

# New Electronic Pain Killer...

## relieves backache, headache, even pain of tennis elbow, arthritis & bursitis!

Tested by doctors, INFRALUX™ is handheld and portable. Its infrared heat relieves pain without medication! FDA registered.

Try it FREE for 30 days!

Say goodbye to pain. No matter the type you suffer from—headaches, tennis elbow, arthritis, bursitis, sinusitis, backache, neuralgia, muscular pains, sprains, or any musculoskeletal condition—here is a quick easy answer. Put INFRALUX next to the pain and within minutes, you can get on with work or play.

### SOOTHING PAIN RELIEF. BUT WHY INFRARED HEAT?

There is nothing new about infrared heat. Doctors and therapists have used and recommended it for years in pain treatment. But until now, there hasn't been a compact, easy-to-use unit.



Why infrared? With ordinary methods such as heating pads and hot water bottles, much of the heat is dissipated on the skin's surface. There's no lasting effect.

But with infrared heat, the treatment goes down d-e-e-p where you need it. In fact, INFRALUX's shortwave, visible infrared heat will penetrate up to 10mm of skin tissue to reach irritated nerve endings. Your INFRALUX seeks, finds and soothes!

### ELIMINATE UNNECESSARY MEDICATION.

In fact, William J. Shriber, MD notes in his respected "Manual of Electro Therapy" **THAT MILD INFRARED RADIATION MIGHT BE THE ONLY WAY TO RELIEVE PAIN WITHOUT THE USE OF MEDICATION.**

Why take medication when it isn't needed? INFRALUX is the most natural route to pain relief.

### HOW THE INFRALUX WORKS.

All you do is hold the INFRALUX unit next to where you hurt. It even works thru clothing! Within moments, you'll sense comforting, soothing heat.

INFRALUX heat goes to where the pain is—to blood vessels, nerve endings, and other subcutaneous tissue.

### USE AS OFTEN AS NEEDED.

Unlike drugs and medication, INFRALUX can be used as often as needed. It's made to help you day or night, at home or at work. And be



sure to pack it for out-of-town trips. You can enjoy soothing relief wherever, and whenever.

### U.L. LISTED

INFRALUX is easy to carry too in its handsome vinyl bag. No bigger than a small flashlight (six inches long). It plugs in any 110V outlet and it is U.L. listed for your safety.

### TRY IT FOR YOURSELF

The minute your INFRALUX arrives in the mail, give it a good try. Put it to the test on that nagging backache, that stiff neck, those arthritic pains that hit so suddenly. If, after a month, you're not astounded at how much better you feel, return it for a full refund.

### HERE'S HOW TO ORDER

INFRALUX is only **\$39.95** (plus \$2.85 shipping and handling). To order, simply send your check to Baystar at the address below. Credit card holders can speed their delivery by using our toll-free number. (Maryland residents add 5% tax.)

### CALL TOLL FREE

Monday thru Friday 9am-5pm Eastern Time

**800-638-6170**

All other times call **800-257-7850**

Maryland residents call 363-4304

Be ready the next time pain interrupts your schedule. Order an INFRALUX today!

# Baystar

110 PAINTERS MILL ROAD DEPT. N47  
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### RECOMMENDED BY DOCTORS

#### FROM ACTUAL DOCTORS' REPORTS ON INFRALUX:

*"I have used the unit in my practice for six months and I find it relieves pain and muscle spasms, stiff shoulders and elbows from bursitis and tendonitis. Patients suffering from arthritis use the Infralux in the morning and get excellent results."* J.L.G., MD

*"On patients with a variety of musculoskeletal painful conditions, Infralux was demonstrated to be effective in relieving pain."* V.S., MD



# manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

## Caution with woodburning stoves and fireplaces

It has been noticed that a large number of homes have a stack of wood alongside the house on the porch for use this winter. We would like to pass along a word of caution to those who have made the decision to supplement their heating needs with some type of woodburning device.

If you are using a fireplace, do you realize that in most fireplaces you only receive slightly over five percent of the heat that is being produced by the fire into the room; the other 95 percent is going up the flue?

Some fireplaces have had special attention when they were built and they recover a much larger percentage of the heat that is produced.

Several have purchased new woodburning stoves and the efficiency of the stove can reach as high as 80 percent. When wood burns, the combustion process is never complete and a sticky tar-like substance called creosote will build up inside the pipe and chimney. Consequently, burning unseasoned soft wood will produce a large amount of creosote. With the new more-efficient airtight stoves, less heat escapes up the chimney to burn off the creosote from inside the pipes and flue. When the build-up is so thick, only two things will happen. The stove will start smoking and will not burn or the chimney will catch on fire. In many cases the chimney gets so hot it will set the house on fire.

It has been reported that a large percentage of fires in homes are due to improperly installed wood stoves. If you have a stove installation of this

type, it is a good idea to have a hot fire for a period of fifteen to thirty minutes each day to keep the creosote burned out of the chimney. Also, inspect the stove pipe and chimney frequently for creosote.

Here are some suggestions on how to make a safe installation of a woodburning stove:

1. Be sure the floor is properly protected below the stove with either metal, brick, concrete or some other fireproof material.

2. The unit should be set no closer than 36 inches to an unprotected combustible wall. If the wall is protected with an asbestos board or insulated sheet metal, the distance can be reduced somewhat.

3. The chimney must be sound

with no cracks or holes. If there is a question about the chimney safety, have it checked by an expert.

4. An insulated prefabricated chimney may be safely passed through floors, partitions, and rugs by simple construction methods.

5. Stove pipes must never pass through frame partition walls, closets, or attics and must never be installed closer than 12 inches to the ceiling above.

When buying wood be sure you get what you are paying for. A cord is 128 cubic feet of stacked wood which is normally eight feet long, four feet high, and four feet wide.

The following chart will tell you the best wood to buy and how it will perform while burning.

### Wood to burn in fireplaces and stoves

Listed below are some of the common woods and how they rate as far as burning and producing heat.

	Easy to Burn	Heavy Smoke	Throw Sparks	Amount of Heat	General Rating
<b>HARDWOODS</b>					
Hard Maple	yes	no	no	high	excellent
Hickory	yes	no	no	high	excellent
Red and White Oak	yes	no	no	high	excellent
Ash	yes	no	no	high	excellent
Beech	yes	no	no	high	excellent
Birch	yes	no	no	high	excellent
Soft Maple	yes	no	no	medium	good
Walnut	yes	no	no	medium	good
Cherry	yes	no	no	medium	good
Sycamore	medium	medium	no	medium	fair
Elm	medium	medium	no	medium	fair
Cottonwood	yes	medium	no	low	fair
Chestnut	yes	medium	yes	low	poor
					good for kindling
<b>SOFTWOODS</b>					
Yellow Pine	yes	yes	no	high	good but smoky
White and red Cedar	yes	medium	yes	medium	good for kindling
Douglas Fir	yes	yes	no	high	good but smoky
Spruce	yes	medium	yes	low	poor

W

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## 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 kilowatt-hours 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 dollar amount of your bill is based on the number of kilowatt-hours 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 don't discard your electric toothbrush. It usually costs less than two cents a year to operate.

**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 filters in air conditioners 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 air conditioner at 78°F.



© NRECA

**WISH YOU A VERY  
 HAPPY NEW YEAR!**



### Savings suggestions

Don't pour money down the drain! Avoid unnecessary running of water and give leaking faucets prompt attention. Locate your water heater near the place of greatest use. Set the thermostat at 140 degrees and insulate the pipes to prevent heat loss.

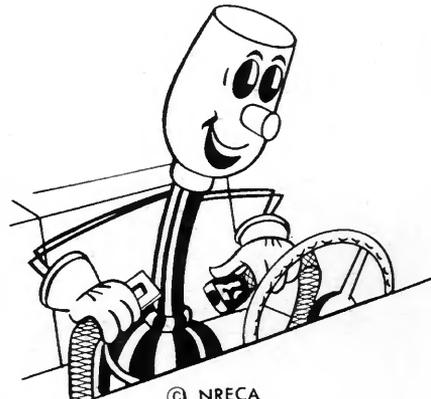
### The passing of the ages

History used to measure man's progress by ages — the Stone Age, Wood Age and Iron Age. But this doesn't work anymore. Generations were born, lived and died in one age.

Change was so slow that people were not even aware of change. But in the space of one lifetime today, we

have had the age of the automobile, the airplane, radio, television, the atomic age and the space age.

One person living today may well have seen more change in their lifetime than in all the rest of man's history combined. Change is making the language of history obsolete.



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**BUCKLE-UP  
 FOR SAFE DRIVING  
 ON SLICK ROADS**

# Agriculture outlook

## Farm problems 'extend beyond the

There will be a lot more food in the world than people will eat this year and, because of that, American farmers are heading into their fourth straight year of depressed income.

The federal government isn't guessing what farmers will earn in 1983, since Agriculture Secretary John Block banned the traditional farm income estimates a year ago. But analysts at the Agriculture Department's annual Outlook Conference in December doubted net farm income would change much from last year's \$19-billion — more than \$13-billion less than just three years earlier.

As a result, rural areas that depend on agriculture will continue their economic suffering, say Department economists.

"Any improvement will come very slowly," said J. Dawson Ahalt, deputy assistant agriculture secretary for economics. He added, "These financial problems extend beyond the farm gate and affect farm suppliers and other farm-related businesses."

Specifically, crop prices have fallen to 1978 levels as the cost of producing

those crops continues to rise. Land, which farmers have traditionally been able to use as equity for loans to get them through hard times, has fallen in value during the last two years. Farmers' net cash flow decreased \$1-billion in 1982 to a five-year low of \$37-billion and the total farm debt jumped 10 percent.

The reasons for such depressing figures are complex as the world economy itself. Simply stated, there's a food glut. Experts expect that world grain reserves will reach a two-month supply this year, "the highest global stocks-to-use ratio in more than a decade," according to Ahalt. Nearly 60 percent of that surplus is in the United States.

Record production of some crops has come at the same time as a faltering world economy and a stronger dollar have made many countries unable to afford to import as much food, especially from the U.S. The volume of U.S. farm exports dipped two percent last year, but the value of those exports fell 11 percent as the oversupply depressed prices.

"Many of the problems that plagued us in fiscal 1982 unfortunately will not go away in fiscal 1983," said Alan Tracy, deputy under secretary for international affairs. He predicts that while farm exports will rise three percent this year, they will drop in value by four percent.

"The likelihood of a continued strong U.S. dollar, a weak global economic recovery, and smaller Soviet grain imports are likely to restrain the volume and value of U.S. exports," said Tracy.

The Reagan Administration hopes that continuing attempts to develop foreign markets through credit programs and overseas visits by sales teams will combine with a general economic recovery to boost farm exports and prices.

Martin Feldstein, chairman of the White House Council of Economic Advisers, said at last month's Outlook Conference that federal budget deficits expected to top \$150-billion would hurt U.S. exports. Heavy government borrowing forces more competition for credit, he explained, pushing up



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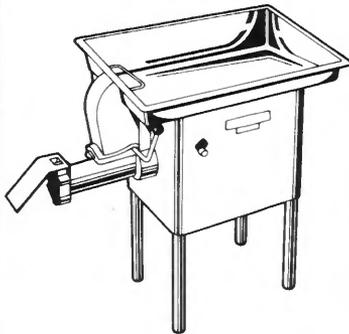
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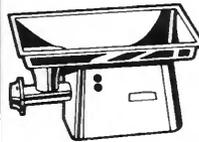
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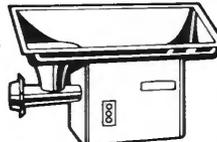
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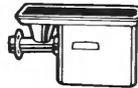
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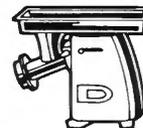
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**\$250.**

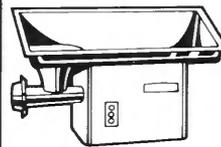
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MODEL

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sent a risk of serious injury, to the point of operators losing fingers or hands. If you have one of these Toledo grinders, or know of someone who does, it can be worth money to you and them. Take a look. Then contact us as soon as you can.

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**TOLEDO SCALE**  
RELIANCE ELECTRIC 



## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT



## Electricity doesn't take a vacation

Many members assume that when they leave on a vacation, their electric meter stops until they return home from vacation. If they are on vacation for two weeks, they expect their electric bill to reduce to about one half the normal usage. Let's ask ourselves a few questions before we assume our electric bill should decrease by any considerable amount during vacation time.

1. Was the water heater turned off during vacation time? Remember, if the electric water heater is left energized during vacation, it will continue to operate and maintain the tank temperature even if you are not using any hot water.

2. Was the electric refrigerator disconnected? If the refrigerator is left on, it will continue to operate to maintain the set temperature.

3. Was the frost-free freezer turned off? Frost-free freezers and refrigerators will continue to cycle daily even if you are not at home. Many frost-free refrigerators are on a six hour cycle, defrosting the frost on the coils and

then cooling again within a very few minutes.

4. Other appliances that are normally left on are dehumidifiers, clocks, pumps, sump pumps and automatic lighting.

If you are determined that no electricity is to be used during your vacation, you can accomplish this by disconnecting the main fuse or breaker at the main entrance box. Remember in so doing, those automatic appliances will stop. Your refrigerator and freezer will be defrosted and the dehumidifier will not keep the basement free of moisture.

We suggest that you read your meter when you leave on vacation and read it again when you return. By getting these readings, you can determine the kilowatt usage during your vacation.

Another reminder is that many vacationers bring home one or two weeks supply of dirty laundry. Of course this gets the electric water heater off to a heavy work-out on the first day or two home.

When your heat is turned low, and the weather is cold, your furnace will be required to run almost constantly to maintain heat at the temperature set on the thermostat.

Remember — even though you are away from home, the electrical requirements for power in the home still exist.

## Food prices aren't that high

Retail food prices may rise only three percent to six percent in 1983. That is the prediction of economists of the U.S. Department of Agriculture. During 1982, the food prices increased about four and a half percent, the smallest annual gain since 1976 and well below the double-digit jumps of

the late 1970's. The 1979 increase was nearly 11 percent.

Comparing 1982's food price rise with inflation rate, the real cost of food actually dropped for the fourth year in a row. And how well are we eating? In 1982 the U.S. Department of Agriculture did a study of what a group of people actually ate for a whole year. The group was made up of people aged 20 to 53. The overall results show that:

Younger males ate 10 percent more than older males of calories, fat, carbohydrate, saturated fat, oleic acid, linoleic acid, cholesterol, calcium, iron, phosphorus, sodium, thiamin and riboflavin. The older males got 33 percent more vitamin C than the younger ones.

As for the females in the group, the younger got 10 percent more calcium, vitamin A and riboflavin than the older females. Reminder for older females; you need calcium for healthy bones for as long as you live.

## If your power goes off

1. Check your fuses and switches below the meter. If some of your lights work, then the trouble could be your fuses or breakers. Remember to check the main cartridge fuses in the fuse box, or the breaker box in your house.

2. If all your lights are off, check with your neighbor to see if their power is off.

3. If you do not find the trouble call 837-1400. Be sure to give your name and location number which is found on the lower left hand portion of the billing stub the member retains. This location number is used the same as a street address in locating your place. If you notice anything wrong with the line in your area, please report that also.

W

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**All Co-op Electric Outages 837-1400**

## A reminder from Selective Service

Male citizens or aliens residing in the U.S. who were born in 1960 or later year, must register with Selective Service within 30 days of their 18th birthday.

Registration is a simple process which requires the registrant to supply his name, address, date of birth, social security number and telephone number. He should bring identification when registering.

The registration form may be completed at any classified U.S. Post Office, station or branch.

The purpose of registration with selective service is to have a list of names and addresses for use in the event of a mobilization in a national emergency. It is not a resumption of the draft. A draft could only be resumed with the approval of the Congress. The United States is still relying completely on volunteers for the armed forces.

On July 2, 1980, the President signed a proclamation calling for the registration of young men for the first time since registration was suspended in April of 1975.

No draft cards are issued. Within 90 days of his registration, a registrant will be mailed an acknowledgement letter and a form to report any change of address.

It is the responsibility of each person to register and to keep selective service notified of any change of address. Failure to register is a felony, punishable by a maximum fine of \$10,000 and/or five years.



**ENERGY-SAVING TIPS**  
 Fix leaky faucets. Insulate heater, pipes. Set thermostat at 120 degrees (140 degrees if you have a dishwasher).



Jack Grimm

## Grimm retires after 36 years of service

Jack Grimm of McDonough Power Cooperative has retired after serving 36 years as a lineman.

He began employment with the Cooperative in February 1947 as a groundman after working with a line construction company in the area. He rapidly progressed to journeyman lineman and has seen the Cooperative progress from a few hundred members to several thousand. Jack has trained many young linemen and will be missed by his co-workers due to his knowledge and experience.

A native of Industry and graduate of Industry High School, he and wife Libby reside in Macomb and are the parents of a daughter, Peggy of Maine, sons Joe of Florida, and Jim of Hawaii.

Libby is an instructor of nursing at the Spoon River College in Macomb.

Jack has been a leader in the Boy Scouts and is a member of a number of organizations.

We all wish Jack much happiness in his retirement.

## Illinois Home Energy Assistance Program

The Western Illinois Regional Council, 223 South Randolph Street, Macomb, has been designated as the local administering agency for the fiscal year 1983 Illinois Home Energy Assistance Program.

The purpose of the program is to provide financial aid to income eligible households seeking assistance in paying home heating bills this winter. The program is administered on the state level by the Illinois Department of Commerce and Community Affairs. In previous years, the program was administered locally by Carver Center in Galesburg. Payments will be made on behalf of eligible applicants on a first come, first served basis. Individuals are encouraged to apply early.

The Western Illinois Regional Council is located at 223 South Randolph, Macomb. The telephone number is area code 309-837-2997.

## What is a member?

- A "MEMBER" is the most important person in our business.
- A "MEMBER" is not dependent on us; we are dependent on him.
- A "MEMBER" is not an interruption in our work; he is the purpose of it.
- A "MEMBER" is part of our business; not an outsider.
- A "MEMBER" does us a favor when he calls.
- A "MEMBER" is not a cold statistic; he is a human being with feelings.
- A "MEMBER" is not someone to argue or match wits with.
- A "MEMBER" is deserving of the most courteous and attentive treatment.
- A "MEMBER" is the lifeblood of this, and every electric cooperative.

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- Ends sanding—scraping—spraying—chipping—steel-wool FOREVER!
- Amazing European discovery turns layers of paint to a single sheet of 'paper' so it peels away just like you'd lift and turn the pages of a book!

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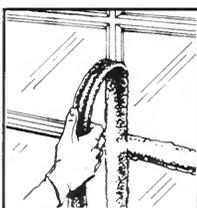
There's no dust up. No clean up. Just a single peel-away action restores the bare, original finish . . . good as new in a flash!

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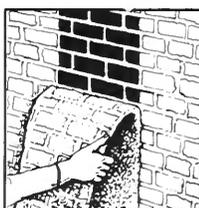
Called 'Peel-Away', this new wonder-formula has been officially registered with Gov't. patent offices throughout the World. It is completely odorless—completely safe! Reacts only with paint, varnish, lacquer or shellac . . . nothing else! So you can use it on even finest furniture, precious art frames, why even delicate wicker or valuable painted-over marble. In fact, it is so safe, so gentle, it is used by London's British Museum and world-famous art galleries to strip old art frames and century-old paneling. Even used by antique dealers to strip down priceless furniture treasures for restoration. Yes, 'PEEL-AWAY' literally lifts away every last layer of old paint even from hard-to-get-at places such as impossible-to-reach windowpane corners . . . grooved molding . . . finely tooled woodwork, etc., etc.

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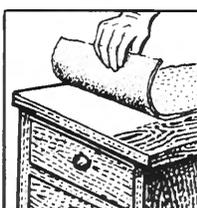
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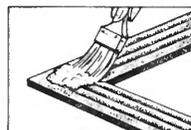
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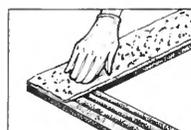
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So for the new low-cost, super-fast way to peel away old paint . . . lift away old lacquer, varnish and shellac . . . order PEEL-AWAY today on full money-back guarantee. REMEMBER: You must be able to simply coat . . . peel . . . lift and strip away up to 18 layers of old paint in a single peel-away action . . . without sanding, scraping, chipping or steel wool . . . or purchase price refunded in full. Order today.

### CLEAR & FREE 1-2-3!



**STEP 1:** Simply coat 'Peel-Away' wonder-formula over old, encrusted paint; (up to 18 layers thick)—



**STEP 2:** Cover treated area with magic-fibre 'Lift-tex' stripper-cloth, (included FREE). Let set and adhere to coated surface.



**STEP 3:** Right before your eyes paint turns to "paper" . . . lifts, peels, strips away IN A FLASH!

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### MAIL NO-RISK COUPON TODAY

Dumond Chemicals, Dept. PWWB-282, Dumond Place, Glen Head, New York 11545

Please RUSH me the quantity of the "PEEL AWAY" New Wonder Formula checked below. If I am not completely satisfied with the way it "peels away" up to 18 coats of paint with just one single application, I may return for a full refund (less postage and handling, of course.)

#### CHECK OFFER DESIRED

- Small Size (enough for up to 3-room apartment) only \$9.95 plus \$2 postage & handling.
- Homeowner Size (enough for regular size homes) only \$16.90 plus \$3 postage & handling. **YOU SAVE \$4.00!**
- Handyman's Super-Size (enough for use in homes with extensive outside trim) only \$31.95 plus \$4 postage & handling. **YOU SAVE \$11.85!**

Amount enclosed \$ \_\_\_\_\_ (NY residents please add sales tax) No C.O.D.'s please. **CHARGE IT!** (\$15 minimum charge)  VISA  MasterCard

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Div. Brand Name Testing, Inc.



## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

## Statement of non-discrimination

"McDonough Power Cooperative has filed with the Federal Government a Compliance Assurance in which it assures the Rural Electrification Administration that it will comply fully with all requirements of Title VI of the Civil Rights Act of 1964 and the Rules and Regulations of the Department of Agriculture, issued thereunder, to the end that no person in the United States shall, on the ground of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the conduct of its program and the operation of its facilities. Under this Assurance, this organization is committed not to discriminate against any person on the ground of race, color or national origin in its policies and practices relating to applications for service or any other policies and practices relating to treatment of beneficiaries and participants, including rates, conditions and extension of service, use of any of its facilities, attendance at and participation in any

meetings of beneficiaries and participants or the exercise of any rights of such beneficiaries and participants in the conduct of the operations of this organization."

"Any person who believes himself, or any specific class of individuals, to be subjected by this organization to discrimination prohibited by Title VI of the ACT and the Rules and Regulations issued thereunder may be himself or a representative, file with the Secretary of Agriculture, Washington, D.C. 20250, or the Rural Electrification Administration, Washington, D.C. 20250, or this organization or all a written complaint. Such complaint must be filed not later than 90 days after the alleged discrimination, or by such later date to which the Secretary of Agriculture or the Rural Electrification Administration extends the time for filing. Identity of complainants will be kept confidential except to the extent necessary to carry out the purposes of the rules and regulations."

**Offices closed  
Good Friday  
April 1, 1983**



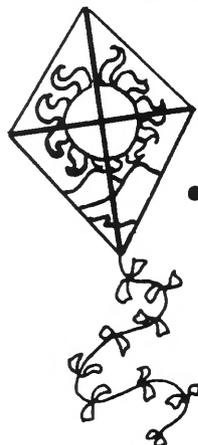
**Use care  
with wood  
stoves**

A recent survey of wood stove use in mid-Missouri showed that seven of 83 respondents used kerosene as their fire starter, two used gasoline and one used oil. Chimneys were inspected and cleaned once or twice a year by 63 percent. Only 46 percent had a smoke alarm. While University of Missouri sociologists and extension personnel who conducted the study are concerned that wood users are "living dangerously," they aren't sure their results represent typical wood stove use. But safety experts say the study emphasizes a national trend.

A recent report from the Federal Emergency Management Agency, U.S. Fire Administration, showed a 66-percent increase in fires in residences where wood stoves or fireplaces were used for heating.

The Agency said the reasons for the fires were the same safety mistakes shown in the UMC study: improper installation, combustible materials near the stove and a lack of maintenance — like checking for creosote formation in chimneys.

## Go Fly a Kite--- Safely



### Keys to carefree kite flying:

- Fly kites in the open— Far away from electric wires.
- Use dry kite string with no metal in it.
- If a kite does become caught in electric wires, don't climb a tree or pole to try and free it; let it go.
- Look left and right before crossing streets when kite flying.

W

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**McDonough Power Cooperative**  
 MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**



**Some things  
 never change!**

**A  
 woman's work  
 is never done**

Have you ever wondered what happened to all that time that your time-saving appliances save you? Well, relax, homemaker, you're not inefficient; you're using appliances and other modern conveniences to do more than ever for your family. Time-use surveys reported in *Scientific American* show that today's homemaker who is not employed outside the home actually spends more time in family-related tasks than women did in the 1920s — 55 hours a week now as opposed to 52 hours then.

On the average, homemakers spend five hours a week less preparing meals and cleaning up afterward than they did 50 years ago. One appliance manufacturer points out that clean-up appliances, such as dishwashers, and convenience foods probably account for most of this gain.

More time is spent today, on the average, in child care, shopping and other managerial tasks, and very surprisingly, in doing laundry.

In spite of the fact that automatic washers and dryers have come into the scene and ironing has been greatly reduced by modern fabrics and fabric coatings, the average time spent doing the laundry has increased in the last half century, if only by a little. Presumably the reason is that people have more clothes now than they did in the past, and they wash them more often. Of course, doing laundry today with the aid of automatic washers and dryers is far less uncomfortable and physically demanding than in the days of washboards and clotheslines.

What about women employed outside the home? In the 1920s it was unusual to find married women employed outside the home. Today, however, about 40 percent of married women are in the labor force. In contrast to the 55 hours a week nonemployed spend on housework, employed women spend just 26 hours a week.

One would expect that employed women, in an effort to "catch up" on

housework would spend more time at it on the weekends than do nonemployed women. Not so. Nonemployed women spend about an hour a day more on weekend housework than do employed women.

Several possible explanations for this could be: Nonemployed women may have larger families and/or younger children. Employed women may be able to use their earnings to buy labor-saving devices or services of others.

In any case, the old adage seems to remain true. While modern appliances, fabrics and foods have made it less demanding, "A woman's work is never done."

Editor's Note: After finding this interesting and giving it some thought, one reason may be added. The employed women, due to necessity, learns to organize her time and tasks, so that she manages to move faster in accomplishing household duties.

**Electric  
 stock waterers**

Do not forget to check your automatic electric stock waterer — now. We suggest you use a test lamp and screwdriver to test all connections. Make sure all grounding connections are secure. Watch how the cattle drink. If they bite at the water, some electrical current may be leaking into the water.

Check the thermostat. A run-away thermostat can cause high energy bills. Thermostats should be set so the thermostat comes on when water in bowl is three percent cooler than the temperature of incoming water.

Check these before you have any complications and save time and money, as well as a safety measure for your stock.

MAIL THIS MONEY-SAVING COUPON



## 100 GLADIOLUS BULBS

only \$1.00

If you send this Coupon NOW you can get 100 GLADIOLUS Bulbs for only a penny a bulb! These bulbs from the fertile fields of Michigan will produce a rainbow of blooms in stunning reds, blues, yellows, pinks, purples, whites, crimson, violet and multi-color. These bulbs are small, blooming varieties already 1 to 1½ in. circumference. Will produce many blooms this season and full normal blooms many years thereafter. Any bulb not flowering five years will be replaced. Act now to get these wonderful bulbs in time for spring planting. Send today only \$1.00 plus 40c towards postage and handling. Satisfaction guaranteed or return for full refund!

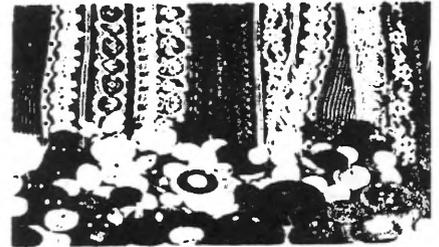
100 Glads, \$1.00     200 Glads, \$1.95

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ROCKWOOD GARDENS, Dept. GX-144, 1950 Waldorf, Grand Rapids, Mich. 49550

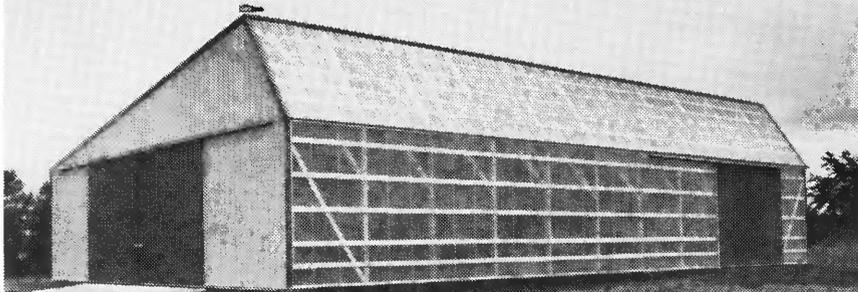


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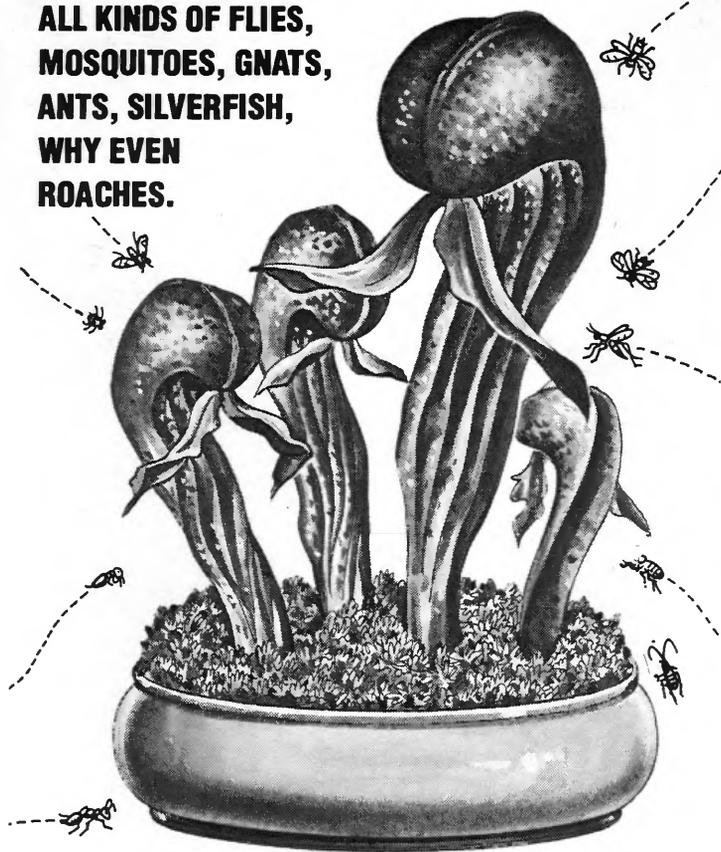
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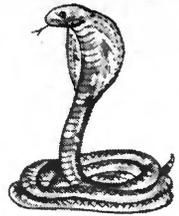
our patients now number in the thousands...all the way from Maine to California, Canada to South America, Florida to Washington.

ILLINOIS RURAL ELECTRIC NEWS

**TRAPS AND DEVOURS  
ALL KINDS OF FLIES,  
MOSQUITOES, GNATS,  
ANTS, SILVERFISH,  
WHY EVEN  
ROACHES.**



**AMAZING  
KING COBRA  
LILY** King Cobra Lily®  
Chirsamphora Californica



**DRAWS  
INSECTS  
RIGHT  
OUT OF  
THE AIR!**

**Off Walls—Even Off the  
Floor! Helps Rid Your Home  
of Insects—Pests  
ALL YEAR 'ROUND**

**GIVES OFF AN INVISIBLE HONEY-SCENT, INSECTS  
FIND IMPOSSIBLE TO RESIST! TRAPS THEM ON  
CONTACT, THEN KILLS THEM DEAD!**

Imagine if you can, one of the world's most breathtakingly beautiful house-plants . . . that to human eyes looks like a giant "flower show" Tropical Lily—but to insects that are unlucky enough to come near it, spells SURE, CERTAIN DEATH!

Yes, a wonder of nature that not only erupts with lavish displays of beautiful golden spring blooms . . . as it lines itself up like a squad of insect destroying sentries, mammoth heads on the constant alert against flying, crawling creeping insects that dare to invade your room and set foot near it.

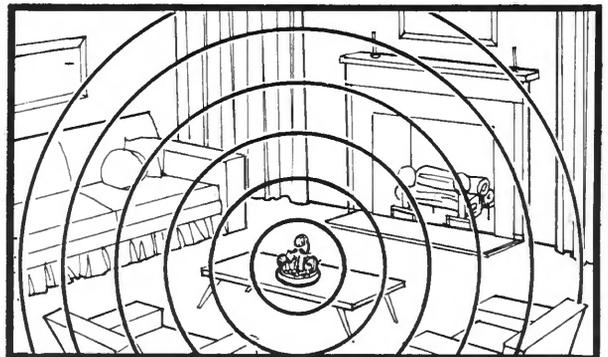
This is the 'double-wonder' that awaits you when your plant stands with its glorious trumpet of bloom . . . these Lavender King Cobra Lillies. Each and every plant grows so spectacular in size, so dazzling in beauty that a single giant-size bloom makes a corsage by itself . . . and just 3 or 4 plants transform an entire windowsill into a South Sea Island paradise . . . ever "on the lookout" for crawling and flying pests!

**BEST OF ALL—NEEDS NO SPECIAL NUTRIENTS BECAUSE IT FEEDS AND  
NOURISHES ITSELF . . . ON INSECTS!**

Truly a conversation-piece all by itself . . . plus a fascinating educational experience for both children and adults, too. Because there is simply no other plant in all of nature that gives you such TOTAL eye-stopping beauty PLUS anti-insect protection.

To put it simply, it is bound to leave your friends, family and house-guests absolutely spellbound . . . not only with its uncanny ability to lure and attract flying and crawling pests . . . trap them . . . digest them . . . and help keep an entire area insect-free ALL YEAR 'ROUND!

**BUT SUPPLIES ARE STILL SORELY LIMITED—WE MAY NOT BE ABLE  
TO REPEAT THIS OFFER THIS YEAR—ACT NOW!**



**ONE SINGLE PLANT PROTECTS AND  
DESTROYS YEAR AFTER YEAR AFTER YEAR.**

**KING COBRA, Dept. CLBA—52  
Roberts Lane, Glen Head, NY 11545**

YES, please rush me the amazing KING COBRA plant that traps and devours all kinds of creeping, crawling insects year after year. I must be pleased and delighted in every way or you will refund the full purchase price (less postage and handling of course) without question.

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Total amount enclosed \$ \_\_\_\_\_ (N.Y. Residents add sales tax)  
No C.O.D.'s please.

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City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

### Meter service policy

The following is a portion of the policy adopted by the Board of Directors on February 28, 1983, which pertains to meter services:

#### METER POLES

The Cooperative will furnish and install all meter loops. Consumer-member shall become the owner of said meter service by paying the Cooperative the current price of said service. The service shall be installed so meter is five feet to six feet from ground level. Adequate drip loop and conduit anchored with lag screws in straps four feet apart.

A feasibility study will be made by the Cooperative to determine the most economical type of construction, overhead or underground on new service request.

On an existing service where a meter pole is desired by the consumer-member, the consumer-member will pay one-half of the cost of construction, material, and labor cost.

#### SERVICE CHARGE FOR METER SERVICES

All loops will be equipped with breakers:

##### Single-phase

- 50 amp — \$ 75 + tax
  - 100 amp — \$225 + tax
  - 200 amp — \$325 + tax
  - \*400 amp CT — \$240 + tax
  - \*400 amp self contained \$240 + tax
- Anything larger will be at current cost.

##### Three-phase

- 200 amp — \$350 + tax
  - \*400 amp CT or self contained.
- \*Member requiring these services shall install disconnect switch between meter and load at or near meter location. Will be current cost.

#### UNDERGROUND

Existing overhead services may be buried if deemed feasible by the Cooperative on the following basis:

1. If change is necessitated by added load, the member will pay \$2 per foot, plus five percent tax, but not less than charges listed below.
2. If the change is not due to sufficient added load, member shall pay the full cost of the change.

#### SERVICE CHARGES FOR UNDERGROUND INSTALLATIONS

- 200 amp (no breakers) \$225 + 5% tax, first 150', \$2 + 5% tax/ft. over 150'
- 200 amp (w/breakers) \$325 + 5% tax first 150', \$2 + 5% tax/ft. over 150'
- 100 amp (w/breakers) \$225 + 5% tax first 150', \$2 + 5% tax/ft. over 150'
- 400 amp (self contained) \$240 + 5% tax first 150', \$2 + 5% tax/ft. over 150'

Must be mounted on building or post supplied by member. The Cooperative will install the above service to a meter pedestal. From pedestal, will be the responsibility of the member.

#### SERVICE CHARGE CREDITS

Trade in value of meter loop will be determined by the Cooperative and will not exceed one-half the current price of meter services.

#### METER SERVICE MARKINGS

All loops will be stamped above meter base with loop number and size. Location number will be put in tape on all loops before installation.

### Cooperative's annual meeting

The Cooperative's Annual Meeting will be held at the Fellheimer Auditorium in Macomb Senior High on Wednesday, August 31, 1983. Watch for details in a later IREN.



If you were asked to name the nation's largest industry, what would you name?

It also happens to be the world's largest commercial industry. It's American agriculture, with assets exceeding one trillion dollars. This industry employs more than 23 million people, 22 percent of America's labor force. The agricultural industry includes farming, transporting, processing, manufacturing and retailing food and fiber. The combined agricultural industry accounts for \$432.7 billion — 20 percent — of the Nation's Gross National Product.

In one year, one farmworker produces an average of about 104,000 pounds of food. That is 52 tons. One farmworker provides food and fiber for himself plus 77 other people. In the past 20 years, agricultural productivity per hour worked on the farm has increased more than three times faster than industrial productivity per hour worked. The farmer is an exporter, too. In 1981, the U.S. exported nearly 44 billion dollars' worth of farm products, giving us a favorable balance of trade in agriculture of almost 27 billion — which cut in half our \$52 billion deficit in nonfarm trade. If you would like to honor this efficient, industrious citizen, I hope you gave him thought on March 21, the day proclaimed as "National Agriculture Day" by the President of the United States.

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McDonough Power Cooperative  
 MACOMB, ILLINOIS 61455

All Co-op Electric Outages 837-1400

## Average cost of operation

To check your appliances, find the nameplate wattage and use it in the following formula:

$$\frac{*Watts \times \text{Hours Used Per Day} \times \text{Number of Days}}{1,000} = \text{KWH}$$

\*This table is based on average wattages of appliances and an average kilowatt-hour cost.

This cost of operation table is based on one hour's usage. To determine the cost, simply multiply the hourly cost by the number of hours on, or the fraction of an hour on. Costs are based on six cents per kilowatt-hour.

### \*Thermostatically controlled

Some appliances, such as a clock, fan, or washing machine, use electricity the entire time they are turned on. Other appliances such as an oven, iron, or frypan, cycle on and off. Estimates of "on" time are based on the time the heat element is on and will be less than the actual time the appliance switch is on.

For example, for every hour that an oven is baking, it is using electricity about 15 minutes. Therefore, the "on" time is 15 minutes or ¼ hour.

Operating costs of water-using appliances such as the dishwasher and clothes washer are low. But the additional cost of heating water must be figured in.

Appliance	Average Wattage	Avg. KWH Per Month	Cost @ \$.06	Hours Used Per Day	Your KWH Per Month
Blanket	180	15	.90		
Blender	350	1.5	.09		
Broiler Oven	1450	7	.42		
Bulbs	75	22.5	1.35		
Carving Knife	100	.5	.03		
Clock	2	3	.18		
Clock Radio	10	5	.30		
Coffee Perculator	750	8	.48		
Deep Fat Fryer	1525	7	.42		
Dishwasher	900	40	2.40		
Disposer	450	2	.12		
Dryer (Clothes)	4200	140	8.40		
Electric Rollers	300	1	.06		
Electric Skillet	1200	16	.96		
Fan (12" oscillating)	80	3	.18		
Fondue Pot	750	1.5	.09		
Freezer 15 cu ft Frostless	750	160	9.60		
Hair Dryer - Hand held	700	2	.12		
Hood type	1400	5	.30		
Hot Plate (Single)	850	5	.30		
Iron (automatic)	1150	15	.90		
Microwave Oven	1500	15	.90		
Mixer - Hand held	100	1	.06		
Table model	125	1	.06		
Night Light	7	3	.18		
Oven - Bake element	3500	45	2.70		
Broil element	3200	5	.30		
Popcorn Popper	525	1	.06		
Radio	8	1	.06		
Range - 6" element	1300	25	1.50		
8" element	2300	25	1.50		
Refrigerator 14 cu ft (Frostless)	650	160	9.60		
Sewing Machine	90	1	.06		
Shaver	15	.5	.03		
Slow Cooker	150	4	.24		
Stereo	150	10	.60		
Sun Lamp	400	2	.12		
Television B & W 19" (60% solid state)	130	25	1.50		
Color 19" (60% solid state)	250	50	3.00		
Toaster	1250	3	.18		
Toothbrush	2	1	.06		
Trash Compactor	800	1	.06		
Typewriter	100	.5	.03		
Vacuum Cleaner	630	4	.24		
Waffle Iron	1200	2	.12		
Washer (Clothes)	800	15	.90		
Water Heater -	4500	350	21.00		

\*Watts = AMPs x Volts

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**Bonanza Buildings, Inc.**  
P. O. Box 9, Charleston, IL 61920

ILRE1

# energy efficiency

too, but it will not do as good a job as groundwater, because the temperature fluctuates. Still, using an existing pond may be a better bet than drilling a new well or two.

For those not fortunate enough to have a good water supply, there is yet another alternative, but its attractiveness is somewhat dampened by its fairly stiff initial cost. It is called a "closed loop earth-coupled system," and it involves laying a large grid of plastic piping about six feet underground, where the temperature remains fairly constant all year long.

After filling the loop with water, you connect your water-to-air heat pump in the usual way. The earth's insulating properties take over from there, providing a home-grown source of even-temperature "groundwater," even when the winter winds are howling outside.

About 20,000 of the systems are perking away, mostly in Canada, Sweden and Germany, and there is no great hurdle to making them work here, too, except the initial cost. You will need to buy about 400-500 feet of pipe for each ton of air-conditioning capacity on the cooling side of your heat pump. The average 1,500-square-foot home, incidentally will have about a two-ton unit.

After swallowing the initial cost, you have a system capable of providing years of relatively low-cost heating and cooling.

To summarize, a heat pump is a good way to heat and cool your home with one unit, and a water-to-air heat pump is better yet, because of increased efficiency.

A study performed in early 1982 showed that for a home requiring 100-million British thermal units (Btu's), a groundwater heat pump cost only \$3.59 more to heat for a winter than a well-maintained natural gas furnace with spark ignition and an automatic flue damper. To heat the same home with a propane furnace

May 1983

To: **A. I. E. C. Publications**  
**P. O. Box 3787**  
**Springfield, Illinois 62708**

Please mail me \_\_\_\_\_ copies of the publication  
**"Home Weatherization"**  
 (For each copy, enclose \$2.00 to cover the cost of the book and pay postage and handling.)

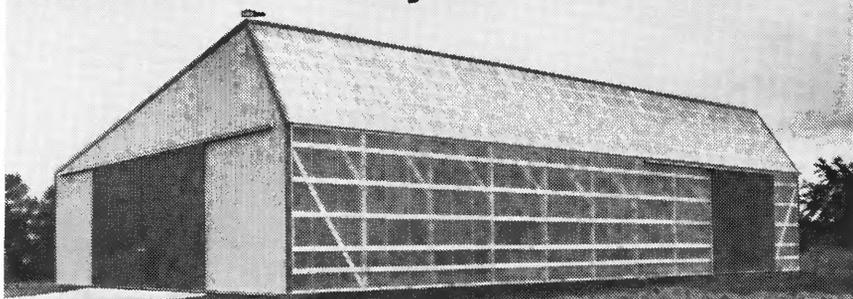
Please Print Name \_\_\_\_\_

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City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

giving 75 percent efficiency would cost \$477 more than the water-to-air heat pump, and a fuel oil furnace would have burned \$573 more of your dollars than a groundwater heat pump.

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- Paris**..... Wilson Contracting • 217-275-3411
- Princeville**..... Paul Streitmatter • 309-385-4848
- Royalton**..... Robert Smith • 618-984-4470
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- Wataga**..... Harold Bramlett • 309-375-6470
- Waterman**..... Little Enterprises • 815-264-3302
- West Salem**..... George's Farm Supply  
618-456-8461

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414-279-5424 or 815-895-9218

Selected dealer territories available. Contact: Wick Buildings, Mazomanie, WI 53560



## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

### New McDonough policy

## Member charges and overtime calls

The following is a portion of the policy adopted by the Board of Directors on March 28, 1983, which pertains to members charges and overtime calls.

When a member or other person or party requests additions or adjustments to Cooperative plant for which the requesting party will be billed, following are the charges. Examples of this type of work would be pole, line, guy moves, and building moves.

#### **RATES:**

Labor — \$19.50/man hr. \$26 overtime  
Mileage — 52¢/mi. for certain trucks  
Hydraulic equipment — \$50.00/hr.  
Trenches — 40¢/ft.

Mileage will be charged only for that portion of the trip that is out of the normal travel plan. Hydraulic equipment will be charged proportionate to the portion of the day that it is involved in the job order.

#### **OVERTIME CALLS:**

Charges will be made for overtime calls that are requested by the member for a connect or reconnect, or for restoring service due to fuses, breakers, or equipment that is normally under the member's control.

The member will be queried on his efforts to restore service by checking fuses and breakers, and given as much help and advice as necessary to accomplish this.

Should the member elect to have the Cooperative restore the service, the member will be advised as to the overtime charges and must agree to them before dispatching a crew.

The charges for overtime calls will be a minimum of \$68 plus any materials used. Overtime calls for reconnect of a delinquent account will be made

only if the member agrees to pay the delinquent account, plus the overtime service charge at the time the reconnect is made.

The alternative to the overtime call is to have the service restored during regular working hours when the charge will be \$19.50 plus tax.

## Loans for rural areas

The U.S. Department of Agriculture provides loans in rural areas to finance homes and building sites. Rural areas include open country and places with population of 10,000 or less and, under certain conditions, towns and cities between 10,000 and 20,000 population. Home ownership loans may be used to buy, build, improve, repair or rehabilitate rural homes and related facilities, and to provide adequate water and waste disposal systems. The funds may also be used to modernize homes — add bathrooms, central heating, modern kitchens and other improvements. Under certain conditions, funds may be used to refinance debts on a home. Home ownership loans are offered to help families with low and moderate incomes. These families must:

- Be without decent, safe and sanitary housing.

• Be unable to obtain a loan from private lenders on terms and conditions that they can reasonably be expected to meet.

• Have sufficient income to pay house payments, insurance premiums and taxes, and necessary living expenses. Persons with an inadequate repayment ability may obtain co-signers for the loan, and

• Possess the legal capacity to incur the loan obligation.

You can make your application for a loan at the Farmers Home Administration county office serving the area in which your house or farm service buildings will be located. If you cannot find the county office in the local telephone directory, write to the Farmers Home Administration, U.S. Department of Agriculture, Washington, D.C. 20250.

### **A 'recipe' for a hot summer day**

#### **BOILED WIFE:**

Take one cool, fresh good-natured wife.

Add three small children, a yelping dog and a cranky neighbor.

Stir well.

Blend in equal parts of heat, humidity, dust and stale air.

Baste with annoying phone calls,

spilled milk, skinned knees, doctor appointments that won't keep. A big ironing to do, and jelly smeared on the rug.

Top with a splitting headache.

Let mixture simmer in a 98 degree home for 10 hours, or until boiling point is reached.

Test by arriving home from your air-conditioned office with the cheerful greeting: "Have a nice day?"

Stand back!

ILLINOIS RURAL ELECTRIC NEWS

W

**DIRECTORS**  
 Donovan Lawyer, President  
 Max Welsh, Vice President  
 Bill Pollock, Secretary  
 Harold Anderson, Treasurer  
 Wade Blansett  
 Howard Butler  
 Thomas Curtis  
 Kenneth Moore  
 Lyndall Pigg  
 John D. McMillan, Attorney

# McDonough Power Cooperative

MACOMB, ILLINOIS 61455

## All Co-op Electric Outages 837-1400

### AGRICULTURE QUIZ

Agriculture is our nation's biggest and most important industry, with assets totaling \$1.1 trillion—equal to 88 percent of the capital assets of all manufacturing in the United States, according to the Agriculture Council of America.

The Council reports that more than 23 million people are employed in the food and fiber system, growing providing equipment and seed, processing, transporting and retailing food.

How much do you know about America's number one industry? The following quiz, developed by the Agriculture Day Foundation, will test your knowledge.

#### QUESTION 1

Which state was the leading producer of each of the following commodities in 1981? Match the commodities in column 1 with the states in column 2 (there's only one selection for each state).

##### Column 1

1. apples
2. beef cattle
3. blueberries
4. catfish
5. corn
6. cranberries
7. dairy products
8. eggs
9. mushrooms
10. oranges
11. peanuts
12. popcorn
13. potatoes
14. rice
15. sorghum (a feedgrain)
16. soybeans
17. timber
18. tobacco
19. turkeys
20. wheat

##### Column 2

- a. Arkansas
- b. California
- c. Florida
- d. Georgia
- e. Idaho
- f. Illinois
- g. Iowa
- h. Kansas
- i. Massachusetts
- j. Michigan
- k. Minnesota
- l. Mississippi
- m. Nebraska
- n. North Carolina
- o. North Dakota
- p. Oregon
- q. Pennsylvania
- r. Texas
- s. Washington
- t. Wisconsin

#### QUESTION 2

In how many of the 50 states are the following commodities produced for commercial use? Indicate the number in the space provided.

- a. cotton \_\_\_\_\_
- b. hogs \_\_\_\_\_
- c. sugar cane \_\_\_\_\_

Source: Crop Production and Livestock and Poultry Situation Reports, U. S. Department of Agriculture.

#### ANSWERS

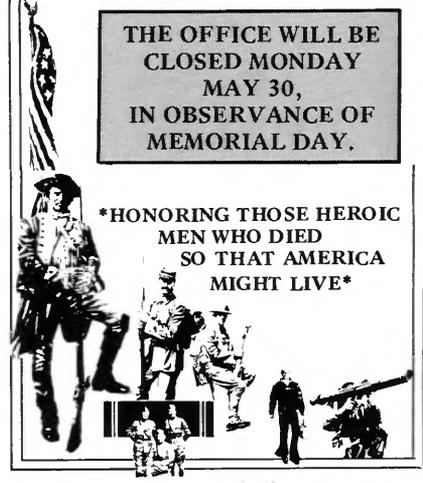
- a) 18. Alabama, Arizona, Arkansas, California, Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, Nevada, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia.
- b) All 50 states.
- c) 4. Florida, Hawaii, Louisiana and Texas

#### QUESTION 2

QUESTION 1-1-s; 2-r; 3-j; 4-l; 5-g; 6-i; 7-f; 8-b; 9-q; 10-c; 11-d; 12-m; 13-e; 14-a; 15-h; 16-f; 17-p; 18-n; 19-k; 20-o.

### Memorial Day '83

THE OFFICE WILL BE  
 CLOSED MONDAY  
 MAY 30,  
 IN OBSERVANCE OF  
 MEMORIAL DAY.



\*HONORING THOSE HEROIC  
 MEN WHO DIED  
 SO THAT AMERICA  
 MIGHT LIVE\*

### Patronage capital report for 1981

The by-laws of your cooperative state in no event shall the total of the general fund reserves for renewal and replacement of plant, debt service, operation and maintenance funds to cover possible storm damage and other hazards, be less than fifteen percent (15%) of total utility plant.

Should the emergency use, such as replacements due to storm or construction from reserves in place of loan funds, reduce these general fund reserves below 15 percent of the total utility plant, then the patronage refunds are assignable only on the books of the cooperative.

Capital credited to the account of each member for the year 1981 is assignable only on the books of the cooperative.

The percentage factor for the year 1982 is .069563. This percentage factor is applied against the amount of revenue you paid the cooperative for the year 1981.

If you would like to know the dollar amount that is assigned to your particular account, call your cooperative office, giving your name and service account number.

# SPECIAL INTRODUCTORY OFFER!

# GLEAMING GIANT TUNED CHIMES

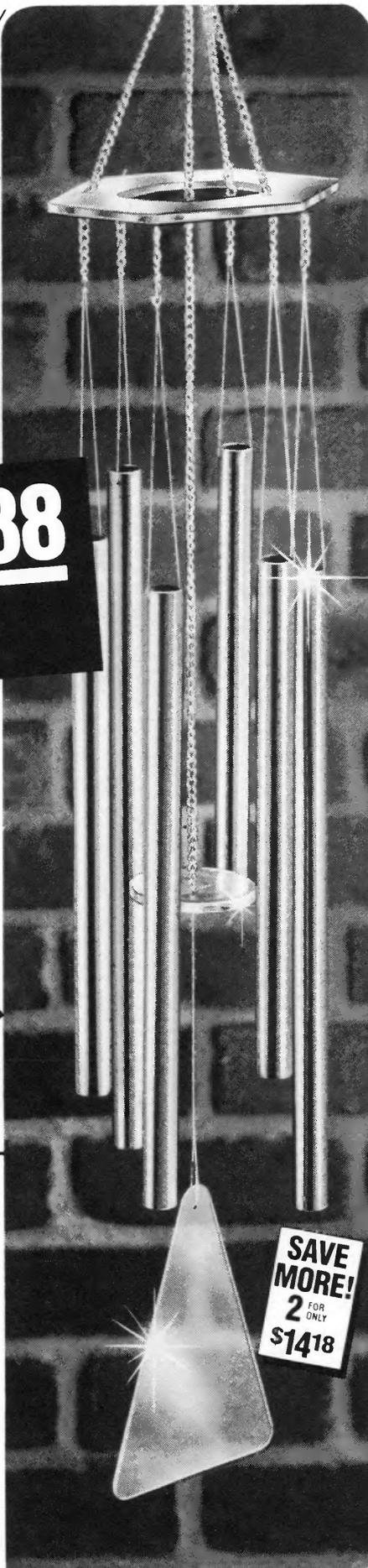
**SALE \$7<sup>88</sup>**  
 SAVE 80% OFF  
 THE NATIONALLY  
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## CREATE A HEAVENLY CONCERT!

The loveliest sounding chimes you'll ever hear! Unlike other chimes, they neither tinkle nor clang. Each of five steel tubes is carefully tuned to ring a different tone—harmonizing beautifully with its companions in endless variation. Orchestrated by the wind, their mellow sound & deep resonance will charm anyone who hears them! Brass-plated tubes; crystalline yoke & clapper. 4 ft lg.

**NO RISK GUARANTEE:**  
 You must be completely satisfied with your purchase or we will refund your money promptly—no questions asked!

**GLOWS  
WITH THE  
LUSTER OF  
POLISHED  
BRASS!**



**SAVE  
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2 FOR  
ONLY  
\$14<sup>18</sup>**

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- SAVE \$3.08 MORE! Order 2 Giant Tuned Chimes for only \$14.18 plus \$3.50 postage & handling

Add State Sales Tax (see chart) \_\_\_\_\_

Add Insurance (lost or damaged orders will be replaced) \_\_\_\_\_ .45

I enclose  Check or  Money Order for Total \$ \_\_\_\_\_

Charge to:  American Express  MasterCard  
 Visa  Diners Club

Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

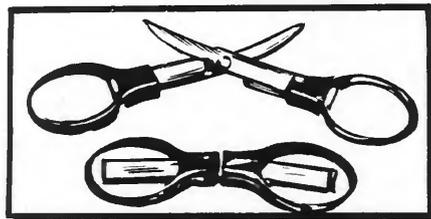
Print Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

STATE SALES TAX CHART: Residents of these states must add Sales Tax listed: OK 2%; AR, CO, IA, KS, LA, MO 3%; NE, NM 3 1/2%; AL, AZ, GA, IL, MI, NC, SC, VA, VT 4%; MN 4 1/4%; FL, IN, KY, MA, ME, MS, SD, TX, UT, WI, WV 5%; OH 5 1/2%; NV 5 3/4%; CA, MN, NJ, PA, RI, TN 6%; WA 6 2/4%; NY 7%; CT 7 1/2%; NYC 8 1/4%

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## DELUXE FOLDING SCISSORS 79¢

An open & shut case of convenience. Quality steel blades, cushioned plastic handles, ingeniously engineered to fold to absolutely safe 3" size to slip easily into pocket, purse, sewing kit, first aid kit, glove compartment, tackle box, etc. Great for in-store coupon clipping. Vinyl case included. A great value at only 79¢ Pr., 2 Pr. \$1.50, 6 Pr. \$4.25, 1 Dz. \$7.95 ppd. Fund Raisers write for quantity prices. Money-back guarantee. Pls. allow up to 6 wks. for delivery.

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 1602 Locust St. St. Louis, Mo. 63103

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ILLINOIS RURAL ELECTRIC NEWS



Harry Kuhn

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use the coupon on page 8.

**HOME WEATHERIZATION**  
For lower-cost living comfort

Published by  
the Electric Cooperatives of Illinois

**End weeding  
chores forever!**

Stop fighting garden weeds! The amazing Mantis-20 Tiller/Cultivator ends the "weed cycle" with no chemicals...no back-breaking labor!

Use the Mantis-20 to prepare your garden soil for planting...then as your garden grows, use Mantis to *destroy harmful weeds* ...quickly and easily.

Makes your garden the showplace of the neighborhood.



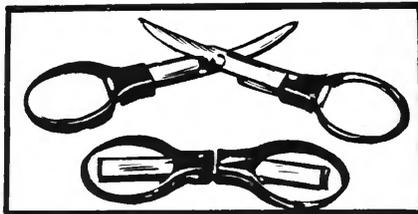
**The Mantis-20 Tiller/Cultivator:**

- Priced 1/3 to 1/2 the cost of big tillers
- Lightweight...only 20 pounds
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- High-speed tine teeth work fast, dig deep
- Does 7 jobs in all for yard and garden
- Special Discounts available now!

Mantis Manufacturing Co.  
2651 Huntingdon Pike  
Dept. 200  
Huntingdon Valley, PA 19006

Please send complete information on the Mantis and all its attachments!

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TOWN \_\_\_\_\_  
STATE \_\_\_\_\_ ZIP \_\_\_\_\_



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An open & shut case of convenience. Quality steel blades, cushioned plastic handles, ingeniously engineered to fold to absolutely safe 3" size to slip easily into pocket, purse, sewing kit, first aid kit, glove compartment, tackle box, etc. Great for in-store coupon clipping. Vinyl case included. A great value at only 79¢ Pr., 2 Pr. \$1.50, 6 Pr. \$4.25, 1 Dz. \$7.95 ppd. Fund Raisers write for quantity prices. Money-back guarantee. Pls. allow up to 6 wks. for delivery.

**TWO BROTHERS, INC.** Dept. FS-585  
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**Canning Lid Sterilizing Rack**

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 Please have a salesman call.



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CITY \_\_\_\_\_  
STATE \_\_\_\_\_ ZIP \_\_\_\_\_

REN I



## manager's report

by Robert E. Pendell, Manager

# watts ne

IREN SUPPLEMENT

## Board appoints nominating committee

In accordance with Article III, Section 4, of your Cooperative's bylaws, the nominating committee must be appointed no less than thirty (30) days nor more than 120 days before the annual meeting of members. The McDonough Power Board of Directors appointed the following members to the 1983 nominating committee at their regular board meeting May 23, 1983.

District 1	Delbert Woodford Michael Cox
District 2	Steven Terstrup
District 3	Jr. C. Runner Richard Smith
District 4	Kenneth Baker

District 5	Dan Wolf
District 6	Clifton Torrance
District 7	Wendell Horney John Ewen
District 8	Ray Musser
District 9	James Osborn

The nominating committee will meet July 6, 1983 at 7 p.m. at the Holiday Inn, Macomb, Illinois.

The committee will nominate three (3) directors for three-year terms to represent the members of your Cooperative for the following districts: District 1, currently represented by Wade Blansett, which is the one-half of Scotland Township and the last one-half of Chalmers Township in

McDonough County. District 3, currently represented by Bill Pollock, which is Hancock and Fountain Green Township in Hancock county and Colchester, Tennessee, the west one-half of Chalmers, and Hire Township in McDonough County. District 7, currently represented by Harold Anderson, which is Raritan, Point Pleasant, Swan Creek, Greenbush, and Media Townships in Warren County.

These names are provided for you in advance so that if you have any recommendations to make to this committee before they meet, you will know who the committee members are.

## Now is time to start planning what to do with garden harvest

While waiting for those vegetable seeds to do their thing and present you with a bumper crop for eating and canning, there's no point in just sitting in the garden and talking to the seeds. As Confucius would have said if he'd thought about it, "A watched bean never sprouts." Spend the time, instead, getting your canning equipment in order. For just about all vegetables except tomatoes, you will need a steam-pressure canner. If you inherited yours from somebody's attic, you might do better by getting a new one. The old one may be okay if the instructions for its use are still available as well as replaceable parts.

To get your equipment ready: Draw a string or narrow strip of cloth through the pet cock and safety-valve openings of your steam-pressure canner. Do this at the start and often during the canning season.

Check the pressure gauge. Thor-

oughly clean a weighted gauge.

Check a dial gauge — whether old or new — before the canning season and also during the season if you use the canner often. Ask your county home demonstration agent, dealer or manufacturer about checking it.

If you're canning tomatoes or fruit — they're acid foods — you can use a water-bath canner. If your steam-pressure canner is deep enough, you can use it for a water bath. Put on the cover, but do not fasten it. Leave the pet cock wide open so the steam escapes.

Check glass jars and wash in hot, soapy water and rinse well. Discard any with cracks, chips, dents, or rust. Defects prevent airtight seals.

For detailed information on home canning of fruits and vegetables, write for a free bulletin to: Home Canning of Fruits and Vegetables, Agriculture Radio, Washington, D.C. 20250.

**Cooperative  
office to be  
closed  
Monday,  
July 4**

**DIRECTORS**  
 Donovan Lawyer, President  
 Max Welsh, Vice President  
 Bill Pollock, Secretary  
 Harold Anderson, Treasurer  
 Wade Blansett  
 Howard Butler  
 Thomas Curtis  
 Kenneth Moore  
 Lyndall Pigg  
 John D. McMillan, Attorney

## McDonough Power Cooperative

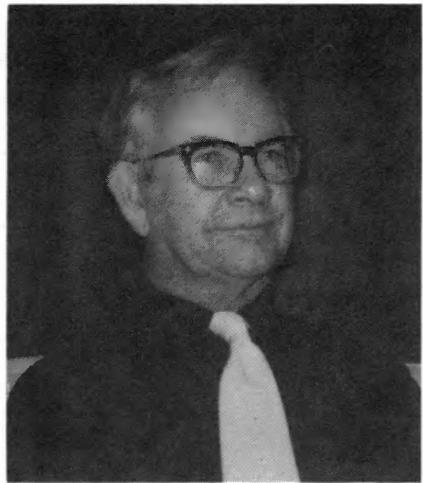
MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**

# Stanley Wright retires

Stanley Wright of McDonough Power Cooperative has retired after serving 34 years as system engineer. He began employment with the

Cooperative in June 1949 as system engineer after graduation from University of Kansas at Lawrence as an electrical engineer.



*Stanley Wright*

A native of Susquehanna, Pa. and graduate of Susquehanna High School, he served in the Army Air Force as a Sergeant during World War II. He and his wife, Dorothy, live just south of Macomb and are the parents of four daughters: Judy of Cary; Linda of Chicago; Jeanne of Quincy; and Sandi of Jacksonville; all in Illinois.

Stanley has engineered much of the construction of the Cooperative growth through the years and has seen it grow from a few hundred members to almost 5,000 members.

He will be missed by his co-workers and we all wish him much happiness in retirement.

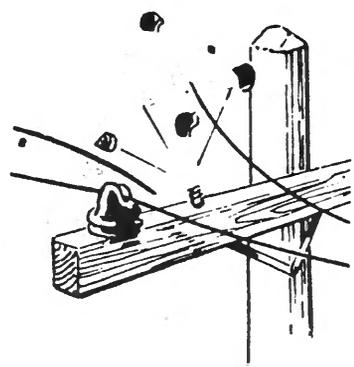
## Preventive maintenance helps control costs of cooling

If you want your air conditioning to work properly, it is necessary to do some preventive maintenance such as making sure the filter is clean. Set up a monthly routine of cleaning or replacing this filter. This not only gives you more cooling capacity, but will reduce the operating cost. Next, check to see if the outside condensor coil is free of dirt or foreign particles such as grass or leaves. If this air flow is restricted, it is a sure way to destroy the compressor unit because this prevents the air from flowing through the outside condensor coil and removing the heat from the gases which are pumped through it. If the gas returning to the compressor is at a higher temperature than the compressor can operate, there is a good chance of destroying the windings within the compressor motor.

Be sure to check the inside coil, which is the evaporator coil. This is the part of the system that condenses the moisture in the air and reduces the humidity level within the home. Since this coil operates under a damp condition, there is a good chance of dirt or lint sticking to the coil and blocking the air flow. This prevents the unit from circulating enough air through coil and reduces the cooling capacity of the unit and also causes the unit to operate much longer to lower the temperature to the desired level within the home.

Some of the maintenance will require trained refrigeration or air conditioning personnel to clean the coils to be sure that the unit is operating properly.

### Shooting Insulators Can be Deadly Game!



### No Need for this Kind of Action

"Marksmen" come in several flavors. One is the "I can hit anything." Another is the "haven't seen any game at all - what is there to shoot at?" There are the "let's see who can hit it first." And the "I'll bet this will get some action."

If it is the latter, action usually begins when some "marksman" shoots at electric line insulators. This can very easily result in line crews being called out for emergency operation and many members out of electric service for extended periods of time. All because some "marksman" shoots up some line insulators for the "sport" of it.

Legitimate costs keep rising. This **illegitimate** cost is especially untimely. It's a factor in electric bills. An upward factor.

Gunners who pick electric equipment as targets are picking your pockets. If you care - report such goings on to us or to the authorities.

This is one expense we can all do without. One we can all work to cut. If we care to.



4507  
SIZES  
10½-20½



9329  
SIZES  
10½-20½



4964  
SIZES 6-20



9050  
SIZES 34-50



4996  
SIZES 8-20



9413  
10½-26½



9048 WAIST SIZES  
24"-34"



9195  
SIZES  
34-50



9420  
10½-22½



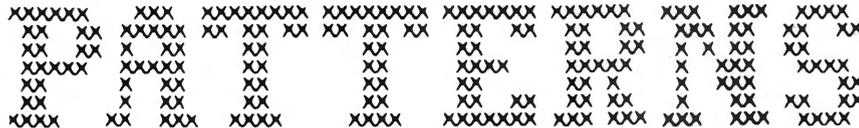
9346  
SIZES  
2-8



4531  
SIZES  
8-20



9174  
SIZES 6-20



- No. 4507 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) takes 1-7/8 yards 60-inch fabric.
- No. 9329 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) dress takes 1-5/8 yards 60-inch.
- No. 4964 is cut in Multi-size pattern. Sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 9050 is cut in Women's Sizes (34, 36, 38), (40, 42, 44), (46, 48, 50). Order your regular size.
- No. 4996 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3/4 yards 45-inch fabric.
- No. 9413 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2¼ yards 60-inch.
- No. 9048 is cut in Waist Sizes 24, 25, 26½, 28, 30, 32, 34. Size 26½ wrap 2 yards 45-inch; other 1-7/8.
- No. 9195 is cut in Women's Sizes 36, 38, 40, 42, 44, 46, 48, 50. Yardages given in pattern.
- No. 9420 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 4½ yards 45-inch.
- No. 9346 is cut in sizes 2, 4, 6, 8. See patterns for yardages.
- No. 4531 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 2-5/8 yards 45-inch fabric.
- No. 9174 is cut in sizes (6, 8, 10, 12) (14, 16, 18, 20). Order your regular size.

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Illinois Rural Electric News  
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Springfield, IL 62708

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# Highlights

(Continued from page 5)

Among the many notable experiences for Illinois youth participating in the 1983 Tour were visits to Gettysburg National Military Park, new National Aquarium at Baltimore, Air and Space Museum at the Smithsonian Institution, Library of Congress, Mt. Vernon, Arlington Cemetery, Lincoln Memorial, Washington Monument, Jefferson Memorial, Viet-

nam War Memorial and National Zoo.

A large number of the students on the tour were winners of all-expense-paid trips as winners of their local cooperatives' essay contests. Others participated as "Willie Wiredhand" tourists, including students who did not win their cooperatives' contest and children and grandchildren of cooperative directors and employees, who are not eligible for the essay competition. "Willie" participants pay all their own expenses.

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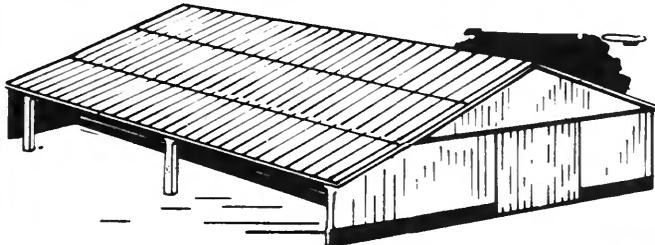
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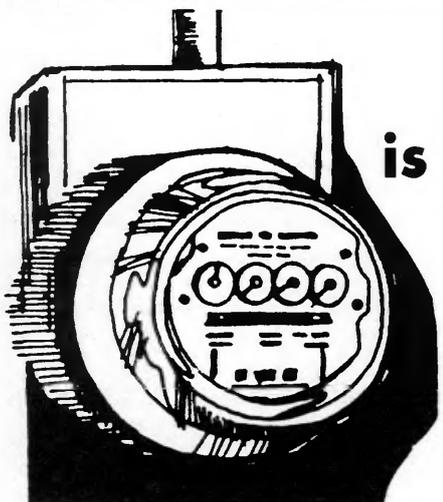


## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT



Tampering with a meter, unauthorized connection of a service or diverting electric energy for the purpose of reducing kilowatt-hour registration or to avoid payment for energy used is an

## Stealing electricity is stealing from your neighbors

unlawful act, punishable by up to six months in prison or by a fine up to \$500 or some combination of both. A person guilty of such intent to defraud shall be guilty of a Class B misdemeanor.

The following is an excerpt from the Illinois Revised Statutes, Chapter III 2/3: "Any person, who with the intent to defraud, tampers with, alters, obstructs or prevents the action of any meter, register or other counting device which is a part of any mechanical or electrical machine, equipment or

device which measures service, without the consent of the owner of such machine, equipment or device, shall be guilty of a Class B misdemeanor."

The few persons guilty of such fraudulent practices are stealing from the cooperative and thus increasing the cost of electric service to all members.

If you know of such a practice, we urge you to contact your cooperative immediately. If you prefer, you need not identify yourself. If you will give us the location, we will conduct an investigation.

## Is yours the 'magic' mile?

If the Co-op constructed a power line across your land some time in 1981, who knows, you may have the magic two-millionth mile of rural electric line running across your property.

Statistics released by the Rural Electrification Administration (REA) show that in 1981, rural electric co-ops borrowing from REA constructed and energized 30,746 miles of line, crossing the two million mark for a total of 2.09 million miles that have been built since the first REA-financed line was energized in 1935.

It took twice as long — 31 years — to construct the second million as it did the first. That fact gives you an idea of how feverish and fantastic was the growth of rural electric systems in the years just prior to and after World II. The rural electric co-ops built their first million miles in an incredibly short 15 years, going from absolute

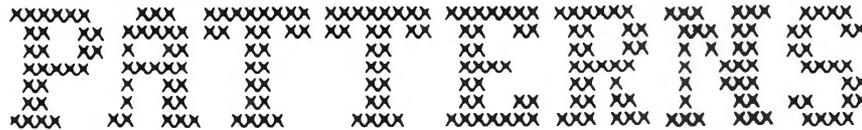
zero in 1935 to the one million mark — plus 88,000 — in 1950. More than 145,000 miles were erected and energized in that one year. But 1950 was not the record year for construction. In 1949, 184,000 miles had gone up — more than 15,300 miles a month and nearly 700 miles a working day. Rural electric pioneers will recall, however, that the co-op crews and the contractors didn't work the standard five-day week. It was a weekend, and even tractor light-by-night task that had co-ops working at breakneck pace to meet the pent-up demand of rural people for their long-awaited electricity after the materials short war years. The 15-year, million-mile record is even more astounding when it is noted that only 128,000 miles went up between 1942 and 1945. In 1946 alone, 61,000 miles were built. Ninety-seven thousand miles were erected in 1947, 156,000 in 1948 and the record

184,000 in 1949.

The year 1950, which marked the millionth mile, would be the last time line construction went above the hundred thousand mark. Since then, REA-financed line construction has averaged a little over 29,400 miles a year.

**Cooperative  
office will be  
closed  
Monday,  
September 5,  
1983**





- No. 4884 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-3/8 yards 60-inch.
- No. 9474 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 9482 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) ensemble takes 3-3/8 yards 60-inch fabric.
- No. 9432 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.
- No. 4553 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 4-1/8 yards 45-inch fabric.
- No. 4854 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 1¼ yards 45-inch; shirt 1-3/8.
- No. 9074 is cut in sizes (10½, 12½, 14½), (16½, 18½, 20½), (22½, 24½, 26½). Order your regular size.
- No. 4645 is cut in Women's Sizes 34, 35, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
- No. 4895 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-5/8 yards 60-inch.
- No. 9405 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2-7/8 yards 45-inch.
- No. 4517 is cut in sizes 34, 36, 38, 40, 42, 44, 46, 48, 50. See pattern for yardages.
- No. 9488 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.

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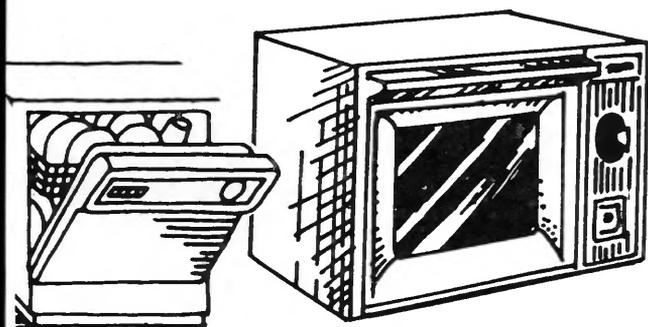
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energy efficiency

## Hot summer months

- Check the temperature in your refrigerator, too. Place an outdoor thermometer in the fresh food section and leave it there for about 15 minutes. The temperature should be about 38-42 degrees F. If it is not, adjust the temperature control. Check the freezing compartment's temperature, too. It should be around 5 degrees F.

- Colder-than-necessary temperatures waste energy.

- Check the frost buildup on the freezer compartment. It should not exceed one-fourth of an inch. As a general rule, manual defrost refrigerators take less energy to operate than automatic defrost units, but not if frost is allowed to build up excessively.

Your refrigerator should be located away from sources of heat, such as ranges. The motor housing and con-

denser coil should be kept clean, and unless your refrigerator is designed to be built in, it should be away from the wall an inch or two to allow air to circulate around the compressor.

Once those things are taken care of, instruct your family on good habits in using the refrigerator. Let hot foods cool a bit before placing them in the refrigerator. Reduce the number of times the refrigerator is opened and never leave the door open longer than a few seconds. To thaw frozen foods, first place them in the fresh food section so that, as they thaw, they can help cool the refrigerator.

If you are planning to buy a new refrigerator, it is energy economical to buy one with a power-saver switch.

Some refrigerators have heating elements in their walls or doors to prevent "sweating" on the outside. In most climates, the heating element does not need to be working all the time. The power-saver switch turns off the heating element, saving up to 16 percent on refrigerator operating costs.

Weigh the benefits of a frost-free refrigerator against those requiring manual defrosting. Although you will need to defrost them regularly, the manual-defrost models will cost less to buy and operate than automatic defrost units.

If you choose the manual-defrost model, remember that frost buildup increases the amount of energy needed to keep your food cold.

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## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

# McDonough Power Cooperative Annual Meeting

**Wednesday,  
August 31, 1983  
at Fellheimer Auditorium  
at Macomb Senior High School**

**Registration begins 6:30 p.m.  
Business meeting begins 7:30 p.m.**

**DIRECTORS**  
 Donovan Lawyer, President  
 Max Welsh, Vice President  
 Bill Pollock, Secretary  
 Harold Anderson, Treasurer  
 Wade Blansett  
 Howard Butler  
 Thomas Curtis  
 Kenneth Moore  
 Lyndall Pigg  
 John D. McMillan, Attorney

**McDonough Power Cooperative**  
 MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**

# Your annual meeting is August 31

The 1983 McDonough Power Cooperative annual meeting will be held Wednesday, August 31, 1983, at 7:30 p.m. at the Fellheimer Auditorium at the Macomb Senior High School on South Johnson Road, Macomb, Illinois.

Members registered at the annual meeting will receive \$5 credit on their September energy bill. This is in lieu of the McDonald coupons which were given in the past.

In lieu of door prizes this year, 30 members' names of those present will be drawn and each will receive \$10 credit on their September bill.

Throughout the meeting, members names will be drawn and if they are present they will receive \$25 credit on their September bill. This list of members names will be posted in the hall way. Be sure to check as you leave the meeting, to see if you are a winner of \$25 credit on your next bill.

**REMEMBER** — you must be present and registered to be eligible for prizes.

The nominating committee meeting was held Wednesday, July 6, 1983, consisting of the following members:

- District 1 — Delbert Woodford and Michael Cox
- District 2 — Steven Terstriep
- District 3 — J.C. Runner and Richard Smith
- District 4 — Kenneth Baker

- District 5 — Dan Wolf
- District 6 — Clifton Torrance
- District 7 — Wendell Horney and John Ewen
- District 8 — Ray Musser
- District 9 — James Osborn

In accordance with Article III, Section 4 of the bylaws, a nomination in writing over 15 or more signatures was received for the election to the Board of Directors of McDonough Power Cooperative at the annual meeting of members to be held August 31, 1983,

to represent District 1.  
 District 1 — Le Roy Brown  
 Additional nomination may be made from the floor at the meeting.  
 You will be receiving your annual meeting notice some time before the annual meeting. Please read and study previous to meeting as there are bylaw amendments to be considered.

An interesting speaker is to address our members.

**Bring your friends and neighbors and attend your annual meeting.**

\*\*\*\*\*

## Guest speaker

Our annual meeting speaker will be Derry Brownfield, who is the leading farm broadcaster in the midwest. He is heard daily on the Brownfield Network in seven states. Derry grew up on a midwestern farm. He taught vocational agriculture, served as a marketing specialist for the Department of Agriculture and was director of the Kansas City Livestock Marketing Foundation prior to becoming involved in farm broadcasting.

In 1973 Derry was instrumental in starting a regional radio network which is now affiliated with 105 stations in Missouri, Illinois, Kansas, Iowa, Arkansas, Indiana, and Tennessee. Derry speaks as a farmer. In 1949 he received the Future Farmers of



*Derry Brownfield*

America State Farmer degree. Since that time the Brownfield farm has grown to over 1,000 acres.

## Help reduce that peak load

During late afternoon and early evening hours, the load on electrical systems usually reaches its peak. To meet the heavy demand, electric utilities often must use back-up generating equipment that is not energy

efficient.  
 Try to use energy-intensive appliances such as dishwashers, clothes washers and dryers and electric ovens in the early morning or late evening hours to help reduce that peak load.

## Holiday closing

The headquarters of McDonough Power Cooperative will be closed Monday, September 5, in observance of Labor Day.

---

Looking over examples of proper wiring techniques for farm buildings are Doug Carolus, left, and Dick Hiatt. Carolus, an employee of Illinois Power Company, is chairman of the IFEC environmental control committee. Hiatt is on the staff of the Association of Illinois Electric Cooperatives.

---



## Proper wiring a key to efficient electricity use in farm buildings

Each American farmer produces enough food for himself and about 80 other people, thanks in no small way to the efficient use of electricity. That efficiency includes proper wiring.

"Back before they had electricity on farms," said Roland Espenscheid, a University of Illinois agriculture engineering professor, "farmers tipped a bushel basket of corn over the fence to feed their hogs and carried feed to cattle in buckets. Operating that way, each farmer could produce enough to feed himself and about 10 other people." Espenscheid was speaking in June to those attending a special seminar on agriculture building wiring at Lincoln Land Community College in Springfield.

While electricity has brought increased productivity to agriculture, farm wiring presents many problems that are alien to residential or light commercial structures, Espenscheid added. The workshop, sponsored by

the Illinois Farm Electrification Council, was designed to acquaint power use-member service advisers with the problem and possible solutions.

The main thrust of the seminar dealt with wiring in "hostile environments," especially in the ammonia-laden and highly corrosive atmosphere in livestock confinement buildings.

"A carefully installed system of metal conduits and junction boxes that might well last the life of a farm shop or equipment shed would do well to last five years in a hog confinement building," noted Duane Crisp, manager of engineering for Chore-Time Equipment Company, a manufacturer of livestock feeding machinery and life-support equipment for confinement buildings. "We favor plastic in the livestock environment," he continued, "while metal may be just fine for shops or grain handling equipment."

Speakers generally noted that a lack of awareness has been a big part of the

problem. Since confinement livestock production grew so quickly, many buildings are relatively new. Corrosion is just now reaching really serious proportions.

Manufacturers have been quick to respond to the need for corrosion-resistant hardware, and part of the seminar was given over to demonstrations and exhibits of plastic fixtures and heavily plated metal hardware, much of which have come on the market recently, while some have been "borrowed" from marine or other heavy-duty product lines.

Don Davis, personal line loss control coordinator for Country Mutual Insurance Companies, discussed wiring from an insurer's viewpoint.

"There are some really bad wiring situations on Illinois farms," he said, "and many of them are because farmers did their own wiring and either didn't know how to do it right or cut corners here and there. Many dangerous situations have cropped up

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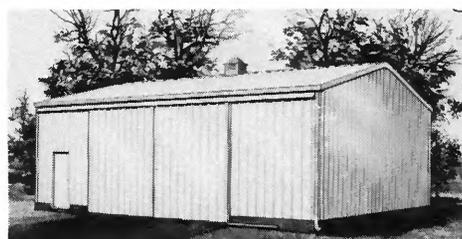


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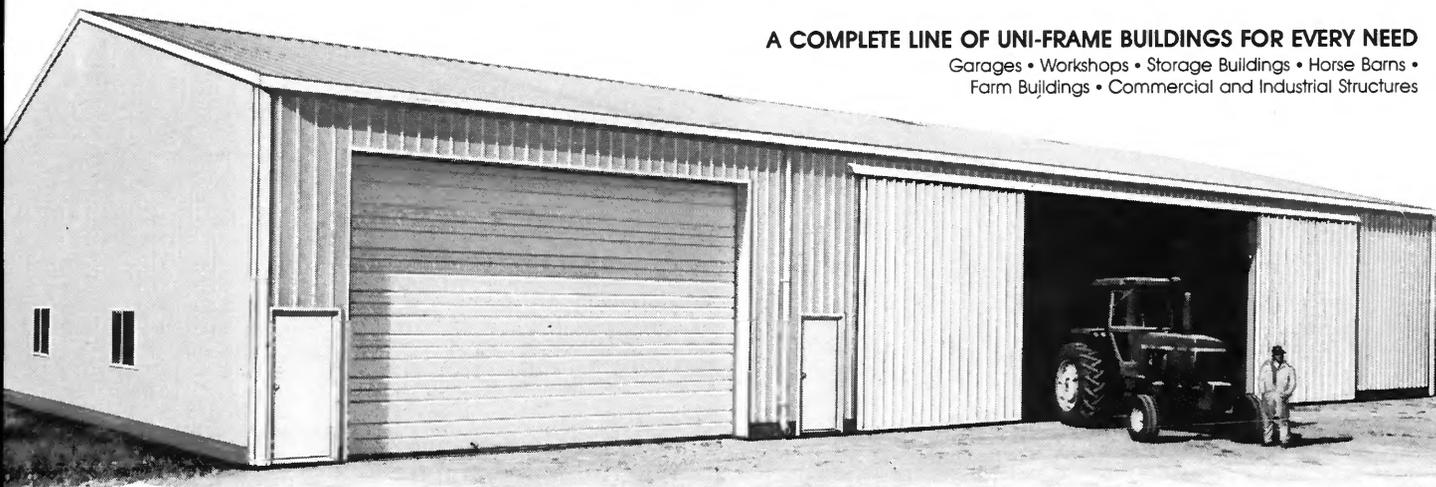
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## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT



*The three area men reelected to the McDonough Power Cooperative Board of Directors are pictured at right. From left are Harold Anderson of Roseville, Wade Blansett of Macomb and Bill Pollock of Colchester. Opposite page, top photo: noted speaker and farm broadcaster Derry Brownfield speaks. Bottom photo: members vote in the election.*

## Members retain annual meeting balloting, reelect three to board

Members of McDonough Power Cooperative approved a revised constitution to govern the member-owned electric utility and reelected three directors during the 46th annual meeting August 31, at Macomb Senior High School.

The only change in the bylaw proposal submitted to the members came after a spirited discussion about the annual meeting and cooperative members' responsibilities. McDonough members voted to reject a proposal to

allow members to vote by mail and retained voting as a central part of the annual meeting.

The three community leaders reelected to the board for three-year terms are: Wade R. Blansett, who defeated LeRoy Brown in the only contest of the balloting, Bill Pollock and Harold Anderson. Pollock is presently serving as secretary to the board of directors and Anderson is its treasurer.

President Donovan K. Lawyer told

the nearly 600 members and guests a two-year decline in the average power consumption by consumers had been reversed with average monthly sales climbing by 110 kwh to 1,152 kwh.

"The largest single expense to your cooperative is the purchase of electric power for you," he reported. "It represents 70.52 percent of every revenue dollar the cooperative takes in."

Manager Robert E. Pendell reported the cooperative spent more than

**DIRECTORS**  
 Donovan Lawyer, President  
 Max Welsh, Vice President  
 Bill Pollock, Secretary  
 Harold Anderson, Treasurer  
 Wade Blansett  
 Howard Butler  
 Thomas Curtis  
 Kenneth Moore  
 Lyndall Pigg  
 John D. McMillan, Attorney

# McDonough Power Cooperative

MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**

\$375,000 “trimming and cutting trees, testing poles and changing the bad ones, upgrading services and high-lines.”

“Your system is more than 40 years old and each year more and more of the physical plant will have to be replaced. Of the 3,248 poles tested, 387 were found to be bad and had to be replaced,” Pendell said.

“The cooperative’s participation in the Soyland generation and transmission cooperative is important to your future,” Pendell said.

Soyland’s actions have to be put in the perspective of 10 to 14 years in the future and “the more time it takes to accomplish those actions the more it will cost you, the members,” he said. “When Soyland bought into Illinois Power’s Clinton Nuclear Station, loads were increasing by 10 or more percent each year and utilities



serving Soyland members were negotiating only for short-term wholesale power contracts.

“It was time to take charge of our destiny” and the choice was made

to build a 450 mW coal-fired plant in Pike County, he added. “Then the picture changed – rapid inflation and increasing regulatory controls drove up the cost of building power plants while declining electric loads made some excess generating capacity available.

“Several utilities offered to sell or lease this excess capacity to Soyland at costs less than what it would cost to build our own and it was decided to explore this route while continuing our participation in Clinton,” Pendell reported.

In his report to members Treasurer Anderson noted revenues to the cooperative had increased by more than \$650,000 to \$4,184,813 from the previous year’s figure. “Over \$2,760,000 of this was paid out for the purchase of wholesale power,” Anderson said.



# Tasty fare for a crisp autumn day

## PORK CHOPS WITH MUSHROOM GRAVY

- |  |                                 |
|--|---------------------------------|
| 4 pork chops, 1-inch thick                               | 1/2 cup chicken broth           |
| 2 tablespoons cooking oil                                | 2 tablespoons all-purpose flour |
| 1 cup sliced fresh mushrooms<br>(or drained canned ones) | or 1 tablespoon corn starch     |
| 1/2 cup chopped onion                                    | 1/4 teaspoon salt               |
| 3/4 teaspoon Worcestershire sauce                        | 1/4 cup cold water              |
| 1/2 teaspoon dried tarragon, crushed                     | 1 tablespoon snipped chives     |
| Salt and pepper  |                                 |

In 12-inch skillet, brown chops on one side in hot oil. Turn; add mushrooms, and onion and brown on other side. Season with salt and pepper. Add chicken broth, Worcestershire sauce, tarragon, and the 1/4 teaspoon salt. Cover and simmer 35 to 40 minutes. Remove chops to serving platter. Keep warm. Spoon fat from juices. Measure vegetable juice mixture, reserving 1 1/4 cups. Combine cold water and flour. Stir into juices in skillet; add chives. Cook and stir until thick and bubbly. Cook 2 minutes more. Spoon over chops. Garnish platter with cherry tomatoes. Makes 4 servings.

## CHICKEN RAVIOLI

- |                               |                                     |
|-------------------------------|-------------------------------------|
| 1 pkg. noodles                | 1 medium onion, chopped             |
| 3 cans cream of mushroom soup | 2 tablespoons chicken fat (or oleo) |
| 1 hen or 2 fryers             | 1/2 lb. grated cheese               |
| 1 green pepper, chopped       | 1 small can pimento                 |

Cook hen, remove meat from bone and cut into bite size pieces. Sauté onion and pimento in chicken fat. Cook noodles in chicken broth, add a little water if needed. Combine all ingredients, place in large casserole and cover with grated cheese. Bake at 400 degrees until mixture is hot through and cheese is melted.

## RED HOT SQUASH CASSEROLE

- |                                     |  |
|-------------------------------------|--|
| 6 to 8 medium yellow squash, sliced | 1/4 lb. Velveeta cheese                    |
| 1 large onion, chopped              | 2 tablespoons milk                         |
| 1 teaspoon salt                     | 1 or 2 Jalapeno peppers, seeded and minced |
| 1 teaspoon sugar                    |  |
| Paprika                             |  |

Boil squash and onion in water with salt and sugar until done. Drain well in a colander and pour into a 1-quart casserole dish. Make a sauce of cheese and milk; pour over squash; add peppers; mix well. Garnish with paprika. Heat in 350-degree oven uncovered for 20 to 30 minutes, or until thoroughly hot.

## CHEESE-STUFFED PEPPERS

- |  |                                  |
|--|----------------------------------|
| 1 pkg. (3 oz.) cream cheese (softened) | 1/4 cup shredded carrot          |
| 2 tablespoons oleo (softened)          | 1 medium green pepper            |
| 1/2 cup shredded cheddar cheese        | 4 large slices rye bread, halved |
| 1/4 cup diced celery                   |                                  |

In small bowl, cream cheese with oleo until blended. Stir in cheddar, celery and carrots; mix well. Cut stem end from pepper; remove seeds. Pack with cheese mixture. Chill overnight. Slice thin and arrange on bread halves. Cut each half in two. Makes 16 pieces.

## TOMATO RELISH

- |   |                             |
|---|-----------------------------|
| 20 cups ripe tomatoes, peeled and cored | 1/2 cup hot peppers chopped |
| 8 onions chopped                        | 3 cups sugar                |
| 8 bell peppers chopped                  | 3 cups vinegar              |
| 6 tablespoons salt                      | 1/2 box pickling spices     |

Chop, mix and cook slow after reaching boiling point, for two hours. Stir often, place in jars and seal.

## CHICKEN LIVERS PEKING

- |  |                                       |
|--|---------------------------------------|
| 1 lb. chicken livers, cut up                                   | 1/2 cup chicken broth                 |
| 2 tablespoons oleo   | 2 tablespoons soy sauce               |
| 2 tablespoons chopped onion                                    | 1 tablespoon cornstarch               |
| 1 (3 oz.) can sliced mushrooms                                 | 1/4 teaspoon ground ginger (optional) |
| 2 (10 oz.) pkgs. frozen Chinese vegetables with seasoned sauce |                                       |

In large skillet, cook livers in oleo till just brown; remove from pan. In same skillet, cook onions until tender. Add Chinese vegetables with sauce, **undrained** mushrooms, and 1/4 cup of broth. Cover and simmer until vegetables are thawed, about 3 minutes. Stir to break up sauce cubes. Simmer, covered about 5 minutes or till tender. Stir together remaining broth, soy, cornstarch and ginger. Add to vegetables, cook and stir until bubbly. Add livers; heat through. Serve over hot cooked rice. Makes 6 servings.

## SWEET POTATO PIE

- |  |                       |
|--|-----------------------|
| 2 1/2 cups cooked mashed sweet potatoes                  | 1 teaspoon vanilla    |
| 4 eggs slightly beaten                                   | Dash of salt          |
| 2 1/2 cups sugar   | 1 can Dime Brand milk |
| 1 teaspoon nutmeg (optional or other spices if you wish) | 1 stick oleo, melted  |

Mix and pour into unbaked pie shell. Bake at 350 degrees until filling sets. Chill and serve. May be frozen for later use if only baked half brown.

## ORANGE SHERBET

- |   |                         |
|---|-------------------------|
| 64 oz. bottle orange drink                          | 2 cans Eagle Brand milk |
| 1 small can (8 1/2 oz.) crushed pineapple (drained) | 1/4 cup sugar           |

Mix all the above ingredients together and pour into freezer and freeze.

## COCONUT MOUNDS

- |   |   |
|---|---|
| 3/4 cup mashed potatoes, prepared from instant potatoes | 1 (12 oz.) pkg. semi-sweet chocolate pieces |
| 1 lb. confectioners sugar                               | 2 (1 oz.) squares semi-sweet choco'ate      |
| 1 lb. pkg. unsweetened coconut                          | 1 oz. square paraffin wax                   |
| 1 teaspoon almond extract                               |   |

Combine potatoes, sugar, coconut, almond extract in a large bowl. Mixture will be stiff and needs to be worked with hands. Form mixture into 3/4-inch balls and place on cookie sheet. Chill about 6 hours. Place chocolate pieces and squares and paraffin in top of double boiler over hot (not boiling) water stirring until melted. Remove from heat and with toothpick dip each ball in chocolate until coated. Place on cookie sheet and chill again until hard. Place or pack on or between wax paper and store in cool dry place. Makes 3 pounds.

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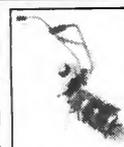
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electricians borrow most of their funds for construction from a revolving fund in the federal Rural Electrification Administration. Legislation establishing this fund in 1973 fixes the interest rate for most loans at 5 percent, and permits 2 percent in some hardship cases. When the fund was created, its assets were commitments of rural electric and telephone co-ops to repay previous REA loans, and the agency's cash on hand.

Dollars to lend were obtained by pledging the fund's assets and borrowing from the U.S. Treasury at going market interest rates. As the cost of money escalated in recent years, while the agency's lending rates remained fixed, the dollars of interest income at 5 percent were significantly short of the interest expense, which sometimes climbed as high as 15 percent. The excess of outgo over income promised that in time the body of the fund would have been eaten away in payments to make up the difference.

After a two-year study, the rural electric cooperatives decided they would need to face up to higher interest payments in order to preserve their principal borrowing source, the revolving fund. They took the lead in developing legislation which authorizes the REA Administrator to adjust the interest on revolving fund loans whenever necessary to keep the fund stable.

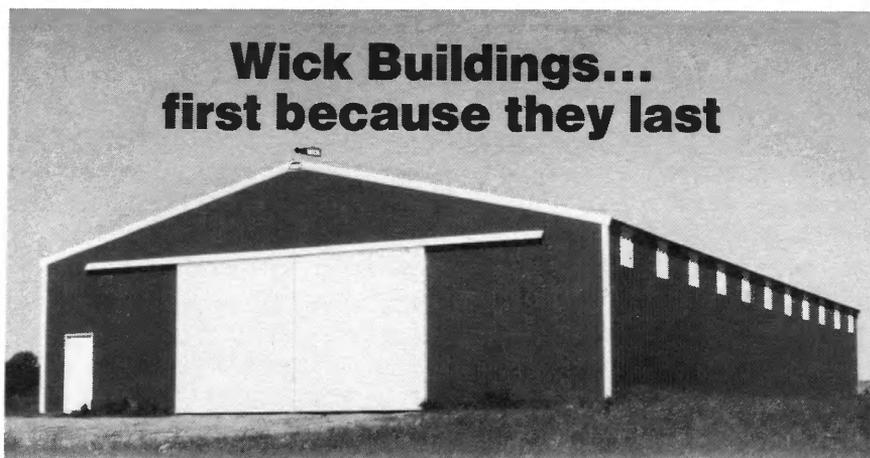
Companion measures were introduced in both houses of Congress: S.

Zorinsky said. "We have a well-thought-out plan that has been studied for almost two years. It asks for no quick-fixes or crash programs, but a simple, sensible solution to maintaining one of the most successful programs this government ever created."

The legislation also provides that the Treasury obligations now comprising the assets of the fund will be converted to permanent capital. This still requires that all rural electric loans must be fully repaid, plus interest, but

calls for such dollars to be held in the revolving fund rather than the Treasury and keeps them available for further lending.

The bills also would authorize future refinancing of revolving fund borrowings from the Treasury, and of a different type of loan used chiefly by the cooperative producing electricity for wholesaling to the distribution organizations. This would permit substantial interest savings at times when rates drop.



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1300 by Kentucky Sen. Walter Huddleston, and H.R. 3050 by Tennessee Rep. Ed Jones. At last count, several weeks ago, they had been joined in sponsorship by 37 senators and 145 representatives.

"It is a tribute to the rural electric systems of the country that we have this proposal before us now," Senator

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## manager's report

by Robert E. Pendell, Manager

# watts n

IREN SUPPLEMENT

## Use more kwh than you realized?

Electricity is the most convenient form of energy there is, and does so much for us that sometimes we do not give it a thought until we receive the bill for what we used during the past month.

There are occasions when the bill arrives that there is also surprise at the usage increase. The first thought that comes to mind is that the meter has malfunctioned or the office has miscalculated the bill. Misfiguring of your bill is rare and a defective meter is even more rare. The electric meter is a very accurate measuring device. The meter is very seldom found to be out of calibration beyond the limits, but when it is, most of the time it is found to be slow. The reason for this is, because with time, dirt, moisture and other foreign matter will collect and slow the gears down; but we are only talking of two to five kilowatt-hours to the 1,000 kilowatt-hours on the average.

The main reason found for increase in electrical usage is due to the ease of using electricity without realizing it is being metered and adding to the total monthly consumption. Electricity is one of the few items that is used before you pay for it. This is why you should be aware of what you are using, how much power different items consume and the length of time used. One way to help gain this knowledge is to read your meter every day or once a

week. Doing so will help you realize how laundry day, running the air conditioner or other changes around the home affect your bill.

The water heater is one of the largest users in most homes when it isn't working properly. Check to be sure both heating elements are working, that the temperature setting isn't too high, and that there are no leaks at the faucet or in the lines. Reduce the amount of hot water used by installing a shower control and flow restrictors. A shower control is nothing more than an inexpensive shut off valve that lets you run the water only while wetting down and rinsing off. Several gallons of water can be saved by using this device of which 40-50 percent could be hot water. With less water being used, the water pump time (if you have one) will also be reduced.

The water pump is another item that can increase your electrical consumption. If it is short cycling or running continuously, many wasted kilowatt-hours can be metered. Take time to listen to your pump. Reading the meter every day can also help you realize when something has malfunctioned and then it can be located and corrected before it continues any length of time.

Many of our members compare bills with their neighbors, but this cannot be accurately justifiable, even if everything is identical, the living habits of two households are never the same. The way a family lives and how the electrical equipment is used can create a sizable difference in the electrical consumption. The size of a home makes little difference except for heating and cooling. It is the equipment inside and how this equipment is used that makes up the total bill.

Let's look at the average consumption of the most basic items in nearly every home. On an average, the refrigerator and/or a freezer will use 150-200 kilowatt-hours a month while 400-700 kilowatt-hours is common for an electric water heater. Again, living habits can affect the amount of kilowatt-hours used. Don't fan the refrigerator door or leave it open. Know what you want before you open the door. The amount of hot water used will cause the greatest affect on how much the water heater will operate.

After you have a good look at your power use, you may still be interested in requesting a free home energy analysis. The inspection might find something that you may have overlooked that could help save you a little more energy.

## What to do when the power is off

1. Check your fuses and switches below meter. If some of your lights work, then the trouble is in your own fuses. Remember to check the main cartridge fuses in the fuse box.
2. If all the lights are off, then check with your neighbor to see if his power is off.
3. If you have not found the trouble, call 837-1400. Be sure to give your name and location number which may be found at the bottom of your power bill. Please call in as soon as the trouble is discovered or anything wrong with the line is noticed.



W

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**McDonough Power Cooperative**  
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**All Co-op Electric Outages 837-1400**

## Name a minute drawing at 46th annual meeting

Name a minute drawing at McDonough Power Cooperative's 46th annual meeting. Those marked with an asterisk were in attendance and were credited \$25 on their September energy bill.

- Robert McCarty
- Tim and Kathy Wickert
- John H. Downs
- William D. Pierce
- Terry Hynek
- Lila Jean Allen
- Bob France
- Cale Shelley
- Wayne B. Williams
- Randall Winters
- D. James and Karen Smith
- Donald J. Nelson
- Lyle Wright
- Richard Hudson
- Kenneth and Sandra Phillips
- Connie Calomiris
- Fern Dooley
- Martha Malone
- Donald Marlow
- Ronald and Susan Chenoweth
- James and Virginia Norris
- Sam and Ellen Cassel
- Elmer Heikes
- Steven L. Lynn
- John or Judy Horine
- Charles and Betty Connor, Sr.
- Karl or Annabelle Royer
- Kermit Barrett
- John and Willa Mae Reeves
- Richard or Mary Kerr
- Ralph and Diane Dirksen
- Donald and Luella Hahn
- Charlotte Pickett
- Jerry and Shirley Vincent
- Curtis Serven
- Robert and Deborah Sallee
- Mitchell James
- Thomas and Sheila Robertson
- Dean and Oma Johnson
- \*Ronald L. Thompson

- Larry or Marilyn Melhouse
- Richard and Jeanitte Osborne
- William and Nancy Mackaben
- Billy C. Anderson
- William C. and Nancy Gossett
- Gordon and Dorothy Melvin
- Leroy and Susan Tappe
- James and Sammy Blender
- Robert or Virginia Nott
- Hillard or Carol Gipson
- Cletus W. Vance
- Raymond Hutchins
- Richard or Irma Johnson
- Don Niles
- Ronald and Rose Millard
- Robert and Debbie Raymond
- Carl Ande
- George and Peggy Sprout
- Jack L. Burgland
- Russell or Mary Denney
- Morris or Cleo Smith
- David or Georganna Eiker
- John and Beverly J. Brock
- Howard or Brenda Oaks
- Lee Britt
- Ted or Sharon Bishop
- Leroy Martin
- Susan E. Whiteside
- James or Velma Shipp
- David A. and Elizabeth Lancaster
- Frank and Janet Melvin
- Stephen and Thelma Gooding
- Eugene H. Hillyer
- Bob and Linda Fawcett
- Joseph L. Cassidy
- Toshiro Shinada
- Frank Angelucci
- Motoi Kasuya
- Mary Sharon Kiley
- Eugene Luster
- Gerald and Vera Sears
- Roberta Mason
- Claude and Cora McCormick
- Donald and Vickie Lesko
- Bernie and Elizabeth Bedwell
- \*Ronald or Merlin Cramer

- Jerry and Lynne Riggins
- Oliver and Audrey Clark
- Ronald or Lois McFadden
- Glen Jr. and Gladys Stambaugh
- Patrick Buttner
- Bill or Joanne Rich
- Don L. or Donna Crawford
- \*Gene W. and Alleyne Beck
- Kenneth Lyon
- Thomas D. Taylor
- Farrell and Wilma Hallbick
- Verne and Patricia Larimer
- Ted or Dora Lee Tinkham
- David Ray
- Everett and Mildred Birdsell
- Pearl M. Clay
- Ben and Betty Swanson
- Denney Brown
- Dale Morling
- Paul Ryner
- Arnold Ischer
- John and Evelyn Titus
- Raymond or Betty Sage
- James Clute
- Elmer and Linda Frederking
- Rodney or Linda Bean
- Joe and Margaret Sullivan
- Robert and Joann Cook
- David L. Johnson
- Rodney J. and Bertha A. Fink
- Macomb City - Rolling Meadows
- James Reese
- Gary Schalshof

### Office closings

Cooperative office will be closed in observance of Veterans Day - Friday, November 11, 1983

Cooperative office will be closed in observance of Thanksgiving Day - Thursday, November 24, 1983

### ENCHILADA CASSEROLE

1½ lbs. ground beef  
1 onion (1 use dried onion)  
1 can mushroom soup  
1 can cream of chicken soup  
Brown meat and onions. Drain off excess fat and add soups and taco sauce. Simmer a few minutes. Grease large pan and line with half of the tortillas. Layer cheese and meat and tortillas. Top with cheese and bake at 350 degrees. Serves 6-8.

### PATIO FREEZE

1 cup sugar  
1 No. 2 can crushed pineapple and juice  
2 cups mashed bananas  
Combine all ingredients in blender and freeze in oblong pan, muffin cups or trays.

### TOUCHDOWN CHILI DIP

1 onion, chopped  
1 green pepper, chopped  
2 tablespoons butter, melted  
1 can chili without beans  
1 can cream of mushroom soup  
¾ lb. cubed sharp Cheddar cheese  
Corn chips  
Saute onion and green pepper in butter until onion is clear. Stir in chili and soup. Blend well. Add cheese, heat until partially melted. Pour into chafing dish; serve with corn chips. 12 servings.

### COCKTAIL MEATBALLS

3 lbs. hamburger  
3 eggs  
1½ teaspoons red pepper  
1 tablespoon garlic powder  
Beat eggs with mixer, add spices. Crush crackers with rolling pin and add to eggs and spices. Add hamburger and mix with hands until well blended. Shape into small balls. Brown in oil. Drain and freeze in tightly-covered container until ready to use. Pour both bottles of sauce over and heat in oven. Can be used immediately instead of freezing.

### CHICKEN SAUSAGE GUMBO

2 chickens, skinned, cut-up  
2 or 3 lbs. sausage  
1 whole stalk celery  
4 onions  
½ cup Worcestershire  
1 long, narrow pkg. soda crackers  
1 bottle Kraft hot barbeque sauce  
1 bottle Kraft hickory smoke sauce  
Make a roux of flour and oil by putting in microwave 3 minutes or until it turns brown. Saute vegetables in roux 15 minutes. Put into pot with chicken and sausage. Add 1 quart water or more. Cook 1½ to 2 hours, skimming off excess grease. Season with salt, pepper, red pepper and garlic before putting in pot. When chicken falls off bone, it's done. Serve over rice with garlic bread to 8.

### LASAGNA

1 pkg. lasagna noodles  
Cheeses: mild Cheddar, sharp Cheddar, Parmesan, Mozzarella (½ to ¾ lb. each)  
2 jars Italian Ragu (mild) cooking sauce  
1 large jar Italian sauce flavored with meat  
1 chopped onion  
1 lb. ground beef  
Brown meat with chopped onion. Put garlic powder, salt and pepper on this while browning. Add sauces to mixture. Cook noodles. In large pan put a layer of sauce on bottom. Then layer with noodles and cheese, add ½ sauce and then repeat. Bake at 350 degrees for 30 to 45 minutes.

### BUTTERMILK PECAN CHICKEN

2 fryers, cut up  
½ cup margarine  
1 cup buttermilk  
1 egg, beaten  
1 cup flour  
1 cup ground pecans  
1 tablespoon paprika  
1 tablespoon salt  
⅓ teaspoon pepper  
¼ cup sesame seeds  
¼ cup pecan halves (optional)  
Melt margarine in large shallow pan. Mix buttermilk with egg in small bowl. Mix together flour, pecans, paprika, salt, pepper and sesame seeds in another. Dip chicken in buttermilk mixture, then in flour mixture. Place skin side down in melted margarine in pan; then turn to coat with margarine and leave skin side up. Place pecan halves on each piece if desired. Bake at 350 degrees for 1½ hours, or until done and golden brown. Serves 8.

### SPANISH CHICKEN

1 large pkg. taco-flavor Doritos  
1 large boned chicken (chopped)  
1 small onion  
1 small can chopped chilies (opt.)  
1 pkg. Cheddar cheese  
1 can mushroom soup  
1 can cream of chicken soup  
1 can chicken broth  
1 can Rotel tomatoes  
Bring to a boil: soups, broth and tomatoes. Add onion, chicken and crumbled Doritos. Cover dish and bake 30 to 40 minutes at 350 degrees. Remove cover and top with grated sharp Cheddar cheese. Return to oven until cheese melts.

### TUNA CASSEROLE

1 small pkg. shortcut elbow macaroni (8 oz.), cooked  
1 small can tuna  
1 can cream of mushroom soup  
½ can milk (use soup can)  
½ med. onion (grated)  
Garlic powder, if desired  
½ bell pepper, grated  
3 or 4 green onions, chopped fine  
Grated cheese (quite a bit)  
Salt to taste  
Pepper to taste (you may use red)  
Cook macaroni as directed on package. Toss together all other ingredients while macaroni is cooking. (Leave cheese until last.) Add macaroni to mixture and top with grated cheese. Bake in oven at 350 degrees for 30 minutes.

### STEAK MARINATE

1 tablespoon garlic salt  
2 tablespoons celery salt  
1 tablespoon dry mustard  
1 dehydrated horse radish  
1 tablespoon onion salt  
Combine ingredients.

### CABBAGE CASSEROLE

1 med. cabbage  
1 lb. ground lean meat  
¼ cup green onions (chopped)  
1 med. onion (chopped)  
2 cloves garlic (minced)  
1 10½-oz. can mushroom soup  
1 cup boiled rice  
¼ cup bread crumbs  
½ stick butter or margarine  
salt and pepper to taste  
Cut cabbage as you would to smother and boil in salted water until tender, but still green. Drain and reserve the liquid. Melt the butter in a deep skillet and fry meat with onion, garlic and seasonings until brown. Mix cabbage with meat. Add green onion, mushroom soup and boiled rice. Pour into greased flat pyrex dish. Top with bread crumbs and bake 20 to 30 minutes at 300 degrees. (Before baking if mixture appears dry add some of the water reserved from boiled cabbage.) Yield: 6-8 servings.

### PENNSYLVANIA DUTCH PIE CRUST

3 cups flour  
1 teaspoon salt  
1¼ cups shortening  
5 tablespoons water  
1 egg  
1 teaspoon vinegar  
Sift flour and salt; cut in shortening until mixture resembles coarse cornmeal. Beat water, egg and vinegar together; stir in flour mixture. Shape into ball. Chill. Turn out on floured board, roll to fit pie pan. Bake for 10 to 12 minutes in 425 degree oven. Yield: pastry for two 2-crust pies.

### DIXIE FUDGE CHESS PIE

1½ cups sugar  
1 stick butter  
3 eggs (slightly beaten)  
4 tablespoons cocoa  
1 teaspoon vanilla  
pinch of salt  
Mix sugar and butter. Add other ingredients. Pour in uncooked pie shell. Bake at 425 degrees for 10 minutes. Turn down to 350 degrees for 30 minutes.

### VEGETABLE PIE

1 pie shell  
2-3 small squash  
1 bell pepper  
1 med. onion  
fresh mushrooms—as desired  
1 sliced tomato  
1 cup mayonnaise  
1 cup mozzarella cheese  
Chop or slice squash, pepper, onion and mushrooms. Saute in butter and drain. Set mixture aside. Combine mayonnaise and mozzarella cheese together. Line pie shell with tomatoes; top with vegetables; then top with mayonnaise and cheese mixture. Bake at 350 degrees for one hour or until brown.

### STIR-'N-DROP OATMEAL COOKIES

1 cup flour  
1 teaspoon baking powder  
½ teaspoon salt  
½ teaspoon cinnamon  
½ teaspoon ginger  
1 cup brown sugar, packed  
1 cup rolled oats  
½ cup vegetable oil  
2 tablespoons milk  
1 egg  
¾ cup chopped walnuts  
Pre-heat oven to 375 degrees. Lightly grease baking sheet. Mix first 5 ingredients together. Add brown sugar and oats. Mix well. Combine vegetable oil, milk and egg together and add to mixture. Stir in walnuts and drop dough by rounded teaspoons about 2 inches apart on baking sheet. Bake about 10 minutes. Cool on wire rack. Yield: 3 dozen.

### GRAHAM CRACKER COOKIES

FILLING:  
2 sticks oleo  
1¼ cups sugar  
1 egg  
½ cup Carnation milk  
1 cup nuts  
1½ cups coconut  
2 cups crushed graham crackers  
ICING:  
1½ sticks oleo  
1 box powdered sugar  
4 tablespoons Carnation milk  
1 teaspoon vanilla  
Take a large cookie sheet and place graham crackers on it all going same way. Then prepare filling. Melt oleo and add sugar, egg and milk. Bring to a boil, take off heat and add coconut, nuts and crushed graham cracker crumbs. Mix all together and spread on crackers on cookie sheet, then add another layer of graham crackers (same way as first). For icing, mix together ingredients and spread on top of crackers, cover and refrigerate for several hours. Then cut into squares.

### YUMMY CHOCOLATE SHEET CAKE

1 stick margarine  
½ cup oil  
1 cup water  
2 cups flour (self-rising)  
2 cups sugar  
1 teaspoon cinnamon  
4 tablespoons cocoa  
2 eggs  
½ cup butter  
1 teaspoon vanilla  
Melt margarine, oil and water. Bring to a boil. Add flour, sugar, cinnamon and cocoa. Mix well then add remaining ingredients. Stir and pour into pan. Bake at 400 degrees for 20 minutes.

### ICING

½ stick margarine  
½ cup water  
1 lb. box powdered sugar  
4 tablespoons cocoa  
1 cup nuts  
Melt margarine and water. Bring to a boil and add remaining ingredients. Spread on top of hot cake.

### OATMEAL CAKE

1½ cups hot water  
1 cup minute oats  
1 cup white sugar  
1 cup brown sugar  
½ cup shortening  
2 eggs  
1½ cups flour  
1 teaspoon soda  
1 teaspoon cinnamon  
½ teaspoon salt  
Pour hot water over oats. Let stand. Cream sugar, brown sugar, shortening. Beat eggs into mixture. Sift flour with soda, cinnamon and salt. Add to cream mixture. Then add oats. Beat well. Bake at 350 degrees for 35 minutes.

# Hot Line School

(Continued from page 5.)

Distance is safety."

Safety is always in mind at the school, and one man's hard hat sported a sticker proclaiming, "If you love life, live safety." and Dave Deiderich and Jim Nevel of the AIEC Job Training and Safety Department made the rounds of the various work groups several times, making sure the

trainees did not pick up any unsafe habits.

While Diederich and Nevel were in overall charge of the school, several instructors from different cooperatives helped with hands-on work sessions, and Don Greene, job training and safety instructor from the Iowa Association of Electric Cooperatives, lent his expertise, too.

Cooperative instructors were: Al Becker and Delbert Boston, Rural Electric Convenience Cooperative Co., Auburn; Fred Boston, Western Illinois Power Cooperative, Jacksonville; Larry

Carter, Illini Electric Cooperative, Champaign; Meredith Chrisman and Wendell Lettner, Coles-Moultrie Electric Cooperative, Mattoon; George Claus and Don Long, Illinois Rural Electric Co., Winchester; Daryl Douglas, Adams Electircal Co-Operative, Camp Point; Bruce Hill and Chuck West, Corn Belt Electric Cooperative, Bloomington; Richard Hilligoss, Lyle Kofoot and Larry Niccum, Eastern Illinois Power Cooperative, Paxton; and Gary Hissong, Southwestern Electric Cooperative, Greenville.



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- WISCONSIN**
- Genoa City** . . . . . Chuck Schuren 414-279-5424 or 312-426-5040

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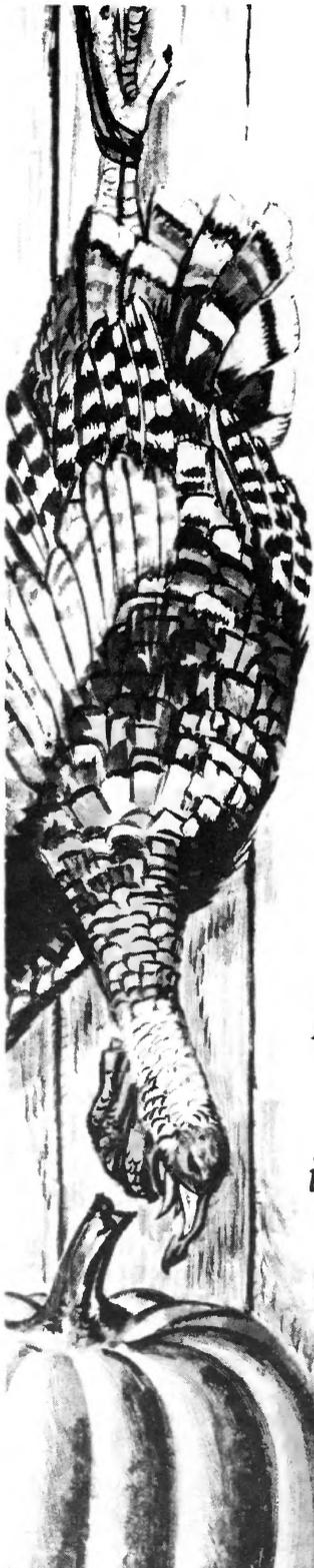


## manager's report

by Robert E. Pendell, Manager

# watts no

IREN SUPPLEMENT



### *Father, we thank Thee*

For flowers that bloom about our feet,  
Father, we thank Thee,  
For tender grass so fresh and sweet,  
Father, we thank Thee,  
For the song of bird and hum of bee,  
For all things fair we hear or see,  
Father in heaven, we thank Thee.

For blue of stream and blue of sky,  
Father, we thank Thee,  
For pleasant shade of branches high,  
Father, we thank Thee,  
For fragrant air and cooling breeze,  
For beauty of the blooming trees,  
Father in heaven, we thank Thee.

For this new morning with its light,  
Father, we thank Thee,  
For rest and shelter of the night,  
Father, we thank Thee,  
For health and food, for love and friends,  
For everything Thy goodness sends,  
Father in heaven we thank Thee.

*by*  
*Ralph Waldo Emerson*

*We, at  
McDonough Power Cooperative  
give thanks to you,  
and wish you the best  
in the upcoming holiday season.*

## *Happy Thanksgiving*



W

**DIRECTORS**  
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**McDonough Power Cooperative**  
 MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**

## Half the nation's households are dialing down at night

Nearly 50 percent of the nation's households are turning down their thermostats during the heating season to reduce utility bills, the Energy Department said in a report.

The study found that at night, 26 percent of U.S. households lower thermostats by four to five degrees fahrenheit, while 21 percent of households reduced nighttime heat by six degrees

or more.

The report is based on 1981 survey figures.

"It is clear . . . that a number of homes are dialing down their thermostats at night," the study said. "Dialing down occurs at night in almost 50 percent of the homes that have heating controls and that have their heat turned on in the daytime."

Another 9 percent of households turn their heat off completely at night, the researchers found, but this "occurs more frequently in warmer areas of the country and in smaller homes."

Three percent of households actually turn their heat up at night, the survey found.

The study also noted that northerners keep their homes colder by nearly four degrees than do southerners in Texas, Louisiana, Arkansas, Florida, Mississippi, Alabama and Georgia.

## Chips and fries

In the last two decades, the potato industry has changed dramatically. If you do not believe it, think about that mountain of potato chips and french fries you have eaten in those decades.

When was the last time you ate a baked potato or a freshly mashed potato? According to the U.S. Department of Agriculture, the potatoes arriving in many homes these days are in the form of potato chips, frozen french fries, or dehydrated mashed potatoes.

Fast food stores have a lot to do with the increase in processed potatoes. So do smaller households and working women — both finding the frozen or dehydrated forms of potatoes quicker and handier to use. Processed potatoes have other advantages, too. Tables that give nutritional values for potatoes are for fresh dug potatoes. A 1975 report found that potatoes stored for three months — not uncommon for all potatoes — can lose half of their primary nutrient, vitamin C.

Processed potato products, on the other hand, are virtually unaffected by storage. But here's one area where the plain old fashioned potato — the way nature made it — really shines. It is in the calorie count. One hundred grams — or three and one-half ounces of the edible portion of a raw potato has only 76 calories. The same amount of french fries have 274 calories . . . frozen cooked hashbrowns, 224 calories . . . potato chips, 568 calories. Next time you find yourself saying "potatoes are fattening" — think about it. It's what people do to potatoes that makes them fattening.

## Reorganization of board

On September 26, 1983, the first meeting of the board of directors following the annual meeting, there was a reorganization of the board.

The following directors were elected to serve as your officers for the coming year.

- President — Donovan Lawyer
- Vice President — Howard Butler
- Secretary — Bill Pollock
- Treasurer — Harold Anderson

## Holidays observed by your cooperative

- |                 |              |
|-----------------|--------------|
| News Year's Day | Labor Day    |
| Good Friday     | Veterans Day |
| Memorial Day    | Thanksgiving |
| July 4          | Christmas    |

Christmas and New Year's Day fall on Sunday; the office will be closed the following Monday.

Anytime the 17th of the month falls on Saturday, Sunday, or a holiday, you have until the next work day to pay the net amount of your electric bill.

## Attention vacationers

If you are going to be on vacation at the time when payment of your power bill is due, please make arrangements to have someone pay the bill, make an advance payment on an estimated bill or at least notify us that you are going to be gone.

Unless you notify our office, we have no way of knowing that you are on vacation and we can only assume that your bill is delinquent.



9237

SIZES 10½-22½



9498

S-8-10  
M-12-14  
L-16-18



4551  
SIZES 8-20



9318  
34-48



4613  
SIZES 8-20



9408  
SIZES 34-48



9289

SIZES 10½-18½



9350

SIZES 2-8



9098  
6-20



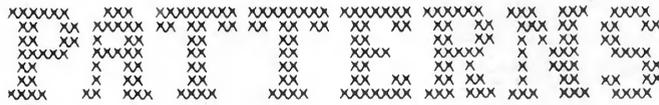
4830  
SIZES 10½-26½



9087  
10½-22½



4723  
SIZES 8-18



- No. 9237 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-3/8 yards 60-inch.
- No. 9498 is cut in Small (8-10); Medium (12-14); Large (16-18). Medium takes 1-1/8 yards 45-inch fabric.
- No. 4551 is cut in sizes 8, 10, 12, 14, 16, 18, 20. See pattern for yardages.
- No. 9318 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
- No. 4613 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-7/8 yards 45-inch fabric.
- No. 9408 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. See pattern for yardages.
- No. 9289 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) takes 3-3/4 yards 45-inch fabric.
- No. 9350 is cut in Child's Sizes (2, 4, 6, 8) are all included in pattern.
- No. 9098 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 4830 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) vest 1¼ yards 60-inch; blouse 1½; pants 1-3/8.
- No. 9087 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 3-3/8 yards 45-inch.
- 4723 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) jumper takes 1-7/8 yards 60"; blouse 1-3/8 yards.

TO: PATTERNS  
Illinois Rural Electric News  
P.O. Box 3787  
Springfield, IL 62708

I have enclosed \$ \_\_\_\_\_ (\$2.25 per pattern — cash, check or money order accepted) for the following patterns:

Pattern No.	Size	Pattern No.	Size
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Print Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

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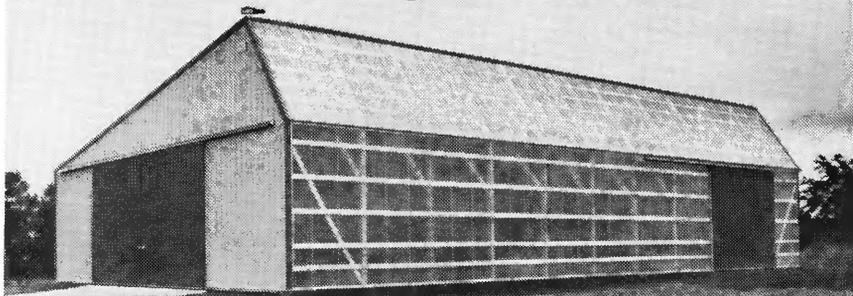
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## manager's report

by Robert E. Pendell, Manager

# watts no

IREN SUPPLEMENT



## ONE MAN'S LIFE

Here is a young man who was born in an obscure village, the child of a peasant woman. He grew up in another village. He worked in a carpenter shop until he was thirty and then for three years he was an itinerant preacher. He never wrote a book. He never held an office. He never owned a home. He never had a family. . .

He never went to college. He never put his foot inside a big city. He never traveled 200 miles from the place where he was born. He never did one of the things that usually accompany greatness. He had no credentials but himself. . .

While he was still a young man, the tide of public opinion turned against him. His friends ran away. He was turned over to his enemies. He went through the mockery of a trial.

He was nailed to the cross between two thieves. While he was dying, his executioners gambled for the only piece of property he had on earth, and that was his coat.

When he was dead, he was laid in a borrowed grave through the pity of a friend. Nineteen centuries wide have come and gone, and today he is the central figure of the human race and the leader of the column of progress. . .

All the armies that ever marched and all the navies that ever sailed, and all the parliaments that ever sat, and all the kings that ever reigned, put together, have not affected the life of man upon this earth as has that one solitary life.

—Anon.



W

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**McDonough Power Cooperative**  
 MACOMB, ILLINOIS 61455

**All Co-op Electric Outages 837-1400**

## 'Meter tampering' is now legally defined as offense

Governor James R. Thompson has signed into law H.B. 690, amending the Illinois Criminal Code to specify that "meter tampering" shall be an offense under Illinois statutes. Under the provisions of the Act, "a person commits the offense of unlawful interference with public utility

services when he knowingly, without the consent of the owner of the services, impairs or interrupts any public water, gas or power supply, or other public services, or diverts, or causes to be diverted in whole or in part, any public water, gas, or power supply, or installs or removes any device for the

purpose of such diversion." The terms "public water, gas or power supply, or other public services" means any service subject to regulation by the Illinois Commerce Commission and any service furnished by an electric cooperative as defined in Section 3.4 of the Electric Supplier Act. The legislation was sponsored by Representative Thomas Homer of Canton, who became aware of the extent of meter tampering problems through his contact with the Spoon River Electric Co-operative manager.

## Purchased power and added costs

Each month your Cooperative receives numerous inquiries from consumers as to why their bill would be higher even though their consumption used was less than the previous month. Even with the basic rate remaining the same, the PPAC, or "Purchased Power and Added Costs," fluctuates from month to month. This, in turn, will vary your bill from month to month. You could use 100 kilowatt-hours less one month and yet your billing would be higher due to a higher PPAC assessment. The PPAC assessment is a seven-digit multiplier which is shown on

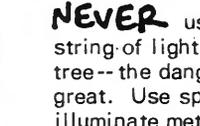
each of your monthly billing cards. This assessment is the fuel costs used in generating electricity and is assessed your Cooperative by our wholesale power suppliers. In turn, this cost is passed on to you, the consumer. In addition to your regular rate, this multiplier is taken times the number of kilowatt-hours you used. For example, if you used 1,000 kilowatt-hours and multiplied it times the PPAC multiplier for your October 5 bill of .0244000, there would be a \$24.40 PPAC assessment added to your basic rate. The basic rate plus the PPAC make up your monthly bill.

**SPECIAL TIPS**



**KEEP** water in base container. Check it often.

---



**NEVER** use regular string-of lights on a metal tree-- the danger of shock is great. Use spotlight to illuminate metal tree.

---



**PLACE TREE** away from heat sources and open flames

## Season's greetings

At this time of the year it is a pleasure to turn aside from everyday affairs and express to our members, old and new alike, our sincere appreciation for their friendship and good will.

All of us at McDonough Power Cooperative convey warm Season's Greetings and extend to you our best wishes for Health, Happiness and Prosperity in the coming year.

**Directors and employees  
 of McDonough Power Cooperative**

# Home energy help is available to eligible families through state-administered program

**I**llinois Home Energy Assistance Program (IHEAP) local administering agencies are now accepting applications for households of income-eligible families who believe they are eligible for assistance.

The Department of Commerce and Community Affairs is the state administering agency of IHEAP.

Illinois received from the U.S. Dept. of Health and Human Services a commitment of \$114 million for this program in fiscal year 1984. IHEAP provides grants to income-eligible renters and homeowners to pay heating and medically necessary cooling costs and to reconnect services lost. In 1982, 457,515 Illinois households received aid. Eligibility is based on the number of family members and their combined annual income.

"This program is not intended to pay all energy costs of the needy, but rather to reduce those costs by providing either a one-time grant to them or paying the utility vendor directly," Michael T. Woelffer, DCCA director, said.

Families who think they may be eligible for IHEAP assistance should

contact their local administering agency or call DCCA's toll-free energy hotline at 800-252-8643.

The following is a listing of agencies and telephone numbers in counties with electric service by electric cooperatives:

**Bond, Clinton, Marion and Washington counties:** BCMW Community Services, Inc., Centralia 618/532-7388

**Knox County:** Carver Community Action Agency, Galesburg 309/342-0158

**Christian, Clay, Effingham, Fayette, Montgomery, Moultrie and Shelby counties:** CEFS Economic Opportunity Corp., Effingham 217/347-5018

**De Witt, Logan, Menard, Mason and Opportunity, Inc., Greenup 217/nomic Development Corporation, Lincoln 217/732-2159**

**Macon County:** Decatur/Macon County Opportunities Corporation, Decatur 217/428-2193

**Clark, Coles, Crawford, Cumberland, Douglas, Edgar, Jasper, Lawrence and Richland counties:** Embarras River Basin Agency for Economic Opportunity, Inc., Greenup, 217/923-5115

**Fulton County:** Fulton County Health Department, Canton 309/647-1173

**Calhoun, Greene, Jersey and Macoupin counties:** Illinois Valley Economic Development Corporation, Carlinville 217/854-9677

**Madison County:** residents should contact DCCA toll-free at 800-252-8643.

**Livingston and McLean counties:** Mid Central Economic Opportunity Corporation, Bloomington 309/829-0691

**Morgan and Scott counties:** MSC Community Services, Jacksonville 217/243-4711

**Jo Daviess and Stephenson counties:** Northwestern Illinois Community Action Agency, Freeport 815/232-3141

**Peoria County:** Peoria Citizens Committee for Economic Opportunity, Peoria 309/671-3900

**Henry, Mercer and Rock Island counties:** Project NOW Community Action Agency, Rock Island 309/793-6350

**St. Clair County:** St. Clair County Community Action Agency, East St. Louis, 618/874-0371

**Sangamon and Cass counties:** Sangamon County Community Devl., Springfield 217/789-6688

**Alexander, Hardin, Johnson, Massac, Pope, Pulaski and Union counties:** Shawnee Development Council, Inc., Karnak 618/634-2201

**Bureau, Carroll, LaSalle, Lee, Marshall, Ogle, Putnam, Stark and Whiteside counties:** Tri-County Opportunities Council, Rock Falls 815/625-7830

**Tazewell and Woodford counties:** Tri-County Regional Planning Commission, East Peoria 309/694-4391

**Adams, Brown, Pike and Schuyler counties:** Two Rivers Regional Council of Public Officials, Quincy 217/224-8171

**Champaign County:** Urban League of Champaign County, Champaign 217/356-1364

**Ford, Iroquois and Vermilion counties:** Vermilion County Citizens Action Committee for Economic Opportunity, Inc., Danville 217/443-2705

**Franklin, Jefferson and Williamson counties:** Volunteer Services, Marion 618/997-4371 Ext. 239 or 270

**Edwards, Gallatin, Hamilton, Saline, Wabash, Wayne and White counties:** Wabash Area Development, Inc., Mill Shoals 618/896-5375

**Jackson, Monroe, Perry and Randolph counties:** Western Egyptian Economic Opportunity Council, Steeleville 618/965-3458

**Hancock, Henderson, McDonough and Warren counties:** Western Illinois Regional Council, Macomb 309/837-3941

