000 Corning Service Agencies throughout the country. Your local Corning dealer may be a service center. This is important to check if you are considering purchase of a Corning smooth-top range, no matter which style you choose.

What's New?



Digi-Time III

Give your desk that executive look with the new Digital Alarm clock by Sunbeam. It has smoked wrap-around crystal in a sleek modern designed case. The clock is easy-to-view with white-on-black numerals and A.M. and P.M. designations. The Digi-Time stands on a pedestal base and is available in five color combinations.

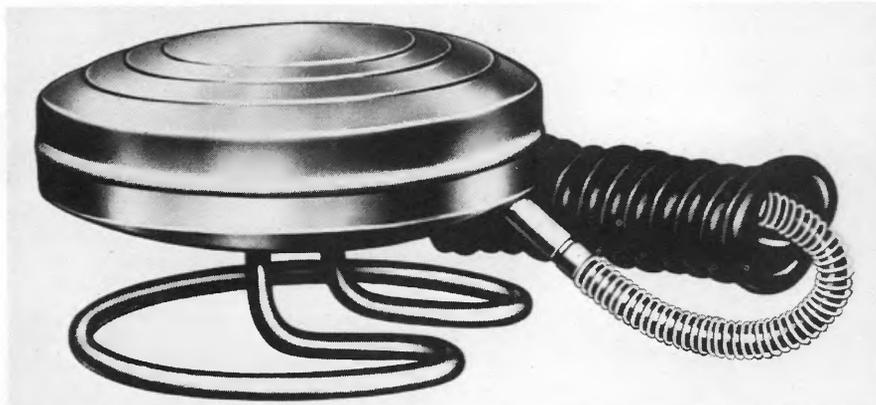


Eliminator

A high pressure, portable washer is the latest addition to the L & A Products line. The Eliminator is designed for quick, complete clean ups in food processing plants and service stations. It is equally effective on small machines and equipment where a lower water volume is desired. With its portable features, it is an excellent farm tool in cleaning and sanitizing milk parlors, farrowing pens and cages. The washer weighs 65 lbs. and includes 25 feet of high pressure hose. It is powered by a 1/2 hp. motor with a 115 VAC.

Chor-Eze

Ristance Corporation has introduced the "Chor-Eze" an electric stock tank de-icer. The floating de-icer maintains an ice free circle of water in stock tanks at low temperatures. It is automatic and is rated at 1000 watts. The unit is equipped with a high quality heating element that is controlled with a thermostat. The case is rust proof, the cord is shock proof and the unit carries a one-year guarantee.



Get rid of all ROACHES and WATERBUGS with **SURE KILL** Or You Pay Nothing



Roaches eat Sure Kill greedily and return to their nests which they contaminate, starting a chain reaction that wipes out all other roaches and eggs. Sure Kill never wears out, is absolutely odorless and safe to use. It contains no D.D.T. A single can cleans out six rooms and keeps them free of roaches and waterbugs for five years. Money back guarantee. Send just \$3.98 for one can, two for \$6.98 postpaid.

FOX ENTERPRISES

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THE TALLEST HUMAN IN THE WORLD...AND HIS DAD!

Robert Wadlow, at the age of 22, reached the record height of 8 ft. 11.1 in. His father was the long time Mayor of Alton, Illinois.

The heaviest human on record weighed 1,069 lbs. and was buried in a box the size of a piano case.

The highest divorce settlement ever made was \$9,500,000.

The longest single unbroken apple peel on record is 1,568.5 in. The apple was 15 in. in diameter!

The greatest number of children produced by a mother is an unbelievable 69.

The most expensive wine in the world cost about \$300 a glass.

Here it is—the only book of its kind—**The Guinness Book of World Records**—enlarged and updated! It contains over 3,000 all-time records, statistics, spectacular feats of man, nature, science, space, the arts, entertainment, the world of sports and little known fantastic phenomena. Packed with unbelievable facts and over 400 photos! "IT'S VALID, AUTHORITATIVE." —The N.Y. Times Settle any argument! Amaze your friends! You won't be able to put it down. This 637 page fantastic hard-covered volume is a must for any library. Nearly 10 million copies sold worldwide. Only \$5.95.

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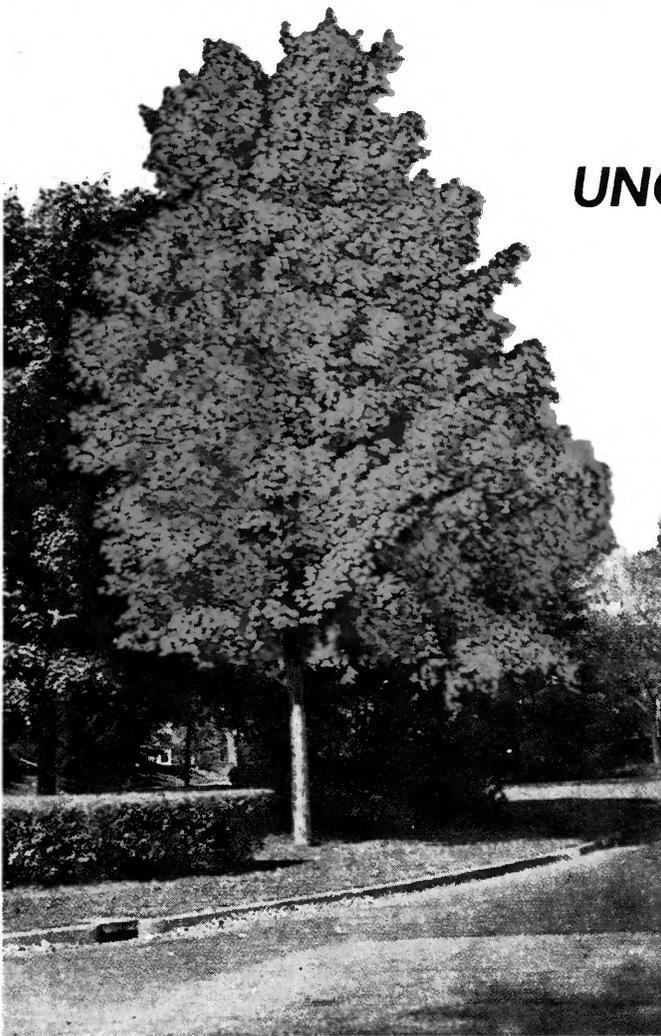
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UNQUESTIONABLY THE MOST BEAUTIFUL FAST GROWING SHADE TREE IN AMERICA TODAY

- This gorgeous tree is known as the scarlet maple, the red maple, or the **EVER CHANGING MAPLE**.
- Beautiful Red Scarlet leaves in the fall of the year, and beautiful deep dark green leaves in the spring of the year.
- Grows approximately 25-30 feet over a five year period, which makes it one of the fastest growing shade trees in America today.
- Many landscape architects, nursery men, and gardening experts refer to this tree as the "2 in 1" tree, because of its dual qualities of beauty and speed.
- Now is the ideal time to plant this tree.
- Shipped at 4 to 6 feet — all shipping cost paid.
- Due to the tremendous demand for this tree please allow two weeks for delivery.

Actual unretouched photograph of a five year scarlet maple.

Beauty — This beautiful shade tree blazes a brilliant red color in the fall and an olive green color in the springtime. Yes, recognized tree experts agree it is the one tree that delivers beauty throughout the year.

Height — This magnificent tree grows approximately 25 to 30 feet over a five year period (see photograph) and eventually soars to a height of eighty feet or more.

Hardiness — This tree is very hardy as the wood from maple trees is recognized as the hardest anywhere.

Adaptability — "The scarlet maple has one of the widest ranges of our native trees, growing from eastern central Canada to Florida, and because of its ease of transplanting it adapts to any type of soil." (From *All About Trees* by E. Johnson). The one tree experts agree will grow anywhere in the U.S.A.

TO BEAUTIFY YOUR HOME NOW ORDER TODAY ON A TWO WAY GUARANTEE

Imagine! This beautiful tree shading your front yard and the looks of admiration and words of praise it will bring to your house and home. You'll agree it lends lovely contrasts to its surroundings. Now the retail price of this tree is \$4.98, but during this spring planting season our price is only \$4.49. Yes, just a mere \$4.49 for this beautiful shade tree. **ORDER TODAY—YOU WILL BE PLEASED.**

TWO WAY GUARANTEE

We are so sure that this is the most incredible shade tree that you've ever seen, here is our 2-way, ironclad guarantee: (1) If, upon arrival, you are not completely satisfied, then return for a full refund; (2) Free replacement, for any reason, up to one full year. When have you ever seen a stronger guarantee?

OUR CHALLENGE TO YOU

It's almost too good to be true, but we feel so sure that these native collected trees are some of nature's most prized possessions that we are making you an outstanding offer. Our knowledge and experience of many years and our own research about this tree gives us confidence in the following challenge. If you can find just one negative comment by an expert printed in any magazine, periodical, or gardening book, we will give you any item from our catalogue of over 400 varieties absolutely free of charge. We send a catalogue with every order. This offer is hard to beat! We are sure that anything you read anywhere about this beautiful scarlet maple will have nothing but praise and acclaim.

NURSERY BARN

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Please send us these beautiful shade trees, on a two-way guarantee, the trees indicated below.

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| <input type="checkbox"/> 1 Shade Tree \$ 4.49 | <input type="checkbox"/> 4 Shade Trees (Save \$6) \$11.98 |
| <input type="checkbox"/> 2 Shade Trees (Save \$2) \$ 6.98 | <input type="checkbox"/> 8 Shade Trees (Save \$12) \$21.98 |
| | <input type="checkbox"/> 16 Shade Trees (Save \$16) \$39.98 |

I enclose \$ _____ in cash check money order

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City _____ State _____ Zip _____



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

MANAGER'S COLUMN:

In The News Bin

BY WALTER R. SMITH

Most electric grain dryers are designed to dry 22 per cent or less corn at full bin depth. Now we all know that occasionally the grain moisture will exceed that figure.

An airflow of one CFM per bushel is considered minimum for low temperature drying. However, to safely dry corn with moisture levels greater than 22 per cent, much more air per bushel is needed. To obtain this higher airflow, it is more economical to hold the grain depth down and operate the dryer for approximately 10 days, than to install the required fan horsepower for greater volume. After this initial drying period, the

dried corn will have less static pressure, thus an additional amount of corn can be placed in the bin. Again, let me remind you that the above procedure is for corn with higher moisture; a bin with 22 per cent or less corn can be filled at one time.

A rule-of-thumb for filling bins with higher moisture corn would be the following:

Initial Corn Moisture	Minimum Airflow	Fill Bin to Indicated Depth
26%	3 CFM/bu.	1/3
24%	2 CFM/bu.	1/2
22%	1 CFM/bu.	Full

As an example, 24 per cent corn should be only one-half full and dried for approximately 10 days, then proceed to fill the bin.

Due to the forecasted tight supply of LP gas this fall, grain dryers with gas heaters may at times be short of fuel. If this happens, operate the fan continuously. The fan alone, using natural air will dry the corn to approximately 16 per cent without any heat. You must, however, allow at least 30 days drying time. For more information, call our office.

Suggestions

for Low

Temperature Drying

1. Be sure perforated floors are well cleaned (holes fully open) before loading bin.
2. Grain should be free of excess dirt, fines and chaff. Screening devices are recommended.
3. Keep grain level as bin is filled. Grain leveling devices are recommended.
4. Start fan as soon as grain is placed in the bin and continue to operate even during periods of rain or high humidity weather until the grain is dry or air temperature drops to and remains below freezing for extended periods of 24 hours or more. When temperature rises above freezing the fan should be restarted.
5. Open and leave open all roof hatches to provide a large air escape area.
6. Use a mercury-in-glass thermometer for checking the temperature of ambient air and plenum air to determine air temperature rise.
7. Attach a manometer to the air plenum to measure static pressure and use manufacturer's fan performance charts to determine airflow.
8. Do not exceed design criteria. If necessary, limit grain depth to obtain proper airflow in relation to grain moisture content.
9. After drying is completed, close roof hatches and cover fan inlets to prevent drifting air, particularly high humidity winter air, from adding moisture back to the dry grain.
10. Dry grain should be aerated to keep it cool and to prevent moisture migration. The drying fan can be used for aeration by operating the fan about 12 hours every 7 to 10 days.
11. Practice good safety rules at all times while working in or around grain bins and drying equipment.

Fall Checklist for your home's heating system

Ordinary Heating System

- Check fuel supply
- Clean burner
- Drain and clean boiler or clean heat chamber
- Replace worn parts
- Oil motor
- Oil blower and change filter (if warm air system)
- Clean up mess
- Buy service policy



© NRECA

Electric Heat

- Turn thermostats



© NRECA

When Grain Is In The Bin - Stay Out!

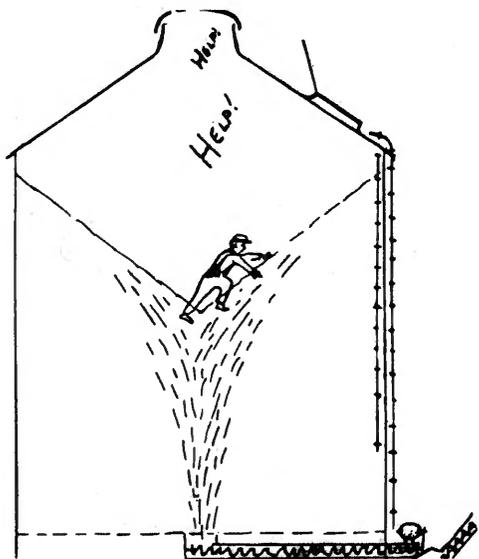


FIGURE 1. Some grains are as dangerous as quicksand, even when not unloading.

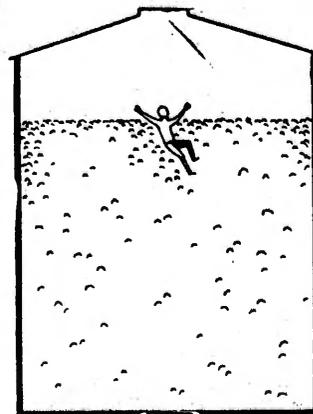


FIGURE 2. Flowing grain can suck you under suddenly when unloading starts.

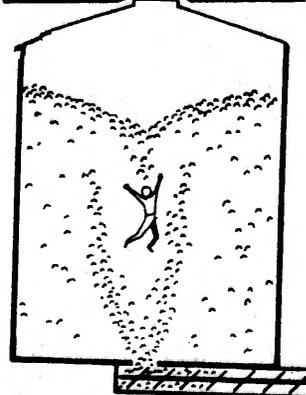


FIGURE 3. Break bridging with a pole. Use vibrators to keep feed flowing.

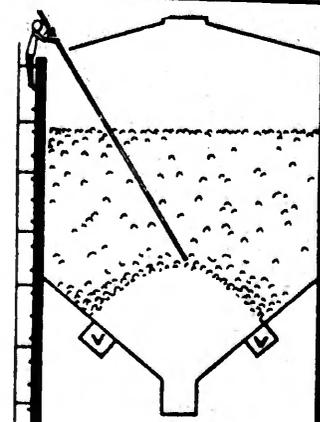


FIGURE 4. This patented cage developed by Harvestall Industries provides an escape for workers in the bin.

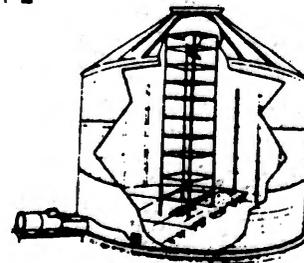
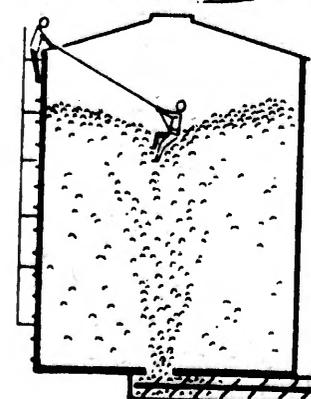


FIGURE 5. If you must go in use a life line. Have someone else standby.



Across the United States there have been numerous cases reported where the farmer, members of the family, or employees got into trouble when they entered a grain bin while it was being unloaded, or when they were in the bin as the unloading process was started. As a result, there have been a number of fatalities.

"When there is grain in a bin, stay out," is the advice Bruce McKenzie, agricultural engineer, pointed out in a recent meeting at Purdue University.

The problem is that the mass of grain becomes cone-shaped as drawn off in the middle at the bottom of the bin. After grain is in the bin, it sometimes suspends itself with cavities underneath that cannot be seen. When a person enters the bin, he becomes involved with the sloping grain and is suddenly trapped. The victim is further dragged down by the undertow of the grain being drawn out of the middle. Bins are usually too large to grab hold of anything. Even though one works hard at crawling in the grain, he is sucked right to the middle. Dislodging the cone mass can cover the trapped victim in a second or two.

The following precautions should be noted.

1. Never enter a grain bin while the auger is removing grain, or when there is any chance the auger will be turned on.
2. Do not permit children to play around or in grain bins or gravity unloading wagons or trucks.
3. If necessary to enter the bin, be sure to disturb the grain cone and any possible lodging before getting out on the train. (If a mass of grain has lodged and undermined, it will surely collapse when a person's weight is added.)

What's New?

Table Range

A portable electric table range has been introduced by Corning. The glass-ceramic heating surface is framed in aluminum and the heater base will accommodate a variety of cookware utensils. The 10-inch skillet, provided as part of the table range unit, is attractive as a serving piece. It weighs only 11 pounds and retails at under \$40.00.



Kitchen Center

It's a great day for the cook of the house since the Oster Corporation developed the Kitchen Center. It provides three full powered appliances in one space-saving unit. With the powerful counter-top appliance, you can blend a multitude of Spin Cookery wonders, mix the heaviest of batters and grind the toughest of foods with no storage problem. The blender features touch-and-release, instant start-and-stop control on all twelve speeds.



"... but to tell the truth, what I miss most is my electric tooth-brush."

If Ruptured TRY THIS OUT

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'Benefits Seem to Outweigh Environmental Costs': Train

Without minimizing the difficulties involved, Russell E. Train, new administrator of the Environmental Protection Agency (EPA), recently said that environmental programs would not stop or slow down economic growth.

According to a report by Graham W. Howe, Washington correspondent for the National Rural Electric Cooperative Association (NRECA), Train, in an address before the National Press Club, said that it is pollution—not its control—that limits growth.

"The benefits of a high quality, cleaner environment will far outweigh the costs," Train said. "Environmental programs, soundly conceived, will make a position contribution to the quality of our lives."

Train, who noted that it is increasingly apparent that the nation faces significant energy problems, said: "It is important that we do not let the environment become the whipping boy for those problems."

Train, who accused industry of waging a 'fear campaign' to discredit environmentalists and weaken anti-pollution laws, said that certain unspecified advertisements had given him the very strong impression that

there is a well-organized campaign afoot to propagandize the public into believing that environmental concerns have been overstated and oversold and are the cause of major economic and energy problems.

Train called for greater "confidence in the ability of the private citizen to influence the process of decision making, to bring about meaningful change within the framework of our institutions."



Copper Christmas mobiles or tree ornaments—7½" angel, 6½" rocking horse, 6½" butterfly, 6" diamond shape ornament with name—\$2.50.

Jewelry from your old or beat-up silverware forks or spoons for a keepsake to wear. Original design, no two alike. Specify pendant or ring \$5.00, Copper neckring \$3.50. Include 5% sales tax for ornaments, postage prepaid. Marqu's Studio R. R. 1, Carlock, Illinois 61725.

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WHY PAY RENT, BUILD A

MILES HOME



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

Safe Use of Waterers

The use of electrically heated livestock waterers is one of the safest methods of providing ice-free water to livestock. However, many livestock are electrocuted by these waterers each year.

It is usually found that the loss can be attributed as follows:

1. Deteriorated wiring within the waterer housing as a result of moisture accumulations and conditions under which the equipment must operate.
2. Defect or deficiency in the heating assembly, probably from years of usage or basic design.
3. Improper wiring or grounding procedures used when the unit was installed.

To assure safe condition of the unit for cold weather, the following procedure is recommended:

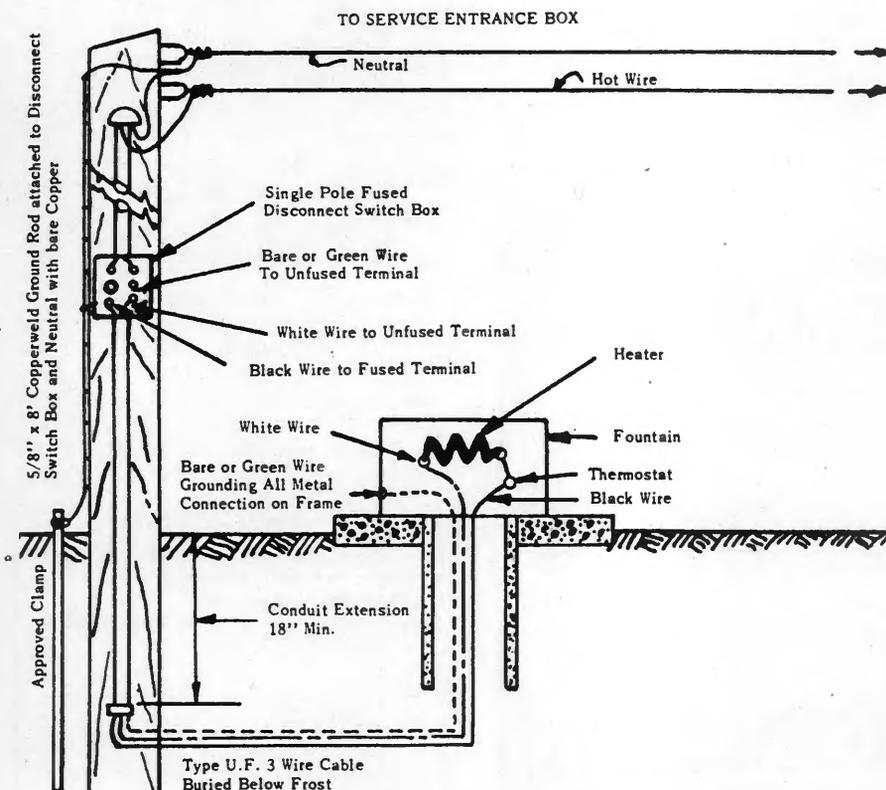
1. Disconnect electricity to the waterer by throwing the switch or disengaging the fuse.

2. Remove side panels and allow area to dry out under the waterer.
3. Check the condition of wiring insulation and replace with moisture-resistant wire (Type U.F., if it is deteriorated.)
4. Check all wiring from switch to heating element and replace or repair as necessary. Be sure the ground wire is securely fastened to the frame of the waterer. It is recommended that this wire go back to the neutral bar in the fuse cabinet (see illustration).
5. Check to determine that the thermostat operates properly. If faulty, it should be replaced.
6. Check to be sure the bowl is not electrically charged when the fuse is replaced and the switch is placed in "on" position. (An ohmmeter or test lamp should be used to test for an electrical shock.)

Ways to Reduce Your Power Bills

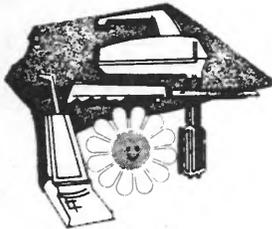
It has been estimated that people waste about 15 percent of the electric power that they pay for. Check these ways to stop needless waste:

1. Use large wire to haul power around your buildings. In small wires, it wastes itself trying to crowd through.
2. Check your wiring and be sure that it does not come in contact with water pipes, eave spouting, lightning rods, windmills, trees or roofs of buildings. We find that many high bills are caused by leaks or faults in the wiring system. Why not have that wiring checked over by a good electrician and brought up-to-date?
3. Oil motors and equipment. The squeaky wheels need more kilowatts.
4. Learn to cut off the units of your range before the food is completely cooked; finish the job with "free heat" left in the unit.
5. Don't leave unnecessary lights burning when you're not home.
6. Place your water heater as near the sink, washbowl and bathtub, as possible. Use small pipes, insulate well on long runs.
7. Stop all faucet leaks.
8. If you're blowing fuses, find and correct the shorts immediately. Never put a penny behind a fuse. This will not only waste electricity, but will probably cause a fire.
9. Place your refrigerator or freezer in areas where they are not in direct blast of your heating system. Also check the door latch and gaskets of your refrigerator.



How to safely connect an electrically heated livestock waterer.

Ways To Use Electricity Efficiently



PORTABLE ELECTRIC APPLIANCES

It is important that you read instruction booklets that come with portable appliances for information on their most effective use. Keep these booklets handy for reference.

For safety and for longer life of each of these appliances, turn all controls off after using one, then take hold of the plug (not the cord) and remove it from the outlet in the wall.

A "small appliance center" helps you use portable appliances more efficiently. This center may be a special cabinet for them. Or, you may keep them grouped on a counter top if you have space.

Notes on vacuum cleaners: Replace (or empty) dust bag when full. If too much dust collects in it, your cleaner won't operate efficiently. Also, clean the attachments after use for more effective cleaning.

'Jest In Fun'

"Tell me, Grandma," asked the teenaged coed, "at what age are men the most fun?"

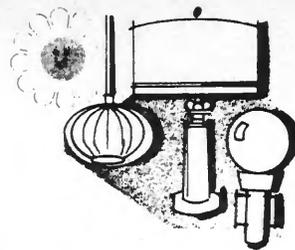
"Honey," replied the elderly lady, "men are just like record players. They play at different speeds, according to age. But they're nice to have around at 33, 45 or 78."

Two men, spending Sunday fishing, were feeling pretty guilty. One said to the other, "I suppose we should've stayed home and gone to church."

To which the second angler replied lazily, "Heck, I couldn't have gone anyway. My wife's sick in bed."

Life has a big IF in the middle of it.

The trouble with today's individualists is that they are getting harder and harder to tell apart.



LIGHTING

Lighting adds comfort, safety, and beauty to your home. High levels of lighting are essential for many seeing tasks, while lower levels are usually adequate for relaxing.

For efficient use of your lighting, keep bulbs and fixtures free of dust.

Fluorescent lamps produce more lighting than incandescent lamps for the same amount of energy. You may want to use these wherever they are suitable.

Use bulbs of the wattage recommended for each fixture to avoid damage to the fixture.

Since outdoor lighting discourages trespassers and is a safety measure, keeping it on at night is considered a wise practice.



ELECTRICITY DOES IT BEST!

Happy Halloween!



What's New?

Automatic Washer

A "one stop" Dispensall™ system by General Electric permits a homemaker to load correctly measured amounts of laundry agents and additives which are automatically diluted and dispensed at the proper time in the washing cycle. Featured on the 18-lb. capacity AMERICANA™ model, the new system eliminates any need to return to the washer until the load is ready for the dryer.



Coffee Maker

A new stainless steel coffee maker with the latest safety features has been introduced by Toastmaster. Its wider base, twist-lock top and shorter cord help prevent accidents caused by tip-overs, pouring and inquisitive children. The unit is also equipped with a strength selector, and a automatic keep-warm element.



Calf Feeder

K & K Manufacturing, Inc. recently announced its new calf feeder. The unit when connected to water and electricity, provides controlled feeding. Each unit handles up to 15 calves, and the delay period between servings prevents overeating. The Nurs-ette has a 25-pound hopper and a heavy duty agitator which prevents solution settling. The unit weights 70 pounds and comes completely assembled ready for easy mounting.



Facts about th

Nearly \$8-billion in loan funds for rural electrification have been advanced under loan contracts by the Rural Electrification Administration (REA) since its beginning in 1935, according to a REA release.

As of July 1, 1973, REA electric borrowers had paid more than \$4-billion on their loans which included \$2.4-billion repaid on principal as due, \$250-million of principal paid ahead of schedule and \$1.4-billion in interest.

Loans totaling \$8.7-billion have been approved for 1,092 borrowers to serve 7.9 million connected consumers over 1.8 million miles of line. It is estimated that these connections provide electricity to 20 million people.

The borrowers include 978 electric cooperatives, 54 public power districts, 34 other public bodies and 26 electric companies. About 65 percent of the approved loans have been for electric distribution facilities, 34 percent for generation and transmission facilities and one percent for the financing of farmstead installation of wiring, electrical equipment and irrigation facilities.

During the calendar year of 1972, rural distribution systems reported a net increase of 325,000 new con-

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Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

Adding A New Room?

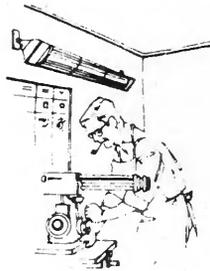
Expanding—or gaining space within your present walls—is easiest with the help of electric heating equipment. It fits most anywhere, needs no chimney connection and can be independent of the rest of the heating system. Also adaptable for supplementary heat in problem areas.



Wall Panel Electric Heaters

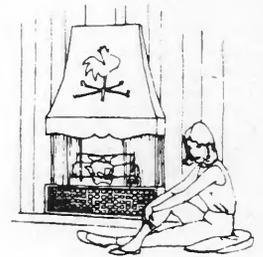
Dial the temperature you want—or turn heat off when you don't need it. Electric units fit into the wall or on it. Some have fan circulator. Ideal for baths, utility rooms, basements, entries.

Finishing A Basement



Infrared Heaters

Resemble fluorescent light fixtures or floodlamps, cast rays that warm people and objects. Fixtures are great for drafty places like basements, garages, patio and pool. Floodlamps are ideal for baths.



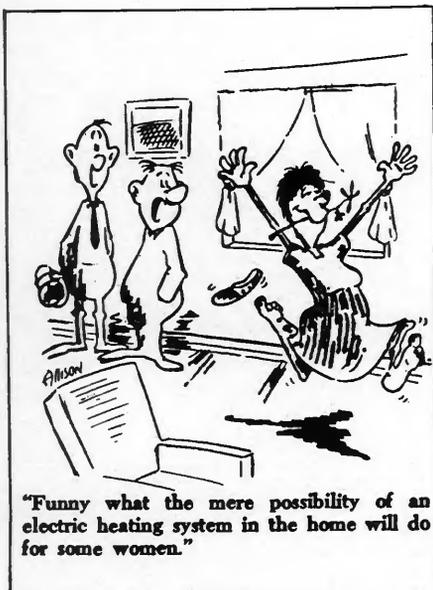
Electric Fireplace

Adds decorative charm and comfort—no dirty logs, ashes, soot, chimney. Mounts on wall—gives fan-forced heat, burning log effect.



Ceiling Electric Heaters

Switch on instant warmth in bathroom with a ceiling unit that include fan and light, as well as heat. Ideal when attic is above.



Illini Electric

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Headquarters Location—1605 South Neil Street, South of Champaign on U.S. Route 45.

Office Hours—8:00 A.M. to 5:00 P.M., Monday through Friday—closed all day Saturday, Sunday and Holidays.

Holidays Observed—New Years, Lincoln's Birthday, Good Friday, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving and Christmas.

Reporting Service Interruptions, Broken Poles and Fallen Wires—Phone—352-5241—day or night—7 days a week. No reverse charge calls accepted.



"You'll have to admit it makes the long winter night more bearable."

Basic Guidelines Are Listed For Electric Heat Installations

Here are general guidelines we recommend for electric heating installations.

1. We will calculate a "heat loss" study on your house to determine how much heat each room will lose. This will provide a guideline as to how much equipment should be installed.

2. Wherever possible, at least eight inches of insulation should be installed over the heated areas.

3. The outside walls should be filled with insulation and on new construction a vapor barrier should be placed on the warm-in-winter side of these walls.

4. Under the floors (over unheated space) at least three inches of insulation should be secured next to the subfloor. (Four inches is better).

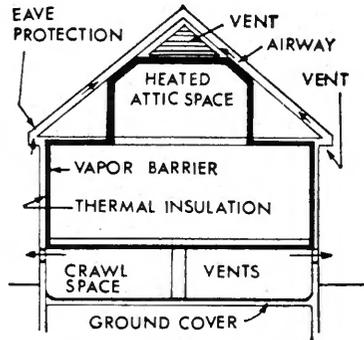
5. Houses with crawl spaces should have a vapor barrier placed on the ground of the crawl areas.

6. Attic areas should be well ventilated. Crawl spaces should also be ventilated.

7. All windows and doors with outside exposure should be double-glassed. (Insulated or storm windows.)

8. Kitchen, laundry and bathrooms should have fans installed to remove moisture vapor.

If you are thinking about electric heat, let us know. We will be glad to calculate the heat loss and assist you in any other way that we can.



Placement of thermal insulation, vapor barriers, ground cover, attic and crawl-space vents in house (with some heated attic space) built over crawl space.

Types of Vents

Many types of roof vents will do a satisfactory job and blend with any style of architecture. The ridge vent is necessary with "cathedral" ceilings.

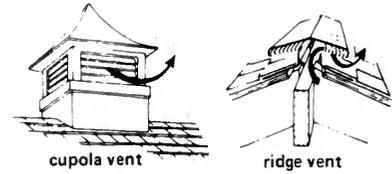
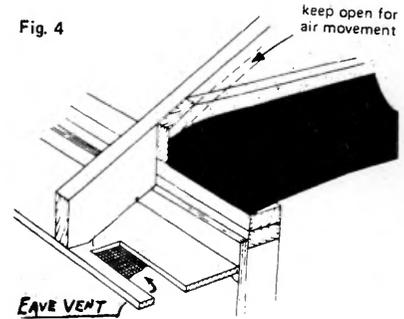


Fig. 4



Blanket insulation should be extended over the top plate of the wall but not overlapping the plate enough to block eave's ventilation.

INSTALLING BLOWING INSULATION

INSULATING SIDEWALLS

All exterior wall areas should be insulated.

Whenever the vertical space to be insulated is more than four feet high, the "double blow" method, with two access holes to each stud space, should be used. Some stud sections may require three or more openings. Details of this method are shown in Fig. 21.

Check each space with a plumb bob for possible obstructions below the holes. Insert a flexible steel rule to check for obstructions above the holes.

In existing construction, the number of shingles or bricks to be removed may be minimized by cutting access holes as close together as possible on either side of the stud.

If spaces at joists between floors are to be blown, sufficient wool should be applied to fill the space the full depth of the joists.

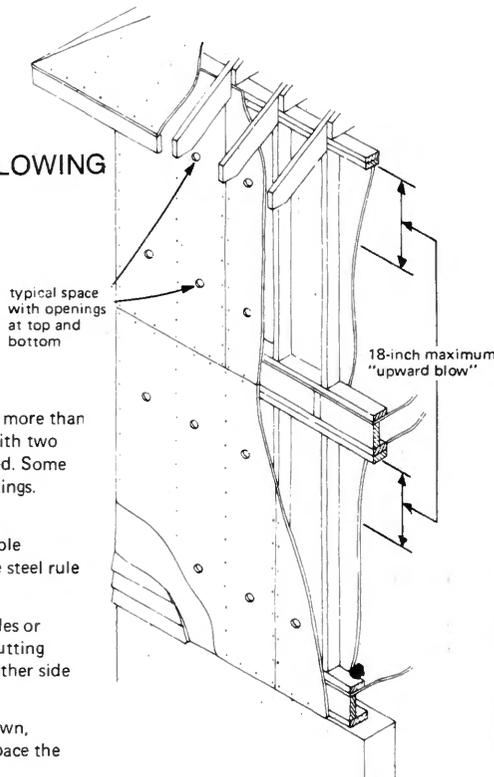


Fig. 10

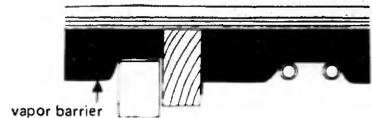
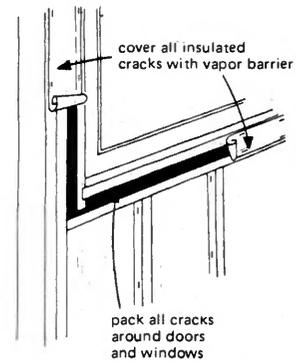


Fig. 11



Push insulation behind pipes, ducts, and electrical boxes (Fig. 10). The space may be packed with loose insulation or a piece of insulation of the proper size can be cut and fitted into place.

Pack small spaces between rough framing and door and window headers, jambs, and sills with pieces of insulation (Fig. 11). Staple insulation vapor barrier paper or polyethylene over these small spaces:

what's new?

Vacuum

Sunbeam's new outdoor/indoor vacuum cleaner picks up wet or dry debris without changing the washable filter. The vacuum has a five gallon capacity steel tank and a 1.1 hp. motor. It's equipped with an 18-foot conductor cord and plug, cleaning attachments and a stainless steel four-wheel dolly. The vacuum retails at \$59.99.



Alarm

A power failure alarm that detects a power outage whether caused by a blown fuse or a service interruption has been developed by the Riton Manufacturing Company. The unit emits an 85 to 90 decibel siren-like sound when triggered and the horn is powered by two penlite batteries. A built-in 7 to 10 minute delay prevents momentary interruptions from causing a signal. It plugs into a standard AC receptacle and is supported by its case-mounted plug prongs.



(Continued from page 14)

going to be a shortage of corn drying. And corn drying is almost a must."

Pitchford indicated that comments had been made from farmers regarding low temperature grain drying with electric heat as the answer. But a backlog of work for electric power suppliers would be a problem this year.

Pitchford also realizes the importance of electric power in his home and business. Not only are his and the Creeds' homes all electric, but the cold storage building for pecans and apples require electric power. About 100,000 pounds of pecans are kept in cold storage each year.

"We buy nearly 750,000 pounds of wholesale pecans from Arkansas, Mississippi, Alabama and Louisiana," he said. "But pecan production varies from year to year. One year, it's good and the next poor. So cold storage keeps us in business during the lean years."

He mentioned that at one time three loads of pecans were bought weekly from the New Haven area in southeastern Illinois. But Illinois production had dwindled as most of the trees had been cut for lumber.

"Over a long period of time," Pitchford summarized, "the fruit industry is rewarding. But it takes a lot of work. Costs seem to keep going up. Fruit growers can mechanize to a certain point to overcome the increasing costs. But after that, there just isn't any way to keep retail prices lower."

All in all, it looks like the fruit industry has its good years and its bad. But thanks to electricity and technical innovations, perhaps fruit growers can have that extra edge necessary to keep in step with the changing times.

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FREE



Philip Kehres, president of the Moolah Mounted Lancers, and about 50 other Mounted Lancers perform throughout the United States.

Moolah Temple Mounted Lancers

by Richard D. Haney

Hearing of the "Mounted Lancers," one's thoughts could easily drift to the historic era of knight-hood and aspiring donzels.

But it's a different story in the Columbia area. For it is just a few miles north of this southwestern Illinois community that area residents are familiar with the 100-acre Black Horse Ranch, training grounds for the Moolah Temple's Mounted Lancers of St. Louis.

The Lancers consist of Shriners who are dedicated to excellent horsemanship and showmanship. Their skills in intricate drills of close, precision maneuvers have earned them national honors.

They have won national drill team championships in Chicago, Miami and New York's Madison Square Garden. They've also appeared at the Cotton Bowl in Dallas and the East-West football game in San Francisco. In the 1964 Rose Bowl parade they were chosen as the personal escort of the late President Eisenhower who was the parade's Grand Marshal.

Although they limit their exhibitions to about 15 a year, they do have their local favorites—the Shriners Circus parade in St. Louis and the annual horse show at Hillsboro.

"It takes a lot of time and work to keep our unit going, but we have our fun, too," commented Lancers' President Philip Kehres. "Each Monday evening our practice drills take about 20 minutes at full trot without any maneuver being repeated. That's quite a workout."

The spiritedness of the 48-matched black geldings marks the Moolah unit as winners. When in formation, the men ride always at a trot with lances held in one hand, the reins in the other. A touch of the reins to the horse's neck guides the horse. Each Lancer owns his own horse and equipment and is expected to stay in shape to perform.

"We must have 20 riders to par-
(continued on page 14)



Illini Electric News

Illini Electric Cooperative

Phone: 352-5241

Champaign, Ill.

'Tis the Season to be Jolly!



This common saying means that it is once again the time of year to be joyous in our greetings to all our members and friends everywhere.

Joyous because there is gratitude for a year in which we have been working together for common goals and joy in the attainment of those goals.

Joyous because there is boundless enthusiasm and deep faith in the future.

May the words, "Tis the season to be jolly," have a special meaning for you this season, and from all of us to all of you a Merry Christmas and a Happy New Year.

from the directors and employees of the Illini Electric Cooperative

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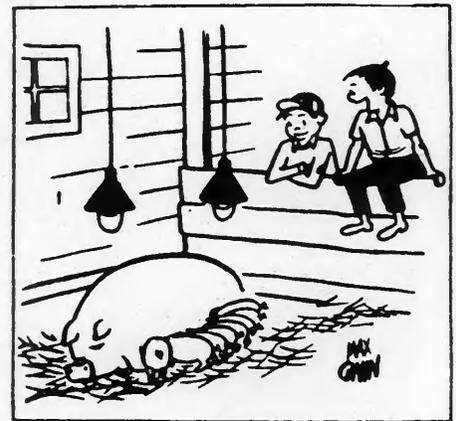
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Tom Kumler
Clint Lookingbill
Ed McCormick
Paul Moore
Lloyd Roy
Bob Sanford
Howard Schweighart
Tom Short
Karen Tempel
Glenn Toliver
Ray Weiss

Recipe for Happy Holidays

1. Take one measure of caution in the inspection of your Christmas tree lights and wiring. Christmas decorations must be selected and used with care.
2. Use an ounce of prevention in selecting toys with safety in mind.
3. Stir in forethought and defensive driving to make safe endings of your holiday trips. Holiday travelers must adjust to holiday driving conditions.

Blend the above ingredients thoroughly for a safer and accident-free holiday.



"Pop turned on the heat lamps last night and this morning, there they were. Electricity can do anything!"

Illini Electric

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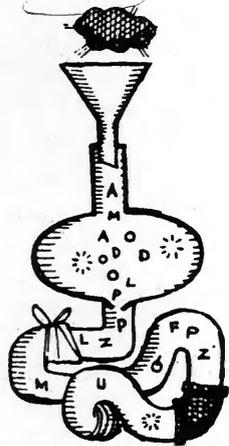
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Clean, pure ELECTRIC HEAT saves cleaning chores because no solid or gaseous fuel is burned! No dirty film, fumes or smoke in this heating system!

FOR RELIEF FROM JITTERS, HEADACHES, LACK OF SLEEP



R

(Caused by the roar of furnace blowers, clanging pipes and other noises connected with central heating systems.) Install quiet ELECTRIC HEAT. No fans, ducts, pipes, NO MOVING PARTS to make noise.

FOR PROMPT RELIEF OF FREEZENFANNY

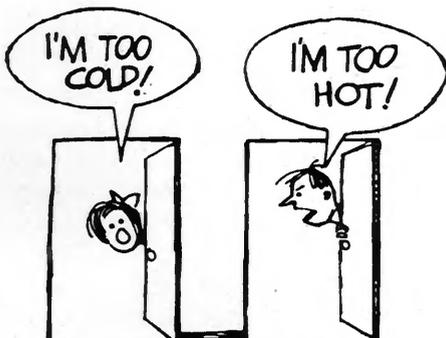
(Caused by upward drafts)



R

Install ELECTRIC HEAT in your home immediately! Eliminate drafts, cold spots, cold floors, long "warming up" periods . . . and chilly people. Baseboard perimeter heat surrounds your home in a blanket of warmth. Nearest thing to pure sunshine!

FOR ELIMINATION OF MONOTHERMOSTICOSIS



R

(Nervous tensions and complaints caused by failure of a single thermostat to properly control home temperature.) Requires immediate surgery. Central system must be replaced by ELECTRIC baseboard heaters with separate thermostats in each room. Keep everybody happy! Mother, Father, Junior, Big Sis and Little Brother can set the temperatures they want.

CALL YOUR ELECTRICAL CONTRACTOR, INSULATION SPECIALISTS OR ILLINI ELECTRIC FOR A FREE DIAGNOSIS AND PRESCRIPTION

what's new?

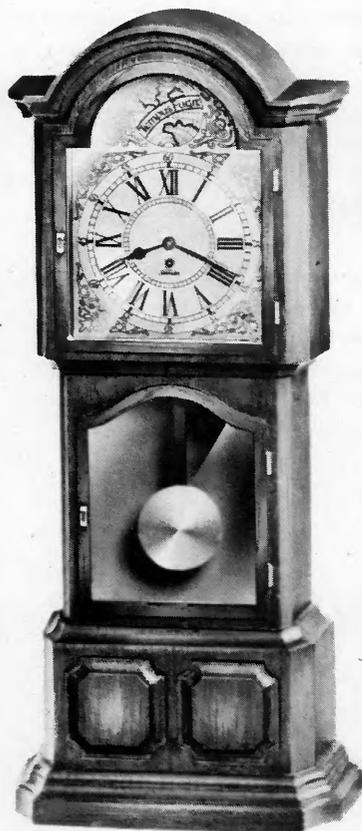


Disposal

General Electric's garbage disposer the "Piranha" is designed to be installed by the competent "do-it-yourselfer." The disposal offers a one year parts and service labor repair warranty. Other features of the Piranha include external fiberglass sound shielding and superhard Carboly cutters.

Grandfather Clock

A truly magnificent replica of a time-honored Grandfather's clock is now available from the Sunbeam Company. The clock is 20 inches high and the crystal encloses a bright embossed gold and silver spun dial with black Roman numerals. It has a traditional Tempus Fugit motto over the old-world globe dial.



Kitchen Guide

From the editors of Better Homes and Gardens, a concise informative book on better kitchen planning with suggestions for converting your present kitchen into a new "electric" kitchen. Also included are ideas for added storage, redecorating, floor coverings, counter-top materials and helpful hints on wiring, lighting and ventilating. For your copy send \$1.00 (postage paid) to NATIONAL PLAN SERVICE, INC., 1700 West Hubbard St., Chicago, Illinois 60622.

Mounted Lancers

(continued from page 11)

ticipate in an event," Kehres explained. "And there has to be an even number of riders for the arithmetic maneuvers. I remember once at a parade in Chicago when my teammate's horse kept acting up and we had to drop out of the formation. But that doesn't happen often."

Even though the horses display liveliness and must be kept that way for precision drilling, there are controls. To prevent the steeds from fighting, fenced pastures keep the horses separated in groups of 12-15. Another factor is the personal attention each man gives his horse.

"A horse must be treated kindly, but firmly," explained Emil Wachter, Lancers' public relations director. "Each man grooms his own horse and this establishes a sort of understanding between the two. No one is permitted to ride another's horse. And when a Lancer grants permission for someone to ride his horse, that's an honor to the other Lancer."

Wachter pointed out that the Mounted Lancers exist primarily to support the Shriners Hospital for Crippled Children in St. Louis. Each year various fund raising events are sponsored as well as the annual benefit horse show at the ranch.

The ranch's show ring measures 120 x 240 feet and during the evening hours it's well-lighted with eight 400-watt mercury vapor lights. Electricity is provided by Monroe County Electric Co-Operative, Inc., Waterloo. Other facilities are three barns with a total of 48 stalls, a club house, swimming pool and a hilltop mansion-type home where the official caretaker, Bud Goode, lives. Stable manager for the group is Waldo Smith, a Lancer.

"Our group developed from men who were interested in horsemanship," Kehres said. "Some of them had never been on a horse before. But through owning their own horse and receiving competent instruction, they're among our best riders. It's a topnotch group of men."