

features, other things to give important consideration are:

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

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

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

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

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

to insure comfortable, efficient, economical operation.

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

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

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

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

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

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## My Feet Were Killing Me...Until I Discovered the Miracle in Germany!

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

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

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

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

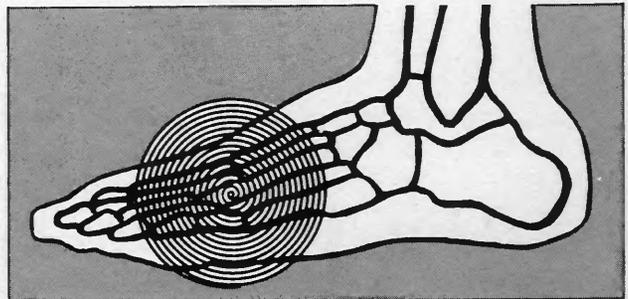
And just one pair was all I needed. I learned that women also can wear them—even with sandals and open backed shoes. They're completely invisible.

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

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

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

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



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

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

### WHAT PEOPLE SAY ABOUT THE MIRACLE:

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

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

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

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When in Seattle visit the Featherspring building.

# Norris Electric News

## Manager's Comments by Damon Williams

August in our country is a special time. It reminds me of a place I wish I could take you to that you will never see nor neither will I again because the government took it over and turned it into a place where power boats churn up and down with water skiers lacing the water and people plunking high-priced lures after bass. That's neither here nor there. It was an astounding place, full of names only I and a few others will remember. Places like Shrapanel Falls, Kells Knob, Streepy Bluffs and many others that are all but forgotten into

the dimness of time. Astounding is the only word to describe it. We could go to the top of one knob and for hundreds of acres east, north, south or west was a never-ending sea of green made up of miles and miles of hardwood timber rolling like green waves of a mighty sea.

This time of year the summer begins to wear a little thin and it begins to smell a little smoky like fall was knocking at the door. Things change as they always have changed. This is the way it should be and the way I hope it always will.

This past summer has been a lot of trouble to all of us. We have had more outages from lightning and windstorms than we have had in the past four or five years. The weather seems as if it has gone half crazy. It rips and tears things up and in

general plays the devil with everybody. Most people are pretty cooperative but some get exasperated and want to be put on ahead of everyone else. I guess this is the way it has always been. Whenever lightning and wind storms rip through the country you can bet your bottom dollar we are going to have power outages. Man with all of this technology, computers, magnificent flying machines, air conditioning and all the comforts that make up everyday living is still at the mercy and whims of Mother Nature. He is not omnipotent, he never will be and that's the way it should be.

But just hold on, before long the air will turn crisp and clear and we will see the first bright blue days of fall, and everybody will get in a better humor.

## The American Way

If your kids sold lemonade in front of the house this summer, they were taking part in free enterprise. By investing "their" money, probably yours, they hoped to make a profit. In this way, the economic system called free enterprise assures everyone the right to own property and to risk savings in hopes of making a profit.

But free enterprise means more — much more — than profits. It means that we, the people, have the freedom to choose what we want to buy, from whom we want to buy it, and most important, whether we will or will not return to buy again.

This freedom of consumer choice

causes people in business to compete against each other to woo us as customers. They must exert their finest skill, their best efforts, and practice a high standard of ethics in an attempt to gain our goodwill.

In a free enterprise economy, each person in business must sell, must influence, must convince us that he or she is the person with whom we want to do business.

Free enterprise really is a system by which the free choice of people regulates business and industry.

And this system has given us the highest standard of living in the world.

**Save This Number**  
New telephone number  
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Newton, IL  
618\783-8765**

### This is important in reporting outages

OFFICE HOURS: 8:00 a.m. to 5:00 p.m. Monday through Friday Closed Saturday and Sunday. Phone: Area code 618-783-8765

To report an outage after office hours or on Saturdays, Sundays or holidays call — 783-8765 first.

If no answer, dial 783-3221  
783-2059  
783-3870  
783-2149  
or Lawrenceville area 943-4373  
or Claremont area 869-2338

Please — When reporting an outage have your line and account number ready. You will find it in the lower left hand corner of your meter reading card.

# Stormy Weather

BY ERNIE WEBER

"Stormy weather, there's no sun up in the sky and it seems to rain all the time. Life is bare, gloom and misery everywhere."

Tony, our son who plays the drums with a rock and roll group and usually goes in for the loud stuff, was playing this song on his complicated electronic four-speaker turntable and cassette player, and I thought to many this was an old-time favorite, but to those living in the Lake Sara and Lake Lawrence area, and for those fighting electric outages, it's for the birds.

These areas had their share of stormy weather with rain and high winds, lightning and outages during the last of June and early July. During this stormy period, we had trouble to some degree in all the counties we serve. Some of the areas effected the most were Effingham County, Lawrence County, which was mostly east and south of Lawrenceville, and the area in Richland County, south and west of Olney. As bad as it was, we were indeed more fortunate than our neighbors to the south who were without electricity for days.

Regardless of the type of outages experienced, you should be able to cope with the situation.

In the event of an outage, we should always have on hand a flashlight with fresh batteries, matches, candles and a portable radio

with fresh batteries.

Should you have an extended outage in the summer, keep refrigerator and freezer doors closed. If thawing begins, put wet or dry ice in, if it is available. Your freezer should be good for 72 hours. A picnic cooler is handy to store ice and luncheon meats in. Should your refrigerator completely thaw out, you can at least have sandwiches. If necessary, cook in a fireplace, over a barbecue grill or on a camp stove. Use a grill outdoors, if possible, to avoid the danger of fire or toxic fumes. Open windows and doors for ventilation to keep the house from becoming hot and stuffy.

The first thing to do when you have a power outage is check your fuses or breakers in the house. If your meter is on the pole, check the breakers below the meter. Push them down and back up. Check to see if your neighbors' lights are off. If breakers are all right, call Norris Electric Cooperative. The phones may be busy, but keep trying. We have four incoming lines that are handling calls as fast as they can.

To help us to handle more phone calls during the outage, have your service location ready, giving us your line and account number. You will find this in the lower left hand corner of your meter reading card. Having this information ready will expedite

your call. Next give us the time your power went off, for this may help us to determine the extent of the outage and aid in repairing your service. Comparing the time may tell us how far back toward the substation the power failure may be. We would also appreciate knowing of any lines that are down or dangerous situation that we should be aware of. You should turn off all electrical appliances that were on, especially air conditioners or electric heating systems. This will permit the power to be restored sooner without being knocked out again by automatic limiting devices that protect your electric distribution system from damaging overloads.

Once the electricity is on again, turn on the appliances that you had previously turned off, if they are needed.

**CAUTION:** If you have a heat pump and it's winter, don't reset the thermostat to the on position as soon as the power comes back on. You must allow time for the crankcase heater to change all the liquid refrigerant back into gas again.

As sure as we have stormy weather with high winds and lightning we are going to have outages.

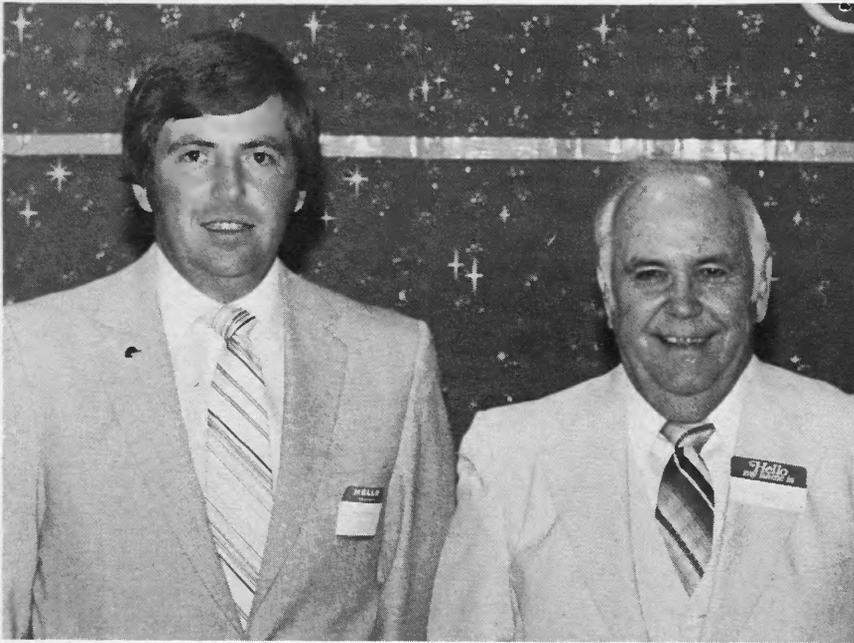
After the power has been restored and all appliances are turned back on that need be, then those who want to may play that old-time favorite *Stormy Weather*.



*This tree without limb and top located between Robert Leach and Helen Wise caused the outage at Lake Lawrence.*



*In the Beach Comber Addition, this tree damaged by high winds is one of several being sawed into firewood.*



Tim Reeves

R.T. Reeves

### Board selects son as successor

## Southern's Reeves retiring

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

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

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

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

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

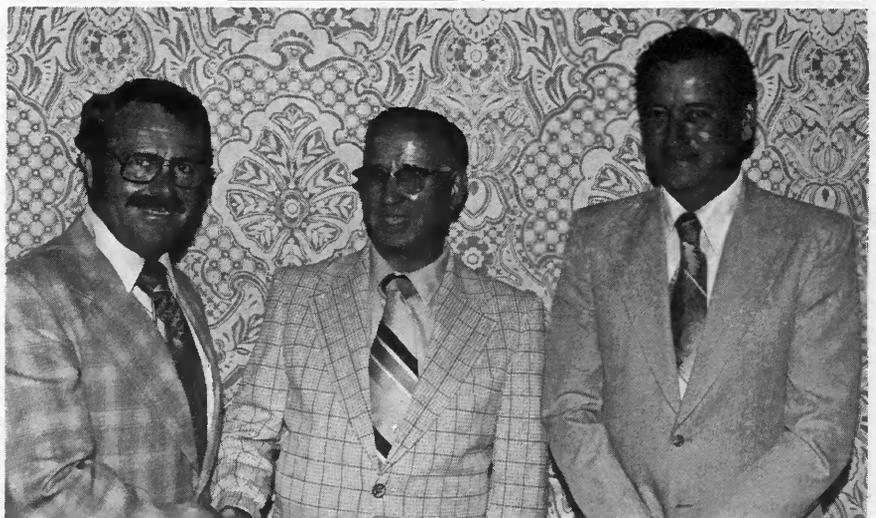
"The real beneficiaries of this succession are the members of Southern Illinois Electric Cooperative — they're getting an excellent manager," Holloway concluded.

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

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

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

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



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

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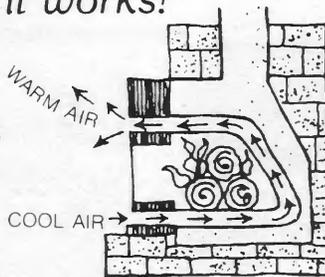
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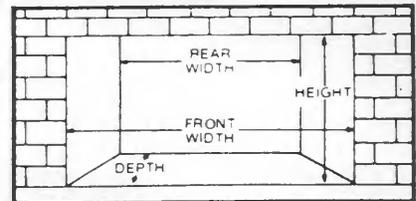
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Approximate winter utility bill:  
 Electric: \$\_\_\_\_\_ per mo. Gas: \$\_\_\_\_\_ per mo.

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# Norris Electric News

## Manager's Comments

by Damon Williams

One of my favorite subjects, and probably one that I know the least about, is herbology. I was brought up by a particular family of people that made it not only part of their medicinal life but it played many parts in rituals and superstitions that affected their everyday life.

Along about this time of year when the winds of summer begin to burn through the country, one of the most famous of all of the herbs is called burnet. Now, if you are familiar with borage in the culinary department, it is very similar. It smells like cucumber and can be added to salads, iced drinks and cheese spreads for a delectable flavor enhancer. I remember very well

my grandmother gathering it at this time of year along the grassy hillsides in a country that was so wild and lonely that human beings were very few. It is a native of Europe but it is also found growing wild throughout the United States or at least the eastern part. In some areas it has been regarded as a weed but only because many people did not know how to enjoy the precious herb that could and will grow in your garden.

Burnet has an interesting medical history. It is said to be a natural coagulant when applied to cuts and wounds. It also has the reputation of slowing the flow of blood from a wound. Legends tell us that long ago a Hungarian king used burnet to heal the wounds of some 15,000 wounded soldiers after a great and famous

battle. Even during our own American Revolution many soldiers were said to have a cup of burnet tea the night before entering battle so that if they were wounded they would not bleed to death. It grows in the full sun and well-drained soil. Use only the tender leaves, as they become tough with age. And a little warning — the leaves should be pulled before the greenish red flowers appear or you could get the worst tummyache you ever had.

What does that have to do with electricity? Nothing! Except I see it growing along our lines where we have removed brush and trash growth to keep the lines clear. It seems to thrive and do well. It probably grows underneath the power lines somewhere in your neighborhood.

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or holidays call — 783-8765  
first.

If no answer, dial      783-3221  
                                     783-2059  
                                     783-3870  
                                     783-2149  
or Lawrenceville area   943-4373  
or Claremont area      869-2338

Please — When reporting an  
outage have your line and  
account number ready. You will  
find it in the lower left hand  
corner of your meter reading  
card.



## Are you paying twice to use your major appliances?

You are if you use major heat-producing appliances during the hottest hours of the day when your air conditioner is already working overtime!

A rule of thumb is that for each one cent of electricity used by heat-producing appliances, it costs as much as one-half cent more to cool your house because of the added warmth from the appliances. By using heat-producing appliances — such as the stove, electric clothes dryer, clothes washer or dishwasher — during the morning and after 8:00 p.m., you'll find you need less electricity to cool your home.

Time your use of energy to get the most for your energy dollars and at the same time you'll be helping your electric cooperative lower peak demand on its system. If you desire help planning more efficient use of energy, contact your electric cooperative headquarters. We're here to help.

# I would like electricity brought to my property

By JOHN MENKE

Construction Superintendent

JAS

We get this request hundreds of times a year. What is involved by this request? The following will give a brief description of what has to be done.

When you call in, or personally see us, the employee you talk with will ask where the exact location of your new service will be. Some of the questions we ask may seem silly but they are asked so we will know where and what type of service is required. Knowing the name of your nearest neighbor is very helpful because a lot of your local landmarks are not familiar with us. Then you will be asked what kind and how many electrical appliances you will have. This determines what size service will be built.

In a few days we will be out to locate and stake your new line and service. This will insure that we will have the proper line clearance over roads, cables, etc. so as to avoid any future trouble. When the staking man leaves, he will have plotted where each pole and anchor will be located and all the material required to complete the job. This information is recorded on a staking sheet for a permanent record in our office. Also the construction crew will know where each pole and anchor will be located.

If this line happens to cross over your neighbor's property, the party asking for the new service will be required to secure right-of-way on all property involved. This right-of-way grants Norris Electric the right to build and maintain this line for the present and the future, even after you and I are gone.

Sometimes rights-of-way for poles and guys are difficult to obtain. We realize poles and guys are difficult to farm around and we try our darndest to place them out of the way, but sometimes this is impossible.

If any of you good people are asked to grant right-of-way for another person, please be as cooperative and neighborly as possible. We are enjoying the benefits of electricity today because of those who were helpful and concerned in the past.

After the right-of-way has been acquired, the person requesting electricity will have to make arrangements for

the removal of any trees that are in the way of the proposed line. You will be asked to secure a membership in the Norris Electric Cooperative. Each and every consumer is a member with the same and equal rights as any other member. This is your cooperative, so be proud of this fact, because without you and all the others like you, we would not exist.

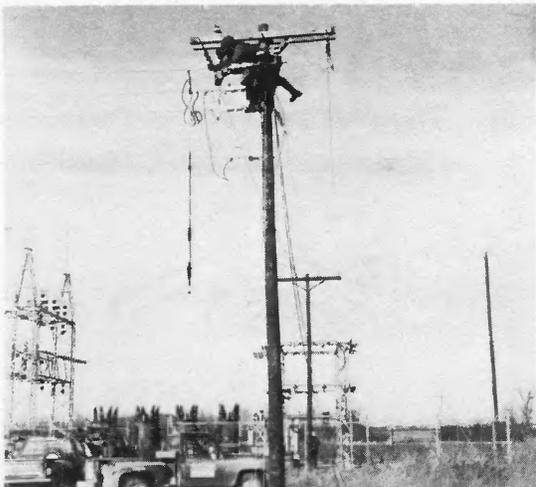
After all of the requirements are met, then as time permits and depending on how many others are waiting ahead of you, our efficient and capable crews will be out to build your service.

As you can see there is no way we can build your service the next day after your request. Planning your needs in advance will help insure the electricity being there when you desire it. Building the line is sometimes difficult because of the terrain and weather conditions. The pictures accompanying this article show our crews installing two different types of line construction. The new three-phase line shown is being built west out of our Annapolis Substation as a continuing effort to maintain the best service possible to our consumers. About one mile of this feeder consisted of all new construction. The other mile of this line was conversion from single phase to three phase. In conversion, under most circumstances, new poles and wire have to be installed in place of the old poles and wire. A job this size takes about two weeks by our hard-working crews.

By working on short sections of line and switching feeds, the number of consumers without electricity is kept at a minimum during the work day.

The other job shown is a single-phase line being constructed for a couple of new houses being built back in a wooded area. This consisted of eight poles and other necessary material, which our three-man crew completed in one and one-half days.

In closing, be patient and helpful with requests from others, because cooperation in the past has made what was thought by some to be impossible: electricity in the rural area.



*Men working on the new feeder line out of the Annapolis Substation.*



*The take off of the single-phase line was handled in this manner.*

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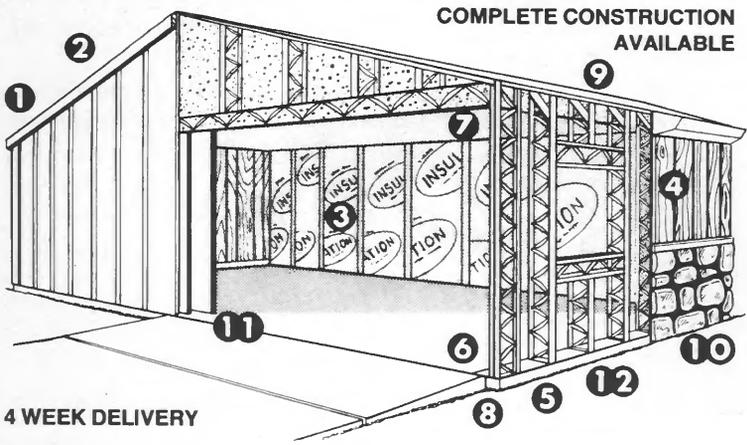
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## Selection and location...

(continued from page 13)

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

For outside uses, such as yard

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

with an end result being more light for less dollars.

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

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

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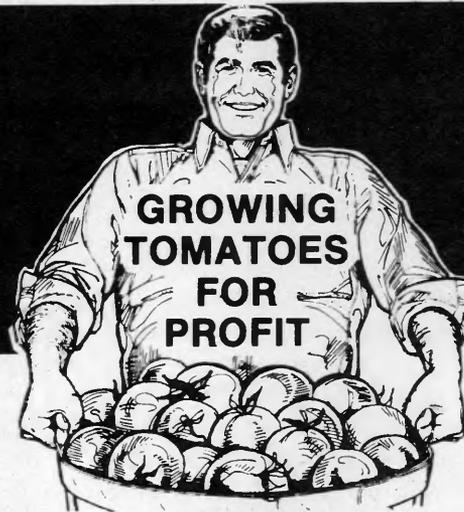
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# Norris Electric News

## MANAGER'S COMMENTS

By  
Damon Williams

A lot of things have happened in this century. Anyone who was born in it has seen most of them happen. And what we haven't seen, our kinfolk have told us about. We saw the end of the good hunting because, quite frankly, we meat hunted the game, shot most of the buffalo, cut the fence rows down, and in order to feed a hungry populace farmed every bit of ground that could be plowed up or taken care of. I suppose the women stirred up a ruckus about all their men folk spending too much time in the saloons and we got prohibition and with it all the ills of "pot likker" that was probably a cheap grade of embalming fluid and caused a lot of people to go blind. That was changed and we're back to needle beer and all the rest.

We invented the automobile, the jet plane, coast-to-coast flights, and we

got mixed up in all kinds of wars, watched the stock market almost close and people rebelling in the streets. We created welfare, we generated more and more electricity and made the atomic bomb. With it passed a lot of nostalgic memories of things that I was told about and some I just barely recollect. One of them was the demise of nickel beer and the free lunch. Most people never heard of a free lunch and I can barely remember my dad taking me into a long, oak bar, shiny and bright, dark and dim, and upon the top of it was a most enormous feast you ever saw. It was made up of pickled pigs feet, a big pair of wooden tongs that you fished them out of a wooden tub, cheeses by the dozens, a big loaf of salami, bowls of mulligan and some of the finest German foods you have ever had—sardines, herring, hot roast beef and about anything an ever-hungry boy could stuff down his gullet. If I remember right, my dad drank a couple of beers and that made him "par for the course" and we could just about eat anything we wanted.

Actually the free lunch is gone forever. There is no such thing as free lunch. We don't have it in welfare, don't have it in electricity, we don't have it in anything else because if somebody gets it for free, somebody else has to pay for it.

That's the way it is with the electricity we use today. It's going up, up and up. The reason it is going up is the same reason everything else under the sun has gone up—inflation, high cost of labor, material and everything else. I don't know the answer. The best advice that anyone can give you is to quit using so doggone much of it. It's just that simple. The less you use, the less you pay. And that is the only solution to it as far as I can see. A lot of smart alecks will tell you to do this and do that and give you all kind of gimmicks and trick methods but the main thing and the best factor entering into this formula is you yourself. You are the one that pays for it, you are the one that could use less of it. It's just that simple.

## Annual Meeting

The 42nd Annual Meeting of Norris Electric Cooperative was held in Newton High School Auditorium on Saturday, January 19, 1980.

Director John W. Adkisson gave the invocation and Attorney Paul Riggle led in the Pledge of Allegiance. Reports were given by Earl Minderman, President of the board; Frank Seiler, Treasurer, and Damon Williams, Manager. Directors John W. Adkisson, Crawford Co., Lyman Crumrin, Clark Co., Ray Deters, Cumberland Co.,

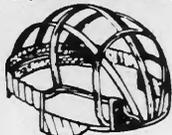
Loren Litherland, Wabash Co., Earl Minderman, Lawrence Co., and Howard Wolf, Jasper Co., were reelected to serve two years. Entertainment was provided by the Adams family, who live in Wabash County, and are members of Norris Electric. Immediately following the business meeting names were drawn for winners of prizes.

If you were there, your picture may appear somewhere on these pages.





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**Obituary**

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

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

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

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

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

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



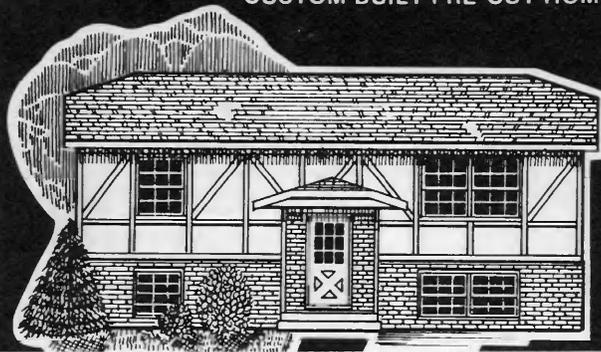
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# Norris Electric News

## Manager's Comments

by Damon Williams

September comes and when it does, summer is on its way out. The last part of September the warm, sickening, milky smell of summer is burnt out of the air and by then has been replaced by the lonesome, nostalgic smell of leaves burning and the tart, juicy goodness of the last of the grapes. You begin to feel your blood sparkle and you are no longer loggy and heavy with the lethargy of a hot summer.

Sometimes Gertrude will fix a breakfast of pancakes and bacon and that's just fine. Once in a great while the wind will whip around from the north and there will be a thin screech in its sound that tells you one day soon you will wake up and the country will be covered with the first killing frost.

Something else usually happens by the end of this month. And that is the sullen roar of a combine heard throughout the land. This brings a special danger to the men operating these combines and there is something I would like to point out to you. Oh, it's not the fact that you can get your

arm or your leg cut off or lose your life working on them. It's the fact that every year after a long, tiresome, gruesome, sometimes hot day some of our consumers put in wheeling the giant monsters around, they get tired and fail to see a guy wire or pole on their turns and a disaster lying ahead of them. The wires that are above you, irregardless of the voltage they carry whether it is 120 or 7,200 can kill you dead as a hammer. If you hit a guy wire and break off a pole, for heaven's sake don't reach out and try to get the wire off by hand or touch it in any way. Get help and call Norris Electric.

Another suggestion — if you have wires hanging on the top of an enclosed combine or tractor, don't jump off one foot on the ground, one foot on the equipment. You

could complete the circuit and be burnt to a crisp.

Watch it! Electricity is dangerous. Although we use it every day and become accustomed to it, don't take any chances with touching any wire — even one rolled up in a warehouse can roll over and bust your foot. It's something to be extremely careful of. Never, never touch a fallen wire or climb a tree or a ladder in any way and touch any wire whatsoever on an energized circuit. To do so could kill you.

### This is important in reporting outages

OFFICE HOURS: 8:00 a.m. to 5:00 p.m. Monday through Friday Closed Saturday and Sunday. Phone: Area code 618-783-8765

To report an outage after office hours or on Saturdays, Sundays or holidays call — 783-8765 first.

If no answer, dial 783-3221  
783-2059  
783-3870  
783-2149  
or Lawrenceville area 943-4373  
or Claremont area 869-2338

Please — When reporting an outage have your line and account number ready. You will find it in the lower left hand corner of your meter reading card.

### Something to think about

Did you know that every President elected in a year ending with a zero, since 1840, died in office? Yes, it is true. Here's the record:

1840 — William Henry Harrison  
1860 — Abraham Lincoln  
1880 — James A. Garfield  
1900 — William McKinley  
1920 — Warren G. Harding  
1940 — Franklin D. Roosevelt  
1960 — John F. Kennedy

Let us hope that this 140-year-old statistic will not be extended.

### The American Way

#### FOUR TO PRESERVE

1. — *A holy bible*, the symbol of your right to worship as you wish. (First Amendment, U.S. Constitution)

2. — *A door key*, which represents your right to lock your door against illegal government force, entry, and inspection. (Fourth Amendment, U. S. Constitution)

3. — *A pencil*, a symbol of your freedom to speak and write what you think, whether you agree with the government or not. (First Amendment, U.S. Constitution)

4. — *A free ballot*, which insures your right to choose the people who represent you in government — your protection against government tyranny. (Article 11, U.S. Constitution)

# Village Blacksmith

By JOE WARE

The town of Hazel Dell has one of the few remaining blacksmith shops in the area.

William Hawker, a resident of the town, started a blacksmith shop just west of the grocery store in the early twenties and moved to the present location in 1936. William and Loreen raised three boys and three girls, and all but one are residents of Hazel Dell.

Howard Hawker began helping

his father and learning the trade before he entered the air force in February of 1941. He received his training at Chanute Air Force Base and later he was stationed in England with the 8th Air Force and the 447 Squadron. During his time in England he completed 33 missions on a B-17.

Returning from the service, he picked up where he left off. At one time he and his brother had a garage with the blacksmith shop, his brother being the mechanic. But for the last 25 years he has been in business by himself.

Howard married Clella Taylor from Noble in July of 1955 and they have two daughters, Barbara and Shelby, and two sons, Paul and Charles.

The tools of the trade are very

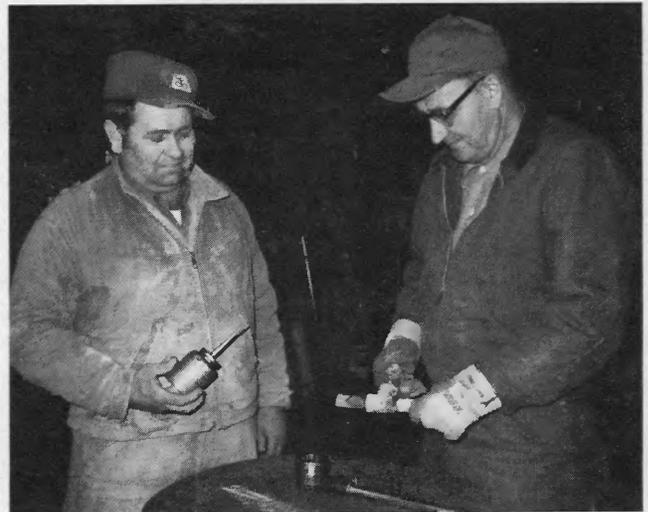
much in evidence but the job has changed. The old forge that once used special coal from Virginia is now fired by propane gas and the large horseshoe anvil now serves a different purpose. The old trip hammer is still used for plowshares but of a different vintage. In the corner is his father's roll top desk with a metal pipe around it to keep the loafers from damaging an old keepsake.

Howard is kept busy these days with just general repair of equipment, from changing spark plugs to working on cylinder bars of combines and helping his neighbors and community with odds and ends.

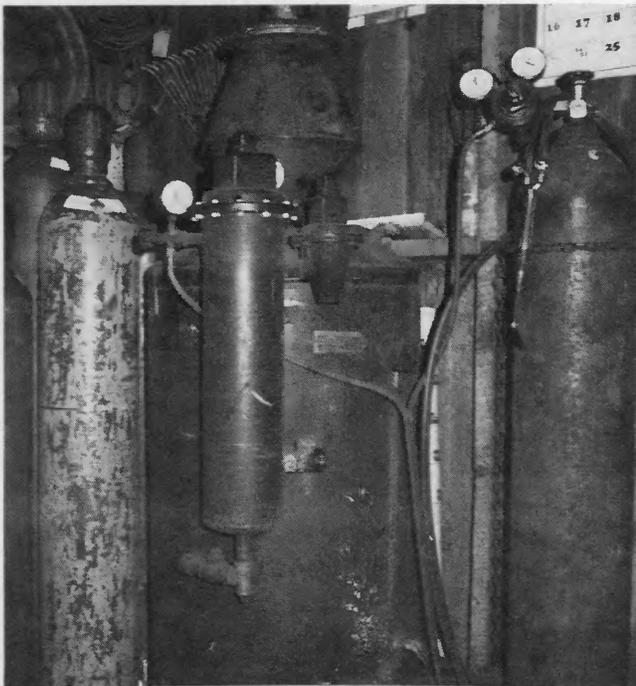
He said he would always remember the morning Damon Williams got them out of bed to connect their service.



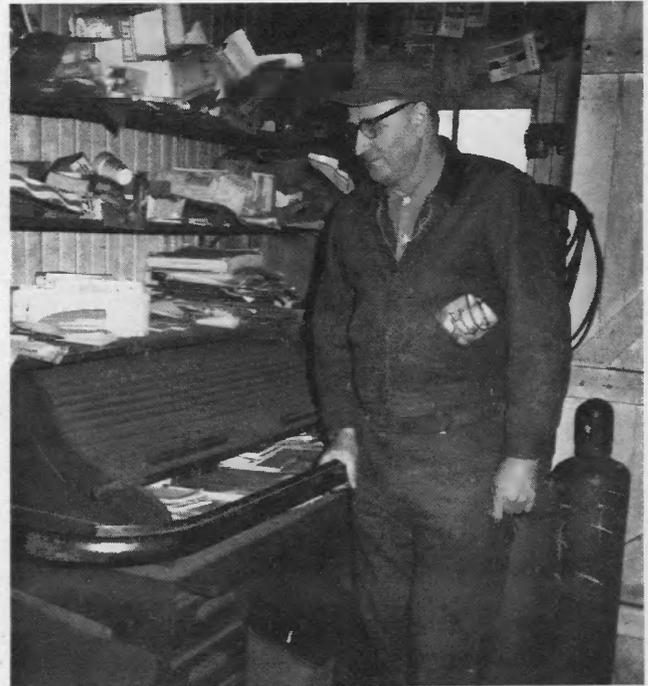
*Mr. and Mrs. Howard Hawker*



*Lyle Nash repairing frozen water line.*



*Carbide generator and acetylene torch.*



*Roll top desk with protective bar.*

energy  
efficiency

# Plenty of homework to do before starting insulation project

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

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

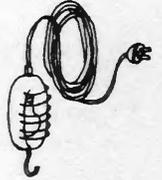
installation. This is, perhaps, an oversimplification of the procedure. There are, however, many homeowners who are unfamiliar with what needs to be done, what is available, and what their best method of installation of insulation would be.

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

## For do-it-yourselfers

### Tools

1. Temporary lighting



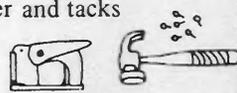
2. Temporary flooring



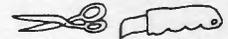
3. Duct or masking tape (2" wide)



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



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



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

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

There are different techniques for installing insulation materials in the

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

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

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

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

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

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

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

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

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

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

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

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

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

**Thermal Transmission** — the passage of heat through a material.

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

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

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

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

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

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

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

or mechanical means, to or from any space.

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

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

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

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# Norris Electric News

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## Manager's Comments by Damon Williams

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October comes in and usually it is full of nice, bright, clear days that take your breath away. If we are lucky the sun usually shines and the blueness of eternal October gives us promises of better things to come. Or at least that's the way it seems.

It's a fine time of the year and one that we all enjoy. It also is the time of the year when the herb gatherers usually gathered many of the medicinal herbs that they used in their so-called "cures" for everything from bee stings to boils.

One of the favorites of the herbologists is one called comfrey. It is an old, known herb and is commonly called knitbone or bone-knit because it is supposed to be beneficial in the cure of healing broken bones. That I take with a grain of salt. Nevertheless, it was used as such in the olden days. It is thought to come from England since it is not a native American herb and the old English books that taught the practice of medicine are

full of tales and how this miracle herb healed broken bones, carbuncles, wounds and everything else under the sun that happens to us fragile human beings.

The plant itself grows about two feet tall. It's lower leaves look like a donkey's ear and are covered with fine, downy, hair-like appendages. The root is large and very black on the outside and white inside. It is fleshy and about the consistency of paste or mucilage. Many people used to feed it to livestock and claimed it made them healthy and gain weight. I don't recommend it, but that's what they used to do. Nevertheless, it is available in specialized nurseries and occasionally through advertisements in some of the magazines catering to such plants. As a perennial, comfrey will return every year in the garden. Although it is not prized for its appearance, it is certainly well known for its so-called curative powers.

But enough of that. Summer has come and gone and irregardless of whether we agree with it or not, electric rates are going up and will continue to go up. There is no end in sight. Don't let anybody kid you. So is the price of oil, gas and everything

else under the sun.

But strangely enough, and almost frightening in it's truth, is the fact that the American people irregardless of the cost of gasoline, electricity or food, continue to drive just about as much as we always did, eat more than we should and this past summer during all the hot blistering days of July and August, we used more electricity (caused by air conditioners) on Norris Electric's lines than ever.

This costs money. It comes right out of your pocket and "baloney" that is being put out about cheaper and better ways to generate electricity take with a great big wad of salt. It just "ain't" so. The nuclear power boys try to tell us everything will turn out right if we only go to their form of generation. I don't believe it. Since in this country we are not situated for hydro-electric it seems like our best bet is the coal-fired generator for which all of Norris Electric's current is generated. All of these people at one time or another will claim to be able to generate electricity cheaper than the other. Funny thing, I see most of the rates and they are all practically the same. In other words, they are all high as hell!

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## The Age Of Computers

### Faster, Economical, Accurate

Data is processed much faster by computer than it could ever be accomplished by any other method.

Computers are economical, because to do our work any other way would cost much more for labor, for additional building space, than is required by the installation of a computer in our office.

Contrary to belief of many people, computers are accurate. It is the human being coding information for the computer and operating the computer that can make mistakes.

Since 1973, we have used a computer in our office for most of our volume work such as consumer billing system, material inventory,

payroll system, pole and plant records, general ledger with trial balance and operating reports, construction and retirement work orders, capital credits distribution and history. The NCR Century served us well, but has become obsolete and worn.

On August 21, 1980, a New NCR Model 8410 Computer was delivered to our office to replace the NCR Century. On the following day we started testing programs and started to run all applications parallel.

The conversion to the new computer has been very smooth. NCR systems analysts Dick Boland and Tim McDaniel assisted us for three days.

The new computer has a faster processor, more memory and a faster printer. The disc packs hold three times the information that was contained on the old disc packs. The Model 8410 has on-line inquiry capability which we plan to make use of in the future.

We like our on-premise computer because we can plan our work and process the work as it is needed and keep our records up to date.

We are proud of our employees, their ability and knowledge.

Rowena Hutson  
Administrative Assistant

# Employees who operate Norris' new computer



Keypunch operators Becky May, Shirley Woodard, Christine Klier and Carla Probst. Information input to the computer is by punched cards.



Billing Department employees with the new Model 8410 NCR Computer. At the console is Julie Girhard, left to right – Carolyn Grubaugh, Carol Kocher, Nancy Lewis, Judy Smith, Marcella Menke, Rhonda Huddleston.



The Accounting Department uses the computer for Material Inventory, Payroll System, Quarterly and Annual Tax Reports, Construction and Removal Work Orders, Plant Records, General Ledger with Trial Balance, Monthly Operating Statements and Comparative Balance Sheet. At the Console is Dorleen Webb and behind her, left to right, are: Madge Jobe, Donna Smallwood, Debbie McCall, Mary K. Brown and Rowena Hutson.



Fern Newton, Secretary to the Manager, at her new electronic typewriter which has a memory and in itself is a small computer. The typewriter memory stores typewritten material that can be used to type identical material automatically. The storage capability eliminates much retyping when copy is revised. Errors are easily corrected and columns of numbers automatically aligned.

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**GENE AUTRY - CS-1035 ALBUM \$2.98**  
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8 TRACK TAPE - 18C-01035 \$4.98

**PATSY CLINE - MCA-12 ALBUM \$2.98**  
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8 TRACK TAPE - MCAT-12 \$4.98

**PATSY CLINE - MCA-87 ALBUM \$2.98**  
I Fall To Pieces; Foolin' 'Round; The Wayward Wind; South Of The Border; I Love You So Much It Hurts; Seven Lonely Days; Crazy; San Antonio Rose; True Love; Walking After Midnight; A Poor Man's Roses; Have You Ever Been Lonely.  
8 TRACK TAPE - MCAT-87 \$4.98

**PATSY CLINE - MCA-90 ALBUM \$2.98**  
She's Got You; Heartaches; That's My Desire; Your Cheatin' Heart; Anytime; You Made Me Love You; Strange; You Belong To Me; You Were Only Fooling; Half As Much; I Can't Help It; Lonely Street.  
8 TRACK TAPE - MCAT-90 \$4.98

**PATSY CLINE - MCA-224 ALBUM \$2.98**  
Faded Love; I'll Sail My Ship Alone; When You Need A Laugh; Ship Arms; Always; When I Get Thru With You; Blue Moon Of Kentucky; Someday You'll Want Me To Want You; Who Can I Count On; You Took Him Off My Hands; Your Kinda Love; Does Your Heart Beat For Me.  
8 TRACK TAPE - MCAT-224 \$4.98

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8 TRACK TAPE - TRR-254 \$4.98

**RED FOLEY - MCA-86 ALBUM \$2.98**  
I'll Fly Away; The Last Mile Of The Way; No Tears In Heaven; Were You There; This World Is Not My Home; My Soul Walked Through The Darkness; Just Can't Keep From Cryin'; Lord I'm Coming Home; Only One Step More; Stand By Me; Farther Along; Life's Railway To Heaven.  
8 TRACK TAPE - MCAT-86 \$4.98

**RED FOLEY & KITTY WELLS - MCA-83 ALBUM \$2.98**  
One By One; Just Call Me Lonesome; As Long As I Live; A Wedding Ring Ago; Make Believe; Candy Kisses; You And Me; Memory Of A Love; I'm A Stranger In My Home; I'm Throwing Rice; No One Buy You; I'm Counting On You.  
8 TRACK TAPE - MCAT-83 \$4.98

**RED FOLEY - MCA-147 ALBUM \$2.98**  
Beyond The Sunset; Should You Go First; Peace In The Valley; Steal Away; Just A Closer Walk With Thee; Out Lady Of Fatima; The Place Where I Worship; Someone To Care; The Rosary; Will The Circle Be Unbroken; Old Pappy's New Banjo; I Hear A Choir; When God Dips His Love In My Heart.  
8 TRACK TAPE - MCAT-147 \$4.98

**LEFTY FRIZZELL - CA-9288 ALBUM \$2.98**  
Saginaw, Michigan; Mom And Dad's Waltz; Release Me; Always Late (With Your Kisses); I Love You A Thousand Ways; She's Gone Gone Gone; If You've Got The Money I've Got The Time; The Long Black Veil; I Want To Be With You Always; Shine, Shine, Shower (It's Saturday); A Little Unfair.  
NO TAPE AVAILABLE

**GUY LOMBARDO - MEDLEYS - MCA-103 ALBUM \$2.98**  
Blues In The Night; The Birth Of The Blues; I Gotta Right To Sing The Blues; Memories; Let The Rest Of The World Go By; My Buddy; Secret Love; Love Nest; Love Is The Sweetest Thing; Something To Remember You By; The Very Thought Of You; You're My Everything; Kiss Me Again; A Kiss In The Dark; I'll See You Again; By The Light Of The Silvery Moon; Shine On Harvest Moon; Moonlight Bay; As Time Goes By; Blidin' My Time; Breezin' Along With The Breeze; I Want To Be Happy; I'm Looking Over A Four Leaf Clover; Happy Days Are Here Again; April Showers; September In The Rain; I Only Have Eyes For You; If I Could Be With You; It Had To Be You; In A Shanty In Old Shanty Town; Three Little Words; Baby Face; Somebody Loves Me; Don't Take Your Love From Me; What Is This Thing Called Love.  
8 TRACK TAPE - MCAT-103 \$4.98

**LORETTA LYNN - MCA-5 ALBUM \$2.98**  
Everybody Wants To Go To Heaven; Where No One Stands Alone; When They Ring Those Golden Bells; Peace In The Valley; If I Could Hear My Mother Pray Again; The Third Man; How Great Thou Art; Old Camp Meetin' Time; When I Hear My Children Pray; In The Sweet Bye And Bye; Where I Learned To Pray; I'd Rather Have Jesus.  
8 TRACK TAPE - MCAT-5 \$4.98

**LORETTA LYNN - MCA-6 ALBUM \$2.98**  
You Ain't Woman Enough; Put It Off Until Tomorrow; These Boots Are Made For Walkin'; God Gave Me A Heart To Forgive; Keep Your Change; Someone Before Me; The Darkest Day; Tippy Toeing; Talking To The Wall; A Man I Hardly Know; Is It Wrong; It's Another World.  
8 TRACK TAPE - MCAT-6 \$4.98

**LORETTA LYNN - MCA-7 ALBUM \$2.98**  
Who Says God Is Dead; I Believe; Standing Room Only; The Old Rugged Cross; Harp With Golden Strings; If You Miss Heaven; I'm A'Gettin' Ready To Go; In The Garden; Ten Thousand Angels; He's Got The Whole World In His Hands; Mama, Why.  
8 TRACK TAPE - MCAT-7 \$4.98

**LORETTA LYNN AND CONWAY TWITTY - MCA-8 ALBUM \$2.98**  
It's Only Make Believe; We've Closed Our Eyes To Shame; I'm So Used To Loving You; Will You Visit Me On Sunday; After The Fire Is Gone; Don't Tell Me You're Sorry; Pickin' Wild Mountain Berries; Take Me The One I Can't Live Without; Handin' On; Working Girl.  
8 TRACK TAPE - MCAT-8 \$4.98

**LORETTA LYNN AND CONWAY TWITTY - MCA-9 ALBUM \$2.98**  
Lead Me On; Shade Tree Music; When I Turn Off My Lights; Never Ending Song Of Love; Playing House Away From Home; You're The Reason; How Far Can We Go; You Blow My Mind; Easy Loving; Back Street Affair; I Wonder If You Told Her About Me; Get Some Lovin' Done.  
8 TRACK TAPE - MCAT-9 \$4.98

**LORETTA LYNN - MCA-113 ALBUM \$2.98**  
Don't Come Home A Drinkin'; I Really Don't Want To Know; Tomorrow Never Comes; There Goes My Everything; The Shoe Goes On The Other Foot Tonight; Saint To A Sinner; The Devil Gets His Dues; I Can't Keep Away From You; I'm Living In Two Worlds; Get What Cha' Got And Go; Making Plans; I Got Caught.  
8 TRACK TAPE - MCAT-113 \$4.98

**LORETTA LYNN - MCA-444 ALBUM \$2.98**  
They Don't Make 'Em Like My Daddy; Behind Closed Doors; If You Love Me; I've Never Been This Far Before; We've Already Tasted Love; Out Of Consideration; Trouble In Paradise; I Love; Don't Leave Me Where You Found Me; Ain't Love A Good Thing; Nothin'.  
8 TRACK TAPE - MCAT-444 \$4.98

**LORETTA LYNN - MCA-471 ALBUM \$2.98**  
The Pill; Will You Be There; It's Time To Pay The Fiddler; Paper Roses; You Love Everybody Buy You; Mad Mrs. Jesse Brown; Back To The Country; The Hands Of Yesterday; I Can Help; Another You; Linda On My Mind; Jimmy.  
8 TRACK TAPE - MCAT-471 \$4.98

**LORETTA LYNN AND CONWAY TWITTY - MCA-335 ALBUM \$2.98**  
Louisiana Woman, Mississippi Man; For Heaven Sake; Release Me; You Lay So Easy On My Mind; Our Conscience You And Me; As Good As A Lonely Girl Can Be; Bye Bye Love; Living Together Alone; What Are We Gonna Do About Us; If You Touch Me; Before Your Time.  
8 TRACK TAPE - MCAT-335 \$4.98

**MILLS BROTHERS - MCA-188 ALBUM \$2.98**  
Paper Doll; I'll Be Around; You Tell Me Your Dream; I'll Tell You Mine; Till Then; You Always Hurt The One You Love; Don't Be A Baby, Baby; Across The Alley From The Alamo; Be My Live's Companion; The Glow Worm; Queen Of The Senior Prom; Smack Dab In The Middle; Opus One.  
8 TRACK TAPE - MCAT-188 \$4.98

**PATTI PAGE - CS-9326 ALBUM \$2.98**  
Tennessee Waltz; Cross Over The Bridge; Old Cape Cod; Doggie In The Window; Mister Mississippi; I Went To Your Wedding; Mockin' Bird Hill; Allegheny Moon; With My Eyes Wide Open I'm Dreaming; Changing Partners; Detour.  
8 TRACK TAPE - 18C-09326 \$4.98

**RAY PRICE - CS-8866 ALBUM \$2.98**  
Crazy Arms; You Done Me Wrong; City Lights; Invitation To The Blues; I've Got A New Heartache; Who'll Be The First; Heartaches By The Number; The Same Old Me; Release Me; One More Time; My Shoes Keep Walking Back To You; I'll Be There.  
8 TRACK TAPE - 18C-00094 \$4.98

**CARL SMITH - CS-8737 ALBUM \$2.98**  
Hey Joe; There She Goes; Old Lonesome Times; Are You Teasing Me; I Feel Like Cryin'; Doorstep To Heaven; Let Old Mother Nature Have Her Way; The Little Girl In My Home Town; If You Saw Her Through My Eyes; You're Free To Go; Gettin' Even; I Overlooked An Orchid.  
8 TRACK TAPE - 18C-00110 \$4.98

**ERNEST TUBB - MCA-16 ALBUM \$2.98**  
Walking The Floor Over You; Rainbow At Midnight; Let's Say Goodbye Like We Slad Hello; Another Story; Thanks A Lot; Half A Mind; I'll Get Along Somehow; Waltz Across Texas; It's Been So Long Darling; Mr. Juice Box; I Wonder Why You Said Goodbye.  
8 TRACK TAPE - MCAT-16 \$4.98

**ERNEST TUBB - MCA-84 ALBUM \$2.98**  
I'll Get Along Somehow; Slipping Around; Filipino Baby; When The World Has Turned You Down; Have You Ever Been Lonely; There's A Little Bit Of Everything In Texas; Walking The Floor Over You; Driftwood On The River; There's Nothing More To Say; Rainbow At Midnight; I'll Always Be Glad To Take You Back; Let's Say Goodbye Like We Said Hello.  
8 TRACK TAPE - MCAT-84 \$4.98

**ERNEST TUBB - MCA-341 ALBUM \$2.98**  
I've Got All The Heartaches I Can Handle; The Texas Troubadour; Missing In Action; Don't She Look Good; A Daisy A Day; Texas Dance Hall Girl; Miles In Memories; The Lord Knows I'm Drinking; Pass Me By; What My Woman Can't Do; The Last Letter.  
8 TRACK TAPE - MCAT-341 \$4.98

**KITTY WELLS - MCA-121 ALBUM \$2.98**  
It Wasn't God Who Made Honky Tonk Angels; This White Circle; Mommy For A Day; Release Me; I Gave My Wedding Dress Away; Amigo's Guitar; Heartbreak U.S.A.; I'll Repossess My Heart; Password; Searching; Making Believe.  
8 TRACK TAPE - MCAT-121 \$4.98

**KITTY WELLS - MCA-149 ALBUM \$2.98**  
Dust On The Bible; I Dreamed I Searched Heaven For You; Lonesome Valley; My Ones Are Waiting For Me; I Heard My Savior Call; The Great Speckled Bird; He Will Set Your Fields On Fire; We Buried Her Beneath The Willows; One Way Ticket To The Sky; I Need The Prayers; Matthew Twenty-Four; Lord, I'm Coming Home.  
8 TRACK TAPE - MCAT-149 \$4.98

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## Lincoln Land Community College

(Continued from page 5)

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

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

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

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

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

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



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# Norris Electric News

## Manager's Comments

by Damon Williams

The overwhelming majority of people that make up Norris Electric area are completely and utterly honest. We trust them completely. Unfortunately in any society there is always a tiny, minute few who are plain out and out thieves. We are seeing an influx of this particular type of individual creep into our operations the last two or three years. They are stealing electricity. That is too bad and they are asking for trouble for the following reasons:

1. It is strictly against the law as the following article points out vividly, sharply and clearly and to

steal electricity is a serious offense.

2. If you are caught stealing electricity, and you will be caught, you can and will be disconnected without notice or any explanation.

Tough laws, tough rules — yes. These are tough times. It is very simple. Somebody steals electricity, somebody has to pay for it. You, the honest member who is in the great majority of our members, have to pay for it. The cost of operations of any rural electric cooperative is solely dependent on the expenses that it incurs. The power bill, which takes a whopping big majority of all dollars changing hands, must be paid for to

CIPS. That is what they are in the business for.

So, please don't make the mistake of allowing someone you know to think they are going to get away with something. It will cause them trouble and it will cause us trouble and embarrassment because to me it is a shameful thing and we don't like to use the stringent methods that are available for us to use. It isn't funny, it isn't cute and it is humiliating for everybody. So warn them if you know of anybody messing around. They will be caught and they could lose their life as well. Fooling around with a meter is dangerous business.

## Standard Practice Procedure

SUBJECT: METER TAMPERING

ADOPTED: April 8, 1978

If it shall at any time appear that the meter provided for the purpose of measuring and registering the quantity of electric current consumed at the location where any member or consumer is receiving electric service has been tampered with in such a way as to injure, alter, obstruct or prevent the proper action of such meter, or if it shall appear that at any location where any member or consumer is

receiving electric service any action has been taken with respect to any electrical conductor or connection making it possible for electricity to be consumed or utilized without passing through or being registered by the meter at such location, the electric service at such location may be disconnected and terminated without notice to the member or consumer, and such service shall be restored only upon such conditions as the manager, in his discretion, shall deem appropriate.

### *This is important in reporting outages*

OFFICE HOURS: 8:00 a.m. to 5:00 p.m. Monday through Friday Closed Saturday and Sunday. Phone: area code 618-783-8765

To report an outage after office hours or on Saturdays, Sundays or holidays call — 783-8765 first.

If no answer, dial 783-3221  
783-2059  
783-3870  
783-2149  
or Lawrenceville area 943-4373  
or Claremont area 869-2338

Please — When reporting an outage have your line and account number ready. You will find it in the lower left hand corner of your meter reading card.

## This the law

Section 381 of Chapter 111 2/3, Illinois Revised Statutes, provides as follows:

Any person who, with intent to injure or defraud any company, body corporate, copartnership or individual, shall injure, alter, obstruct or prevent the action of any meter provided for the purpose of measuring and registering the quantity of gas, water or electric current consumed by or at any burner, orifice or place, or supplied to any lamp, motor, machine or appliance, or shall cause or procure or aid the injuring or altering of any such meter or the obstruction or prevention of its action, or shall make or cause to be made with any

gas pipe, water pipe or electrical conductor any connection so as to conduct or supply illumination or inflammable gas, water or electric current to any burner or orifice or lamp or motor or other machine or appliance from which such gas, water or electricity may be consumed or utilized without passing through or being registered by a meter or without the consent or acquiescence of the company, municipal corporation, body corporate, copartnership or individual furnishing or transmitting such gas, water or electric current through such gas pipe, water pipe or electrical conductor, shall be guilty of a Class B misdemeanor.

## Drag racing is a hobby and a business

By JACK HUBBERT

Have you ever been in a garage when someone has started up a drag car? It is ear-splitting, to say the least.

I was treated to such an ear-splitting experience on the Mack Strom farm, located two miles west of West Union. Michael and his father, Mack, farm close to 500 acres. They, like many farmers, were increasing their storage and grain drying capacity.

Working with them to determine their load requirements and service revamp needed, I discovered an unusual hobby and business of drag racing. One garage on the farm was entirely different than what you would normally find on a farm. One section displayed Hazzard Bros. Race Car Components. If you are needing something for your hot rod, this would be a good place to shop. The other part of the garage was full of tools-of-the-trade, including drill press and lathe.

The drag car in car racing is what the quarter horse is to horse racing. Very quick and fast for one-eighth to one-quarter mile. They will accelerate from 0 to about 100 miles a hour in an eighth of a mile.

The racing season is March to October. They will enter five divisional meets covering a five state area, plus four national events. They have won two class championships at national events. Some of the meets are at Bowling Green and Louisville, Kentucky; Martin, Michigan; and Evansville and Indianapolis, Indiana.

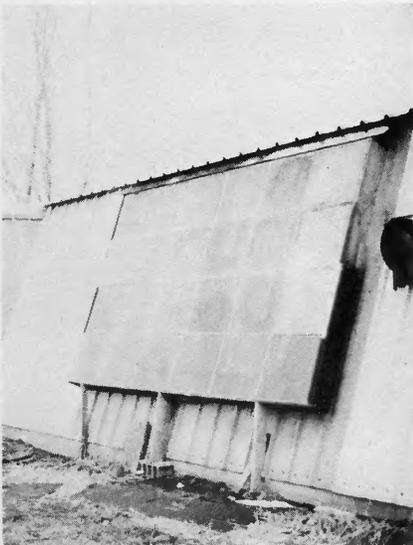
Michael told me it is a single car event, but it takes a team effort to have the car ready. There are many hours spent in repairs and tune-ups so they will be able to travel the 1/8 mile in less than eight seconds. His partners are Dennis Dunlap, Ron Lobb, Guy Bruewington, Red Johnson and Larry Higginbotham.



*The beginning of a drag race car.*



*Four months later, Michael, wife Darra and daughter Beth with completed project.*



*This solar panel saved 50 percent on heating costs.*



*Michael and Jay in racing parts department.*

## Electric and telephone cooperatives praised for rural life contributions

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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# Norris Electric News

## Manager's Comments

by Damon Williams

This newsletter will introduce you to some fine, decent people who are going to answer your calls when you have outages or trouble to report on the line. Remember, people who take these calls may not know you personally, as well as some of the linemen or the rest of the people who work or serve Norris Electric.

When our current goes off, it is easy to get mad and take our frustrations out on somebody on the other end of a telephone. I have felt that way myself. But always try to remember the golden rule in such occasions, although at times it is very hard to do. Be as polite as possible. I've got a little tip for you — the more polite you are and the nicer you are to the people who answer your

complaints, the more apt you are to get better service than if you give somebody a cussin' out. Cussin' out won't work. It usually culminates in reciprocation of a like nature, one way or the other.

But that's the way it is. And this is Christmas time. I would like to tell you my one and only Christmas story for the year. More years ago than I care to remember, I was a policeman. I thought I was a good one; I enjoyed the work. But due to financial reasons (police then as now were underpaid), I decided to go into other work but I have always regretted the day I left this exciting and frustrating job. That is neither here nor there. Then, at Christmas time once each year, the Police Department held an auction of unclaimed things, lost and stolen. In the particular precinct I worked out of, several bicycles were always among the many items. On the day of this particular auction, a number of people showed up to bid on these bargains. Among the possible buyers was a young boy who had come to

bid on one of the bikes. When the time came for the bicycles to be auctioned, the bidding was fast. It seemed like everyone was wanting a bicycle. Well, the boy bid also but each time the figure topped \$9.00 he stopped. It was obvious to everyone in the room, including this rookie cop, that the kid had no more than \$9.00. Finally the last bike was put up for sale. The bidding started at \$5.00. The boy bid \$5.00 and the next bidder, a used bike dealer, made it \$7.00. The boy bid \$8.00. Just as the bike dealer was about to raise his bid, the police sergeant, a tough cookie if I ever know one, who was serving as the auctioneer, banged down his gavel and shouted in his guttural, scary voice, "Sold to the young man for \$8.00." Nobody in that room said another word. Nobody had to. They just applauded and wished everyone a Merry Christmas. The same as I do to each of you.

## Write 'em right!

Your book of life, volume 1981, contains 365 blank pages.

Volume 1980 is closed and all its pages and chapters record the many days and weeks of that year.

But yesterday's page, last year's record is done, finished. You need not forget the book, but there is no reason to dwell on it either. You cannot change one word or alter one

deed.

The important book is the current volume, and January 1 opens its first chapter. It is yours to do with as you think best.

Think best, then, and make every day count; for the pages are still blank. . . .

Write 'em right!

## Cut a fancy figure

There's fun on ice — skating, that is.

Ice skating is centuries old. Prehistoric blades are believed to have been of animal bone and were worn on frozen snow and ice in what are now the Scandinavian countries. Iron skate blades gained popularity in European royal courts during the 17th and 18th

centuries while the general public made do with wood runners.

Steel blades had their origin in Philadelphia about 1850. They were much lighter than their iron predecessors and held an edge much better.

With today's superior edge, just watch out for thin ice. . . .

### *This is important in reporting outages*

**OFFICE HOURS:** 8:00 a.m. to 5:00 p.m. Monday through Friday Closed Saturday and Sunday. Phone: area code 618-783-8765

To report an outage after office hours or on Saturdays, Sundays or holidays call — 783-8765 first.

|                       |          |
|-----------------------|----------|
| If no answer, dial    | 783-3221 |
|                       | 783-2059 |
|                       | 783-3870 |
|                       | 783-2149 |
| or Lawrenceville area | 943-4373 |
| or Claremont area     | 869-2338 |

Please — When reporting an outage have your line and account number ready. You will find it in the lower left hand corner of your meter reading card.

# 618 - 783 - 3221

## Who answers our phone on holidays, weekends and after office hours?

Darrel and Ruth Holland, who were directors of Bauer Funeral Home in Effingham for eighteen years, moved to Newton as director of Buchanan Funeral Home in 1969, and began receiving our after office calls at that time. Ruth is a native of Effingham County, growing up in the Gilmore Community. Darrel is from Coffeyville, Kansas.

They have decided after 11 years of call duty service to give it up. We thank them for the service they have done for us. They enjoyed working with and helping you members in getting your service restored. They will always remember the ice storm of '79 and all the calls they received. Ruth mentioned how nice the people were even under such a situation.

Replacing the Hollands is Madge Shaffer of Newton. She is retired from school teaching but still does some tutoring. She also bakes the best homemade bread I have ever eaten. We know Madge will be thoughtful, courteous and helpful in answering your calls.

Whenever you call because of power outage or other emergency, we would appreciate the information found in the lower left hand corner of your meter reading card. The card will

have the name the service is in, address and most important, will be the line and account number. It may be helpful to keep them close to your phone because looking in the dark you may stub your toe or bump your nose trying to find your meter reading card.

When you have a power outage, check your fuse or breaker panel in the house. If the meter is on the pole, check the breakers below the meter. Push the handle down and back up. If you are still out of service, then check with your neighbors. It is important

that we know if we have an individual outage or if the entire line is out. Also, giving us the time your service went off will help us determine if the calls coming in are the same outage. We would appreciate any information you may have as to the cause of the outage or if you know of any lines that are down or a dangerous situation that we should be aware of.

If the phones are busy keep trying; during major outages we have four incoming lines plus the answering service on weekends, Holidays and after office hours.



### PLEASE READ YOUR METER ON

Write in each of the above dial windows the figure which appears in each of the corresponding dial windows of your meter as you face it. Then sign and mail promptly.

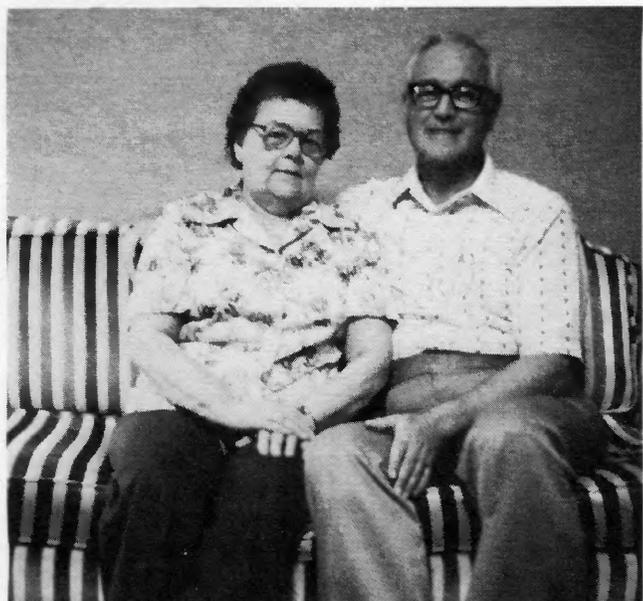
JOHN DOE  
R. R. 6  
NEWTON, IL 62448

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

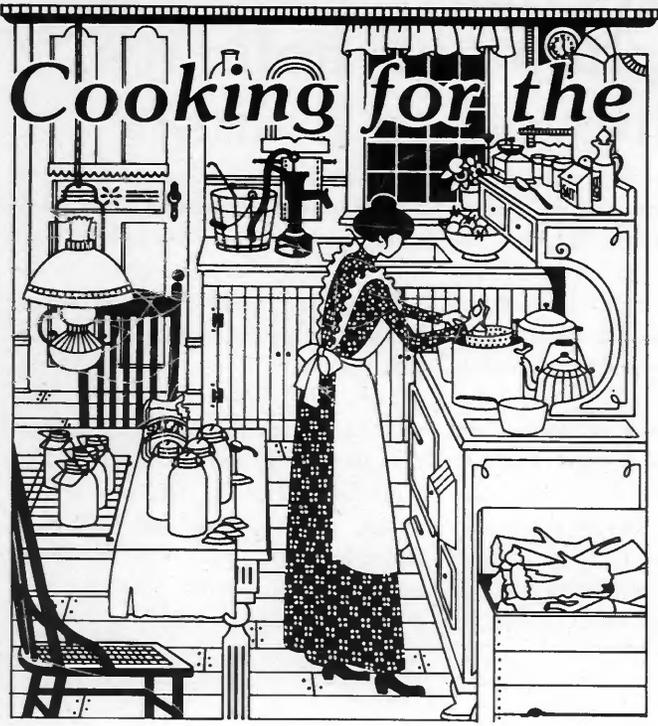
A-1-2 #3

#3 — Meter reading card. The location of service from the meter card shown is John Doe, line A-1-2 and account number 3.



*Darrel and Ruth Holland are ending eleven years of service to Norris. Madge Shaffer is now in charge of our answering service.*

# Cooking for the holiday season...



## AMBROSIA COOKIES

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

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

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

## CHOCOLATE SOUR CREAM FUDGE

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

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

## RASPBERRY MERINGUE BARS

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

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

## POPPY SEED DRESSING

- |                         |                           |
|-------------------------|---------------------------|
| 1 1/2 cups sugar        | 3 tablespoons onion juice |
| 2 teaspoons dry mustard | 2 cups salad oil (Wesson) |
| 2 teaspoons salt        | 3 tablespoons poppy seeds |
| 3/4 cup vinegar         |                           |

Mix ingredients, beat and chill overnight. Serve over fresh fruits.

## HASH CANDY

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

## NEAPOLITAN COOKIES

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

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

## GINGER BEER CAKE

- |                       |                     |
|-----------------------|---------------------|
| 1 box yellow cake mix | 1 tablespoon ginger |
| 1 1/3 cups beer       | 1 teaspoon cinnamon |
| 2 eggs                | 1/4 teaspoon nutmeg |

Combine dry ingredients, eggs and beer. Mix well. Turn into bundt pan and bake at 350 degrees for 35 minutes or until brown. Frost with:

- |                           |                    |
|---------------------------|--------------------|
| 1 stick margarine         | 1 cup pecans       |
| 1 8-oz. pkg. cream cheese | 1 teaspoon vanilla |
| 1 box powdered sugar      |                    |

Combine margarine, cream cheese and vanilla. Gradually add sugar, blending well. Stir in pecans.

## CROWN JEWELS CAKE

- |                               |   |
|-------------------------------|---|
| <b>Cake:</b>                  | 1/4 cup EACH: diced dried apricots, diced candied cherries, seedless raisins, chopped nuts. |
| 1 cup (2 sticks) butter       |   |
| 1 pkg. cream cheese (8 oz.)   |   |
| 1 1/2 cups sugar              |   |
| 4 eggs                        |   |
| 2 1/4 cups sifted cake flour  |   |
| 1 1/2 teaspoons baking powder |   |
| 1/4 teaspoon salt             |   |
| 1 teaspoon vanilla            |   |

### GLAZE:

- |                                  |
|----------------------------------|
| 1 cup sifted confectioners sugar |
| 1 1/2 tablespoons milk           |
| 1/2 teaspoon almond extract      |
| Candied cherries                 |
| Whole almonds                    |

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

## OLD FASHIONED FILLED COOKIES

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

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

## MULLED CIDER

- |                           |                             |
|---------------------------|-----------------------------|
| 3 quarts apple cider      | <b>Spice Bag:</b>           |
| 2 cups of orange juice    | 1/2 teaspoon ground nutmeg  |
| 2 lemons, sliced thin     | 3 teaspoons ground allspice |
| 1/2 cup light brown sugar | 1 teaspoon cinnamon         |
| 3/4 cup granulated sugar  | 4 cinnamon sticks (broken)  |
| 1 cup of water            |                             |

Mix cider, orange juice, sugars and water in kettle. Tie spices in bag and place in liquid and let boil 4 or 5 minutes. Add lemon slices. Cover a few minutes and simmer. Remove bag and serve hot. Serves 18. Leftover can be stored and reheated. Add small amount of water or more cider if syrupy.