

New! From Mutual of Omaha!

Three way protection

that covers you both IN and OUT of the hospital

UP TO
\$5,000.00

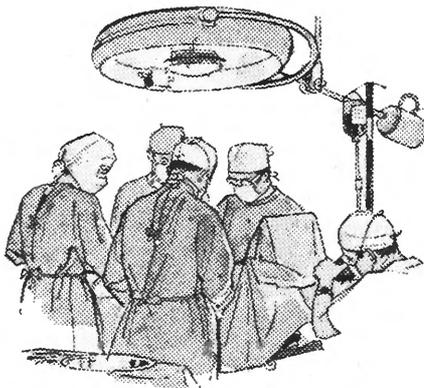
FOR DOCTOR CALLS AND HOME CARE



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

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S. B. Statrup
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Decatur, Illinois 62525
Phone AC217-429-5495

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Phone AC217-528-3434

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Jack Williams Division
285 South Plazaway
Cape Girardeau, Missouri 63701
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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:
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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 _____

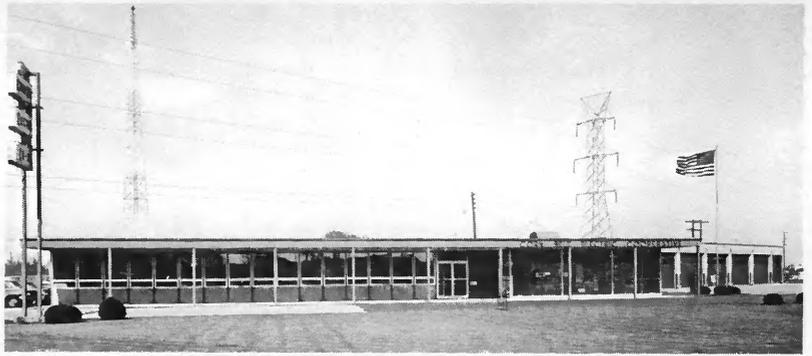
IF UNDER 18 HAVE PARENT SIGN HERE

Corn Belt Electric News

Box 816

Bloomington, Illinois 61701

Phone: 309-662-5330



Cooperative's Annual Meeting Feb. 17

The 1973 annual meeting of Corn Belt Electric Cooperative will be held on Saturday, February 17 in the Bloomington High School auditorium.

The annual meeting is your meeting and we hope each of you plan to attend. In addition to hearing brief reports from the officers, you will have the opportunity to participate in the election of directors and the other affairs of your business.

Your annual meeting will include a financial statement and brief report outlining the progress of your cooperative during the past year. If you have any questions or suggestions, present them to the directors or the staff at the meeting.13E3

Following the business portion of the meeting we have planned some fine entertainment. There will be a drawing during which many electrical appliances and other prizes will be given away.33D34

Thomas H. Moore, general manager of the Association of Illinois Electric Cooperatives, will deliver the keynote address.

Coffee, milk, and donuts will be served following the meeting and you can enjoy seeing your old friends as well as meeting some of Corn Belt's newest consumer-members. 48B19

Mark your calendar now so that come February 17 you won't forget to load up the family and join us in Bloomington for an enjoyable afternoon.

NOTICE

35TH ANNUAL MEMBERSHIP MEETING

CORN BELT ELECTRIC COOPERATIVE INC.

BLOOMINGTON HIGH SCHOOL AUDITORIUM

SAT., FEB. 17, 1973, 1:00 P.M.

PRIZES -- ENTERTAINMENT -- REFRESHMENTS

BRING THE WHOLE FAMILY



See
At Nite—
Install A
Security Lite!

Things To Do When Power Fails

If your electric service is interrupted and you find no blown fuses or tripped circuit breakers, check to see if your neighbors are also out of service and then call any of the following numbers collect (area code 309) and report the trouble.

8 A.M. to 5 P.M.

(Monday thru Friday)

Bloomington Office 662-5330

After hours and weekends—

Don Allen	662-3847
Frank Stevens	829-2726
Cliff Williams	663-2227
Joe Crosno	662-1253
F. G. Stahly	828-7438
G. V. Beer	452-7145

ILLINOIS RURAL ELECTRIC NEWS

ODC Helps Santa Claus With Mailing of Gifts

By Joe Crosno, Power Use Adviser

The Occupational Development Center, formerly called the McLean County Sheltered Workshop, is now located in new quarters at 300 South Center in Bloomington. It has been renamed to indicate a broadened approach to rehabilitation. This year your Christmas gift from the Corn Belt Electric Cooperative was packaged and sorted for mailing by the vocationally handicapped at the Center.

Handicapped people want to be self-supporting just like anybody else. They find it almost impossible to obtain the work skills that will allow them to hold jobs. The Occupational Development Center helps handicapped individuals take their right place in today's society. It specializes in vocational evaluation, training and job placement.36C4.

Training is available for clerical work, electronics, radio-TV repair, janitorial, woodworking, metal working, shipping and receiving. Small assembly and packaging work are sub-contractual. Stop in, visit the Center, and obtain first-hand information about operations of the ODC.72B13.

The Center utilizes work and work-related experiences in the development of each person's maximum work potential and social adjustment. All are encouraged to develop to their fullest capacity.22B8

Individual rehabilitation needs are always emphasized. Each person's vocational potential and limitations are evaluated. The individual then receives training to develop saleable work skills and effective interpersonal skills.39D21



Tom Eddy, left, contract procurement and public relations director for Bloomington's ODC, explains packaging procedures to Jerry Beer, manager of Corn Belt Electric Cooperative.

JANUARY, 1973



Betty Evans, standing, is work adjustment supervisor for this group which is packaging CBEC's light bulbs. Seated, from left, are Roberta McGrew, Gary Cundiff, Don Alexander and Dorothy Becker.

On-the-job-training comes next—actual work experience in the type of job that is most likely to bring success. Each person receives a paycheck while he works. Finally the individual gains the greatest degree of independence possible by being placed in a job that matches his skills. A follow-up program determines the effectiveness of the rehabilitation and determines if additional training is needed.

A significant number of disabled people in this area can, with special training and assistance, acquire job skills and join other people in going to work every day. Here are some things you can do to help these people help themselves.6C26

1. If you are an employer, hire the handicapped.
2. Use the ODC as an auxiliary labor force in your business.
3. If you know someone who could use this labor force tell them about ODC.
4. Tell handicapped people about the services offered at ODC.55A19
5. Most important, use your influence to help remove the stigma that society has attached to people who are handicapped.24A26



Eddy checks the final operation before the mail bags are delivered to the post office.

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, \$200 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.



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

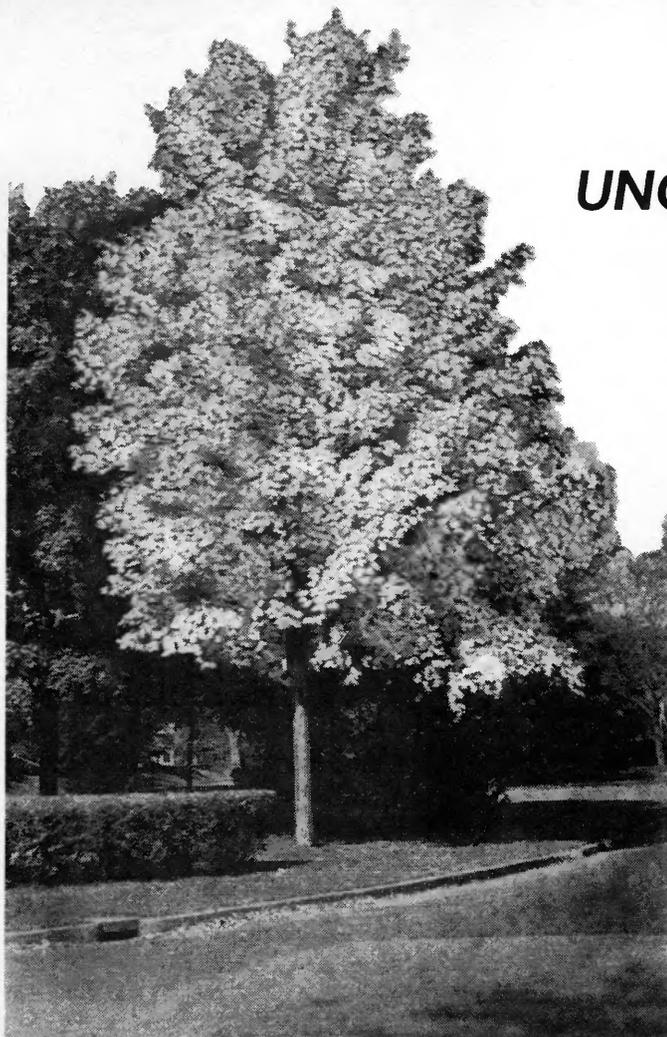
Stark Bro's Nurseries, Box A10313 Louisiana, Missouri 63353

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.

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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.

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.

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?

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.

- | | |
|---|--|
| <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 |
- I enclose \$_____ in cash check money order

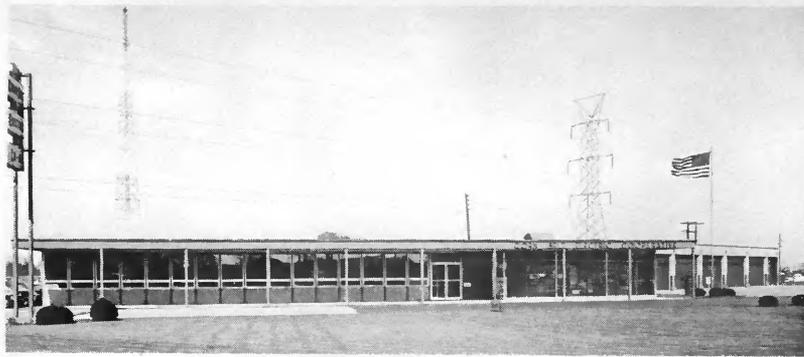
Name _____

Address _____

City _____ State _____ Zip _____

Corn Belt Electric News

Box 816
Bloomington, Illinois 61701
Phone: 309-662-5330



Sleet Storm Hits Central Illinois

On Tuesday, December 12, 1972, a freezing rain hit over 90 percent of Corn Belt's 10-county service area and by nightfall over 5,000 of its 8,000 member-consumers were out of service. Ice-laden wires and tree limbs gave way under the enormous strain and additional weight. Gusty winds added to the problem causing "galloping conductors" which when knocked together opened circuit breakers causing repeated line outages or the "burning" in two of primary conductors.^{35F23}

Crews were called in from Mattoon, Carmi, Newton, and Carthage to help Corn Belt's crews begin the monumental task of restoring service as soon as humanly possible to

its many members.^{55B27}

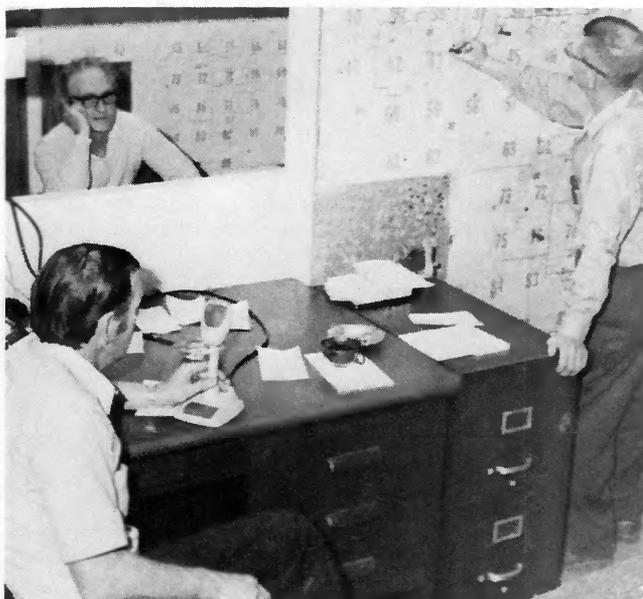
Interrupted only by brief rest periods these crews worked around the clock until late Friday night when hopefully service had been restored to all members capable of receiving service.

Increasing wind velocity caused recurring problems throughout Saturday and Sunday. Monday morning, December 18th, rising temperatures melted the ice and it

dropped from the lines.

The storm cost Corn Belt Electric Cooperative approximately \$50,000 which does not include labor and material spent after the storm to put the system back in pre-storm condition.

Corn Belt employees and their out of town help are to be commended for the fine job they did restoring service to our member-consumers. 46E8



ABOVE: Staff members dispatching orders to line crews and coordinating overall effort of service restoration. RIGHT: Permission to trim or remove trees like these would greatly reduce the number and length of outages during a wind or ice storm.



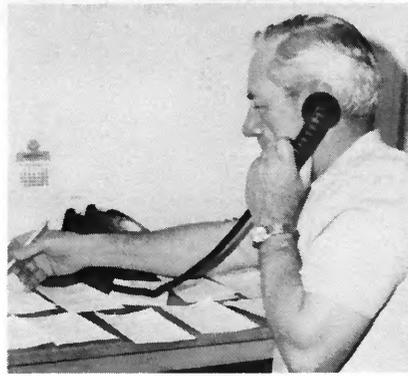
Comments Concerning Ice Storm

by G. V. Beer

Both praise and criticism are heaped upon an electric cooperative and its employees during a natural disaster such as the recent ice storm.25A23-AA

To be most effective we must follow a systematic, well-planned emergency procedure regardless of the impression it leaves on some people. Efforts are directed where we get the most results in the shortest time possible. For example, it does no good to work on a single phase line until all 3-phase feeder lines between it and the substation are back in operation.

Once a line is energized the majority of members living on that line immediately have service. The crew moves on to another section of line, by-passing those individuals with meters pulled off the house and individual service wires down because of tree limbs. This is done because by getting lines energized first and services second we put the most people back in service in the shortest time possible.40R23-AA



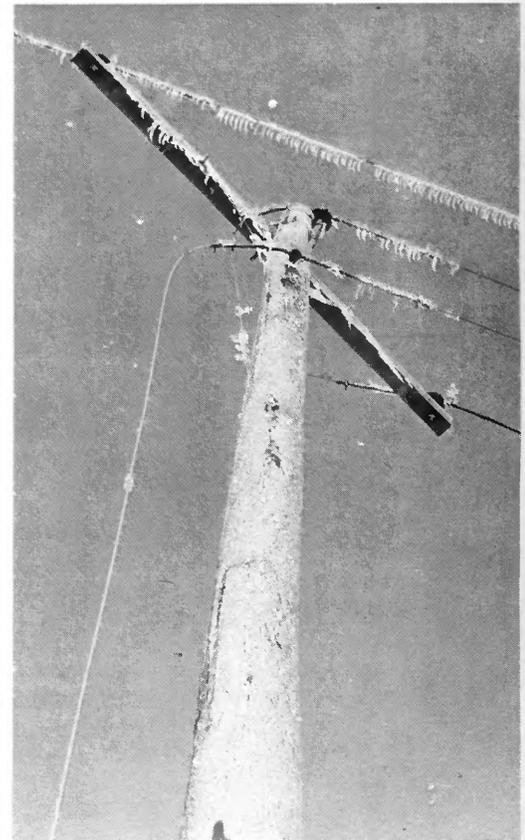
Joe Crosno, power use adviser, answers one of the several thousand calls during the storm.

You can help us and yourself against future storm problems in the following ways:

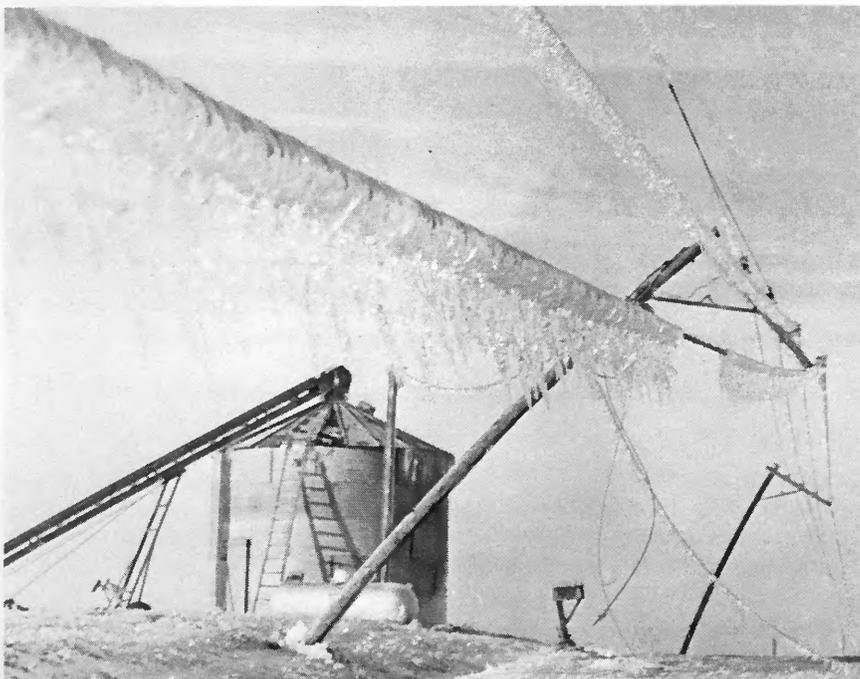
1. Remove limbs overhanging your own service wires. (Between the meter and the house.)12E12
2. Call and inform us of limbs overhanging our wires so we can remove them. (Between the meter and the transformer or out on the road.)16J20-L
3. Permit our forestry crew to trim your trees, when asked, back to the level requested.75B34
4. Do not build cribs or bins so close to our line that we are forced to go to side-arm construction to legally provide clearance between them.32A24
5. Accept Engineering Department proposals to avoid trees or other hazards when requesting new or altered service.



This was typical of dozens of services found demolished by falling tree limbs on the members' premises.



ABOVE: Ice-laden, wind-whipped wires snapped under heavy loads leaving poles and crossarms twisted or broken. LEFT: Notice the diameter of the ice on the wire.



What's New?



● Mini-Refrigerator

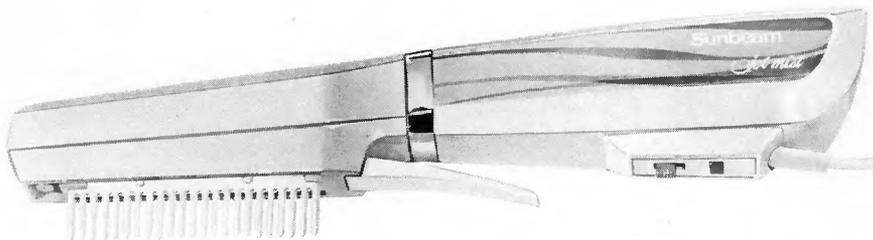
A 5.4 cubic foot refreshment refrigerator, designed for the home bar, den or recreation room is now available from Sears, Roebuck and Co. The new counter-high refrigerator has a small freezer section with a cube tray and is equipped with two adjustable shelves to allow for tall bottles. The compact Cold-spot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

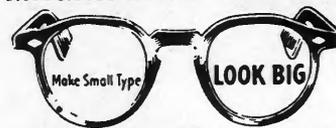
Grain Drying-

(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.



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The people who pay...

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

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 _____

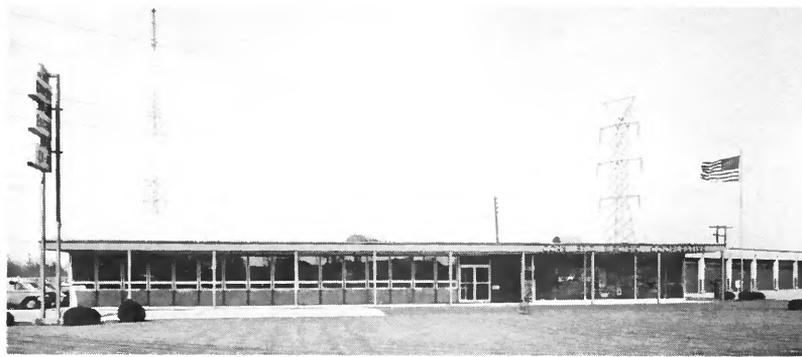
CITY _____ STATE _____ ZIP _____

FILL OUT AND MAIL TODAY. NO OBLIGATION!

Dept. 2R

Corn Belt Electric News

Box 816
Bloomington, Illinois 61701
Phone: 309-662-5330



Co-op Shows a Continuing Growth

Despite adverse lending conditions which face electric cooperatives, optimistic reports were presented to members of Corn Belt Electric Cooperative, Inc. (CBEC) at their 35th annual meeting on Saturday, February 17 at the Bloomington High School Auditorium.

Nearly 400 persons heard President Frank Simpson of Farmer City report that of the \$2,604,233.54 borrowed from the Rural Electric Administration (REA) all but \$506,367.03 had been repaid with interest.

"We have the remaining balance for your system's protection should funds be needed to meet emergency conditions," Simpson said. "Because

of our cooperative's rapid growth, especially in the Bloomington-Normal area, we can't generate enough income from our power loads to meet the capital requirements for our plant expansion. Money must be ploughed back into the system and this has to be borrowed funds until we have the necessary loads."

Manager G. V. Beer pointed out in his annual report that the system had realized a net gain of 506 new consumers during the past year and that active members now totaled 7,990.

"We are a dynamic, vital force in the continuing growth of rural America," Beer commented. He al-

luded to the fact that the cooperative now owns 14 substations serving 2,504 miles of line which also serve 48 platted rural subdivisions within CBEC's 10-county service area.

"Projections show that we must borrow approximately \$1,500,000 during the next three years," Beer said, "to meet the capital needs of the cooperative's expansion to meet growth demands."

Beer recognized two long-time CBEC employees who would be retiring during the coming months: Mrs. Verna Hoxworth, billing department supervisor with 17 years of service, and Don Allen, operat-

Cooperative officers, from left, are Secretary-Treasurer Rengel, Vice President Dressler and President Simpson.



Electric cooperative leaders, from left, are Thomas H. Moore, general manager, Association of Illinois Electric Cooperatives, Springfield and G. V. Beer, manager, Corn Belt Electric Cooperative, Inc., Bloomington.



Off
exe

ing superintendent who at age of 62 will retire with 34 years of service.

Thomas H. Moore, general manager, Association of Illinois Electric Cooperatives (AIEC), Springfield, commended the cooperative for its foresight and leadership in solving problems in order to continue to provide adequate power at reasonable rates.

Moore pointed out that the REA two-percent direct loans were terminated by the Office of Management and Budget with no advance notice and that most leaders in the electric cooperative program view the action as adversely affecting rural America more than any other decision that has ever been made.

"Cooperative leaders, as well as your own cooperative," Moore commented, "recognized that electric cooperatives could not, and should not, continuously depend on REA loans. Definite steps were taken for supplemental financing when electric cooperatives across the nation formed their own bank, the National Rural Utilities Cooperative Finance Corporation (CFC)."

Moore emphasized that the most logical solution to the REA lending program was in the Humphrey-Aiken Bill requiring the Administration to restore the REA direct-loan program. This restoration, Moore said, would provide the

ation permitted members in attendance to voting rights.



MARCH, 1973

WARNING!!!

NOTICE TO ALL POTENTIAL BUYERS OF CROP DRYERS

No crop dryers will be energized by Corn Belt Electric Cooperative after July 1, 1973 *unless* your plans have been approved by our Engineering Department prior to that date.

Consult your electric supplier *BEFORE* you purchase a dryer. We may not have immediate system capabilities to handle the drying load at your location this year. (A detailed letter of explanation will be mailed to each member this month.)

necessary time for cooperatives to make a more rapid move away from government financing on a reasonable, graduated basis.

During their business session, the members authorized the board of directors to borrow up to \$5,000,000 over the next five years to meet capital needs for plant expansion, and re-elected the following directors to the board: John Alpers of Colfax, Thomas Johns of Delavan, Dorothy Rengel of Bloomington and Frank Simpson of Farmer City.

Other members of the board are John Butterfield of Maroa, Gene Dressler of El Paso, J. D. Moberly of Clinton, Homer Jeckel of Delavan, Harry A. Miller of Bloomington, Willis Sommer of Gridley and John W. H. Tompkins of LeRoy.



ABOVE: Mrs. Ed L'heureux, a Bloomington member, "buttons-up" their daughter, Kathy. BELOW: Entertainment was provided by the Bloomington Barbershop Chorus.



13

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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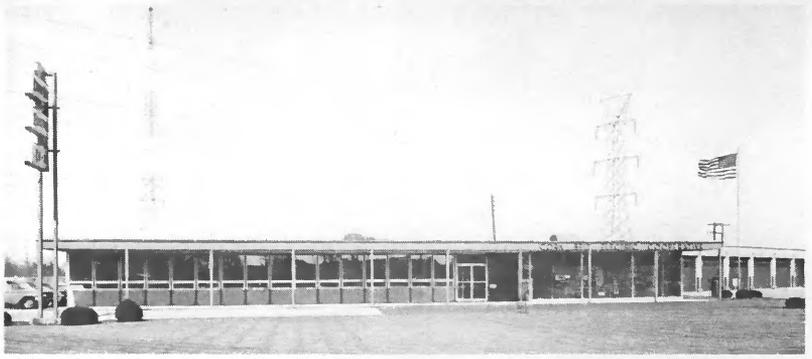


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4-H Electricity School

by Joe Crosno, Power Use Adviser

About 90 4-H'ers and some parents and leaders from McLean and Livingston counties attended the annual all-day 4-H Electricity School on Monday, March 5 in the ballroom of the Student Union building at Illinois State University, Normal.

About 30 boys and 30 girls from various 4-H clubs in McLean County and 18 girls and 14 boys from Livingston County clubs attended the session.



Joe Crosno

Dave Baker, assistant extension adviser, McLean County and Jerry Hicks, assistant extension adviser, Livingston County, and Ruth Hensen, assistant adviser of home economics in Livingston County, conducted the program.

The meeting opened with a mixer of games and singing, followed by a film, "Usually on Sunday." The film highlighted emergency shut-off procedures for all utilities; the nature of electricity; replacing plugs, light switches and wall receptacles; methods to fix dripping faucets, running and overflowing toilets, stuck disposals, busted water heaters and precautions to take until a service repairman arrives.

Helping with instruction of the five exercises were: Mrs. Elizabeth Ireland, Home Service Adviser, IPC. "Appliances that Heat for Food Preparation;" Tom Moore, Commercial Sales Representative IPC, "Insulation for Electric Home Heating;"

Ron Ruby, Residential Sales Representative, IPC, and Vince Ijams, Assistant Power Use Adviser, Corn Belt Electric Cooperative, "Home Heating Electrically," and myself, "Heating Tools for Shopwork and Hobbies." Dave Becker also helped with "Electric Heat for Animal and Crop Production."

The 4-H'ers were divided into five groups of approximately 18. Each exercise continued for about 30 minutes with each group moving to another exercise until all five had been visited.

E. R. Applegate, supervisor of community relations, IPC, gave a talk on the progress of the new atomic generating station which is to be constructed east of Clinton in DeWitt County.

Tom Moore explains the importance of good insulation for conservation of energy.



Mrs. Elizabeth Ireland explains the various appliances available for food preparation.



Ron Ruby and Vince Ijams show the various electrical heating units now available for home heating.

Dear Member:

Please -- don't take chances with wet weather and ruined grain this year!

We want to serve you and help save your grain. To do this, we definitely need your assistance during these times of ever-increasing fuel shortages.

Corn Belt Electric Cooperative cannot guarantee service to your crop drying installations after July 1, 1973, unless our Engineering Department has approved your new plans BEFORE July 1.

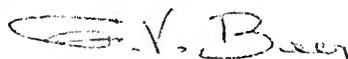
Please -- plan ahead with us to meet your future needs! Contact our personnel in the Engineering Department as soon as possible if you are thinking about buying a new crop dryer or adding to your present setup.

July 1, 1973, is the cutoff date for requests to extend service to new dryer installations.

We're sincere about helping you prevent spoilage and loss. If you have any further questions, please call our office or stop in to see us.

Sincerely yours,

CORN BELT ELECTRIC COOPERATIVE

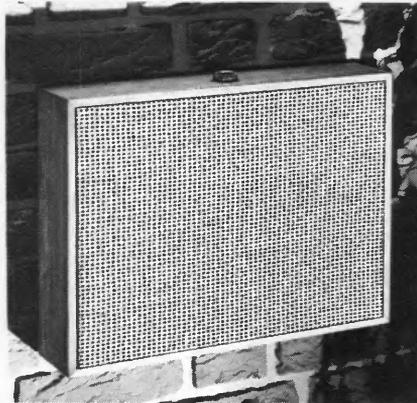


G. V. Beer, Manager

What's New?

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.



A Time Of Crisis

(continued from page 5)

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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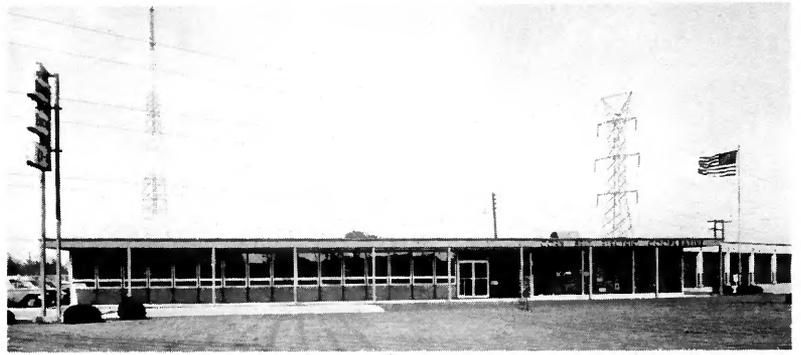
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Your Office Corner

By Forrest Staley, Office Manager

Your electric co-op "DOES NOT" have any agencies collecting payments for your electric service bills. There may be a few businesses that will accept your payment and in turn send the payment to us. They are making these collections without any arrangement with your cooperative. The payment made to them is not considered paid until it has reached our office. Therefore, if the collector's remittance to us is postmarked the 16th or later, the payment is considered late. 21B9



Forrest Staley
Office Manager

We are not in a position to prevent you from paying elsewhere but we do want you to know our policy regarding this manner of handling accounts paid at another location. 39B1

Sears Roebuck & Company and McLean County Bank have been doing some collecting and remitting to us. We have "NOT" authorized them to make these collections. These remittances to us are handled in the manner described in the first paragraph. 64B28

Our membership is not concentrated in one area enough to make it feasible to have collection agencies throughout our service area. 12A15

I would like to repeat our schedule of dates for meter readings and electric bill payments:

1. Meter reading cards mailed in time for you to read meter no later than 20th of the month.
2. Your electric service bill is to be mailed on the last day of this month and dated the first day of the month following the meter reading.
3. Your electric bill is due the first of the month, you have until the 15th to pay without being late. The postmark of the payment is our guideline in determining whether payment is the 15th or later. A letter post-marked the 15th is considered on time.
4. Service is to be disconnected soon after the end of the month if not paid.

Your Board of Directors have established this policy and we are expected to follow out their instructions. 40P24

Stand-by Equipment For Power Interruptions

By Joe Crosno, Power Use Adviser

Electricity has become essential to farm operation and family living. Unfortunately, few people realize that fact until the power goes off.

Ventilating fans, water pumps, milking machines, mechanical feeders, fall-out shelters, refrigeration, furnace controls and other vital modern production equipment require continuous electric service.



Joe Crosno
Power Use
Adviser

Storms, accidents, nuclear disaster, or unavoidable breakdown of power-generating or transmitting equipment at times cause power failures. If a power outage lasts for any length of time, serious problems such as animal suffocation in windowless animal shelters, food spoilage, frozen water pipes or less of production will result. This ever-increasing dependence on a constant supply of elec-

Table III. Starting and Running Requirements for Commonly Used Single-Phase Motors

Motor HP rating	Approx. amps (full load)		Watts required* to start	
	120v.	240v.	Split phase	Cap. start**
1/6	4.4		860	
1/4	5.8		1,500	1,200
1/3	7.2		2,000	1,600
1/2	9.8	4.9		2,300
3/4	13.8	6.9		3,345
1		8		4,000
1-1/2		10		6,000
2		12		8,000
3		17		12,000
5		28		18,000
7-1/2		40	15,100***	to 28,000
10		50	81,900***	to 36,000

*Adapted from Cornell Extension Bulletin 879.

**Reduce 25 percent for repulsion induction motors.

***Soft start motors.

Equipment	Size	Start watts	Loading Sequence on Generator-Watts	
			starting**	running**
Water pump	¾ hp	3,345	3,345	835
Freezer	½ hp	1,600*		
Refrigerator	¼ hp	1,200*	4,835	1,835
Furnace	¼ hp	1,200*		
Range 1,000 W (one top element)				2,835
Lights	750W			3,585

*All starting at same time. **Including previous load.

tricity has caused increased interest in standby equipment for generation of electricity. 33K16

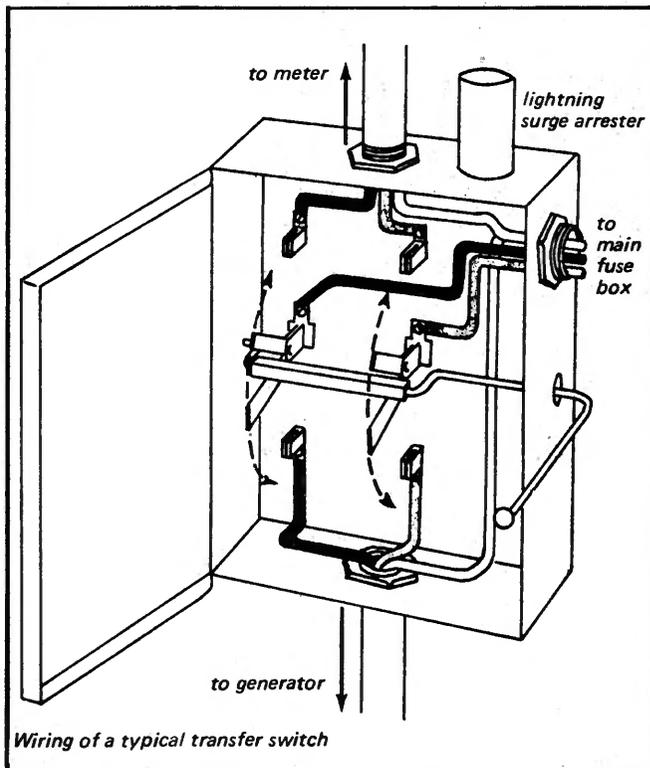
Stand-by power equipment can convert physical inconveniences and mental frustrations into ease of mind and uninterrupted production. A farm operator or home owner must decide if he will buy the insurance of a stand-by generator or if he is willing to accept the risk of power failure. The expenditures for stand-by generation equipment must be considered as being the same as any other kind of insurance. The cost of installation and maintenance of the system must be compared with the possible financial loss and inconveniences due to power outages. Justification will depend on the size of operation, essential electrical uses and history of power failures for the area. Stand-by power equipment should provide dependable electric insurance for about 20 years, excluding demand changes, if it is used and maintained properly. 20D14

Farm operators, particularly those who depend on continuous electric service for such processes as mechanized feeding, milking machines, ventilation or automatic waterers might find it worth while to provide for emergency electric power. 76E36

The National Electrical Code requires that a stand-by generator be connected so as to prevent the inadvertent interconnection of the two power sources. A double-pole, double-throw switch is usually installed between the power supplier's meter and the service entrance (100, 200, or 400 amperes). If current transformers are used for metering, a pole-top transfer switch may be used. 25F19

The stand-by generator should be set up in a safe, dry place. It should be within 25 feet of the transfer switch, preferably within sight. The generator should be conveniently located, especially when manually controlled or tractor driven, so no time is lost in an emergency.

The use of a double-throw switch prevents power from feeding back into the power supplier's line and endangering the lives of linemen who may be working to restore power. It also prevents accidental re-energizing of the farm or home service system and consequent burnout of the generator when regular power service is

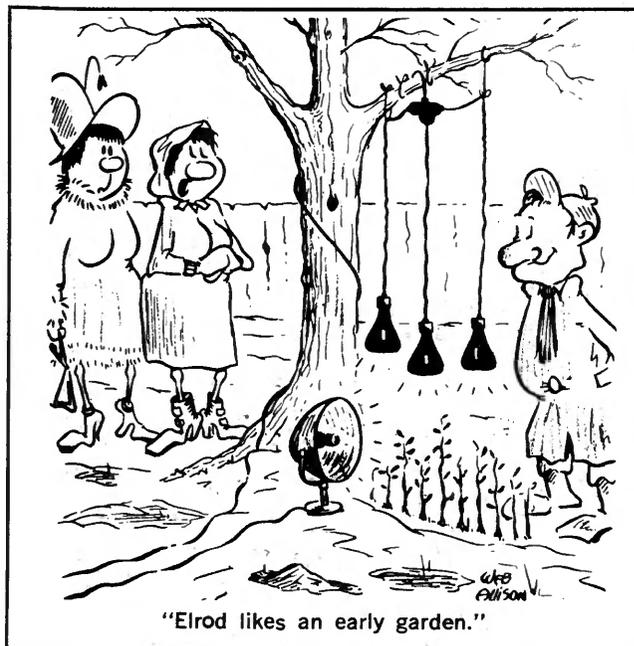


Wiring of a typical transfer switch

restored. Most stand-by equipment guarantees are voided if the transfer switch is not used.

The double-pole, double-throw switch can be located at the service entrance, inside a building, or on a central meter pole. A single circuit or selected circuits may be connected through a transfer switch. All equipment located outdoors should be weather-proof and meet safety standards. 48C32

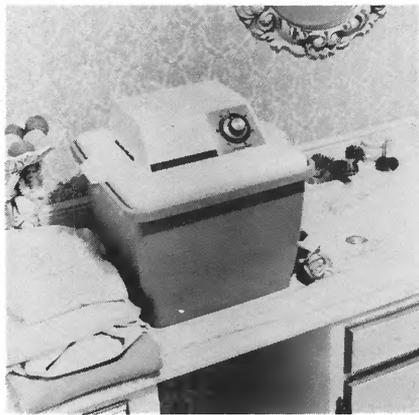
Stand-by generating equipment can be divided into two general types: engine-driven and tractor-driven. Tractor-units can be stationary or portable, as a trailer mounted unit. Engine-driven units can also be stationary or portable and can be either manual start or automatic start. Stand-by generators are available to operate either as single or three-phase.



What's New?

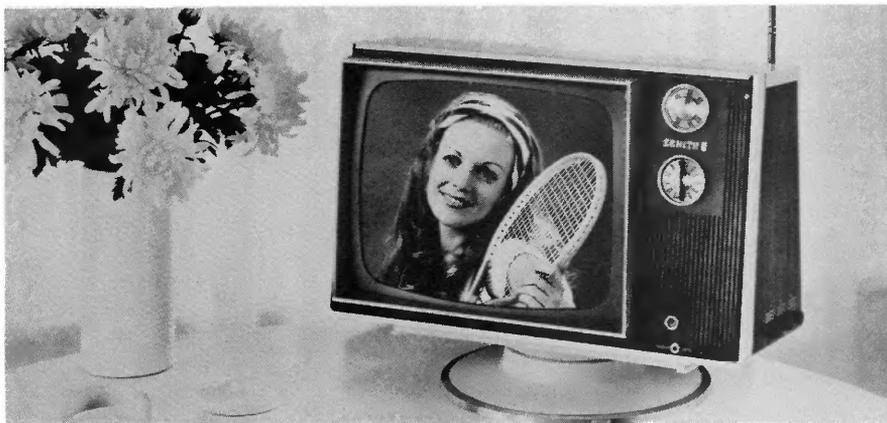
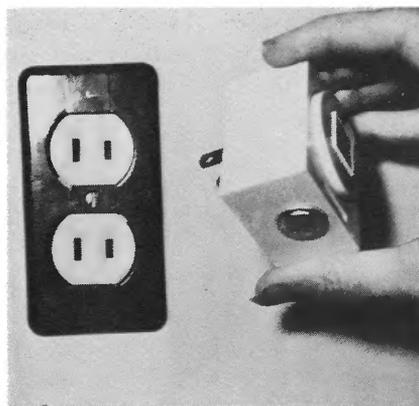
Mini-Washer

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 per cent 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 Cooperative, 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.

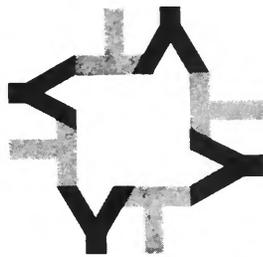
Legislators quickly pointed out to the group that most of the debates have been heard before in committee meetings or in an earlier session. But when a crucial vote is at hand, utter silence is observed.

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 a 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.



Corn Belt Electric News

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Darlene Schmidgall Wins Washington Trip

Darlene Schmidgall, 17, daughter of Mr. and Mrs. Paul Schmidgall of Mackinaw was named the winner of a week's all expenses paid tour to Washington, D.C.

A junior at Deer Creek-Mackinaw High School, Darlene (above left) placed first in the 14th annual "Youth to Washington" essay contest sponsored by Corn Belt Electric Cooperative.

Second place went to Brenda Bain, 15, daughter of Mr. and Mrs. Albert A. Bain of Saybrook. Brenda (above right) is a sophomore at Saybrook-Arrowsmith High School. She was awarded an electric clock radio.

Other finalists were Jeffery Ferrell, 16, son of Dr. and Mrs. Carl Ferrell of Saybrook, and Melonie Ingle, 15, daughter of Mr. and Mrs. Glen Ingle of r.r. 1, Lexington. Melonie is a sophomore at University High School and Jeffery is a sophomore at Saybrook-Arrowsmith High School. Both received radios as their prize.

Judges for this year's event held at the Sinorak

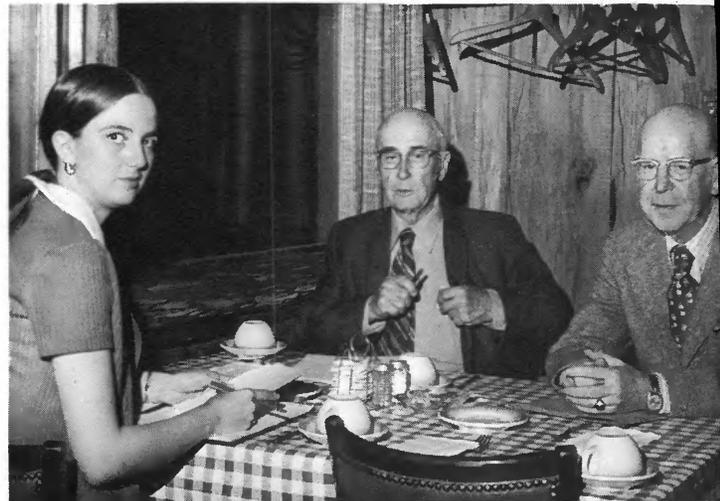
Smorgasbord in Bloomington were Ted Hafer, former manager of Corn Belt Electric; Mrs. Donna Nikkel, assistant extension advisor for the Cooperative Extension Service, University of Illinois; and Clay Tate, retired editor of the Bloomington Daily Pantagraph.

The essays were judged for originality, 20 percent; content, 20 percent; facts, 20 percent; composition, 20 percent, and oral presentation, 20 percent.

During the trip to Washington, Miss Schmidgall and nearly 50 other Illinois winners will join approximately 1,200 other students from nearly 30 states who will be participating in "Rural Electric Youth Week" activities sponsored by the National Rural Electric Cooperative Association. Other planned program activities include touring the battlefield at Gettysburg, the U.S. Capitol Building, the Library of Congress, Arlington National Cemetery, the Smithsonian Institute and other national shrines. The group will also be special guests at the White House.



Essay contest finalists from left are Melonie Ingle of Lexington, first place winner Darlene Schmidgall of Mackinaw, runner-up Brenda Bain of Saybrook, and Jeffery Ferrell of Saybrook. Corn Belt Electric Power Use Advisor Joe Crosno, right, presented certificates of merit to the finalists.



Judges for the essay contest were, from left, Mrs. Donna Nikkel, assistant extension advisor for the Cooperative Extension Service; Ted Hafer, former manager of Corn Belt Electric, and Clay Tate, retired editor of the Daily Pantagraph.

The Electric Cooperative's Role In Rural Community Development

by Darlene Schmidgall

Throughout America's history there have been many changes. One of the major changes has been electricity as an addition to rural development. I am going to tell you how electricity and the cooperative have changed rural America.

The Rural Electrification Administration, better known as REA, is an agency of the Department of Agriculture. One of its functions is bringing electricity to rural America. The REA itself does not own, build, or operate any electric power facilities. It lends money to various organizations so they can build and operate generators and power lines. Most REA loans go to cooperatives formed by rural people who want electric service. REA also provides engineering advice and management assistance to help its borrowers build and operate their electric and telephone systems.

The REA loan programs improve living conditions for rural people in many ways. They make it possible for these people to have electric lights and many modern conveniences.

In 1882, after Thomas Edison built the first central station electric system, people began moving from the farms into the cities. It was to be many years before rural America acquired electricity. The lack of electricity in rural areas was a result of people in the electric power industry. They could foresee no profits to be made from serving farms.

Rural life three decades or more ago is remembered for the primitive conditions and the burden of doing everything by hand. Even my father and mother can remember milking cows by hand, pumping all the water for the livestock, and the lack of power tools, such as drills, welders, grain dryers, and various motors. An example of their hard work without electricity was when they elevated corn into the crib by driving a horse around in a circle. Today we use a motor for this job, which makes it much easier and faster. Agriculture was not even thought of as an industry because everything was done by hand and therefore there wouldn't be much output. If a man wanted more money than farming offered, he took his family and moved to the city, because that's where the jobs were.

Power companies served most of the big cities, and began expanding their lines to the main roads next to the largest cities.

To have electrical power a rural customer had to pay two or three thousand dollars a mile for the highline. At that time most farmers made a gross income of \$1,800 a year. After paying for the highline, they still had to pay an additional cost, between ten and forty cents per kilowatt-hour. As you can see, this cost was out of the question for most farmers.

Electric and telephone service helps the economic development of rural communities by increasing farm production and the encouragement it gives to establish local businesses and industries.

By the mid-1960's more than 98 out of 100 farms had electricity. About 93% of REA borrowers are cooperatives. The cooperatives sign up prospective members, organize under state laws, and then apply to the REA for a loan. The cooperative must prove that its members will buy enough electricity to repay the borrowed money to receive a loan.

REA borrowers operate more than 1½ million miles of electric power lines. They also provide electric service to about 5½ million customers.

You have seen what REA has done, now take a look and see how cooperatives work and what they have done to develop your community.

A cooperative is a business enterprise, jointly owned by a group of persons and operated without profit for the benefit of the owners.

There are several types of cooperatives. One kind is for the purpose of selling goods produced by the members of that cooperative. This type is called a marketing cooperative. Another is for the purpose of buying goods to resell to its members, and sometimes to the general public as well. This type is called a consumer or farmer-purchasing cooperative. The last type is a service cooperative. The service cooperative furnishes loans, provides housing at cost, produces goods, and performs various other services, including electric power.

A cooperative, or co-op, is established for the people. A cooperative is always a locally owned business because it belongs and is owned by the people who use it. A cooperative is a "people-oriented" business, while other businesses are "dollar-oriented."

Another very outstanding quality of a co-op is one member, one vote. One member, one vote regardless of share held, is the only way to keep one or two persons from taking control of a cooperative. It gives more "power to the people." Each person's vote counts as much as anyone's vote, regardless of race, creed, or economic status.

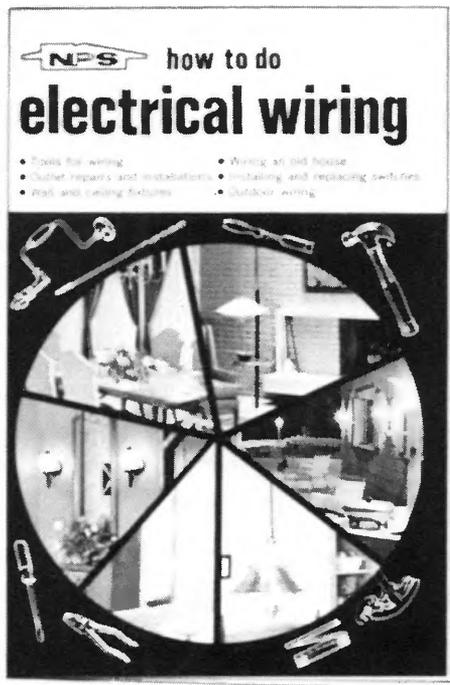
When you join a co-op, you will get a quality product at the lowest price possible because you have a say in the business. Electric co-ops most dramatically fulfill these principles and give "electric power to the people."

As you can see, rural America has benefited greatly from the REA and the cooperative. If it were not for these two organizations, farmers might still be in the dark, doing everything by hand as the cities marched on to conquer new things in the light.

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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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.

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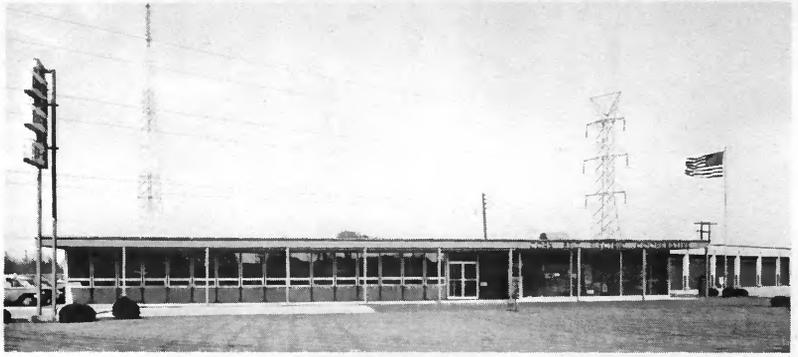
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Corn Belt Electric News

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Co-op's Growth Demand Requires Borrowed Capital

Development of rural service areas and the ever-increasing electrical needs of Corn Belt's 8,000 member-consumers will necessitate borrowing growth capital from REA during 1973.

On May 11, President Nixon signed into law a bill re-establishing the REA loan program. The bill provides for at least \$618-million to be made available in each of the next three years. The new program replaces the direct loan program with one of insured and guaranteed loans supported by private financing.



G. V. Beer
Manager

The great bulk of loans will be

made at 5% interest, with a minimum number of systems qualifying for the "special" 2% rate under the bill's loan criteria.

Corn Belt will be allowed to borrow only 70% of its total money requirement from REA at the 5% rate with the remaining 30% to come from the private money market at the going rate of interest. 25A30-M

Projected growth figures indicate that Corn Belt will need to borrow approximately \$1½-million during the next three years. These funds will be used to build new substations, overhead lines, bury underground cable, and to update many existing lines and services. 43A1

Continuous system improvements are necessary to meet the growing load demand of Corn Belt members.

many happy retirement years together. The Hosworths reside at 410 Phoenix Ave. in Bloomington.



President Frank Simpson presents Mrs. Verna Hoxworth with a plaque upon her retirement after 17 years of service to the cooperative.

Verna Hoxworth Is Honored At Retirement

Nearly 100 persons attended a recent dinner in honor of Mrs. Verna Hoxworth who has retired as supervisor of the billing department following 17 years of dedicated and loyal service to Corn Belt Electric Cooperative.

Mrs. Hoxworth was presented with a plaque of recognition by President Frank Simpson and a camera by her co-workers. 6A31

We know you join us in wishing Verna and her husband, Claude,

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PROTECTS CONSUMERS**

you've seen
it a "million
times"



but have you thought about...

Electrical appliance shopping can be done with more peace of mind if you look for certification of the quality of the items you purchase. One guarantee of product dependability is the UL Seal.

U.L.—a guardian of product safety—often is not understood fully by consumers. UL is the Underwriters' Laboratory, an independent non-profit corporation dedicated to protecting consumers from hazardous products.

UL was formed in 1894 by a group of insurance companies and is governed by a board of power suppliers, business, government, consumer and professional group representatives.

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Manday through Friday from 8 o.m. to 5 p.m. call the Bloomington office at 309-662-5330.

After hours and weekends, call:

Frank Stevens	829-2726
Lee Thomas	828-0237
Cliff Williams	663-2227
Joe Crosno	662-1253
F. G. Stahly	828-7438
G. V. Beer	452-7145

Electric Power Conserves Basic Energy

Who says gas is more efficient when used directly? **FACT:** The more electricity we use for everyday needs the more basic energy we save. Energy losses at a generating station are less than the combined losses would be at our individual homes. 65A5

If all gas post lights in the U.S. were replaced by photo-electrically operated electric post lights the basic energy saved would heat electrically, all of the homes in an average American city of more than a million people.

Just 12 gas lights use more energy in one year than did one all electric home. It is estimated that there are 125 million gas pilot lights in furnaces, ranges, water heaters, and dryers burning every second of every day. This wasted energy would provide the electric heating requirements of a typical American city of 10 million people.



Joe Crosno
Power Use
Adviser

Did you know that it takes about $\frac{1}{2}$ ton of air conditioning to remove the heat from one pilot light on a

gas range. 31B26

Housewives in homes having gas ranges are almost one-third more likely to have acute lower respiratory ailments than are those in homes with electric ranges. Children and husbands, who are presumably less exposed to range emission, show up with only a 10% greater incidence of ailment in gas-range homes.

Those are the preliminary findings recently released by the U.S. Environmental Protection Agency's National Environmental Research Center in Durham, N.C. The health of 87 families with gas ranges and 29 comparable families with electric ranges was closely observed for eight months, from October 1970 through May 1971. The site of the study was Riverhead, Long Island (N.Y.), which is relatively free from atmospheric pollution. 24A21

Lower respiratory ailments include bronchitis, chest colds, asthma, and pneumonia. The national average for these ailments is 1.2 per person per year. 75B4

One of the gas-range homes was fitted with equipment to monitor pollutants at the range and at a point six feet away. Even with a hood-type exhaust fan operating measurements at the normal location of the housewife's head showed nitrogen dioxide levels of from 0.2 to 1.0 parts per million, depending on how many burners were in use. Federal health standards consider .05 ppm as the maximum safe limit. At six ft. from the gas range, NO_2 concentrations had fallen off to one-fourth of the levels at the range.

FACT: A home heated electrically contributes to the area of use only one-hundredth the air pollution of a home heated by fuel burning energy. If electricity heated every home, air pollution in cities would be decreased by 20% of today's level. If electricity supplied

50% of Americans' energy need, rather than today's 25%, air pollution would be cut in half.

Will there be enough electricity to meet our demands: Ample dependable supplies of electricity for the long-term future can be generated from domestic fuels found in abundance within the U.S.

This is true even though known oil reserves in the U.S. are ample for only 11 years, at present rates of use. Even today, 28% of the oil we used each year is imported.

Known natural gas reserves in the U.S. will last for only 12 more years, at our present rate of use. Today large tankers are being built to greatly expand our imports of liquefied natural gas. Thus, for these two sources of basic energy we are increasingly dependent on foreign nations—not all of them friendly. 21E25

We burn coal for some 50% of the electricity generated in the U.S. each year. Our known coal reserves in the continental U.S. are ample for the next 300 to 500 years, and even more at our present rate. 60A14

Burning fuel to generate electricity does produce some combustion by products. This is why electric utilities use tall stacks, electric air cleaners and scrubbers—and locate power stations in areas remote from population centers, wherever possible. It is why the nation's electric utilities spent in 1972 alone one billion dollars—82% more than in 1971—on equipment to eliminate or minimize air and water pollution at power stations.

Nuclear generation, responsible for a steadily increasing proportion of our electricity, offers even more assurance for the future. With improved technology—such as fast breeder reactor, which actually creates more fuel as it operates—known nuclear reserves are ample for more than 64,000 years. 35C13



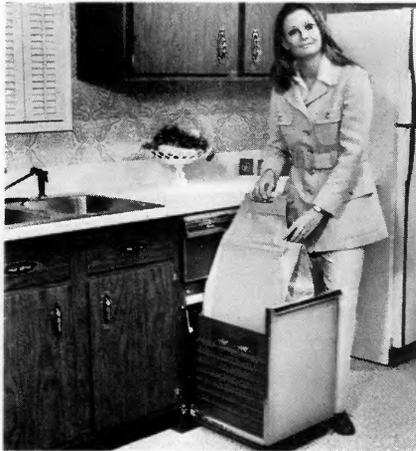
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Clean as sunshine. Electric heating quietly floods your home with uniform warmth, free from cold drafts and hot spots. Combined with electric cooling, electric heating gives unmatched year-round comfort.

It's thrifty comfort too... in both installation and operation. We suggest you consider electric heat when

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, coppersone 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 Hotpoint. 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 Youth for Tomorrow's Needs

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-

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From atop of WIPCO's steam generating plant at Earl, 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.

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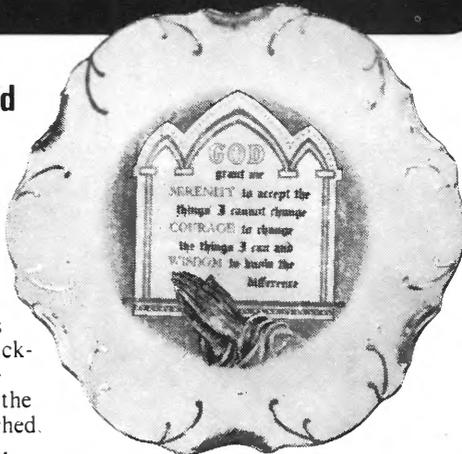
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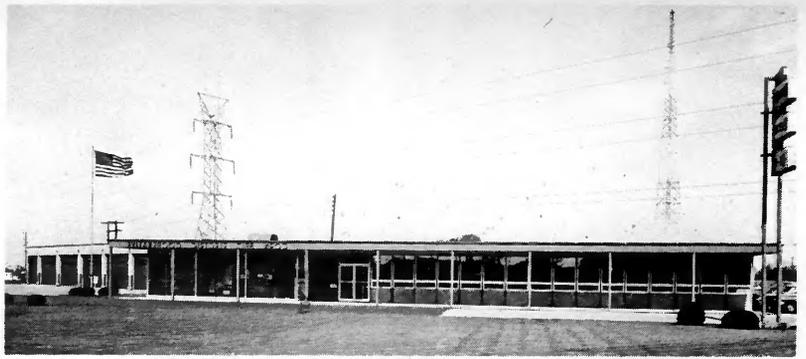
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Corn Belt Electric News

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Tips of the Month

ADEQUATE WIRING,

An adequate wiring system is the first step towards efficient, economical and safe use of electricity.

If your wiring system is not big enough to carry your home's electrical load, your appliances and other electric equipment will slow down when in operation. This wastes electricity and could damage your appliances and equipment. **22B24.**

Whether you're remodeling, building, or buying a home, adequate wiring assures you of greater efficiency in your use of electricity.

Designing an adequate wiring system is no job for an amateur. Deal with a reputable electrical contractor when checking or installing wiring. **82A14**

Or, ask your cooperative's power use advisor to assist you in your planning or problem solving. He'll be happy to help you at no cost.

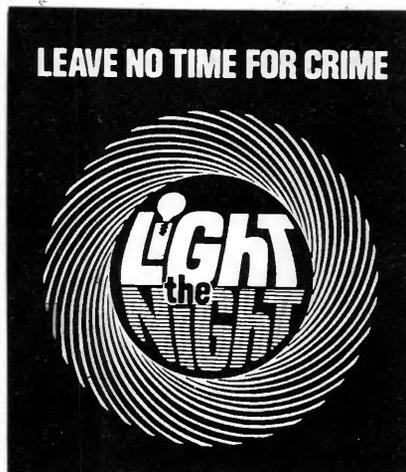
ELECTRIC WATER HEATER

The overall operating efficiency of the electric water heater is higher than that of any other kind. Its tank is fully insulated against heat loss. And, since it needs no vent, you can locate it at the point of greatest efficiency.

When you locate your water heater near the spot of greatest hot water use, you save on both the installation (long pipe runs) and operation (loss of heat from long pipe runs). If locations of hot water needs are widely separated, you may find it more economical to install more than one water heater. **36C28**

Leaky faucets waste both electricity and water. A leak of 60 drops a minute wastes seven gallons of hot water in 24 hours.

In hard water areas, drain accumulated mineral deposits from the water heater periodically.



Emergency Numbers

Bloomington Office 662-5330
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After hours and weekends —

Frank Stevens	829-2726
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Cliff Williams	663-2227
Joe Crosno	662-1253
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G. V. Beer	452-7145

Line

Department

By the time you are reading this issue of REN I will have retired from Corn Belt Electric after more than 34 years of employment. **34C10**

There were times during those years that were not the most pleasant but in all it has been a very rewarding experience. Where else could you work with a more dedicated group of people? Why would a man want to be a lineman and work under the most hazardous conditions during snow, rain and ice storms?



D. W. Allen
Line Superintendent

The reason is that the job presents a challenge and this country was founded on a challenge. It is a real challenge for men to keep abreast with the ever-changing and complicated demand being placed on the electrical field.

There was a challenge when your co-op was founded and now the entire electrical industry is facing the challenge of the environmentalists who are responsible for the shortage of fuel for generation. People have always banded together to accomplish an end and your co-op needs your loyal support as much now as when it was organized. **56T23**

My wife, Yvonne, and I want to thank you for your patience and your help during the many ice storms we have gone through the past 34 years. The only difference now is that we will also be calling the cooperative when our lights go out.

ILLINOIS RURAL ELECTRIC NEWS

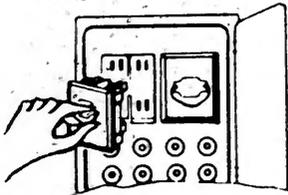
How to Change a Fuse or Reset a Breaker



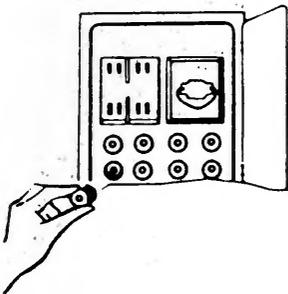
When
The
Lights
Go
Out



1. First disconnect lamps and appliances in use when circuit went out.

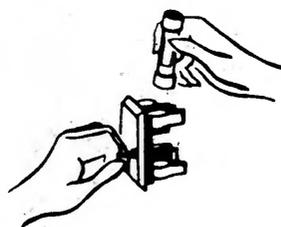


2. Make sure your hands are dry; stand on a dry board or rubber pad, if possible. Open main switch, or pull out section of panel labeled "main" in the service entrance, to cut off current while working at the branch circuit box.



3. Identify the blown fuse. When a fuse blows, the transparent section becomes cloudy, or blackened.

4. Replace the blown fuse with a new one of proper size. The smaller sizes screw in and out just like light bulbs. If the blown fuse is a cartridge type located in the pull-out section, it can be removed by hand pressure.



5. Close the main switch, or replace pull-out section to restore service.

6. Throw away the blown fuse.

NEVER, NEVER, NEVER put a penny behind a fuse. There is extreme danger that your house or building will burn down.



HOW TO RESET A CIRCUIT BREAKER

1. Move handle to OFF position
2. Push handle past OFF position
3. Return handle to ON position

Fuses and circuit breakers are the safety valves of your electrical system. The different electrical circuits in your home are meant to carry only certain amounts of electricity. Some carry only 15 amperes while others carry 20 or more. They are marked to show capacity. **39A22**

When a fuse burns out or a circuit breaker opens, look for short circuit in the cords and appliances on the circuit before you try to replace the fuse or close the circuit breaker. Without these safeguards, the overloaded electric line will heat up and may start a fire. Even if no fire starts, electricity will be wasted and you will be paying for electricity that's doing no good. **16C16**

Remember, if you ever have to replace a fuse, to pull the main switch first. It is important to get fuses in tight. Keep a flashlight handy in your house. It seems that fuses usually blow at night, and it doesn't pay to stumble or fumble around electric wires at night.

The ordinary fuse (Type W) has practically no time lag, so it blows almost at the instant of overload. Type T & S are preferred. **66A21**

The Type T (dual element) has a short lag following overload before it will blow. This short period will provide extra current required in starting a motor without service interruption. On a direct short, however, it will blow almost instantly.

The Type S (dual element) with a special adapter provides additional safety. **26R8-AX**

The adapter for the correct amperage rating locks into a standard fuse socket so a larger fuse cannot be used. It makes safe protection remain safe. The threads are made of porcelain and fine pieces can break off when removing. Blow in the holder to remove any fine pieces of porcelain before replacing otherwise fine unnoticed chips may keep the new one from making proper contact with the base of the receptacle. **9B14**

Be sure to keep an ample supply of extra fuses on hand. Operating your wiring system without proper fusing is just like running your car without brakes. You must have something in the circuit to stop the flow of current when it is needed.

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.

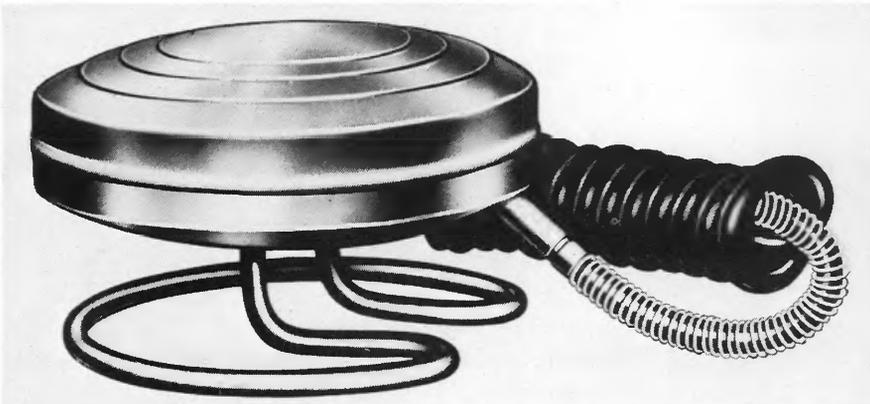


Eliminator

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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Mfr. and Distr.

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, AUTHORITY." —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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Please rush me — Guinness Book of World Records at \$5.95 ea. (plus 60¢ post. and hand.) Enclosed is my check or money order for \$_____. If not completely satisfied, I'll return the book within 15 days for a full refund.

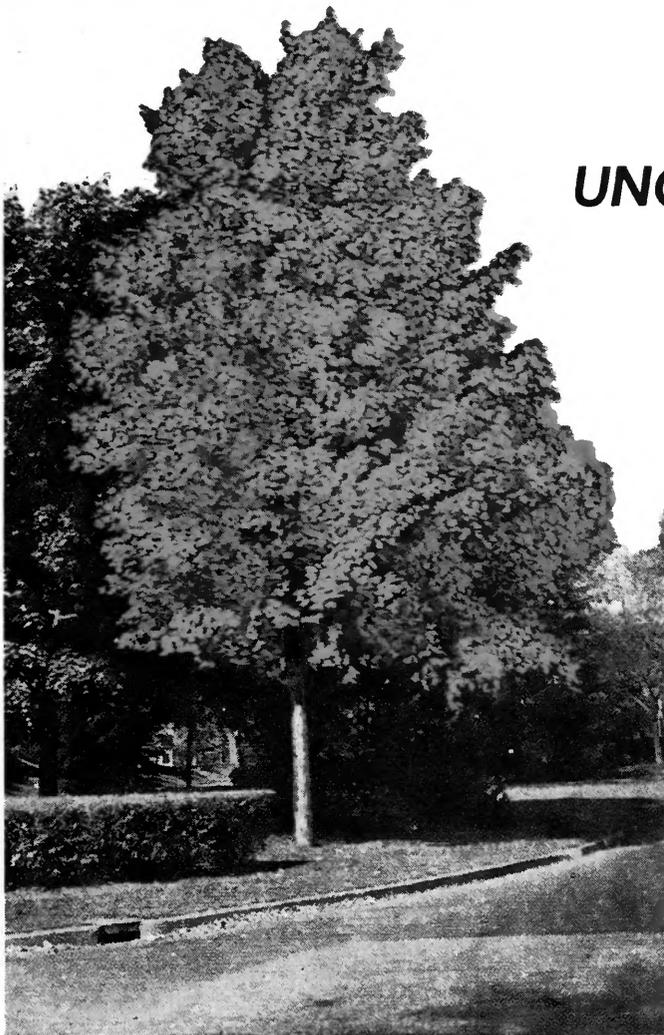
name _____ please print

address _____

zip _____

Make check/money order payable to Book of World Records.

© 1973



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?

SEPTEMBER, 1973

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.

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

P.O. Box 712-C

McMinnville, Tenn. 37110

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

- | | |
|---|---|
| <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

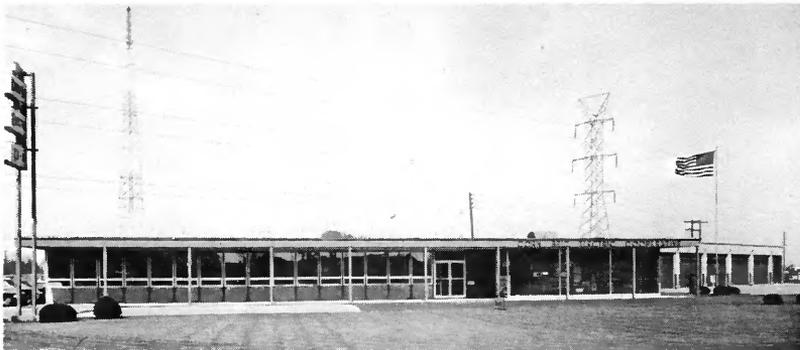
Name _____

Address _____

City _____ State _____ Zip _____

Corn Belt Electric News

Box 816
Bloomington, Illinois 61701
Phone: 309-662-5330



Don Allen Retires with 34-Year Record

August 21, 1973, ended an era of dedication to Corn Belt Electric Cooperative. Not only was it the 62nd birthday of Operating Superintendent Don Allen, but it was also the day Don retired after 34 years' employment.

Don started working for Corn Belt on May 4, 1939. After completing three years of military service from 1943-46, he returned to work as a journeyman-lineman in May, 1946.

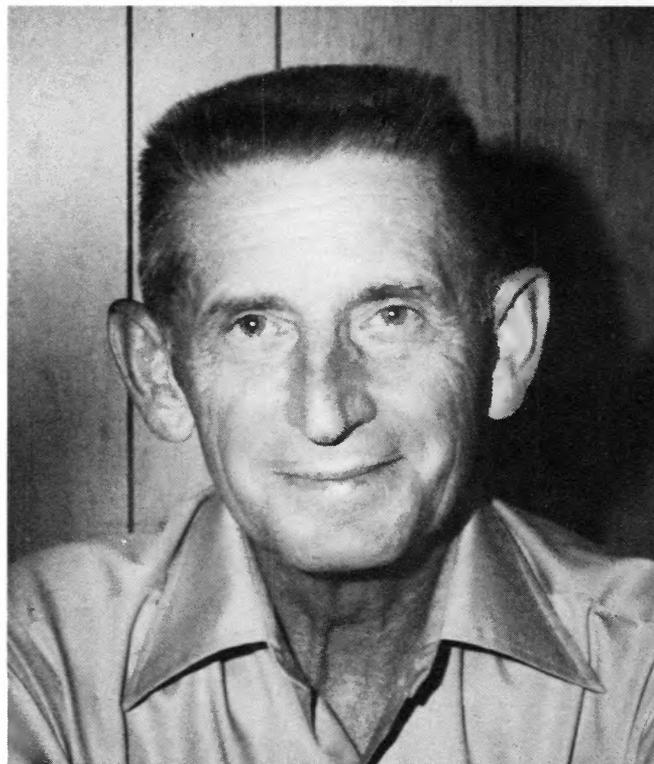
Shortly thereafter he was promoted to line superintendent and was responsible for the construction and maintenance of Corn Belt's distribution system which today includes over 8,000 services, 2,500 miles of line and 14 substations serving member-owners in 10 counties. 43C4.

Don's wife, Yvonne, has also spent many years helping her husband at home by answering the telephone and manning the radio communication system. Together they have spent countless hours, both late at night and early morning, coordinating the tedious task of restoring electric service following storms, accidents and other causes of power failure. Many times the phone would ring as they were walking out the door, thus cancelling their plans for the evening. 25A23-CF

Their dedication and loyalty to their chosen profession have resulted in service being restored to Corn Belt members at the earliest possible moment without regard to their own personal sacrifice. 54F15

Don and Yvonne were recently honored at a retirement dinner attended by over 100 employees and directors. 2B18

The directors and employees of Corn Belt Electric Cooperative know that you join us in wishing the Allens a long, happy and well-deserved retirement. 23C2



Don Allen, Operating Superintendent

The Allens plan to spend the summer months of retirement at their home on Eagle Lake near Vermilion Bay in Ontario, Canada, and the cold long winters in Florida. In between, they look forward to enjoying their lovely home and many friends in Bloomington. 28A10



Employees Are Promoted



Lee Thomas

Frank Stevens

Frank Stevens, general foreman for the past two years and an employee of Corn Belt Electric for the past 22 years, has been promoted to operating superintendent, replacing Don Allen who recently retired. 65C26

Lee Thomas, who has been employed since 1955, has been promoted to general foreman, replacing Stevens.

Rodger McKeon and Charles West, who have been employed 10 years and 13 years respectively, have been promoted to foremen in charge of construction crews. 40J23-AA

We're proud of these employees and their well-deserved promotions and wish them well in their new jobs. 3C24



Chuck West



Rodger McKeon

IMPORTANT MESSAGE!

It is of vital importance that you keep your up-to-date telephone number list to report outages, especially since Mr. Allen's retirement and the subsequent promotions which have taken place. This list with current employees to call is to be used to report outages after office hours and on weekends or holidays.

Every other month you'll receive a list of telephone numbers with your meter reading card. Throw away the old card and keep the new one each time.

A duplicate of the latest card appears below. Always attempt to call the two numbers appearing in bold print first. If they don't answer then try the others.

If you do not receive a meter reading card, please cut out the one printed below. All future number changes will be reprinted in the center section of this magazine.

When Your Service Is Interrupted

1. Check your own fuses or circuit breakers. If some of your lights work, the trouble may be yours.
2. If all the lights are off, call your neighbor. Report trouble promptly by calling collect when you think the fault is on the Co-op line. If your collect call is refused we already know of the trouble in your area.
3. Report to office anything unusual such as broken wire, tree on line, open fuse holder. Don't ever touch wire.
4. **WHEN REPORTING TROUBLE – GIVE LOCATION NUMBER THAT APPEARS ABOVE YOUR NAME.**

Bloomington Phones: Office Hours – 8 to 5, Mon. through Fri.

Call 662-5330

After Hours Call:

Frank Stevens, Oper. Supt. .829-2726	Rodger McKeon, Lineman .663-1986
Virgil Thomas, Gen. Foremn 828-0237	Lyle Hinshaw, Lineman .829-4473
Darrel Cobb, Lineman . . .828-2169	Donald Golden, Lineman . .663-2900
Art Armstrong, Lineman . .827-8381	Roger Dahl, Lineman828-8404
Stanley Kozlowski, Lineman 829-3767	Wm. Berg, Lineman829-8383
Bruce Hill, Lineman663-4504	Joe Crosno, Power Use Adv. 662-1253
Charles West, Lineman . . .662-3454	Clifford Williams, Line Eng. 663-2227
	G. V. Beer, Mgr.452-7145

Corn Belt Electric Cooperative, Inc.

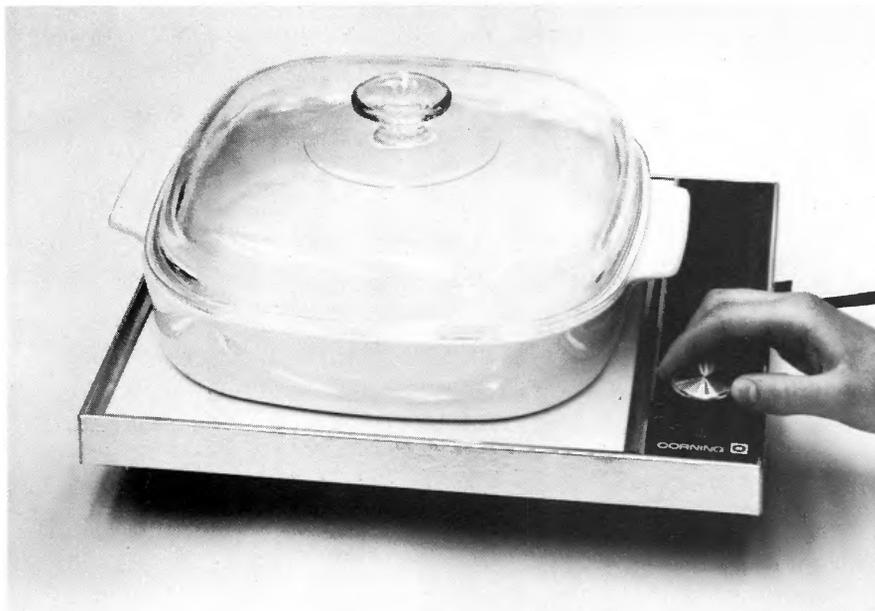
Box 816, Bloomington, Ill. 61701

Phone No. 622-5330

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.



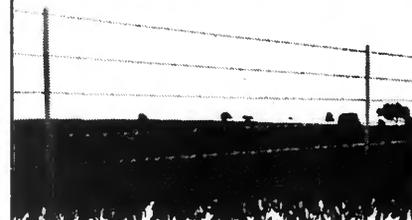
"... but to tell the truth, what I miss most is my electric tooth-brush."

If Ruptured TRY THIS OUT

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An "eye-opening" revelation in sensible and comfortable reducible rupture protection may be yours for the asking, without cost or obligation. Full details of the new and different Rice Support will be sent you Free. Here's a Support that has brought joy and comfort to thousands—by releasing them from Trusses that bind and cut. Designed to securely hold a rupture up and in where it belongs and yet give freedom of body and genuine comfort. For full information—write today! WILLIAM S. RICE, Inc., ADAMS, N. Y., 13605 DEPT. 9P

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Write or Call 405 424-2222
(TEPCO, INC.)

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P.O. Box 145, Oklahoma City, Okla. 73101

'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.

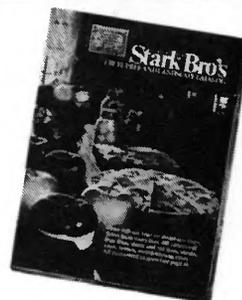
Train called for greater "confidence in the ability of the private citizen to influence the process of decision making, to bring about meaningful change within the framework of our institutions."



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.

Grow Full-Size Fruit on Stark Dwarf Trees



Most Exciting FULL-COLOR Catalog of World-Famous Stark Fruit and Shade Trees, Roses, Shrubs, Ornamentals, Vines in Our Over-150-Year History!

Discover amazing difference between Stark Exclusive Leader Varieties and ordinary nursery stock. Big new Catalog pictures and describes nearly 400 Varieties of DWARF, SEMI-DWARF and STANDARD Fruit Trees, Nut Trees, Vines, etc. Catalog sent FREE and postpaid, fill in and mail coupon below — TODAY!

Grow full-size apples, peaches, pears, nectarines and cherries on



STARK DWARF FRUIT TREES

Only 8 to 10 feet tall at maturity. A 9-tree orchard grows in a plot only 20 ft. sq.!

Imagine! If you have just a tiny "Postage-Stamp" of a yard, you can grow luscious Full-Size Apples, Peaches, Pears, Nectarines and Cherries on amazing Stark Dwarf Fruit Trees. Pick top-most fruit without a ladder. Riot of blossoms in Spring. Trees often bear at 2 years.

MAKE EXTRA MONEY
If you want extra money spare time, taking Stark orders, check coupon for money-making Outfit, FREE!

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PLEASE RUSH ME YOUR FREE CATALOG ON MILES BUILD IT YOURSELF HOMES



Name _____
Address _____
City, State, Zip _____

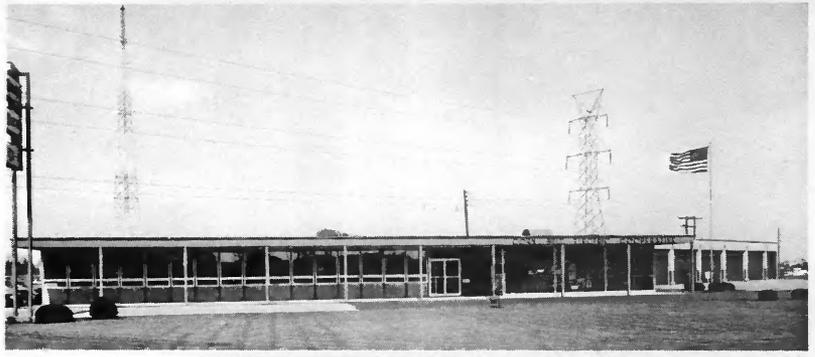
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WHY PAY RENT, BUILD A MILES HOME

Corn Belt Electric News

Box 816
Bloomington, Illinois 61701
Phone: 309-662-5330



Corn Belt Joins CFC

Members attending a special meeting on August 28 at the McLean County Farm Bureau Building in Bloomington authorized the board of directors of Corn Belt Electric Cooperative to join the National Rural Utilities Cooperative Finance Corporation (CFC). 46D11

CFC is a non-profit, cooperative organization created by its member rural electric systems whose purpose is to provide supplemental financing for its member rural electric systems to assist them in meeting their objectives in serving the areas in which they operate. In order to meet these objectives and to continue as locally-owned, member-controlled business enterprises, the nation's rural electric cooperatives will continue to have capital requirements in amounts larger than the annual Congressional appropriations for the REA loan program.

Therefore, CFC's primary purpose is to fill a portion of the capital gap that continues to exist between Congressional appropriations for REA loans and the actual total needs of the nation's rural electric systems, to the maximum extent possible. 22c6

CFC's long-term capital is derived from two principal sources: (1) Investments by member systems, and (2) Capital obtained in the private capital market through the issuance of long-term debt securities. 27A29

For 35 years, the rural electric systems depended entirely upon REA

for financing to meet their growth requirements. These systems serve about 70 per cent of the nation's geographic area, with facilities in 2,700 of the nation's 3,072 counties. 49C34

As the urban areas have become increasingly overcrowded, rural America has undergone a transformation that has had a significant effect upon the operations of every rural electric system. Housing subdivisions and shipping centers are springing up in areas which were once exclusively farmland. Industries and commercial enterprises are looking to the countryside for room to expand. The rural areas offer the only space available for an expanding economy. Today's rural electric cooperative member is more demanding, requires larger amounts of electricity, and insists upon a dependable supply of power at cooperative rates wherever and whenever he wants it. While meeting the needs of this new type of member, the rural electrics must also continue meeting the service requirements of its farm members. Electricity is an essential ingredient in the development of our rural areas. 15B36

This growth and development requires continuous upgrading of existing facilities and construction of new ones to accommodate the heavier loads and meet increasing demands. Extensive maintenance programs must be implemented to assure continuity of service. These developments are coming at a time when the rural electrics are facing increasingly higher costs in all phases of their operation. 67D6

The annual capital requirements of

the rural electrification program have already exceeded the \$1-billion level and are still growing. With demands being placed upon the Federal budget, rural electric systems cannot expect Congressional appropriations for REA loans to meet all their present and future capital needs. Supplemental financing must and will play an increasingly important role in rural electrification. 25A19

Seventy per cent of Corn Belt's total borrowed capital will come from REA at an interest rate of five per cent and the remaining 30 per cent from CFC at an interest rate of seven per cent. Nearly \$900,000 will be invested in scheduled system improvements and plant additions during 1973. 7D31



G. V. BEER
Manager



Above: Registration at special co-op member meeting.

Below: Corn Belt directors confer with Legal and Public Affairs Director, Albert J. C. center, prior to the meeting.



4-H Electricity Winners



Employees of Corn Belt are seen practicing pole-top rescue and resuscitation methods as a part of their continuing Job Training and Safety Program.

There were 50 4-H electricity projects on exhibit at the McLean County 4-H fair. There were 34 lamps of various design. The outstanding exhibit was a hanging lamp made from a wagon wheel. Mary Jane Builta of the Sabina Greenleaf 4-H club from Arrowsmith was the proud owner of the wheel lighting fixture.

Among other exhibits were pig brooders, portable motors, amplifiers, radios, insect repellers, and wiring boards. 37E24

The outstanding exhibitor award went to Randall Siebert of the Linden Leadem 4-H Club, Normal. Randall had three exhibits — a portable motor, a trouble lamp, and a table lamp.

The Livingston County fair had 20 4-H electricity projects and almost half of these were lamps of different kinds. The outstanding award was for a barber pole type lamp built by Dale Schmitt of the Esmen Tip Top 4-H club of Pontiac. 48F33



The outstanding exhibit award was presented to Mary Jane Builta by Tom Moore of the Illinois Power Co. Tom was one of the judges.



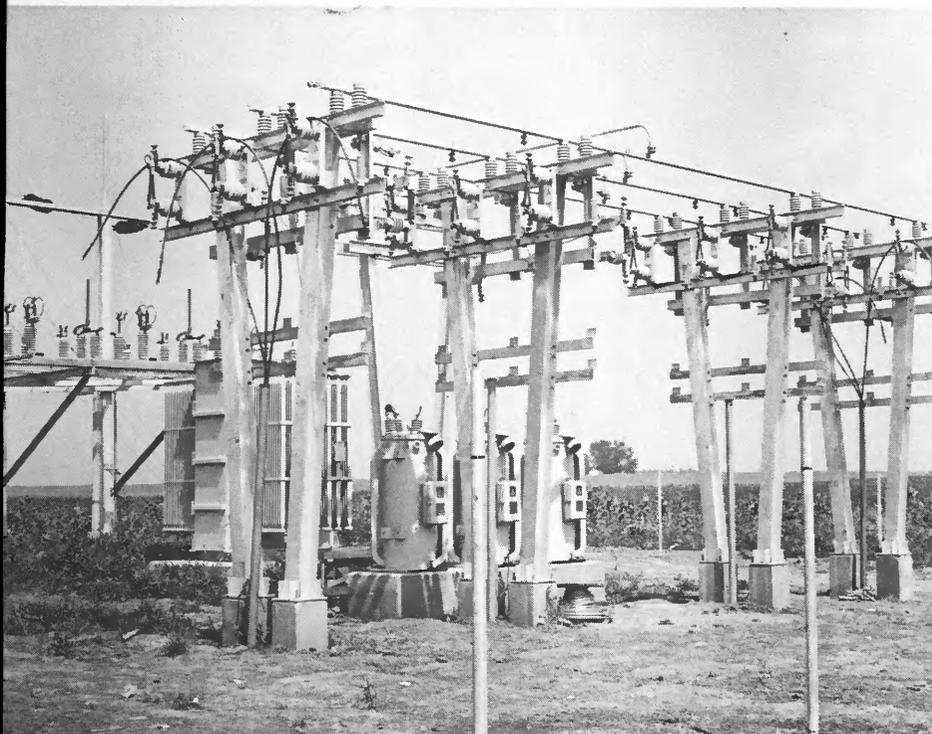
Randall Seibert of the Linden 4-H club of Normal is shown receiving the outstanding exhibitor award from Joe Crosno of the Corn Belt Electric Cooperative.



Mary Jane Builta of the Sabina Greenleaf 4-H club from Arrowsmith is shown with her award winning wagon wheel lamp.

Co-op Events

Pictured below is the new 5,000 KVA low-profile substation under construction west of Normal which will serve the new Unit District No. 5 Parkside Jr. High School and surrounding service area of Corn Belt. This station will cost approximately \$70,000 when completed.



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 over-eating. 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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Let us show you how to begin AT ONCE...full or spare time. Money report \$10 to \$50 PROFIT FIRST HOUR! Nothing to buy...no salesman will call. EVERYTHING NEEDED SENT FREE including BEAUTIFUL SAMPLE!

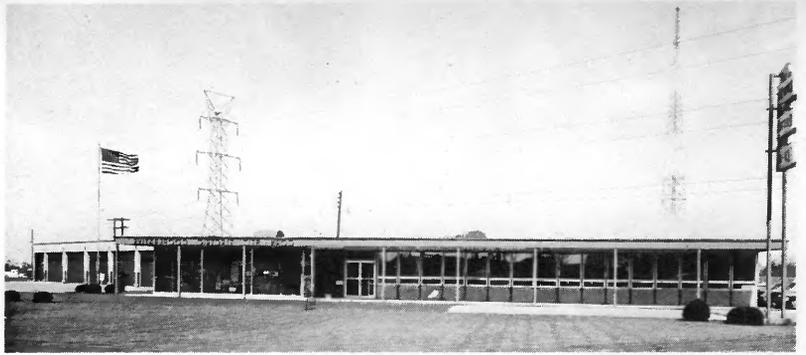
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Corn Belt Electric News

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Motor City Located at U.S. 66-150



Don Stone Ford Agency is located on the north side of U. S. 66 just east of U. S. 150.



ABOVE: Thornton Lincoln-Mercury is scheduled for occupancy late in 1973. The agency is located just north of U. S. 66 on the east side of U. S. 150. BELOW: Barker Oldsmobile Sales and Service is located on the south side of U. S. 66 and just east of U. S. 150.

Back in 1954 when the Corn Belt Electric Cooperative moved out of the downtown area to the southeast side of Bloomington it was a farming area with corn fields on all sides of the intersection of U. S. 66 and U. S. 150. The only business in the area was Streids Motel.

The L & L Motel was built soon after Streids and then a Shell filling station and a trailer camp, as they were called in those days, was built just east of the Shell station. 17G9

Soon after this, things started to build up and Bob Johnson built a restaurant and service station on the southwest corner of the intersection. The area continued to grow and the 5 Star Truck Stop was built along Rt. 66 just east of the intersection. There was talk of a commercial development in this area and the first automobile agency purchased land on the east side of Rt. 150 just south of U. S. 66.

Motor City started in August of 1964 when Johnny Martin moved the Chevrolet Sales and Service from downtown to the southeast side of Bloomington at the intersection of U. S. 150 and Belt Line U. S. 66. 48C33

The next move was Norvil Stahly and the G.M.C. Truck City. They moved in March 1966 to the same area just east of the Chevrolet complex. 34B20-O



Joe Crosno
Power Use Adviser

A few years later in 1972 the Barker Oldsmobile agency moved out and located in an area between Chevrolet and G.M.C. on the south side of U. S. 66.

It was later in 1972 that Don Stone Ford moved just across Rt. 66 from Oldsmobile and Chevrolet on the north side of U. S. 66.

In 1973 James Thornton started construction on a new building to house the Lincoln-Mercury agency just north of the Corn Belt Electric Cooperative office on U. S. Rt. 150. They plan to be open for business late in 1973.

The Volkswagen agency has plans for moving to an existing building in the same area some time this year.

In addition to the automobile agencies there are several other businesses and two farm machinery agencies in this area served by the Corn Belt Electric Cooperative.



Why the Power Goes Off

Do you wonder what could possibly cause the power to go off on a Sunday afternoon when there's not a cloud in the sky? So do we. 71Q18.

When we get a call the first thing a lineman does is try to re-energize the line and hope that it holds. If the line does not hold he must start looking for the trouble. We appreciate it if you call and report anything unusual when your power goes off. If you see a wire down, a limb on the primary line, a bright flash in the sky along the line, or a broken insulator or pole, please call us collect.

In an effort to improve our service, we keep an outage record which classifies and tabulates each outage as to cause, duration, and any other pertinent information. Some of the causes of outages are poles broken by a car, power supply switching, wire break, bad lightning arrester, bad insulator, and planned improvements if it happens on a work day.

When outages are planned and service will be off for more than 20 minutes, cards are sent out to the members in the area involved informing them of the time and date of the outage. 37L13.

We have experienced some lengthy outages this year. Many people have been out several times and we can understand why they are disturbed.

Look close enough and you can see the dead bird which caused a power outage when it touched the energized conductor above the insulating bushing.



NOVEMBER 1973

We feel that if people know what caused the outage they will understand that we are doing everything possible to prevent unnecessary outages. Most of the outages are beyond our control. 3C26.

One example was the outage which occurred on Sunday, September 2, at 12:43 p. m. northwest of Hopedale and lasted until 4:45 p. m. This outage was caused by a bulldozer pushing out some trees along the line. One of our guy wires at a corner was hit. The guy wire was attached to a major line pole and moved the pole, resulting in all of the line conductors being broken. This was in an area that already had been out of service several times for various reasons and members were justifiably disturbed.

Some days later in the same area another outage occurred due to some birds causing a short between insulator bushing and the transformer case. 35H34-AE

Then to add insult to injury, on September 14 in this same substation a transformer burned up and had to be replaced. This outage lasted from 10 p. m. until 3:30 a.m. the next day. These were very trying times.

If we have a storm with lightning and rain and the line goes out we usually find a bad insulator or lightning arrester. Insulators are

Stanley Kozlowski, lineman, holds a broken insulator which caused a power outage recently. If you see anyone shooting at insulators, notify the cooperative immediately.



When a car hit a pole on one of our three phase lines recently, it put the line out. The linemen used temporary insulating sticks to protect the line until service could be restored. A new pole was set the next day.

sometimes used for targets by boys with rifles. If they are just cracked and not broken completely off they will hold until it starts to rain. The rain causes the insulator to leak and they will short out the line and open the circuit breaker. By the time the lineman gets the call and gets to the circuit breaker the rain may have stopped and the insulator dried out so that it does not leak until it rains again. This is what happened on a recent outage but this time the insulator fell apart and we were able to find the trouble and replace the insulator. 25C26

We would appreciate it if you would warn your youngsters, and any others seen shooting at insulators, that this is an expensive target considering the expense of locating the trouble and the inconvenience it causes the people out of service.

We at Corn Belt Electric have always taken pride in the good service we have rendered and we pledge to continue to do everything in our power to continue to give good service in the future. 84A5

Please call us if you have a question or need assistance. You may call collect when your power is off.

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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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.

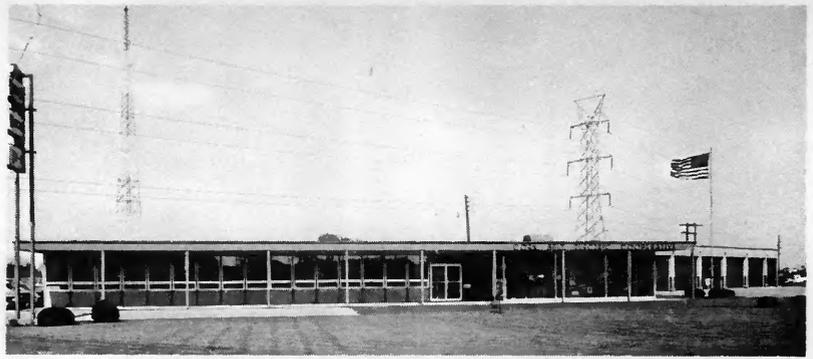
"We must have 20 riders to par-
(continued on page 14)

Corn Belt Electric News

Box 816

Bloomington, Illinois 61701

Phone: 309-662-5330



Season's Greetings from Corn Belt Electric Cooperative



EMPLOYEES

Richard Albert
D. W. Allen
Walter Armstrong
G. V. Beer
William R. Berg
Marcella Brienen
James Roark Buggar
Michael E. Butler
Howard Campbell
Keith Campbell
Robert Campbell
James L. Coan
Darrell D. Cobb
Delores J. Cook
Joe M. Crosno
Russell Lynn Curtis
Roger Dahl
Rolland Dahl
Gerald Durlinger

James W. Dustin
Elmer Edwards
Maurice D. Farthing
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Donald Dean Golden
Patrick Hall, Jr.
Bruce Hill
Lyle E. Hinshaw
Dorothy Hocker
Robert A. Hoobler
Vincent Ijams
Arvon Jacobssen, Jr.
Stanley Kozlowski
Charles D. Kyle
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Ronald D. McGuire
Rodger A. McKeon
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Dorothy Rengel

Frank Simpson
Willis Sommer
John W. H. Tompkins

Infrared Camera Detects Hot Spots

Corn Belt Electric Cooperative recently hired the services of the Davey Co. and its infrared detection vehicle as a part of an extensive preventative maintenance program.

The camera mounted on the roof of the vehicle measures and records the temperature differential between ambient temperature and that of a particular substation or pole-line component.

Extreme temperature differential indicates that a problem exists that will ultimately cause an interruption of electric service.

In four days, the unit "scanned" 293 miles of multiphase feeder lines and 13 substations. Forty-four faults were detected with the majority being found in substations.

One potential fault was found on a capacitor load break switch which indicated a temperature of 160 degrees Centigrade above ambient.

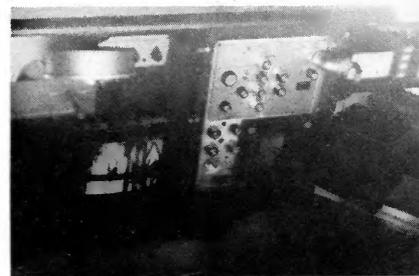
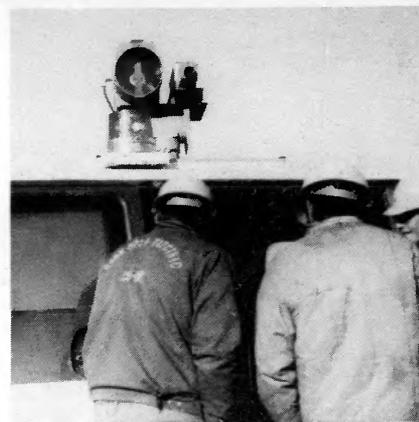


The camera mounted on the roof of this vehicle measures and records the temperature differential between ambient temperature and that of a particular substation or pole-line component through sophisticated electronic equipment as shown in the below-right picture.

We were pleased to discover our multiphase line and associated components in excellent condition.

One other item of interest was the number of transformer banks on large loads that indicated overloading.

Discovering these potential problem areas will enable us to replace the components before they cause an interruption in your electric service.



This is one of the ways in which we strive to achieve and maintain a high quality of electric service. We thought you would enjoy hearing about it.

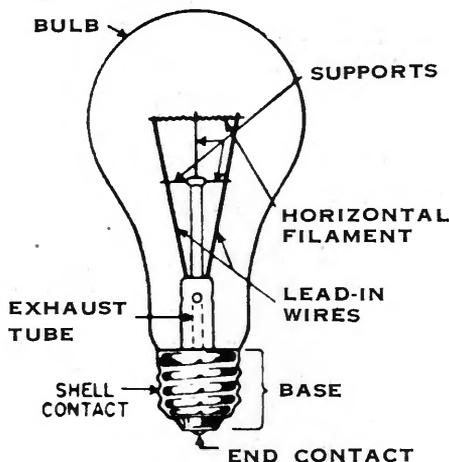
Things You Should Know About Lamp Bulbs

Without lamp bulbs our lives would be much different. Most of us actually know very little about them. Here is a brief description.

Every incandescent light bulb, properly called a lamp, consists of a tungsten filament enclosed in a glass bulb supported by a metal base that also furnishes an electrical connection. The differences between types of lamps are in the size, shape and arrangement of these parts.

The filament is the heart of the lamp. This tiny tungsten wire, often as small as .0012 of an inch, is heated white hot by electricity flowing through it. The hotter the filament, the more light it produces and the sooner it will burn out. Photoflood lamps, for instance, produce intense light, but burn only about six hours.

"Extended Service" and the so-called "long life" lamps have heavy filaments that produce less light, use more electricity and burn several times as long as ordinary bulbs. Ordinary bulbs are designed to produce an acceptable combination of efficiency and economy.



The bulb protects the filament from damage and keeps air from reaching it. The bulb is filled with an inert gas that slows the burning of the filament. Special coatings may be sprayed on the inside or outside of the bulb to diffuse the light or give special color effects. The stem is a glass rod in the center of the bulb that

holds the filament supports and the lead-in wires that carry electricity to the filament. The base is usually a metal cylinder with threads or prongs to fit a lamp holder that supports the lamp and brings electricity to it. The base is cemented or clamped to the bulb.

When buying lamp bulbs be sure to buy the ones rated at least 120 volt and preferably 125 volt. It's marked right on the bulb.

Shapes of bulbs are identified by letters followed by the maximum diameter in eighths of an inch. Thus a G-30 is a globe shaped lamp with a diameter of 30/8 inches or three and three-quarter inches.

The most common household bulbs are the "A" series made in 15-200 watt sizes. The familiar 25-100 watt sizes are designated A-19 because they are 19/8 or two and three eighths inches in diameter. Other abbreviations and their meanings are G (globe), T (tubular), PS (pear shaped), F (flame shaped), R (reflector) and PAR (parabolic aluminized reflector).

what's new?

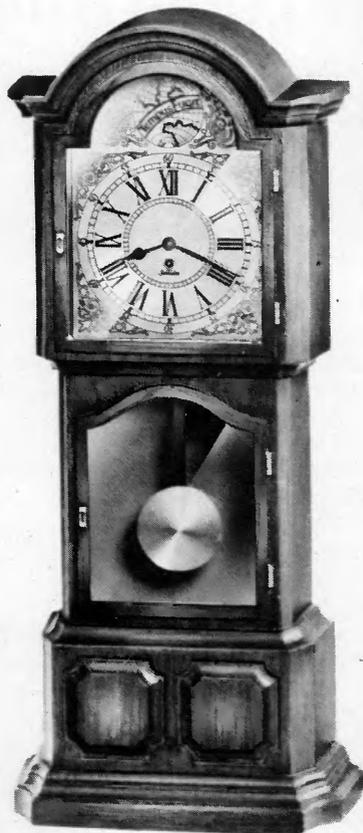


Disposal

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 Carbology 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."