

features, other things to give important consideration are:

Duct system — it must be properly designed and adequately sized, as heat pump performance is hampered, and some experts say mechanical problems are hastened, by inadequate duct systems particularly undersized air ducts.

Indoor thermostat — it should have two stages of heating, one of cooling.

Supplemental heat — automatic resistance-type heaters either in unit or in duct.

Heat switch — for manual activation of the resistance-type heaters, in case the compressor becomes inoperative; sometimes referred to as the emergency heat switch.

Outdoor thermostat — used to prevent the supplemental heat from switching on before needed, helping

to insure comfortable, efficient, economical operation.

Your cooperative's specialist can help you determine the size of unit needed. Don't make the mistake of thinking that big is best. Get the exact size needed.

Compare brands, price and value. Look for certification seals such as Underwriters' Laboratories and Air-Conditioning and Refrigeration Institute.

The EER, energy efficiency ratio, is a indication of the heat pump's

cooling efficiency. The COP, coefficient of performance, is an indication of its heating efficiency. The higher the EER and COP the greater the cooling and heating efficiency of the unit.

Shop for a reliable dealer. Ask about the total costs, remembering that the lowest bid may not be the best quality installation price. Check for parts and service availability. Be sure to compare service, warranty and service contracts as you do size and cost of the heat pump.

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It was the European trip I had always dreamed about. I had the time and money to go where I wanted—see what I wanted. But I soon learned that money and time don't mean much when your feet hurt too much to walk. After a few days of sightseeing my feet were killing me.

Oh, I tried to keep going. In Paris I limped through Notre Dame and along the Champs-Élysées. And I went up in the Eiffel Tower, although I can't honestly say I remember the view. My feet were so tired and sore my whole body ached. While everybody else was having a great time, I was in my hotel room. I didn't even feel like sitting in a sidewalk cafe.

The whole trip was like that until I got to Hamburg, Germany. There, by accident, I happened to hear about an exciting breakthrough for anyone who suffers from sore, aching feet and legs.

This wonderful invention was a custom-made foot support called Flexible Featherspring. When I got a pair and slipped them into my shoes my pain disappeared almost instantly. The flexible shock absorbing support they gave my feet was like cradling them on a cushion of air. I could walk, stand even run. The relief was truly a miracle.

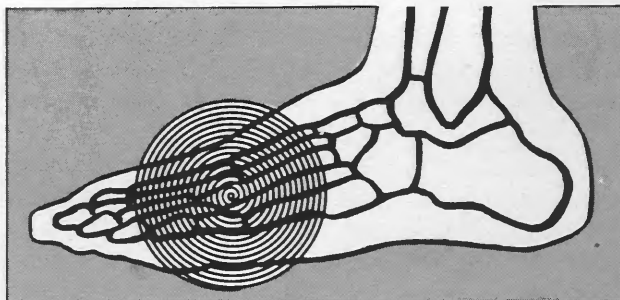
And just one pair was all I needed. I learned that women also can wear them—even with sandals and open backed shoes. They're completely invisible.

Imagine how dumbfounded I was to discover that these miraculous devices were sold only in Europe. Right then I determined that I would share the miracle I discovered in Germany with my own countrymen.

Over a quarter million Americans including those who have retired—many with foot problems far more severe than mine—have experienced this blessed relief for themselves.

Here's why Feathersprings work for them and why they can work for you. These supports are like nothing you've ever seen before. They are custom fitted and made for your feet alone! Unlike conventional devices, they actually imitate the youthful elastic support that Nature originally intended your feet to have.

Whatever your problem—corns, calluses, pain in the balls of your feet, burning nerve



ends, painful ankles, old injuries, backaches or just generally sore, aching feet, Flexible Feathersprings will bring you relief with every step you take or your money back.

Don't suffer pain and discomfort needlessly. If your feet hurt, the miracle of Germany can help you. Write for more detailed information. There is no obligation whatsoever. No salesman will call. Just fill out the coupon below and mail it today.

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Received my wife's Feathersprings two days ago. They are super—neither of us can believe the results. She has had terrible feet for years; already no pain. Incidentally, her sore knee is much better . . . As a retired physician, this result is amazing. Dr. C.O.C./Tucson, Arizona.

"My husband felt a great relief and no more pain. They are truly an answer to our prayers. Only wish that he had heard of them twenty years ago." Mrs. F. S./Metairie, Louisiana

"I have checked your corporation with (A Consumer Protection Agency), and received an excellent report." H.S.H./Louisville, Kentucky

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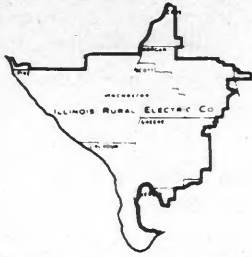
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High Line News

ILLINOIS RURAL ELECTRIC CO.

217-742-3128

WINCHESTER, ILLINOIS

Officers report

Several factors cause decline in electric use

Electric consumption by member-consumers of Illinois Rural Electric Co. followed a nationwide trend in 1979, showing only minimal kilowatt-hour use increase over the previous year.

Officials of the cooperative told those attending the organization's 42nd annual meeting July 18 at the Scott County 4-H Fairgrounds in Winchester that four factors were the primary reasons for this change in consumer use patterns: a cooler than average summer, dry harvest conditions, a mild winter and a combination of energy conservation and increased use of supplemental fuels.

President V. T. Parks, Milton, said those factors slowed IREC growth in 1979 to just over one percent compared to 1978. "We encourage you to use what energy you need, but use it wisely," Parks said. "Practice good energy management. Make sure your home is insulated to current specifications. Weatherstrip and caulk around doors and windows. Increase your wiring capacity so it will operate more efficiently. Try to operate major appliances during off-peak hours so as to cut down on system demands."

The long-term effect of decreasing growth, Manager Robert E. Gant said, will be higher electric costs for the cooperative. "The increased growth we have experienced over the years has helped offset the effect of inflation," Gant added. He said inflation is running about 14 percent on purchased goods such as line hardware, poles, wire, trucks and gasoline. With-

out the growth, the increased revenue needed to offset inflation will have to be generated from kilowatt-hour revenue, Gant added.

Gant repeated Parks' call for wise use of electric power and urged members to utilize the cooperative's Member Service Department. Included in services available, Gant said, are energy audits to help members improve weatherization of homes, upgrade wiring and maximize appliance and fireplace use.

During the business session, members reelected eight directors, including: Ralph J. Brangenberg, Kampsville; James T. Brannan, Eldred; John T. Early, White Hall; William Griswold, Rockbridge; Howard Hurrelbrink, Winchester; Ronald K. Myers, Griggsville; V. T. Parks, Milton, and J. M. Sapp, Pleasant Hill.

Parks recalled the challenges and hard work which faced the cooperative when it began in 1938 to set poles and string wire for the 675 member-owners it was to serve in four counties. He compared those problems with those of today and emphasized that the cooperative is working to ensure continued adequate supplies of electric power.

Parks reminded member-owners that IREC is one of seven electric distribution cooperatives which are members of Western Illinois Power Cooperative (WIPCO). Through WIPCO, IREC receives power generated at the Pearl Generating Station and power purchased from other utilities. WIPCO is a part owner of the nuclear Clinton

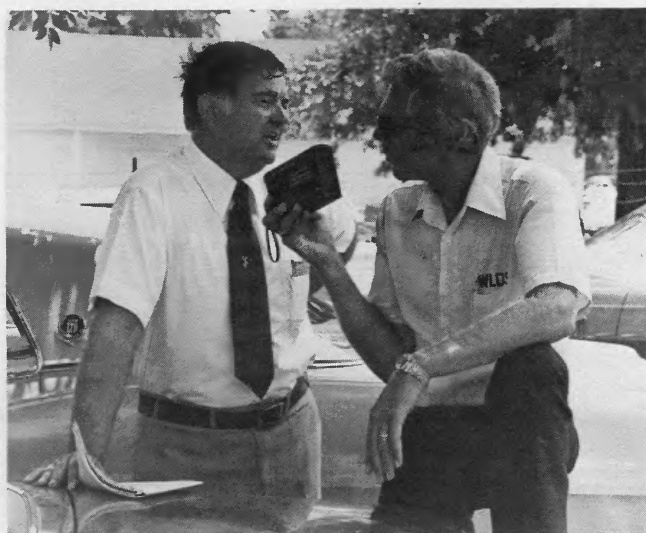
Power Station in DeWitt County and that plant is scheduled to go into commercial operation in late 1982. In addition, WIPCO is conducting studies on the feasibility of becoming a partner in a coal-fired generating plant that will be built by another cooperative federation, Soyland Power Cooperative.

"When these long-range plans are more complete, we will proceed with the best alternative for power supply," Parks added.

The cost of purchased power again was the greatest cooperative expense. Treasurer Howard Hurrelbrink, Winchester, said \$3,742,080 was spent to purchase power in 1979, about 63 percent of total revenue, which was \$6,440,401. During 1979, the cooperative paid \$428,325 in taxes and net margins for the period totaled \$568,906.

During the day's activities, members were treated to entertainment by singer Louise Mandrell and the Rudy Varju Family.

Top right: Eight members of your cooperative were reelected to the cooperative's board of directors during the meeting. In the front row, from left, are: William Griswold of Rockbridge, James Brannan of Eldred, Howard Hurrelbrink of Winchester, and J. M. Sapp of Pleasant Hill. In the back row, from left, are: V. T. Parks of Milton, John T. Early of White Hall, Ronald K. Myers of Griggsville, Ralph J. Brangenberg of Kampsville, and manager Robert E. Gant. Middle: Singer Louise Mandrell performed before the large turnout for the meeting. Bottom: Mike Perrine, right, of Jacksonville Radio Station WLDS, interviews Manager Gant.



ILLINOIS RURAL ELECTRIC CO.

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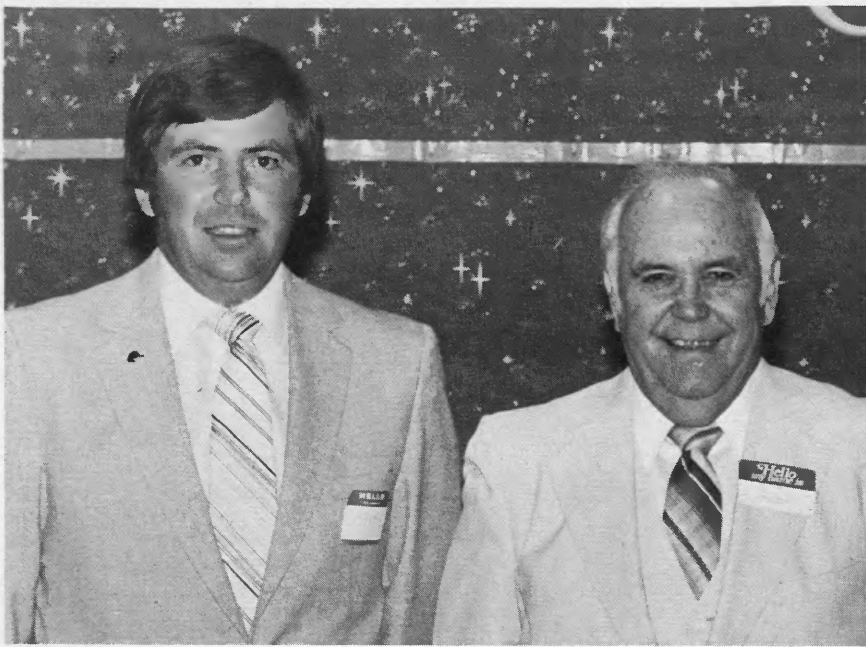
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Tim Reeves

R.T. Reeves

Board selects son as successor

Southern's Reeves retiring

RT. "Tom" Reeves, manager of Southern Illinois Electric Cooperative, Dongola, has announced plans to retire after almost 40 years of service to the cooperative. He will step down at the end of this year.

Floyd Dillow, Dongola, president of the cooperative's board of directors, said the board has selected Tim Reeves, 32-year-old son of the retiring manager, to succeed his father as manager of the electric distribution cooperative which serves approximately 9,000 member-owners in parts of six counties.

"Tim Reeves has been involved with the rural electrification program for most of his lifetime," Dillow said. "He has excellent qualifications for the job. Of course, I've known him all his life, and he came to us with good recommendations from Egyptian Electric Cooperative Association, where he's worked for the last six years. He's well qualified and I think he'll do a good job for our members."

Jim Holloway, manager of Steelville-based Egyptian, echoed Dillow's remarks. "I thought Tim had a lot of talent and good potential," Holloway said, "and I elevated him to staff assistant in 1976 and promoted him to assistant manager two years later. He'll be sorely missed here. He has the

background for the job, and he should make an excellent manager.

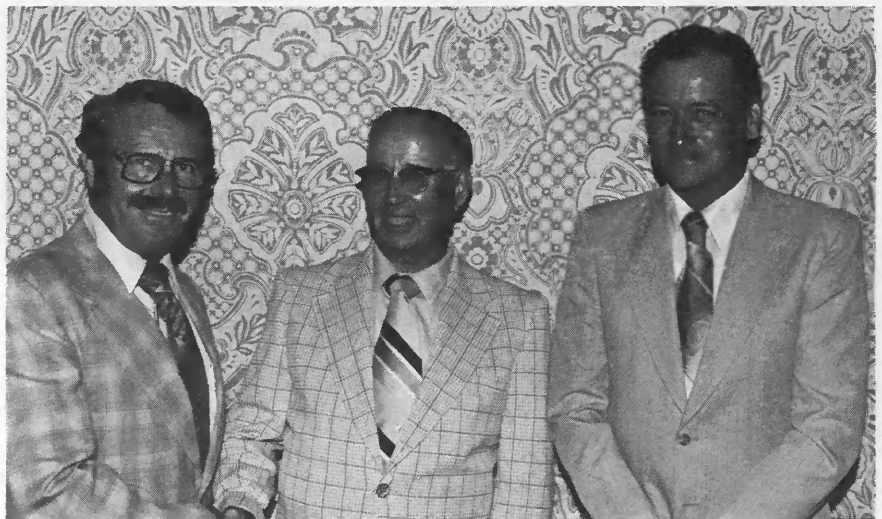
"The real beneficiaries of this succession are the members of Southern Illinois Electric Cooperative — they're getting an excellent manager," Holloway concluded.

Tom Reeves has worked at Southern for 38 years, with three years out for wartime service with the U. S. Navy. He began work as office manager, and became manager of the cooperative in 1954.

Dillow praised Tom Reeves for his management ability and leadership in helping the cooperative face challenges and solve problems over the years. "One of our big problems was power supply," Dillow said, "and we all had something to do with getting Southern Illinois Power Cooperative going and getting the plant at Marion built. Naturally, Tom was right in the middle of it all. He's had a fine relationship with the entire board and we've been very happy with him. He's done a fine job, I'd say."

Reeves and his wife, Eulita, plan to do some traveling after retirement, and perhaps to spend their winters in warmer climates, and Tom expects to get in some fishing and golfing.

The younger Reeves and his wife, Carol, have a two-year-old daughter, Cherie. He served three years in the U. S. Army, achieving the rank of First Lieutenant, and graduated from SIU-Carbondale in 1973. He worked for a household products firm for a year before joining Egyptian Electric Cooperative.



Glen Morton of Paloma, left, Adams Telephone Co-Operative director, has been elected president of the Illinois Telephone Cooperative Association. Also elected at the ITCA annual meeting at Springfield in July were Wilson Barclay of Macomb, center, McDonough Telephone Cooperative director, who was reelected secretary-treasurer, and Sheldon Orwig, of Smithfield, a director of Mid-Century Telephone Cooperative, elected vice president. Eldon Snowdon, manager of McDonough Telephone Cooperative, was elected chairman of the advisory council, and Jack Douglas, manager of Adams Telephone Co-Operative, was named vice chairman.

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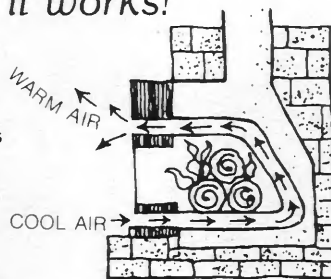
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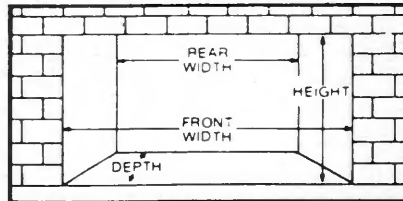
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Height _____ inches
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(From front of opening to back of fire box.)

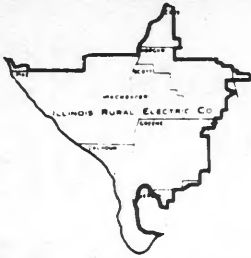


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High Line News

ILLINOIS RURAL ELECTRIC CO.

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WINCHESTER, ILLINOIS



Across the Manager's Desk

by Robert E. Gant

If you saw what you thought was an extraordinary number of line service personnel at several different locations on the Illinois Rural Electric Co. system Tuesday, June 10, you saw a special training school in session. That sunny Tuesday was the second day of a Rubber Gloving School, a training exercise sponsored by the Association of Illinois Electric Cooperatives' Job Training and Safety Department and hosted by your cooperative.

During the field exercises, line service personnel representing 11 Illinois electric cooperative worked on regularly schedule line maintenance projects of IREC to accomplish the work through the use of the rubber-gloving technique.

Rubber-gloving is one of two "hotline" procedures used to allow line service personnel to perform various maintenance and replacement jobs without shutting off electric power in the area. The other technique is called "hot-sticking." Your cooperative has used hot-sticking since 1953 and has used rubber-gloving for about the last seven years. Both techniques are used by IREC crews, depending on the type of work to be performed.

Four work locations on the IREC system were used in the school:

East of Winchester on the Woodson Blacktop, replacement of damaged crossarm on three-phase feeder line;
North of Greenfield on U.S. 67, pole change-out

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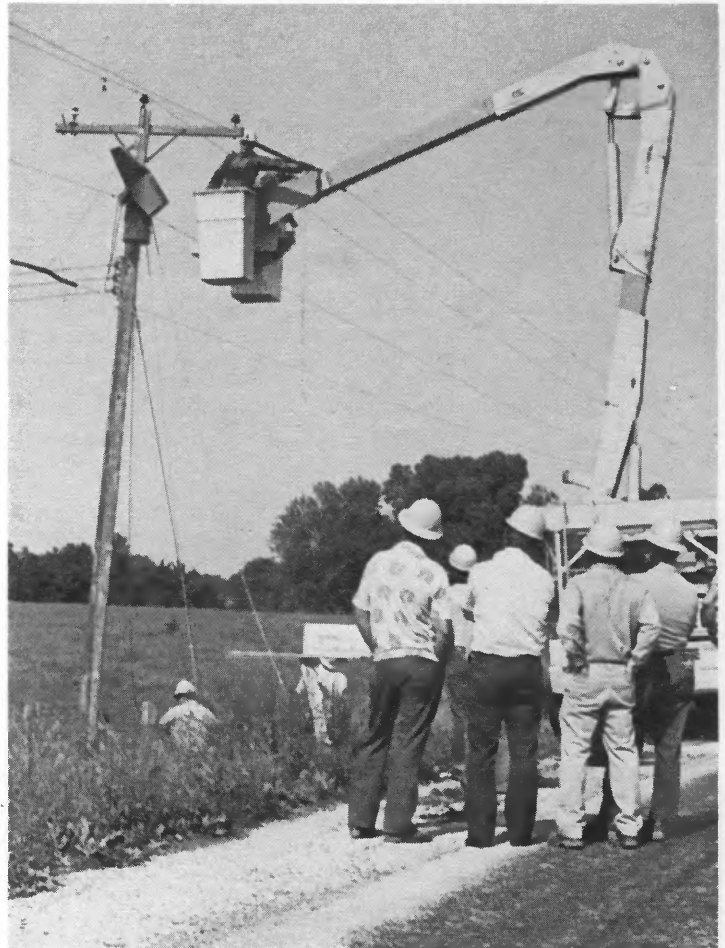
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Line service personnel prepare to replace electric lines moved to allow replacement of the crossarm on this pole near Winchester. Note the rubber sleeves on the wires and the rubber blanket hood over the transformer near the top of the pole.

on three-phase line;

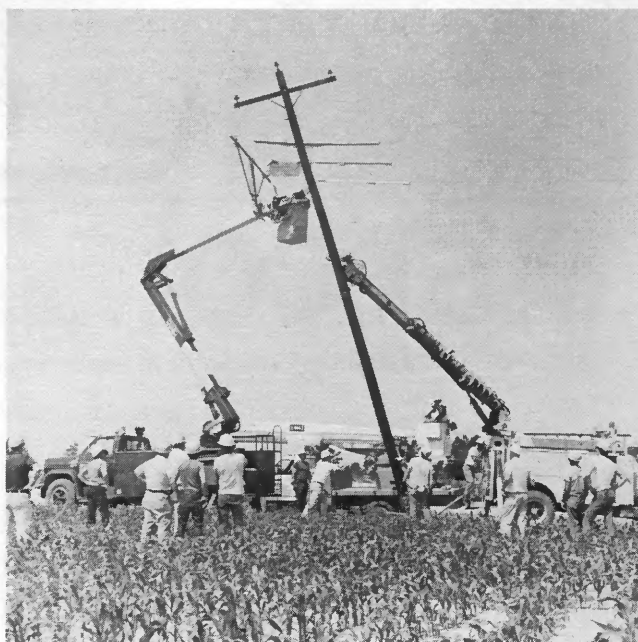
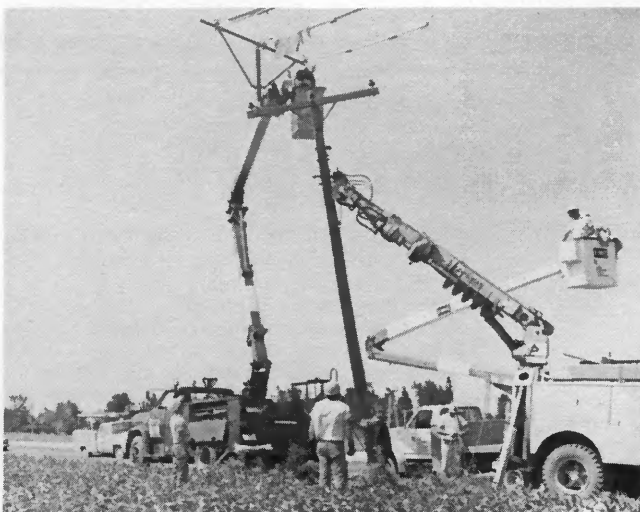
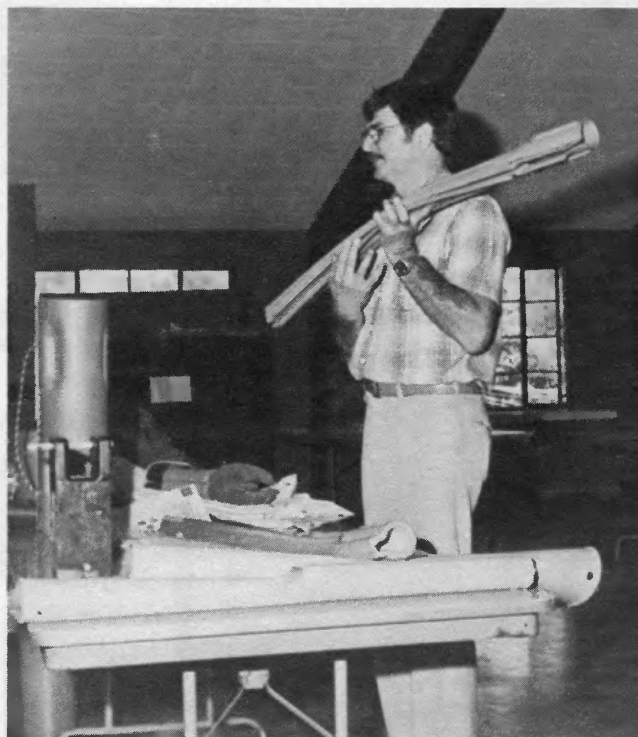
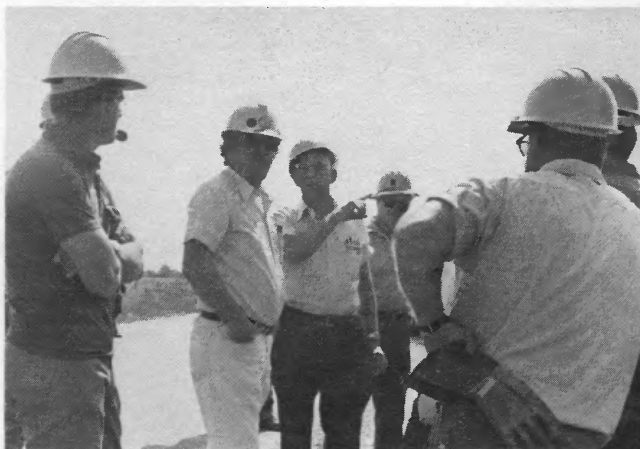
Immediately south of Nortonville, pole changeout on three-phase line, and

South and west of Nortonville, pole replacement at an angle (turn) in three-phase line.

These four were planned projects scheduled for your cooperative's personnel. Using equipment and service personnel from IREC and the participating cooperatives, your cooperative was able to complete its required maintenance to assure continued reliable electric service, and the personnel from the other cooperatives had the chance to become involved in the process.

If electric power had been shut off at any of the sites, several hundred of our members would have been without electric service for quite some time. Use of the

Below: John Ball of the AIEC (light clothing) and Basil Taylor, IREC Line Superintendent (gesturing) conduct a "tailgate" session prior to starting rubber-gloving work. Right: A representative of a supply company holds a special rubber sleeve used in hotline work. Below, left: While a special boom-mounted frame holds three-phase line high, another truck-mounted boom lifts a damaged pole from the ground and, below right, the new pole is put into place.



hotline methods left most members unaware that work was under way and they were not inconvenienced.

Because of the danger involved in working with 7,200 volts, hotline work requires the utmost in safety training. It is the safety aspect that was the heart of the two-day school.

On Monday, June 9, the nearly 50 persons attending the school spent the afternoon in a classroom environment, watching demonstrations of the special heavy rubber gloves, rubber insulation for crossarms and transformers and the special rubber sleeves used to cover the electric lines while the work is in progress. They also viewed slides showing proper procedure for rubber glove line work.

Work performed during the training session was for replacement of poles and crossarms damaged by lightning

or the 1978 ice storm. Often such damage is not readily noticeable, especially that which occurred during the ice storm, but can become a serious matter as time passes.

Your cooperative has been among the leaders in hotline work. We believe that proper training and attention to safety makes this technique highly desirable as we seek to provide this area's farms, homes and commercial establishments with reliable electric power and we were pleased to host this important school.

Although it is not a regularly scheduled school, it is possible that IREC may again host a large number of cooperative personnel and equipment for this important training. Then, if you notice a number of trucks and men assembled at a work site, you are probably passing another training school for line personnel.

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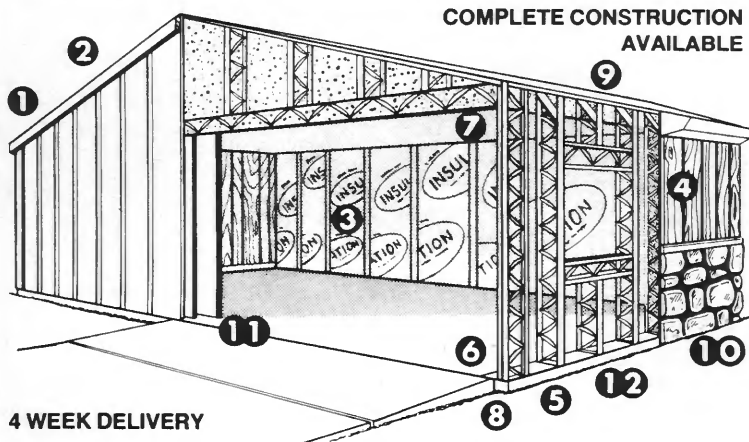
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Doing their homework was part of the agenda for those attending the regular quarterly meeting of the Illinois Electric Cooperative Managers' Association. In this photo, C. E. Ferguson, manager of Coles-Moultrie Electric Cooperative, and Walt Smith, manager of Illini Electric Cooperative, take notes during a presentation.

is scheduled to receive \$123-million this winter.

Problems with the program last year centered around delays in payment to utilities by the administering agencies, Wayne E. Curtis, manager of the State of Illinois ECAP program, told the managers.

He promised that such delays would be minimized this year.

A highlight of the meeting was a program comparing the CBS broadcast of Harry Reasoner's "60 Minutes" report on the nuclear Clinton Power Station with the actual footage shot at the site and in the offices of the Illinois Power Company (IP).

Illinois Power had videotaped Reasoner's interviews and combined clips of their tapes with those from the November 25 broadcast, indicating that "60 Minutes" had edited out, presented incorrectly, or ignored salient facts about the witnesses' testimony about the plant's construction.



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4500 Lyndale Ave. N., Minneapolis, MN 55412

Name _____

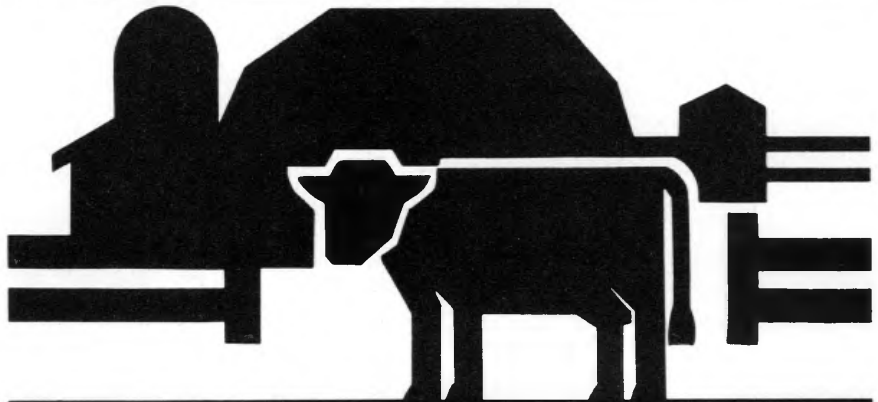
Address _____

City _____ State _____ Zip _____

County _____

Phone() _____

I plan to do all or part of the work
 \$1.00 enclosed for priority handling **E004**



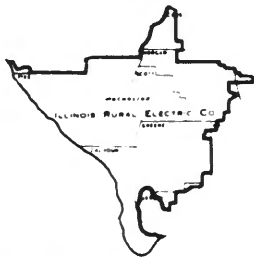
farm & ranch INSURANCE

Our insurance can help prevent financial disaster or crippling losses.

Cover your home and personal property, farm buildings, farm and personal legal liability, plus many other special coverages and options available.

**fu National
Farmers Union
Property and Casualty Company**

SEE YOUR LOCAL FARMERS UNION AGENT OR CONTACT ONE OF OUR DISTRICT OFFICES: SPRINGFIELD (217)528-8418, MT. VERNON (618)242-6498.



High Line News

ILLINOIS RURAL ELECTRIC CO.

217-742-3128

WINCHESTER, ILLINOIS



Across the Manager's Desk

by Robert E. Gant

STUDENTS!

Win a Free Trip to Washington, D.C.

(Sponsored by Illinois Rural Electric Co.)

Who May Enter

Any high school sophomore, junior or senior living within Illinois Rural Electric Co.'s serving area, as shown on the map. Contestants must be served by Illinois Rural Electric Co. Members of immediate family of any board member or employee of a rural electric cooperative are not eligible.

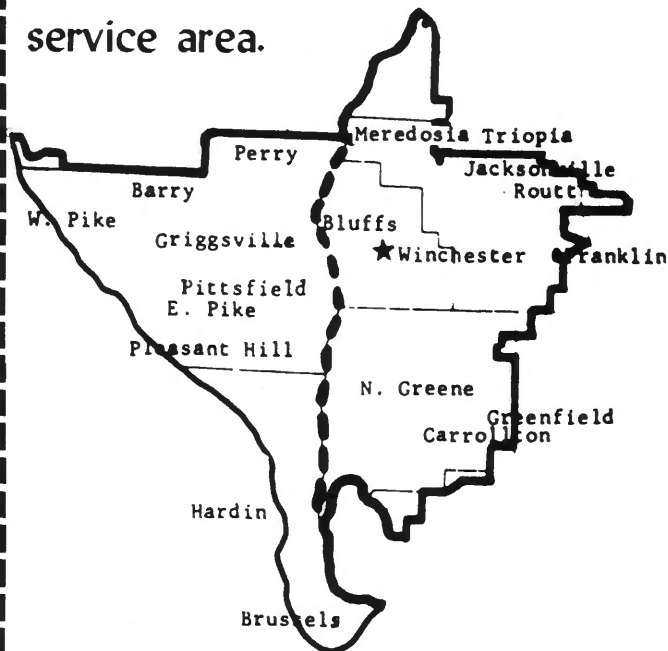
Rules Of The Contest

Each student will be required to write an essay (in their own words) on "The Role of my Electric Cooperative in Meeting the Energy Crisis" and submit it to Illinois Rural Electric Co., 2-12 South Main Street, Winchester, Illinois 62694, on or before March 14. Essays are to be typewritten on 8½ by 11 inch paper, one side only, double spaced and not exceed 1,000 words. Resource material will be mailed to you upon receipt of entry coupon or may be picked up at Illinois Rural Electric Co.'s Member Service Department in Winchester.

Semifinalists Win a Day In Springfield

Nine semifinalists from each side of the Illinois River will be awarded an all-expense-paid day in Springfield, Illinois for a tour of the State Capitol, visit our State Senate and House of Representatives in session and enjoy a dinner with Senators and Representatives and other elected officials. Transportation, chaperones and all arrangements of the day are to be taken care of by Illinois Rural Electric Co. Transportation will be provided from Illinois Rural Electric Co.'s office in Winchester. A date and time for this trip will be selected in the near future.

The map below shows the schools in Illinois Rural Electric Co.'s service area.



Clip and Mail to:
 Illinois Rural Electric Co.
 2-12 South Main
 Winchester, Illinois 62694 Date _____

I wish to enter the "Youth to Washington" essay contest.

(Name of Applicant) _____ Age _____

(Name of Parents) _____

(Mailing Address) _____

(Phone Number) _____ Sophomore Junior

(High School) _____ (Class/Year) _____

1980 4-H Electric Schools ATTENTION 4-H Members!

Illinois Rural Electric Co.'s Employees

...will be working with County Extension Service personnel at a 4-H Electrical School to be held at:

Greene County, Saturday, February 2, at the extension office.

Morgan County, Saturday, February 9, at the extension office.

Pike County, Saturday, February 16, at the extension office.

Scott County, Saturday, February 23, at the American Legion Home.

Calhoun County, Saturday, March 1, at the extension office.

The 4-H Electric Schools will begin with registration at 9:00-9:30 a.m.

The 4-H boys and girls, ages eight through 19, will be doing actual wiring to be covered in the following classes:

BEGINNERS

Wiring test lights, extension cords, replacing cord ends, etc.

INTERMEDIATE

Wiring single-pole switches, lights, three-way switches and duplex receptacles.

ADVANCED

Wiring outlets for a scale-model farrowing house, three- and four-way switches, lights, motors and controls, electric heat panel and complete breaker panel and service.

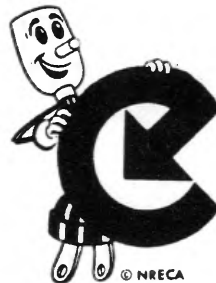
The above three classes will include safety demonstrations, the latest fault interrupter equipment and proper insulation for the home.

***School will be dismissed at
approximately 3 P. M.**

**A free lunch will be served
compliments of**

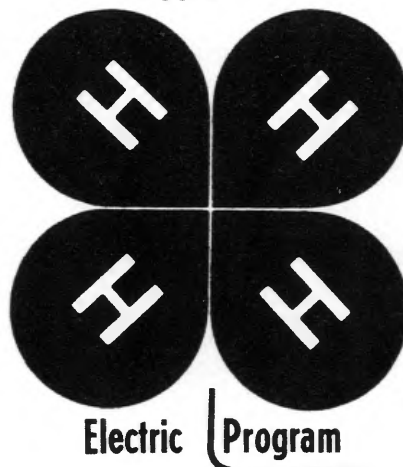
**Illinois Rural
Electric Co.
Winchester, Illinois**

A WILLIE CONSERVE -A-TIP



Over half the heat that escapes from a house in the winter is lost through windows, cracks and open doors. Take a tip...use weatherstripping and caulk those cracks—and keep doors closed.

We Support the 4-H



ILLINOIS RURAL ELECTRIC CO.

Mailing Address:

2-12 South Main
Winchester, Illinois 62694
Ph: (217) 742-3128

Main Office Hours:

7:30 A.M. to 4:30 P.M.
Closed all day Saturday, Sunday and
Holidays.

Holidays Observed—

New Year's Day, Good Friday, Memorial
Day, July Fourth, Labor Day, Veteran's
Day, Thanksgiving and Christmas.



Proper Insulation Saves Money



Time is running out on tomorrow's electricity!

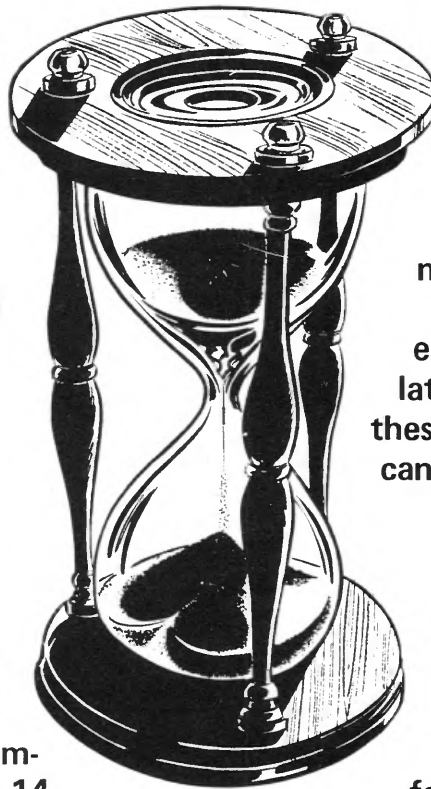
It's too bad we can't stockpile electric energy for the lean years. It must be produced as needed to meet demand.

Despite energy conservation, demand will increase over the next 20 years because of population growth and reliance on electricity to replace gas and oil. Conservative government and industry forecasts show the need to build 500 new generating plants to meet that demand.

So what's the problem?

A coal-fired power plant started this year could take 10 years to complete and a nuclear plant, 14 years. It takes from five to seven

years just for the paperwork on the average coal-fired plant . . . years that cost the consumer dearly.



Each day of construction delay in the regulatory jungle adds as much as \$300,000 to the cost of a coal-fired plant. Regulators themselves now admit that about 40 percent of the average electric bill goes for regulation. Illinois can't afford these delays, and consumers can't afford to pay the cost of unneeded delay.

We need reasonable, orderly regulation that serves the public interest. We need regulatory reform before time runs out on our electric energy supplies.



Electric Cooperatives of Illinois

Energy: today and tomorrow

Selection and location...

(continued from page 13)

more modern fixture design and better controls on the market today, we will be seeing more and more use of fluorescent fixtures in new as well as in existing homes.

For outside uses, such as yard

lighting, confinement buildings, machine shops and other outbuildings, perhaps some of the other more efficient multivapor or high pressure sodium lamps could be a viable alternative. These lamps should certainly be given consideration when changes or additions are to be made in the future. Many lighting applications outside the home could involve using these high efficiency long-life lamps,

with an end result being more light for less dollars.

These suggestions and others could be discussed with the lighting retailers in your area as well as with your cooperative's power use advisor.

Better utilization and conservation need not mean a reduction in quality and quantity of light. In many cases, a better, more efficient application will be the new result.

100th ANNIVERSARY SPECIAL

25 GLADS \$1
Postpaid



Kelly's Centennial collection of top-quality 1''-1 1/4'' dia. gladiolus. Guaranteed to bloom this year. Dazzling array of vivid colors. Planting instructions included. Due to limited quantity, one offer to a customer. Send today.

KELLY BROS. NURSERIES, INC.
919 Maple St., Dansville, NY 14437

Enclosed is \$ _____ Send at planting time _____ Glads.
 Send FREE Kelly Centennial Nursery Catalog.

PLEASE PRINT
Name _____
Address _____
ZIP _____
(Sorry, None to AZ, CA, OR, WA)

DID YOU KNOW?

That old stock tank, water reservoirs, etc., coated with Virden Tank Coat, are better than new ones! Fix it and forget it! Let us send you complete information. This is our 29th year. **VIRDEN PERMA-BILT CO.**, 2821 Mays St., P. O. Box 7160IN, Phone: 806/352-2761, Amarillo, TX 79109

Inter-State Nurseries delivers Hamburg, Iowa 51640

20 Giant Ruffled Glads \$1.00

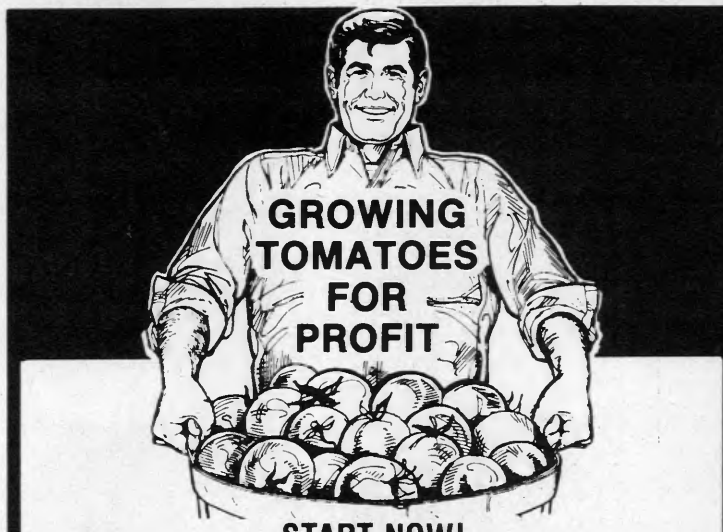
Postpaid & Guaranteed
Double your money back if not completely satisfied.

New and superior varieties...if bought by name they would cost \$2.40. Colors range from white to purple, pink, rose, yellow, lavender, orange. This year we added **Red Beauty**, one of the brightest glads known. Big bulbs, 1 to 1 1/4 inches across. Glads will bloom for you this summer.

Free Spring Catalog

INTER-STATE NURSERIES
3020 E. Street, Hamburg, Iowa 51640
 Free Spring Catalog 20 Glads \$1.00

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
Glads will be shipped at proper planting time



START NOW!
THE GREENHOUSE "HYGRO-FLO" WAY IS SPREADING EVERYWHERE. SUPPLY SUPERMARKETS & RESTAURANTS YEAR 'ROUND.

THE PROVEN HYGRO-FLO™ TUBE GROWING SYSTEM AND GREENHOUSE MAKES GROWING FOR PROFIT A REALITY!

- If you have:
- The ability to manage your own business
 - 15-20 hours per week to run greenhouse
 - The ability to follow detailed instructions
 - 1/4 acre of land or more
 - The ability to invest \$10-12,000.

Then, let us show you a system in full production. Our 30' x 124' greenhouse and the HYGRO-FLO™ tube system of growing produces \$15-20,000 worth of tomatoes each year. To increase your success potential, the company provides free schooling and continued technical help with fully trained personnel and marketing assistance.

Hygroponics North of Hygroponics, Inc. soon to be constructed 20 miles west of St. Louis Airport near I-70 and U.S. 40-61.

PLEASE SEND ME FREE INFORMATION

NAME _____

ADDRESS _____

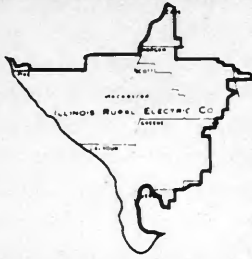
CITY _____

STATE _____ ZIP _____ PHONE _____

SEND THIS COUPON TO:

HYGROPONICS INCORPORATED
DEPT. 18
3935 N. PALO ALTO AVENUE
PANAMA CITY, FLA. 32405

(904) 265-3661



High Line News

ILLINOIS RURAL ELECTRIC CO.

217-742-3128

WINCHESTER, ILLINOIS



Across the Manager's Desk

by Robert E. Gant

EER ↔ **MPG**



Are you shopping for an air conditioner? Be sure to check the EER on the nameplate. EER stands for "Energy Efficiency Ratio" and is a measure of the amount of cooling you get for your dollars.

For years we have been conscious of the MPG (miles per gallon) of our cars. Now, it is time to be conscious of the EER of our cooling equipment (air conditioners, refrigerators and freezers). In both cases, the higher the number the better.

In our opinion an EER of less than 6.5 is not recommended, between 6.5 to 8.0 is fair and from 8.0 to 9.5 is good. Above 9.5 is excellent.



Many weatherization, conservation expenses qualify for IRS credit

Homeowners who added insulation or storm windows in 1979 may be eligible for a \$300 tax credit when filing federal income tax returns this year. The credit also would be available for storm doors, improved furnace burners, electric ignitions that replace gas pilot lights, automatic energy-saving set-back thermostats, caulking and weather-stripping. Other items may soon be added to this list (at the discretion of the IRS).

The tax credit of \$300 is now the maximum that can be deducted from taxes due under the residential energy conservation provision of the National Energy Act which became law in November 1978. (A 15 percent credit is available for the first \$2,000 spent on energy-saving devices for the home.)

Homeowners should not rush into unwise investments simply to take advantage of the tax credit. Care should be taken to purchase only those products and services which will assure you a return on your investment through savings on your utility and fuel bills.

Save your receipts. Future home energy conservation investments also are eligible for credit through December 31, 1985.

Tax laws change from year to year and it would be a good idea to check with the IRS to determine the eligibility of any energy conservation work you do.

ILLINOIS RURAL ELECTRIC CO.

Mailing Address:

2-12 South Main
Winchester, Illinois 62694
Ph: (217) 742-3128

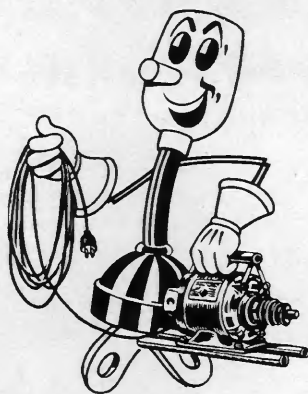
Main Office Hours:

7:30 A.M. to 4:30 P.M.
Closed all day Saturday, Sunday and
Holidays.

Holidays Observed—

New Year's Day, Good Friday, Memorial
Day, July Fourth, Labor Day, Veteran's
Day, Thanksgiving and Christmas.

Do not neglect your electric motor



© NRECA

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

- Dust
- Stray Oil
- Moisture
- Friction
- Misalignment
- Vibration
- Overload

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

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

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

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

After blowing the dirt from a motor, it is wise to check the bearings on each end of the shaft. If they are of

the sealed ball-bearing type, they may need to be replaced. This is especially true of the pulley end of the shaft.

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

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

Wind power is free but...

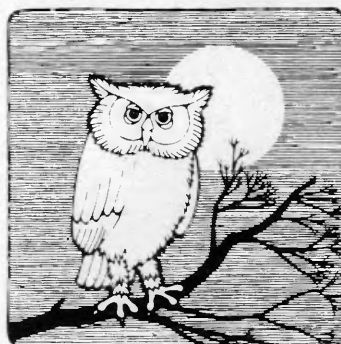
Yes—wind is free. However, you cannot use it for nothing, according to Extension Agriculture Engineer Tom Carpenter of Ohio State University.

A small electric motor can pump the water a typical windmill can for about \$25 to \$40 a year in electrical costs. Compared to constructing a windmill that is not very much.

With a relatively large wind generator, 5-KW model with 15- to 20-foot propeller, you could expect to generate about \$150 worth of electricity in a year's time, provided to live in a location that would supply you with a reliable wind source.

Carpenter stated that this unit would probably require an investment of \$7,500 or more and would provide only about a two percent annual return on investment. This would not take into consideration maintenance cost of the wind generator, which would likely be more than the energy cost saved.

It's Wise to Use Electricity



But Use It Wisely

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

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

waste any." In this way you will be helping to conserve fuel and at the same time reduce your monthly electric bill.

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

Natural Look



AIRLITE
CAPLESS DESIGN

CAPLESS Stretch WIGS

Any
Style

Feels as light and cool as your own hair.

\$7.95
Values
up to
\$20

"PERMANENTLY SET" • READY TO WEAR STYLES • NEVER NEED SETTING

- Choice of 17 attractive colors or custom matched to your own hair
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- Made of miracle modacrylic fiber—has the luster, rich body and bounce of human hair—behaves better than real hair
- No costly settings at the beauty parlor
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- Looks and feels like real hair—you'll mistake it for your own

Any 2 for only
\$13.90
SAVE \$2.00



Style C-174



Style C-702



Style C-518



Style C-927



Style C-727



Style C545



Style C-925



Style C-944



Style C-740



Style C-903



Style C-124



Style C526



Style C-946



Style C-724

FREE 10 DAY TRIAL COUPON!

FRANKLIN FASHIONS CORP., Dept. W-306
103 East Hawthorne Ave., Valley Stream, N.Y. 11580

Rush my "Natural Look Capless Wig" style(s) I must be absolutely satisfied or I can return my order within 10 days and my money will be refunded.

Check Box of Style Number Desired

- C-702 C-927
 C-518 C-724
 C-727 C-545
 C-124 C-925
 C-946 C-903
 C-944 C-526
 C-174 C-740

Check Box of Color Desired (or Send a sample of Your Hair for Expert Matching)

- | | | |
|--|--|---|
| <input type="checkbox"/> Black | <input type="checkbox"/> Dark Blonde | <input type="checkbox"/> Dark Frosted |
| <input type="checkbox"/> Off Black | <input type="checkbox"/> Ash Blonde | <input type="checkbox"/> Mixed Black & Grey |
| <input type="checkbox"/> Light Brown | <input type="checkbox"/> Platinum | <input type="checkbox"/> Mixed Brown & Grey |
| <input type="checkbox"/> Medium Brown | <input type="checkbox"/> Light Auburn | |
| <input type="checkbox"/> Dark Brown | <input type="checkbox"/> Medium Auburn | |
| <input type="checkbox"/> Light Blonde | <input type="checkbox"/> Dark Auburn | |
| <input type="checkbox"/> Medium Blonde | <input type="checkbox"/> Light Frosted | |

Name _____

Address _____

City _____ State _____ Zip _____

- PREPAID: I enclose \$7.95 for one wig plus \$1.50 for shipping & handling.
 C.O.D.: I enclose \$2 deposit and will pay postman balance plus pstg. & handling
 PREPAID: SAVE \$2.00. I enclose \$13.90 plus \$3 for shipping & handling for any 2 wigs

N. Y. State residents add sales tax.

Obituary

**John F. Temple,
former IREN editor**

John F. Temple, editor of the *Illinois Rural Electric News* from 1961 until 1973, died August 9 in Springfield, following a long illness. Temple, who was 72, was one of the most widely known and deeply involved electric cooperative leaders. His warm personality and sincere interest in cooperatives and their people helped achieve friendship and

respect across the state and nation. He was a familiar face at electric cooperative meetings across the state.

Born in Petersburg, Indiana, Temple was the son of the Rev. and Mrs. H. C. Temple. "Home" was Salem, where his father retired as minister of the Salem Presbyterian Church. He was graduated with a degree in journalism from the University of Illinois and worked as a reporter and photographer for the *Illinois State Register*, *St. Louis Star-Times* and the Associated Press.

In 1950 he joined with his brother, William, in the operation of the *Wayne County Record* at Fairfield, and served as editor and co-publisher of that newspaper from 1950 to 1961.

Small farms are not on the way out in the midwest!



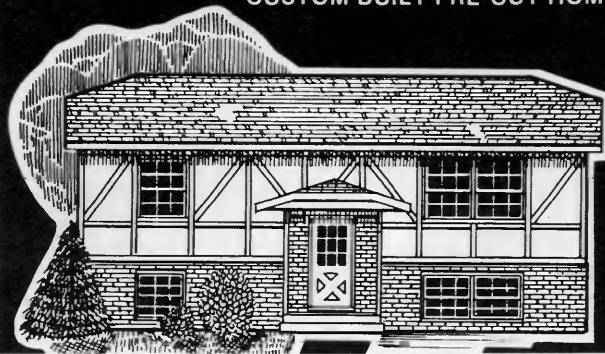
They are alive and well growing vegetables for local markets with Hygroponic Greenhouses.

If you qualify, join the hundreds of successful growers using the completely soil less (nutrient flow) Hygro-Flo Tube growing system to replace poor quality shipped in vegetables and high transportation costs for their local markets. Turn a modest investment into a highly profitable year around income business. Don't miss this opportunity to produce a product that is always in demand. . . food! The internationally successful patented Hygro-Flo™ Tube System, the system of the '80s, takes the guess work out of growing. Hygroponics, Inc. will equip, train and guide the dedicated grower to success with continuous free assistance. See a greenhouse in your area. Be as big a mini-farmer as you like. Call or write us today for free information on how Hygroponics can fit into your future.

**All New Mid-Size Homes
As Low As
\$100 Down - \$259.26/Mo.***

Announcing: affordable homes for the '80s. Our "Vice President" series offers full-size quality, mid-size efficiency, and new low price. We offer below-market financing on everything we deliver — including materials and labor. No hidden costs. No closing costs. Find out how you can enjoy the freedom, pride and security of a home of your own. Beat the high cost of housing. Send coupon today for our all new **FREE CATALOG.**

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A DIVISION OF HARVEY BUILDERS, INC.
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Please Send Free Color "Vice President" Catalog Today To:

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We would like to be in our new home by: I own a lot I can get a lot

**SAVE \$
SEND
COUPON
TODAY!**

PLEASE SEND ME FREE INFORMATION

NAME _____

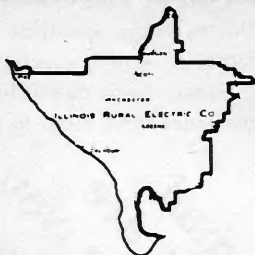
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CITY _____

STATE _____ ZIP _____ PHONE _____



TROY HYGRO-SYSTEMS, INC.
4096 CTH-ES
EAST TROY, WI 53120
PHONE 414/642-5928



High Line News

ILLINOIS RURAL ELECTRIC CO.

217-742-3128

WINCHESTER, ILLINOIS



Across the Manager's Desk

by Robert E. Gant

Insulate Your Own Home

USE

Illinois Rural Electric Co.'s Credit Plan

For Co-op Members Only

Store Hours

7:30 A.M. -- 4:30 P.M.

Monday - Friday, Except Holidays

*Insulate Your Home Today and Pay
for It in Simple Monthly Installments*

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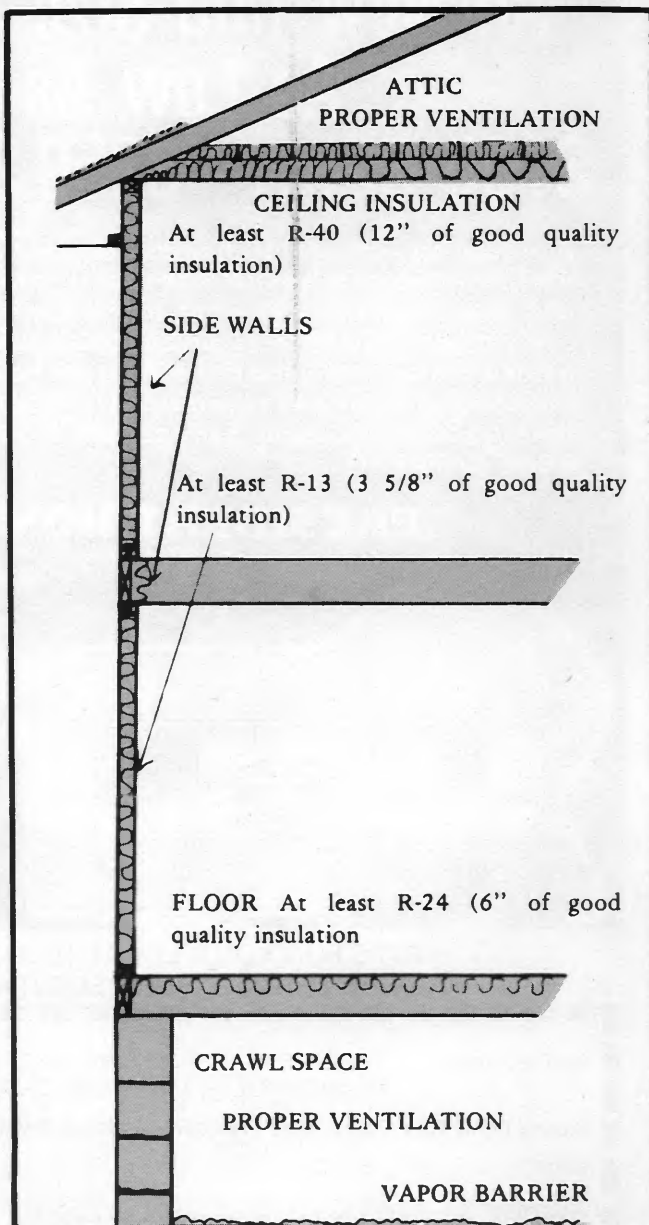
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Closed all day Saturday, Sunday and
Holidays.

Holidays Observed—

New Year's Day, Good Friday, Memorial
Day, July Fourth, Labor Day, Veteran's
Day, Thanksgiving and Christmas.

DO YOUR OWN WORK AND SAVE

Rent a portable machine from Illinois Rural Electric Co.'s Member Service Department and pick up the insulation at a good price.



It's time to check your furnace

What is a kilowatt-hour?

The basic measure for electricity use is the kilowatt-hour (kwh), which is the amount of energy required to operate a 100-watt bulb for 10 hours. Your electric bill indicates the exact number of kwh used, as determined by the reading of the meter, which is one of the most accurate measuring devices in use by the public today. The amount of your bill is based on the number of kwh you use, of course.

A relatively few appliances account for most residential electric use, excluding house heating. They are the range-oven, refrigerator, water

heater, air conditioner and clothes dryer. All the energy used by small appliances probably amounts to less than a third of the electricity consumed by your electric water heater in a year's time, so do not discard your electric toothbrush. It usually costs less than two cents a year to operative.

Here are some useful tips:

1. Use appliances according to the manufacturer's directions.
2. Have them repaired immediately at the first hint of malfunction;
3. Read the warranty to know the

manufacturer's obligations as to service and repair.

4. Keep furnace and air conditioner filters clean.
5. Ventilate your attic, where temperatures can build up to 150 degrees in summer.
6. Repair leaky hot water faucets.
7. Insulate your home.
8. Use full loads in washer, dryer and dishwasher.
9. When not in use, turn off lights, TV, radios, etc.
10. Set your heating system at 65 degrees F. in the winter and air conditioner at 78 degrees F. in the summer.

ATTENTION . . .

Illinois Rural Electric Co. Members In The Greenfield Substation Area:

NEW AREA SERVICEMEN:



DAVID GANT, Groundman on the left
Rockbridge, Illinois
Phone A.C. [618] 753-3514

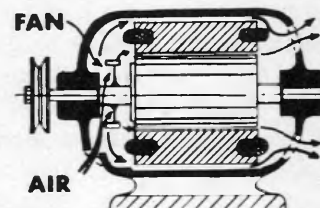
LYNN E. RIMBEY on the right
Rockbridge, Illinois
Phone A.C. [618] 753-3375

WHAT TO DO WHEN THE POWER GOES OFF

1. Check your own fuses or circuit breakers. Remember to check the main cartridge fuse in the fuse box. This would determine if the power outage is in your own wiring or fuse box.

2. Check with your neighbor to see if his power is off. If the neighbor has a power outage, it would indicate a general power interruption, and your cooperative should be notified immediately.

3. If you still have not found the problem, it might indicate an individual power outage, and you should call the appropriate number listed for your area so that your cooperative can respond as quickly as possible.



KEEP IT CLEAN

Dust and grease cause electric motors to overheat. This leads to short life, expensive repairs and other troubles. Lubricate sparingly at regular intervals. Periodically remove dust with air hose or vacuum cleaner. Use non-flammable cleaning fluid on metal parts.

energy
efficiency

Plenty of homework to do before starting insulation project

It is not difficult to answer the question of whether or not you should insulate. The answer would surely be "Yes, I should insulate." The more difficult questions to answer are, "When, how and with what will we accomplish the task?" Each individual homeowner should analyze this particular situation and then proceed from that point.

Very basic questions must be answered prior to calling a contractor or attempting to purchase material. Those questions include, "Should we insulate ceiling, sidewall, floor or all three?" What materials would be best suited for our application? Would it be best to hire a contractor or do all or part of the insulation ourselves? These and many other questions should be considered prior to the actual

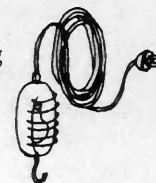
installation. This is, perhaps, an oversimplification of the procedure. There are, however, many homeowners who are unfamiliar with what needs to be done, what is available, and what their best method of installation of insulation would be.

With the proper amount of thought given prior to the installation, quality control can be assured from the beginning to the end of the process. For help in discussing your particular application with a qualified third party, you could get expert advice from your local power use advisor. He will be knowledgeable about what's available, who the installers are in your area, and he can help explain the recommendations for adequate insulation and help analyze your investment payback.

For do-it-yourselfers

Tools

1. Temporary lighting



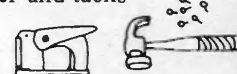
2. Temporary flooring



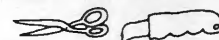
3. Duct or masking tape (2" wide)



4. Heavy duty staple gun and staples, or hammer and tacks



5. Heavy duty shears or linoleum knife to cut batts or blankets and plastic for vapor barrier



For an example of the type of considerations which must be made, let us single out the outside wall area of an existing structure and make plans to insulate it. To begin with, we must first determine whether or not there is material in the wall cavity. This can be checked in some cases by removing electrical cover plates or removing trim boards in places, or may require drilling general test holes. If the cavity is found to contain some insulation, then a more thorough examination should take place to determine whether or not the walls should be reinsulated. Adding insulation to the walls which already contain insulation is difficult and the effectiveness of the addition is questionable.

If the determination is made that no insulation exists in the wall cavity, one must then decide on a particular material. This material could be foam, cellulose fiber, mineral wool, fiberglass, or vermiculite. All these materials can be blown in place with the wall cavity intact.

There are different techniques for installing insulation materials in the

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Louver — openings consisting of shutters or baffles in attic gables that permit ventilation.

Passive Solar Heating System — a system in which elements of the house structure (glass panels, walls, etc.) collect and store heat from the sun and distribute it without aid of mechanical apparatus.

Perimeter Insulation — insulating material and its application to enclose the outside of foundation walls and around the perimeter under concrete slabs.

Polyurethane Insulation — a foam plastic formed in panels or varying thickness and used mostly for perimeter insulation.

R-Value — a measure of a substance's resistance to the transfer of heat. The higher the number, the greater the resistance.

Radiant Heating — the heating system in which only the heat radiated from the panels is effective in providing the heating requirements.

Refrigerant — the substance which produces a refrigerating affect by absorbtion of heat while expanding or vaporizing.

Solar Cell — a device that generates an electrical current when exposed to solar radiation; also known as photo-voltaic cell.

Solar Collector — an insulated panel used to collect solar heat for transfer to living space or storage.

Solar Storage — a water tank or bin of small stones used to store water or air heated in solar collectors.

Space Heating — heating the inside of a building or room.

Therm — a unit of heat equal to 100,000 BTUs.

Thermal Energy — a form of energy whose affect (heat) is produced by accelerated vibration of molecules.

Thermal Transmission — the passage of heat through a material.

Thermostat — an instrument which responds to changes in temperature and which directly or indirectly controls temperature.

U-Value — the number of BTUs transmitted in one hour through one square foot of a building section when the temperatures of two surfaces of the section differ by one degree F.

Unitary System — a comfort system in which heating or cooling are

supplied by individual units located, controlled and sized to serve one room area.

Vapor Barrier — a covering applied to wall, ceiling and floor interior surfaces which resists penetration of moisture and air. This building material is usually plastic film, metallic foil or asphalt-coated felt.

Vent — any opening in a building envelope designed for the flow of air or moisture.

Ventilation — the process of supplying or moving air, by natural

or mechanical means, to or from any space.

Warm Air Heating System — a warm air heating system in which circulation of air is effected by a fan.

Watt — the electrical unit of power or rate of doing work. It is analogous to horsepower or foot-pounds per minute of mechanical power. One horsepower equals 746 watts.

Weatherstripping — foam, metal or rubber strips used to form a seal around windows or doors to reduce air infiltration.

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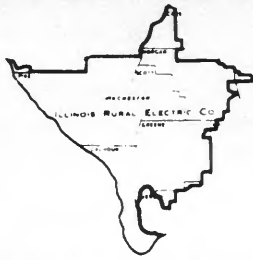
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Across the Manager's Desk

by Robert E. Gant

Plan ahead and save

It pays to conserve energy. You can save nickels and dimes by turning off lights around the house, but you can save dollars, too, by conserving on the "big three": heating, cooling and water heating. Those three uses of energy account for approximately three-fourths of your energy bill each month.

By planning ahead (because next month's electric bill is being metered today) you can have a considerable amount of influence over next month's bill.

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Electricity lets us set our own bill. When the bill comes, it's too late to do anything about it. The power has already been used. Today is *the* day to hold down next month's bill, because today's electricity usage will be reflected on next month's bill.

We all need electricity to maintain our homes and lifestyles. It is a necessity, but it is sometimes almost too convenient. It works for us even while we are away from home — keeping the house warm, heating water and cooking food. It is so convenient, so automatic that we forget all those kilowatt-hours necessary to pay this quiet, efficient servant until the bill comes next month.

The key to using electric energy efficiently is awareness. Awareness that we are using electricity constantly and sometimes unnecessarily. Awareness that the meter is diligently measuring our energy usage.

Try awareness for a day, or a week, or a month. Watch the meter and think about today's usage and next month's bill. *Think ahead.*



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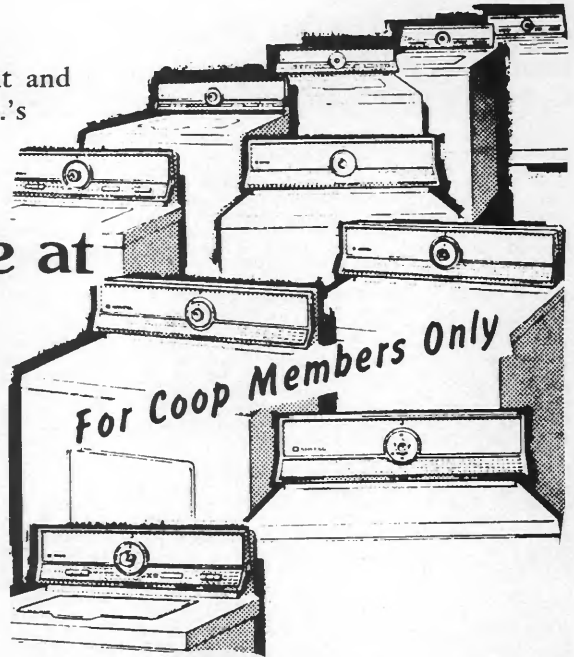
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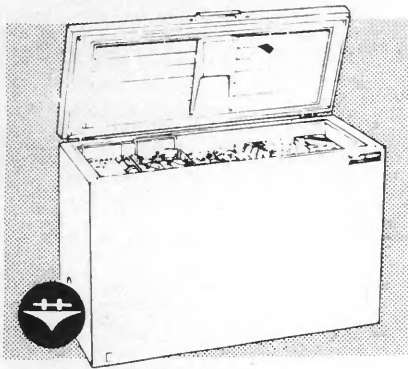
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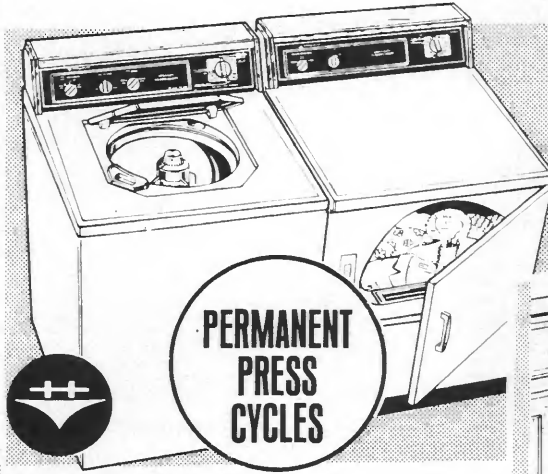


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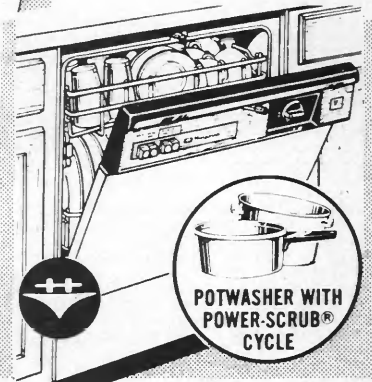
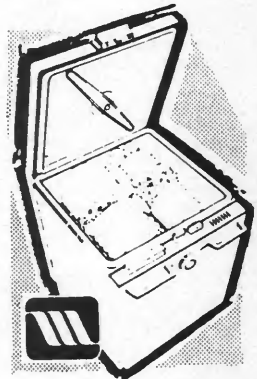
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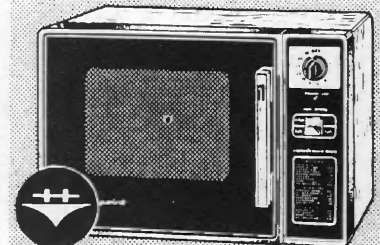
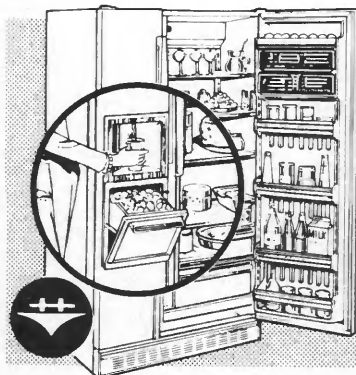
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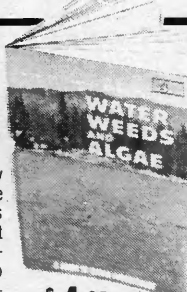
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Lincoln Land Community College
(Continued from page 5)
fans, two in each of three buildings, ran continuously. The system had to be shut down manually when the college was closed. Now, the computer shuts down the fans — on an alternating basis — for 15 minutes each hour and controls the amount of outside air that is mixed into the system. The computer, which cost \$65,000, is expected to save more than \$40,000 a year.

Another facet of the school's energy-saving drive was reflected in the scheduling of a four-day week during the nine-week summer session in 1978. With electrical costs running anywhere from \$600 to \$1,000 a day, costs were expected to be reduced by about 20 percent. In addition, students and faculty members were able to avoid driving to school a day a week, so fuel costs were effected, too.

LLCC has also undertaken a long-range energy conservation plan with a three-stage priority system. High priority items are those with a high cost-effectiveness. The plan covers everything from installing more

efficient parking lot lights to integrating a 3,000-watt wind generator into the school's electrical system.

Under the program, lower-wattage fluorescent tubes have been installed in areas where a slight reduction in light would not be detrimental, and an incandescent track-mounted lighting system in the student game-room was replaced by a ceiling-suspended fluorescent setup. The school has an experimental solar collector system which is expected eventually to provide a substantial part of the heating and cooling requirements for Mason Hall, one of the buildings on campus.

Using a 13.7-percent annual average rate of increase for fuel costs, the school's architects project a savings of \$8-million in the next 20 years, even if only stages I and II are completed. And with the Hot Line School teaching improved techniques and safety to linemen from all over the state, there may be several lives saved, too, thanks to the forward-looking leadership at Lincoln Land Community College.



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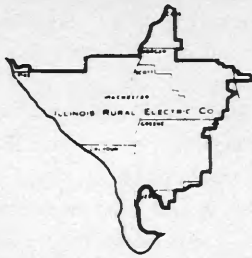
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Across the Manager's Desk

by Robert E. Gant

As part of Illinois Rural Electric Co.
to provide for its members reliable, adequate electric . . .
at a reasonable cost, your electric cooperative part
each year in the Hot Line School, a safety training p
coordinated by the Association of Illinois Electric
Cooperatives.

Again this year, IREC enrolled several employees in the
school, held for this first time in its 25-year history at
Lincoln Land Community College in Springfield. Previous
schools were conducted in Carbondale. IREC employees
attending the school received two types of training:
overhead and underground.

Participating in the week of overhead instruction were:
Donald L. Long, Service Journeyman Lineman, Winchester;
Richard L. Knox, Service Journeyman Lineman, Carrollton;
Charles L. Settles, Clearing Foreman, Carrollton; Ronald D.
Little, Clearing Foreman, Barry; Jerry R. Faulkner, Service
Journeyman Lineman, Griggsville, and George L. Claus,
Service Journeyman Lineman, Milton.

Long and Claus served as instructors during the week of
schooling, which included hot line (electric service is not
interrupted) tool work with sticks for maintenance, repair
and installation on overhead lines, as well as rubber glove
work, a procedure used by your cooperative for a

considerable amount of hot line work. This past spring
the AIEC conducted a Rubber Gloving School at several
locations on the IREC system.

IREC personnel attending the underground school
included Craig S. Long, First-Year Apprentice Lineman,
Winchester; Steven L. Wisdom; Journeyman Lineman,
Winchester; Harry L. Taylor, Line Foreman, Winchester,
and Donald W. King, Journeyman, Winchester.

Participants in this segment of the school studied
operation and maintenance of trenching and plowing
equipment, troubleshooting, cable locating, methods of
locating underground line problems, as well as transformers,
elbows, splices.

Hot line maintenance is vital for your electric system.
It is important that such work is completed safely,
efficiently and quickly, as so to minimize or eliminate
any inconvenience to the members of the cooperative.



It's that time of year... and we'd like to express our thanks

. . . .to those determined people who, some 40
years ago, had the vision and persistence to form rural
electric cooperatives.

. . . .to our members, who care about this system
and keep it responsive to changing needs.

. . . .to our community, for being our community-
interested and concerned about our progress.

We wish you
a good Thanksgiving
from the Board, Manager and Employees at
Illinois Rural Electric Co.

ILLINOIS RURAL ELECTRIC CO.

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2-12 South Main
Winchester, Illinois 62694
Ph: (217) 742-3128

Main Office Hours:

7:30 A.M. to 4:30 P.M.
Closed all day Saturday, Sunday and
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Holidays Observed—

New Year's Day, Good Friday, Memorial
Day, July Fourth, Labor Day, Veteran's
Day, Thanksgiving and Christmas.



Hot line school

Left to right: Donald L. Long, Service Journeyman Lineman, Winchester; Richard L. Knox, Service Journeyman Lineman, Carrollton; Charles L. Settles, Clearing Foreman, Carrollton; Ronald D. Little, Clearing Foreman, Barry; Jerry R. Faulkner, Service Journeyman Lineman, Griggsville; George L. Claus, Service Journeyman Lineman, Milton.



Underground school

Left to right: Craig S. Long, First Year Apprentice Lineman, Winchester; Steven L. Wisdom, Journeyman Lineman, Winchester; Harry L. Taylor, Lineman Foreman, Winchester; Donald W. King, Journeyman Lineman, Winchester.

Electric and telephone cooperatives praised for rural life contributions

Electric and telephone cooperatives were cited as being strong developmental influences in improving rural life by the Senior Vice President of the Cooperative League of the U. S. A. during a banquet officially marking the observance of October as Cooperative Month.

Dr. Allie Felder paid tribute to Illinois' and the nation's rural electric and telephone cooperatives, as well as the more than 400 cooperatives which are active in Illinois.

He said Illinois might very well be called the "cooperative king" as he noted that variety of cooperative organizations made up of hundreds of thousands of Illinoisans.

More than 300 Illinois cooperative leaders attended the banquet, a buffet-style dinner held at the Governor's Mansion in Springfield. The function was the initial observance of Cooperative Month, and was followed

during the rest of October by activities on the local level. As in the past, the Cooperative Month observance was coordinated by the Illinois Cooperative Coordinating Committee.

Dr. Felder recalled the beginning of the cooperative movement in Europe, saying that American cooperatives developed in four ways: immigration of Europeans to this country, incidental discovery of

Thomas H. Moore, Executive Vice President and General Manager of the Association of Illinois Electric Cooperatives, addresses the more than 300 Illinois cooperative leaders who attended the Cooperative Month banquet October 6 in Springfield. Looking on are Illinois Director of Agriculture John Block (left), featured speaker Dr. Allie Felder (right) and Glenn Webb, master of ceremonies.

cooperatives by Americans traveling in Europe, lessons earned through direct contact with foreign cooperatives through the International Cooperative Alliance and deliberate investigations of the European cooperative movement by presidential commissions organized as early as the first part of this century.

He noted that credit unions form the largest bloc of cooperatives, enrolling approximately 31.5-million Americans. Agriculture marketing and supply cooperatives handle more than 37 percent of the agriculture products in the country, 75 percent of the dairy products, 40 percent of the grain, 30 percent of the cotton, 30 percent of fruits and vegetables, 40 percent of the petroleum, 35 percent of fertilizer and 32 percent of all agriculture chemicals.

Dr. Felder is a graduate of the University of Illinois with a master's degree in rural sociology and economics.

Glenn Webb of Tunnel Hill, newly elected Chairman of the Board and President of Growmark, Inc., served as master of ceremonies. Webb is the son of Ray Webb, former Southeastern Illinois Electric Cooperative and Southern Illinois Power Cooperative Director. He also is a brother of present Southeastern Director Kenneth Webb.



matter of locating and repairing hundreds of small breaks in the lines, but they all took time. The same story, with minor variations, explains the predicament Southeastern found itself in, Cummins noted, but since Southeastern suffered more damage initially, cleanup was taking longer. While Southeastern crews were still hard at work and Egyptian's were just breathing sighs of relief, a second — more severe — storm hit.

"At about 5 p.m. on Wednesday, July 2, with our system still weakened from the June 28 storm, we suffered the worst storm in our history," Cummins told his audience, adding, "Our crews were still tired from the long hours they'd put in repairing the damages caused by the first storm. We serve a total membership of just over 17,000, and 14,000 of them were out of service when the storm ended. They weren't alone, though, because all the other power suppliers in the area were hit hard, too."

Again, falling trees were the major cause of trouble. All outside crews were called back in for a long work session, two crews were borrowed from Southern Illinois Electric Cooperative and 50 contracted personnel were called in to augment the cooperative's seven line and four forestry crews. Back at the office, the switchboard and radio were staffed around the clock. "Still," Cummins said, "some members who couldn't reach the cooperative by phone were really irritated. Our switchboard can handle normal business calls, but it was swamped during the outage."

Both men agreed that while the storms were severe and the outages long, there was only a limited opportunity to take advantage of outside aid because of the nature of the damage.

"The breaks in our lines were small and widely scattered," Kuhn said, "and we made it a policy to send one of our men, in a radio-equipped vehicle, with each work crew. His job was to find the trouble spots for them. When we ran out of men who knew the system, we couldn't use more crews. All a crew could do if it didn't have a guide would be to drive around looking for trouble spots and they wouldn't be able to do any kind of systematic repairs."

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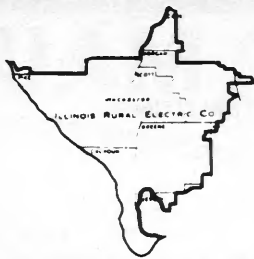
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High Line News

ILLINOIS RURAL ELECTRIC CO.

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WINCHESTER, ILLINOIS

Among the seven employees presented safety awards were, seated from left, Herman J. Holford, Winchester, 15 years; Harold W. Baird, Winchester, 20 years, and Jerome H. Pranger, Winchester, 15 years. With the honored employees is Manager Robert E. Gant. Not present for the photo were William M. Milliken, Winchester, 15 years; and Albert R. Kirchner, White Hall; David E. McKinney, Winchester, and Buddy J. Moss, Eldred, all 10 years.



Employee-director banquet

Eleven honored for 115 years of service

Seven employees and four directors of Illinois Rural Electric Co. were recognized at the cooperative's annual Employee-Director Banquet for 115 combined years of service to the Winchester-based cooperative.

According to Manager Robert E. Gant, nearly 150 persons attended the 34th annual banquet held at the Blackhawk Inn in Jacksonville on Friday, November 21.

Employees and directors were recognized for five, 10, 15, 20, and 35 years of service. Receiving a 35-year service award was William M. Milliken, Winchester, Oil Circuit Recloser Maintenance. Other length-of-service awards were presented to Harold W. Baird, Winchester, Line Foreman, 20 years; Herman J.

Holford, Winchester, Chief Electrician, 15 years; and Gary L. Harbison, Winchester, Journeyman Lineman; Lynn E. Rimbey, Rockbridge, Journeyman Lineman; Dennis W. Taylor, Winchester, Cost Accountant, and Sandra J. Wynn, Winchester, EDP Data Entry Operator, all five years.

Four directors receiving service awards were: Glen R. Pulliam, New Canton, 10 years; and James T. Brannan, Eldred; William Griswold, Rockbridge, and Ronald K. Myers, Griggsville, all five years.

Seven employees were presented safety awards in recognition of their years of employment without a loss-time accident on the job. These employees include: Harold W. Baird, Winchester, 20 years; Herman J. Holford,

Winchester, 15 years; William M. Milliken, Winchester, 15 years; Jerome H. Pranger, Winchester, 15 years, and Albert R. Kirchner, White Hall, David E. McKinney, Winchester, and Buddy J. Moss, Eldred, all 10 years.

Special recognition was given to four retiring employees. Eleanor I. Evans, Winchester, Office Supervisor, will retire February 28, 1981, with 23 years of service; Leonard C. Plowman, Winchester, Building Superintendent, retired November 30, 1980, with 16 years of service; Jerome H. Pranger, Winchester, Member Serviceman, will retire December 31, 1980, with 19 years of service, and Basil L. Taylor, Winchester, Line Superintendent, will retire December 31, 1980, with 36 years of service.



Above: Employees and directors honored for five years of service, were, seated from left, Dennis W. Taylor, Winchester; Gary L. Harbison, Winchester; Lynn E. Rimbey, Rockbridge, and Sandra J. Wynn, Winchester. Standing are, from left, directors William Griswold, Rockbridge; James T. Brannan, Eldred, and Ronald K. Myers, Griggsville. With the group is Manager Gant. Right: Two employees and one director were honored for 10 or more years of service. With Manager Gant, standing, are from left: Herman J. Holford, Winchester, 15 years; Glen R. Pulliam, New Canton, 10 years as a director, and Harold W. Baird, Winchester, 20 years. Not present for the photo was William M. Milliken, Winchester, an employee with 35 years of service.



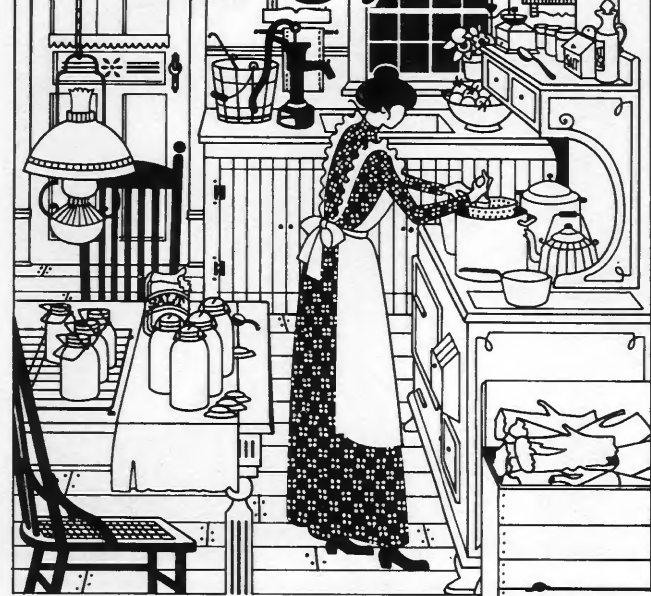
Happiest of Holidays!

from employees and directors of

Illinois Rural Electric Co.

Cooking for the

holiday season...



AMBROSIA COOKIES

- 1 cup butter or margarine
- 1 cup brown sugar
- 1 cup granulated sugar
- 2 eggs, beaten
- 2 cups flour
- 1 teaspoon baking powder
- 1/2 teaspoon soda
- 1/2 teaspoon salt
- 1 cup coconut
- 1 1/2 cups rolled oats
- 1 cup nuts, chopped
- 1 cup seedless raisins (I prefer bleached ones)
- 1 cup dates, chopped
- 1 tablespoon grated orange rind
- 1 tablespoon grated lemon rind
- 1 teaspoon vanilla

I add to this:
 1 cup candied cherries, chopped
 1 cup candied fruit cake mix

Cream butter or margarine. Add brown and white sugars gradually, creaming well. Add beaten eggs and mix well. Sift together flour, baking powder, soda and salt. Stir into creamed mixture, beating until smooth. Add vanilla and mix well. Add all other ingredients and mix thoroughly. May have to use hands for mixing. Drop from a teaspoon onto greased baking sheets. Bake at 375 degrees for about 12 minutes. Makes 7 doz.

CHOCOLATE SOUR CREAM FUDGE

- 2 cups sugar
- 1 cup dairy sour cream
- 2 sqs. unsweetened chocolate, broken into pieces
- 1/2 teaspoon salt
- 2 tablespoons light corn syrup
- 2 tablespoons butter
- 1 teaspoon vanilla
- 1/2 cup chopped nuts

Combine sugar, sour cream, chocolate, salt and syrup in heavy 2 qt. saucepan with cover. Cook and stir over low heat until sugar dissolves. Cook over medium heat until boiling; cover and cook for 3 minutes. Uncover and cook, stirring frequently, to soft ball stage. Remove from heat. Add butter and vanilla. Cool to lukewarm without stirring. Beat vigorously until candy is creamy and has lost its gloss. Add nuts and pour into buttered 8-inch square pan. Cut into 1 1/4" squares when hard.

RASPBERRY MERINGUE BARS

- 1 cup (2 sticks) butter
- 1/2 cup firmly packed brown sugar
- 1 egg
- 2 cups all purpose flour
- 1 jar (12 oz.) raspberry preserves
- 1/2 cup seedless raisins
- 1/2 teaspoon almond extract
- 3 egg whites
- 3/4 cup sugar
- 1/2 cup flaked coconut
- 1/2 cup sliced almonds

Preheat oven to 325 degrees. Cream butter and brown sugar until light and fluffy. Blend in egg. Stir in flour; mix well. Spread dough in buttered 13" x 9" baking pan. Bake 25 minutes. Meanwhile, combine preserves, raisins and extract. Spread over baked cookie base. Beat egg whites until foamy. Gradually beat in sugar. Continue beating until stiff peaks form. Gently fold in coconut and almonds. Spread over raspberry mixture. Return to oven and bake until meringue is lightly browned, about 20 minutes. Cool in pan. Cut into 48 bars.

POPPY SEED DRESSING

- 1 1/2 cups sugar
 - 2 teaspoons dry mustard
 - 2 teaspoons salt
 - 2/3 cup vinegar
 - 3 tablespoons onion juice
 - 2 cups salad oil (Wesson)
 - 3 tablespoons poppy seeds
- Mix ingredients, beat and chill overnight. Serve over fresh fruits.

HASH CANDY

- 2 large or 18 small Hershey bars
 - 1 pkg. chocolate chips
 - 1 can evaporated milk
 - 1 jar marshmallow creme
- Melt candy bars and chocolate chips in double boiler, and remove from heat. Stir milk and marshmallow creme into chocolate mixture. Mix well. Add nuts if you wish and marshmallows. Mix well.

NEAPOLITAN COOKIES

- 2/3 cup butter
- 1 cup sugar
- 1 egg
- 1 teaspoon vanilla
- 2 1/4 cups all purpose flour
- Few drops red food color
- 1 1/2 teaspoons baking powder
- 1/2 teaspoon salt
- 1/3 cup finely chopped nuts
- 1 sq. unsweetened chocolate, melted
- 1/4 cup chopped maraschino cherries, drained

Cream butter; gradually add sugar and beat until light and fluffy. Beat in egg and vanilla. Combine flour, baking powder and salt; gradually mix into creamed mixture to form a stiff dough. Stir in nuts. Divide dough into thirds. Add chocolate to one third. Add food color and cherries to second third. Leave remaining third plain. Shape each color into a roll 14" long; flatten to a width of 1 1/2". Place layers one on top of the other. Press lightly. Cut into 2 equal pieces, each 7" x 1 1/2". Wrap tightly in waxed paper. Refrigerate several hours or overnight. Preheat oven to 375 degrees. Cut dough into 1/8" thick slices; place on unbuttered cookie sheets. Bake until lightly browned, about 8 minutes. Cool completely on wire racks.

GINGER BEER CAKE

- 1 box yellow cake mix
 - 1 1/2 cups beer
 - 2 eggs
 - 1 stick margarine
 - 1 8-oz. pkg. cream cheese
 - 1 box powdered sugar
 - 1 tablespoon ginger
 - 1 teaspoon cinnamon
 - 1/4 teaspoon nutmeg
 - 1 cup pecans
 - 1 teaspoon vanilla
- Combine dry ingredients, eggs and beer. Mix well. Turn into bundt pan and bake at 350 degrees for 35 minutes or until brown. Frost with:
- Combine margarine, cream cheese and vanilla. Gradually add sugar, blending well. Stir in pecans.

CROWN JEWELS CAKE

- 1 cup (2 sticks) butter
- 1 pkg. cream cheese (8 oz.)
- 1 1/2 cups sugar
- 4 eggs
- 2 1/4 cups sifted cake flour
- 1 1/2 teaspoons baking powder
- 1/4 teaspoon salt
- 1 teaspoon vanilla
- 1/4 cup EACH: diced dried apricots, diced candied cherries, seedless raisins, chopped nuts.
- GLAZE:
- 1 cup sifted confectioners sugar
- 1 1/2 tablespoons milk
- 1/2 teaspoon almond extract
- Candied cherries
- Whole almonds

Preheat oven to 325 degrees. For cake, beat butter and cream cheese in large mixer bowl until creamy. Add sugar; beat until light and fluffy. Add eggs, one at a time, beating well after each addition. Combine flour, baking powder and salt. Gently fold dry ingredients into creamed mixture. Stir in vanilla, fruit and nuts. Pour batter into well-buttered and floured 10-inch fluted ring tube pan. Bake until wooden pick inserted near center comes out clean, about 70 minutes. Cool on wire rack 15 minutes. Remove cake from pan. Cool completely. For glaze, combine first three ingredients; stir until smooth. Drizzle over top of cake. Decorate with cherries and almonds.

OLD FASHIONED FILLED COOKIES

- 3/4 cup (1 1/2 sticks) butter
- 1 cup sugar
- 2 eggs
- 1 teaspoon vanilla
- 1 teaspoon grated lemon peel
- 2 3/4 cups all purpose flour
- 1/4 teaspoon soda
- 1/2 teaspoon salt
- Cherry Pastry and Dessert filling

Cream butter; gradually add sugar and cream until light and fluffy. Beat in eggs, vanilla and lemon peel. Combine flour, soda and salt; stir into creamed mixture. Cover and chill. Preheat oven to 375 degrees. Roll out cookie dough on lightly floured surface to 1/8" thickness. Cut into 2 1/2" circles. Using a smaller cutter, cut out small design in center of half the circles. Place plain circles on cookie sheets. Top each circle with 1 teaspoon cherry filling. Top with cookies with centers cut out. Press edges lightly with floured fork to seal. Bake 10 to 12 minutes. Remove to wire racks to cool.

MULLED CIDER

- 3 quarts apple cider
 - 2 cups of orange juice
 - 2 lemons, sliced thin
 - 1/2 cup light brown sugar
 - 3/4 cup granulated sugar
 - 1 cup of water
 - Spice Bag:
 - 1/2 teaspoon ground nutmeg
 - 3 teaspoons ground allspice
 - 1 teaspoon cinnamon
 - 4 cinnamon sticks (broken)
- Mix cider, orange juice, sugars and water in kettle. Tie spices in bag and place in liquid and let boil 4 or 5 minutes. Add lemon slices. Cover a few minutes and simmer. Remove bag and serve hot. Serves 18. Leftover can be stored and reheated. Add small amount of water or more cider if syrupy.