

Season's Greetings



Association of Illinois Electric Cooperatives
Adams Electrical Co-Operative
Clay Electric Co-operative
Clinton County Electric Cooperative
Coles-Moultrie Electric Cooperative
Corn Belt Electric Cooperative
Eastern Illinois Power Cooperative
Edgar Electric Co-operative Association
Egyptian Electric Cooperative
Farmers Mutual Electric Company
Illini Electric Cooperative
Illinois Rural Electric Co.
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Norris Electric Cooperative
Rural Electric Convenience Cooperative Co.
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Southeastern Illinois Electric Cooperative
Southern Illinois Electric Cooperative
Southwestern Electric Cooperative
Spoon River Electric Co-operative
Tri-County Electric Cooperative
Wayne-White Counties Electric Cooperative
Western Illinois Electrical Coop.
Southern Illinois Power Co-operative
Soyland Power Cooperative
Western Illinois Power Cooperative

December 1982

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Illinois Rural Electric News

SOTZ MONSTER MAUL

FAST-N EASY WOOD SPLITTING



\$24.96 DELIVERED

LOWER PRICED THAN IN 1980

SPECIFICATIONS

Weight: Head-12 lb. (Total weight 15 lb.)
Construction: High-carbon steel head, hardened edge. High strength steel handle.
Guarantee: 1-YEAR TRIAL OFFER + 10 years against failure.
Price: **\$19.96** Factory pickup. **\$24.96** Delivered to your door.

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- Splits most logs in one lick—won't stick.
- No struggling lifting heavy logs up to high priced power splitters.
- Drop 'em, saw 'em, stand 'em up, and split 'em!
- Forget about lost, stuck, or flying wedges.
- No gasoline, no set-up, no take-down.
- No wooden handles to replace.
- No gimmicks. Just simple physics!

We at Sotz have been making the same quiet offer for years: Try a Monster Maul at our risk! Within one year, if you don't think it's the fastest, least tiring method of splitting firewood, let us know, and we will give you your money back, including shipping . . . Plus, it's guaranteed against failure for 10 years.

OUR 26TH YEAR

Sotz Corporation, 13668 Station Rd., Columbia Station, OH 44028



24" OAK

MONSTER MAKES HIM A BELIEVER!

Quite frankly, I ordered the "Monster Maul" because of your no risk money back guarantee. I figured I would try it and if it didn't work out I would return it and the real loss would be yours, not mine. Well, you won't be getting it back. You made a believer out of me. . . the Monster Maul does get the job done and for the money, it's the best bargain around. Thanks for a darn good product at a price that is "easy" to live with.

John Geras, Bolingbrook, Ill.

SPORTSMAN'S CHALLENGE

I have easily split several cords of firewood consisting of white oak, cherry, poplar, and maple, all with amazing speed and with minimal physical exertion. I've even participated in a "Sportsman's Challenge" against a hydraulic splitter, against which my...maul proved much faster. My only regret is I have now sold the maul to the owner of the gas powered hydraulic splitter, who was completely amazed by its performance. During these times of phony advertising and cheap workmanship, I am truly thankful to find a firm who is honest and sincere and provides quality products.

David A. Hojnacki, Monroe, Mi.

STEEL VERSUS ASH!

I compliment you on manufacturing a splitting maul that exceeded my strongest hopes. It works like nothing else I've ever used. I used it on oak logs 20" long and ranging up to 24" in

diameter, and it split them cleanly with one swing. It out-performed wedges so much that I no longer even bring wedges along when splitting wood. You have an excellent product. Your idea of incorporating a steel handle, instead of the usual ash, makes it a tool that I'm sure will last for my lifetime and my children's.

George L. Voss, Portland, Ore.

SPLITS OVER 150 CORDS IN ONE SEASON!

Over a year ago, I purchased your Sotz Monster Maul and have never been happier. My husband and I have in just one winter season split over 150 cords of oak and assorted hard woods with your maul. We recently received your latest edition of the Sotz News and I really was impressed with your Lift N Saw...There have been too many occasions where our saw has been jammed or we take our chances and hope we don't hit a rock, but we're never that lucky. Again, thank you for a really fantastic product. I can see why you guarantee your products for so long. They're really worth it.

Dawna Beckmann, Lenox, Mass.

TOM SAWYER COULD SELL A HUNDRED

On Saturday some friends were going out on a wood cutting party. I dropped by with the Monster Maul and split the wood that they had accumulated. After about the fourth round was split it was like Tom Sawyer white washing the fence. Everyone wanted to try their hand at it. On Monday, 3 people wanted a Monster Maul. So here's a check. Please send 3

more Monster Mauls. I could sell a hundred of em!

Greg Bloodgood, Good Thunder, Mn.

65 YEARS OF WOODCUTTING

In the last 65 years I have cut a lot of wood and I have logged California to Alaska, but that Monster Maul is a beater. If a man had a place to stand he could split the world with that thing. Mine is at present traveling from woodpile to woodpile and when I demand it back, I'm sure there'll be some orders.

Theo Bachman, Juneau, AK

PRICELESS INVESTMENT

I was introduced to your Monster Maul... Not only did it save me a great deal of time, but it also saved me the expense of buying other mauls—as I would go thru 3 or 4 in the span of less than a year. In fact, the foreman of the City of Medford's Forestry Dept. referred to the Maul as "a priceless piece of equipment." The maul is one of my best investments...

R. DiGiacomo, Medford, Mass.

WORKS WHEN OTHERS WON'T

Thanks for very prompt delivery of my 12M Maul. Have "tested" it already on 13" dia. oak 24" long. Works when unable to split with any other hand tools. Everything you say it is.

Bob Fitzpatrick, Souder, Mo.

DON'T BE SCARED

The weight scared me at first but now I'd never bother with one of those regular sized mauls. I recommend it! Really does the job.

Ralph Deitrick, Mountainburg, Ark.

Illinois Rural Electric News

Soyland speakers

A problem occurring during the final stage of production of the November Illinois Rural Electric News affected the readability of portions of the article relating to groundbreaking ceremonies for the coal-fired electric generating plant that Soyland Power Cooperative plans to build in Pike County.

Several lines of type were omitted, directly affecting the comments of Richard R. Ruzich, Soyland general manager, and indirectly affecting remarks of Walter R. Smith, Soyland board president; Thomas H. Moore, general manager of the Association of Illinois Electric Cooperatives; and Harold V. Hunter, administrator of the Rural Electrification Administration.

We are reprinting the omitted portion, along with the other speakers' comments:

Ruzich: Walter Smith has been an instrumental force in trying to put together a program that would allow the electric cooperatives in Illinois, particularly the six then members (in 1963) of Soyland, to get into their own generation. It took a long time from 1963 when they started until today in 1982, but that doesn't mean that the work that he accomplished is any less of an effort or milestone than what we are doing today."

Smith: "Member cooperatives of Soyland have purchased their power from investor-owned utilities since their inception back in the mid-thirties. It became more and more difficult to negotiate reasonable rates and good terms on our contracts for that wholesale power so it was deter-

mined by the cooperatives they would benefit their end users more by having full control of their own power supply through which they could not only render service at a cheaper rate, but have control of the terms and conditions."

Moore: "Soyland Power Cooperative has earned the respect of the entire utility industry in its history of progress. All of us throughout the cooperative family join with you today in celebrating the groundbreaking. We recognize the many hurdles you've had to overcome thus far — your site selection process, your early coordination with the many regulatory agencies, your commitment to building a plant that can be fueled by Illinois coal — all show that Soyland Power Cooperative is committed to supplying the power requirements for all its members as well as being a good corporate citizen of the state of Illinois.

Hunter: "Let's talk for a minute about how these decisions are reached. Certainly this board, this co-op, this manager, this chairman of the board, all dedicated themselves and worked toward this worthy end. At REA, too, there have been a lot of skilled, dedicated people who addressed themselves to the question of whether or not this is a worthy project for the support to be provided not just by you folks, but by the folks throughout the whole nation, because the national resources are behind, supporting, giving strength, encouraging this activity when REA gets into the act. REA does not get into the act lightly; REA looks at it very carefully."

December 1982 Volume 40, Number 8

Published by Association of Illinois Electric Cooperatives

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Editor

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Illinois Rural Electric News

(USPS number 258-420) is published monthly for \$3.00 per year and is the official publication of the Association of Illinois Electric Cooperatives, 6460 South Sixth Frontage Road, Springfield, Illinois 62707. Second class postage paid at Springfield, Illinois and at additional mailing offices.

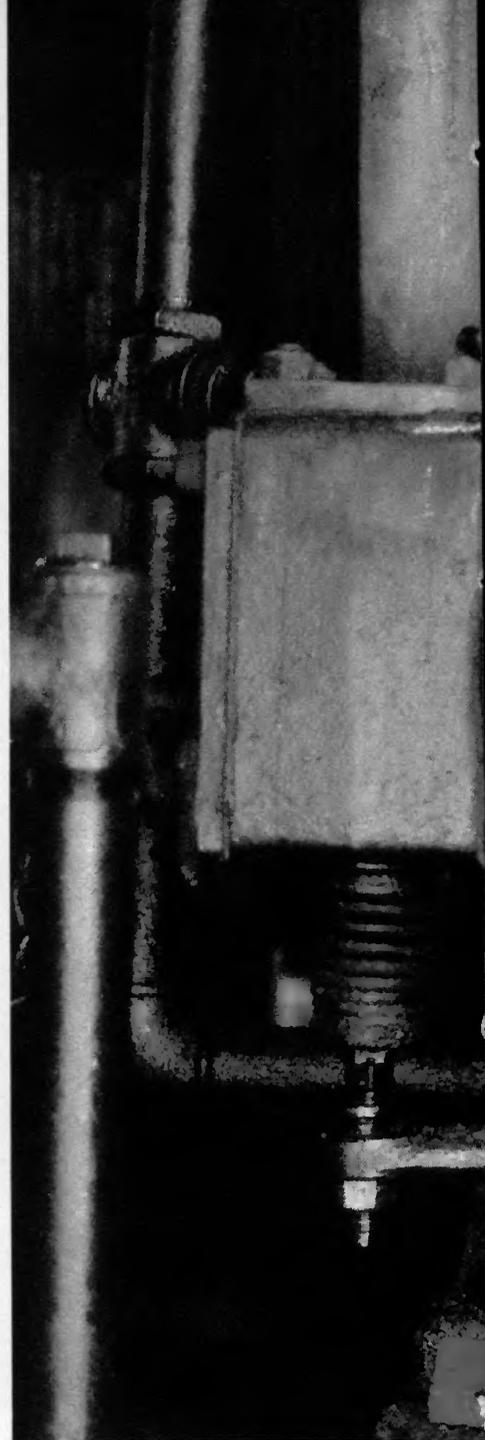
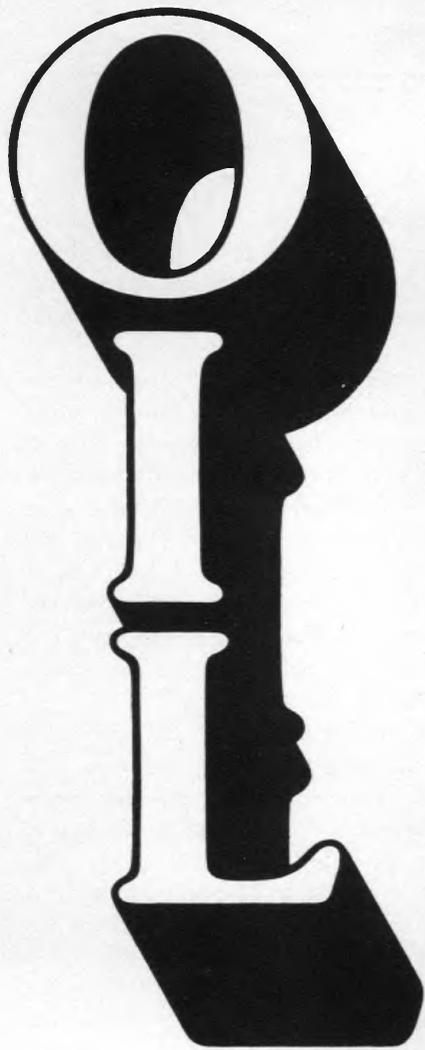
POSTMASTER: Send address changes to Illinois Rural Electric News, P. O. Box 3787, Springfield, Illinois 62708.

Cover: The poinsettia plant is one of many Christmas traditions. It is part of this year's special Christmas card to Illinois electric cooperative member-owners from the employees and trustees of the state's electric cooperatives.

Advertising and editorial inquiries should be directed to the Illinois Rural Electric News, P. O. Box 3787, Springfield, Illinois 62708. National advertising representative: Southwest Dailies, 400

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Vintage field preserves sights, sounds

Top photo, Keith Tohill uses crude oil from the wells to lubricate the blocks that support the rods that radiate out to the pumps. Above, Ralph Rinsch changes out a rod, shutting down one well. Opposite page: One of the 35-horsepower engines at work.

Keith Tohill and Ralph Rinsch have a nice little piece of history just southeast of Robinson, in Crawford County. They own and operate a couple of turn-of-the-century oil fields, and the buildings and machinery are just like they were when the first well was drilled in 1909.

The oilmen note that the machinery had been disassembled and scattered and the field had fallen into disrepair when they picked up the leases in the mid-1970's, after the previous operation had gone into bankruptcy.

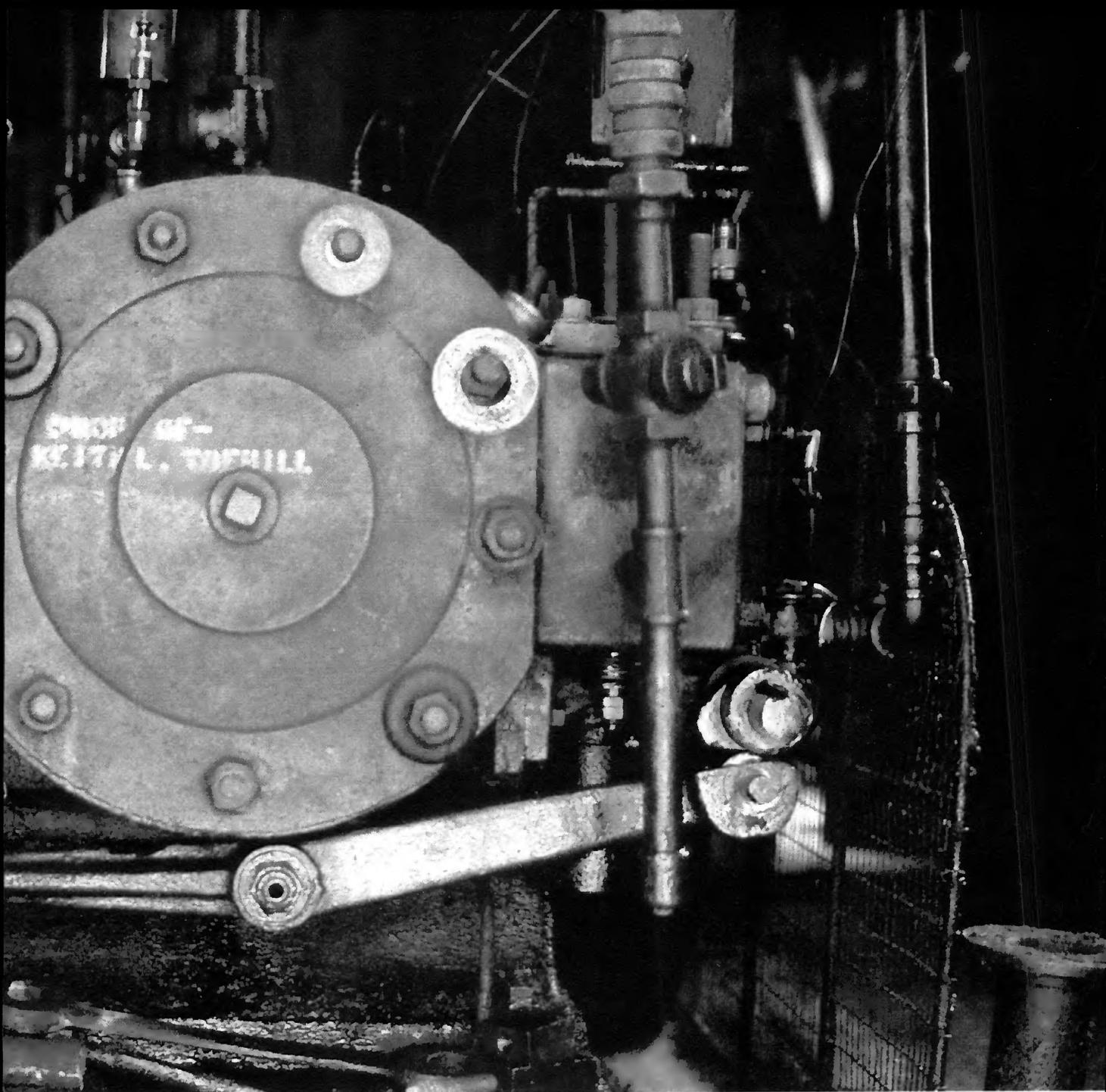
The two men, both members of

Norris Electric Cooperative, got busy hustling parts and came up with a couple of complete engines and enough spare parts to last several years. One engine is a 1918 Superior, and cranks out 35 horsepower. The other is a 1922 Marathon. Both were built in Bridgeport, Illinois. The engines burn casinghead gas from the wells, and about the only thing Keith and Ralph have to buy is lubricating oil. Since the oil is reused, a 55-gallon drum will last for months.

Power from the engines is transmitted to an 18-foot wooden mascot

wheel by a 120-foot long leather belt, and rod lines that go out to operate the pumps are connected to that. The rods run overland, supported every 12 to 15 feet by small posts sticking out of the ground, or a notched tree stump. "Each engine can power about 15 pumps, up to three-quarters of a mile away from the engine, but most of ours are a quarter to half a mile long." Keith says, "and we're pumping about 20 wells right now."

The supporting blocks that hold the rods need to be lubricated daily, and a worker walking the field does that



with a small ladle while visually inspecting the works. Since crude from the wells is used as a lube, the field is nearly self sufficient.

While the field preserves the sights of the early days of the oil boom in America, it also keeps the sounds alive. The rod lines squeak rhythmically, and the engines keep time with their distinctive bark, which is caused by notches cut into their exhaust stacks. "In the old days," Rinsch says, "they'd cut the slope of each notch at a different angle, so each engine would make a different sound. Field workers

were so well accustomed to the sounds that they could tell which engine was having trouble by the change in a note. A good man could keep track of at least five or six engines," he says.

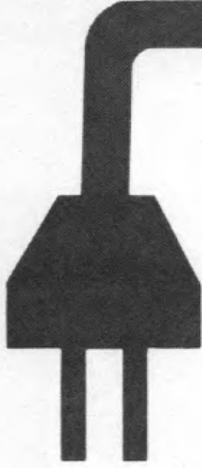
Actually, only one of the engines whistles. The other works away with a muffled chuffing sound. "The reason we have a whistle on this one," Ralph indicates, "is because we've been having a little trouble with it, and I wanted to be able to hear it from my house."

Cooling water for the engine is stored in a 10-foot tank just outside

the shed, and was a reasonably popular spot for oil field workers needing a Saturday night bath.

Oil from the wells is collected in the original cypress wood tanks, which lend even more of a nostalgic flavor to the field. Depth of the oil in the tanks is checked by sticking a long rod through small holes in the tank shed roof. Production from the 400-barrel-a-month field is routed to the nearby Marathon refinery in Robinson.

The operation is a living museum and a source of energy, too. A hard-to-beat combination!



CIPS wholesale rate to increase January 1

**Negotiating
subcommittee successful
in reducing
original request
by one-third**

A large number of electric cooperative consumers in Illinois will be affected by a rate increase for cooperatives that purchase wholesale power supplies from Central Illinois Public Service Company (CIPS).

Beginning January 1, a new bulk power rate will be effective for 16 Illinois electric cooperatives. The new rate amounts to a 23.7-percent increase over the previous rate, but is approximately one-third less than the original CIPS proposal. CIPS' initial proposal was for a 35.5 percent increase, but a committee of electric cooperative negotiators representing the affected cooperatives were successful in reducing the final increase.

Based on projections for the test year 1983, the annual amount of the increase will be \$13,625,000, some \$7-million less than the estimated \$20.4-million annual cost of CIPS' initial proposal.

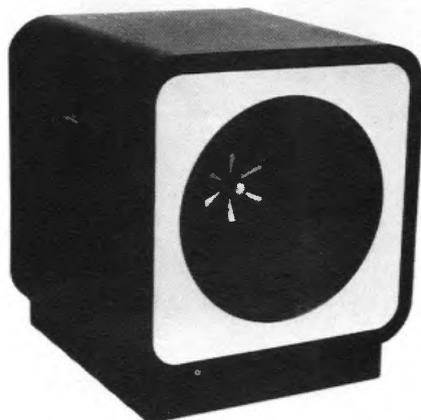
Illinois electric cooperatives which receive wholesale power from CIPS include: Clay Electric Co-operative, Flora; Coles-Moultrie Electric Cooperative, Mattoon; Eastern Illinois Power Cooperative, Paxton; Edgar Electric Co-operative Association, Paris; Illini Electric Cooperative, Champaign; McDonough Power Cooperative, Macomb; Norris Electric Cooperative, Newton; Shelby Electric Cooperative, Shelbyville; Wayne-White Counties

Electric Cooperative, Fairfield; and six member-cooperatives of Western Illinois Power Cooperative (WIPCO): Adams Electrical Co-Operative, Camp Point; M.J.M. Electric Cooperative, Carlinville; Menard Electric Cooperative, Petersburg; Rural Electric Convenience Cooperative Co., Auburn; Spoon River Electric Co-operative, Canton; and Western Illinois Electrical Coop., Carthage.

Donald B. Bringman, manager of WIPCO, served as chairman of the group responsible for working out the contract, the CIPS Negotiating Subcommittee of the AIEC Energy, Environment and Engineering Committee. Negotiations were completed on October 14 and CIPS filed the request for increase with the Federal Energy Regulatory Commission on November 1.

Officials of CIPS cited two major reasons for proposing the bulk power rate increase: "to offset the impact of continuing inflation on the Company's operations . . . and to have rates in place which will provide a fair and reasonable return on the Company's investment, including the investment in the Company's new generating facility known as Newton Unit 2."

On November 23, the Illinois Commerce Commission approved a CIPS request for a 24-percent rate increase for its residential retail customers.



PEST-PRUFE™ is small and unobtrusive—rugged, hi-impact case has black finish with brushed silver face. Measures only 3½" x 4" x 3½". Weighs about a pound.

Clear Your Home of Mice, Rats, Roaches and Other Pests -- and Keep Them Out!

PEST-PRUFE™ is a home-size version of the commercial pest control device that's safe for people, pets and the ecology. Try it in your home for 30 days.

It happens every year. Cold weather drives flying, creeping, crawling pests into your home. What do you do? Fight an endless battle using dangerous traps, poisons or sprays? Or shell out good money for high-priced exterminators? Well—here's an ingenious space-age "Pied Piper" that will eliminate common household pests—and keep them out!

PESTS GET THE MESSAGE LOUD AND CLEAR!

PEST-PRUFE is a home-size version of an electronic pest control device that's used by professional exterminators. It's heart is a special quartz crystal speaker that sends out ultrasonic waves on varying frequencies (so the pests can't develop an immunity to it). You can't hear it. Neither can your pets. But mice, rats, roaches, and other pests can.

Those pests can't stand PEST-PRUFE's ultrasonic waves. It causes them extreme discomfort and pain. In fact, the ultrasonic output bothers them so much, they'll leave rather than endure it. What's more, they stay away as long as PEST-PRUFE is on the job.

JUST PLUG IT IN. AND CLEAR UP TO 2500 CUBIC FEET

You can use PEST-PRUFE anywhere there's a 110-Volt socket to plug it into.

That's all you do—and those pests will disappear day by day, week by week. PEST-PRUFE uses only 5 watts—1/10th the energy of an ordinary 50-watt bulb. And its solid state design means there's no maintenance.

IT WON'T HARM CHILDREN, PETS, OR THE ECOLOGY

Best of all, there's no danger. A leading university tested it and found it absolutely safe for humans—even children—and pets. And it's harmless to the ecology. There's no mess—no traps to empty and reset, no dead vermin to dispose of. (They leave under their own power!) And PEST-PRUFE's ultrasonic waves will positively not have any effect on burglar alarm systems, fire or smoke detectors, garage doors, TV reception or any other electronic devices.

PEST-PRUFE is ideal pest protection. It will keep pests from inhabiting and nesting in vacation homes, campers, and boats both during the summer and off-season. Use it to control pests where food is kept or stored. Hard-to-seal areas, such as garages, toolsheds and farm outbuildings benefit most from PEST-PRUFE's ultrasonic protection.

THE PRICE MAKES IT PRACTICAL.

Until recently, prices of ultrasonic units were high—close to \$200 in some cases. Only professional pest control companies used them and demand was low. But now the secret is out. Availability of lower cost components, particularly quartz crystal speakers, resulted in lower priced units. Now clean, electronic pest control is practical for everyone. PEST-PRUFE costs just \$49.95 (plus \$2.85 shipping and handling) but is as effective as units costing four to five times the price!

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Try PEST-PRUFE at home for 30 days. If you're not satisfied that its mess-free, danger-free protection isn't worth many times its modest price, your money, (including postage) will be cheerfully refunded. You are fully protected by a one-year manufacturer's warranty, as well as by Shelburne's 26-year reputation for satisfied customers.

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Crickets	Silver Fish
Water Bugs	Locusts
Flies	...and many other pests

Similar paths lead two Pams to Fair Queen competition



Pam Reimer

Two central Illinois college students with lengthy records of achievement in 4-H competition on the county and state level have moved into another area of competition. Pam Gady of the Sadorus area (near Champaign) and Pam Reimer of rural Carlock (near Bloomington) will be representing their counties next month in the competition for the title of "Miss Illinois County Fair of 1983."

They will be among approximately 50 young women from across Illinois in the contest to determine not only who will represent the state's county agricultural fairs, but also to see who will reign over the Illinois State Fair.

The two Pams have about 10 years each of preparation for their roles as fair queens. They have both shown livestock over the years, and have been among the most active 4-H'ers in their

counties. Pam Gady will represent Champaign County while Pam Reimer will represent McLean County.

They have a lot more in common, in addition to their years of 4-H work. Pam Gady is the daughter of Mr. and Mrs. Wilbur Gady. Mr. Gady is a director of Illini Electric Cooperative. Pam Reimer is the daughter of Mr. and Mrs. Robert Reimer. Mrs. Reimer is a director of Corn Belt Electric Cooperative. Both are college students; Miss Gady is a sophomore at the University of Illinois, and Miss Reimer is a freshman at Illinois State University. In addition to their college studies, they both work. Miss Gady works for a Champaign department store; Miss Reimer for a popular restaurant in Normal.

The contest, to be conducted in Springfield January 16-17, will find the county queens competing in even-

ing gowns and swimsuits; they will be interviewed by judges, and each is expected to make a brief presentation on "My Home Town."

The state contest is sponsored by Illinois Association of Agricultural Fairs.

As queens of their respective county fairs, the two Pams had similar duties last summer during county fair week. Each served as official hostess, participated in major events, handed out ribbons and greeted contestants and visitors.

In August they joined with the other county fair queens for a special day in Springfield at the State Fair, highlighted by a luncheon with Governor Jim Thompson. Pam Reimer remembers the occasion well. She had less than 30 minutes to prepare for the luncheon and group photo after finishing showing a steer in State Fair competition.

Pam Reimer is not the first Reimer daughter to represent McLean County. Older sister Sandy was McLean County's winner in 1981, and another sister, Susan, was first runnerup four years ago. It's a family tradition.

For Pam Gady, entering the contest was a way of extending her 4-H showing. The 1981 Champaign County Fair was the last time she was eligible to show in 4-H. "I wanted to continue to be involved in the fair. So I applied to be a candidate for queen," she explained. When she was nine, she met the fair queen, and "wanted to be in her shoes someday."

Pam Gady

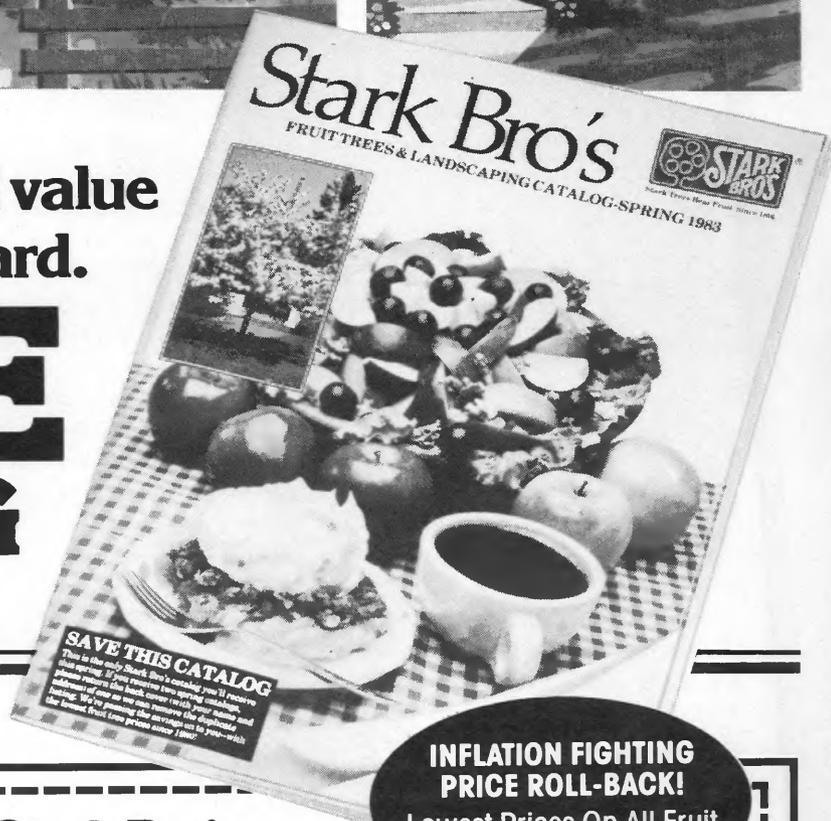


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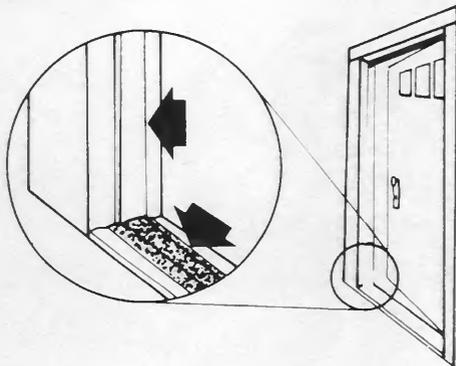
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WEATHERSTRIPPING

An answer to energy-wasting infiltration

Over half the heat that escapes from a house in the winter is lost through cracks and loose-fitting windows and doors. Even if doors and windows are insulated, they may still lose (or gain) heat because of air infiltration around the frames and openings. This leakage can be reduced greatly by weatherstripping windows and doors and by caulking cracks and construction joints. Caulking joints and weatherstripping windows and doors can reduce your heating costs by five to 15 percent, depending upon the location and condition of your home.



WEATHERSTRIPPING

Weatherstripping materials reduce air infiltration around windows and doors. There are some five types of weatherstripping materials. Visit your local hardware or building supply store to study the materials' level of effec-

tiveness and durability. Pictures on this page show some typical application of weatherization materials.

CAULKING

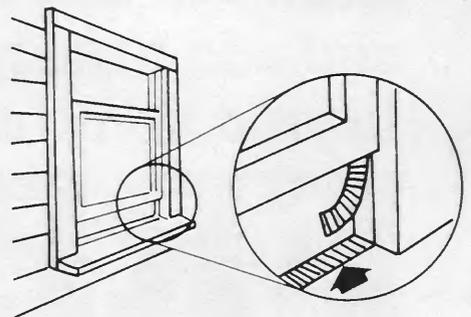
Caulking compounds are materials used to fill, cover and seal cracks and construction joints in houses. This, of course, stops air and moisture infiltration and will reduce your home heating and cooling bills. Listed below are some of the areas where caulking compound should be checked and applied each year, if needed:

1. Exterior joints where window and door frames meet siding
2. Corners formed by siding
3. Where exterior masonry fireplace chimney meets siding
4. Where porch meets siding
5. Joints between the foundation and the wall siding
6. Where sill plate meets foundation
7. All other exterior openings

Do not caulk the holes that are commonly found in vertical mortar joints along the bottom of brick walls. These weep holes are to drain moisture that penetrates the wall. Also, do not caulk the bottom of the combination screen and storm sash. It is necessary to allow drainage of water that can accumulate between the window and the combination frame when the storm window is open and the screen is in place.



If old caulking is flaking or cracking, it should be replaced. Remember to clean old joints first to get good adhesion. Be certain to check other



areas which could be sources of undesirable air infiltration. As a general rule, caulking should be applied wherever two different materials or parts of the house meet.

Be sure to read the label on the caulking compound before you purchase. There is a variety of caulking compounds within each of three base types. Acrylic-latex caulking compound gives good results for many jobs, but check other products if you have a special need.

You can apply caulking with a few low-cost tools and a little practice. When you load your caulking gun, cut the tube open with a sharp knife at a 45 degree angle near the end of the tapered portion. The ability to lay a nice uniform bead comes with a little practice.

These few suggestions will help you do a more professional job and help reduce air infiltration, one of the biggest sources of energy waste.

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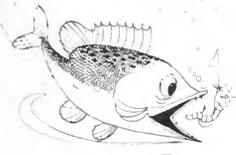
Please mail me _____ copies of the publication
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(For each copy, enclose \$2.00 to cover the cost of
the book and pay postage and handling.)

Please Print Name _____

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Lake of Egypt



fish limits

The board of directors of Southern Illinois Power Cooperative has voted to set limits on the number of fish taken from the Lake of Egypt. While fishermen could previously keep all the crappie they pulled from the lake, the limit is now 30 per fisherman per day, and bass less than 14 inches in length must be returned to the lake.

Fishermen wishing to try their luck in the Lake of Egypt may buy boat stickers at three locations. The Pyramid Acres, Egyptian Hills and Lake of Egypt marinas all sell them. An annual sticker costs \$25, and seasonal permits go for \$2 per day.

Maximum length for hull boats on the lake is 20 feet, while pontoon boats 28 feet or less are permitted. There is no minimum. Boats equipped with kitchens or toilets are not permitted.

The lake boasts a ski area on the main body at the north end, and trout lines and jugging are prohibited in the ski area.

Of course, anglers need to have a current Illinois fishing license, and all provisions of the Illinois Boat Regulation and Safety Act are enforced on the lake.

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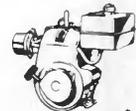
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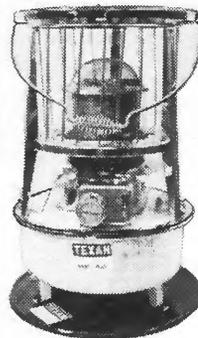
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Cold weather clothing tips

In many parts of Illinois last winter, the thermometers had never read so low. Ever. If the coming winter even comes close to being as cold as last year's record-shattering weather, it will take some wise bundling to stay warm.

Ordie Hogsett, University of Illinois Extension safety specialist, says the secret to cold-weather clothing is layering. Several thin, loose-fitting layers are much more effective than one big, bulky layer. He notes that the Army's arctic clothing consists of seven layers above the waist and six layers below.

"When you wear several layers, air becomes trapped between layers and is warmed by the body's heat," Hogsett says. "The heated air then serves as insulation."

This insulation factor also is the reason why layers should be loose, not

close fitting. Tightly fitting clothes do not allow room to trap air.

According to Hogsett, when it comes to cold-weather comfort, loosely woven fabrics are more effective than tightly woven fabrics, and natural fabrics are better than synthetic fabrics. Natural fabrics, such as cotton and especially wool, hold up best when wet. Actually, down is the best insulating material pound for pound, but it tends to become matted when wet.

There is one exception to the rule that loosely woven fabrics are superior to tightly woven fabrics, Hogsett adds. The *outer* layer of clothing should be tightly woven, as well as water resistant. That way, the outer layer can shelter you from both wind and water. Water-logged cloth can conduct cold to the body an estimated 240 times faster than dry clothes.

Cold usually sets in at the extremities first, Hogsett continues, because as we get cold, blood vessels narrow and heat is conserved within the torso — the most critical part of the body to keep warm. That's why feet and fingers are the parts most likely to feel the cold first.

For the hands, Hogsett recommends mittens rather than gloves; and for the feet; he suggests warm wool socks and waterproof boots.

Finally, for the head, Hogsett says that knitted wool caps will collect snow, so wear caps made of water-repellent cloth with wool lining.

A hat is more critical than one might suppose, he notes, because you can lose up to 50 percent of your body heat through your head. As Hogsett puts it, "There's truth in the old adage, 'When your feet are cold, put on your hat.'"

The message in your power bill

By RICHARD L. ARNOLD

(Editor's Note: Dick Arnold, manager of Union Rural Electric Association in Brighton, Colo., recently brought the news of a rate increase to his members at their annual meeting. Many of the members were farmers and ranchers whose net income had dropped 75 percent between 1980 and 1981. Arnold's explanation of Union Electric's rate increase would apply to just about any cooperative in the nation).

What do I mean when I say the high cost of public policy is reflected in your electric bill? If you stop to think for just a minute or so, you'll recognize that Union REA is really no different from many other businesses. We have to either pass on to our consumers all of the costs we incur in providing electric service or we simply must go out of business.

What kind of public policy costs are there for which we are simply the messenger? Let me name a few for you. How about the cost of clean air, clean water, and the restoration of land following strip mining?

Did you know that as much as one-third of the cost of electricity out of a new generating plant is necessary just to meet environmental concerns? Public policy today dictates that we do everything possible to keep the air and water clean and to restore the land. Would we want it any different? Probably not, but who finally tells you how much this costs? Those of us at

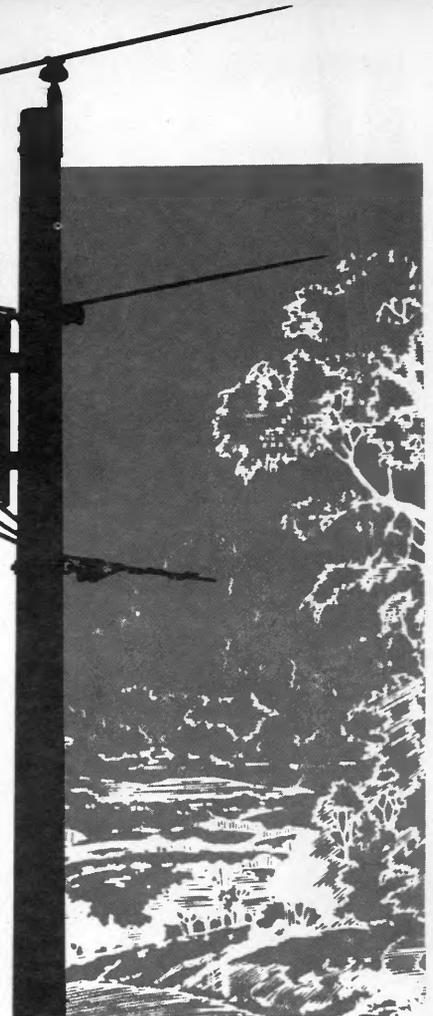
Union are the messengers when we reflect that high cost in your electric bill.

Take high interest costs, as another example. Did Union invent high interest rates? Are those of us who work here responsible?

Long-term loans which finance Tri-State's new generation plants, even though government guaranteed, have cost up to 18.9 percent annual interest. Last year, both Union and Tri-State used short-term loans with interest costs as high as 21 percent annually. We certainly didn't want to pay that high interest rate any more than you do, but, who gives you the message of that high cost? We do, through your electric bill.

Another factor you should consider is the recent public policy which calls for deregulation of energy prices. That policy, enacted by Congress, says in effect that deregulation will permit energy to rise in cost and find its true market value. The theory is that higher costs will cause people to conserve. Can there be any doubt that this policy was successful in bringing about conservation?

The result is that natural gas is up 238 percent in price since 1973, the price of gasoline at the pump is unbelievable. Coal, used to generate electricity, is up about 377 percent nationwide. Did Tri-State or Union make the decision to deregulate energy prices? No, we simply act as a messenger in sending you an electric bill which reflects the cost of deregulation.



How about high property taxes? Local governments love the tax dollars from electric generating plants. Tri-State recently paid \$6.4-million in property taxes in three states on its generation and transmission facilities. Here at home, Union's property tax bill in its five-county area was over \$375,000. Who actually pays those costs? The answer is obvious . . . you do!

Even the call for conservation has its effect. As a matter of fact, the short-term reward for energy conservation by you, our members, is higher electric bills. As your use goes down, there are fewer sales over which we can spread our increasing costs. The result is simply a higher price per kWh.

Perhaps by now I've made the point that costs associated with recent changes in public policy are huge. These costs account for, in my opinion, nearly all of the increases in your electric bill. We didn't design and indeed don't even agree with some of these public policies. Nevertheless, we are the messengers who bring the unwanted news to you. — (From *Rural Electric Newsletter*)

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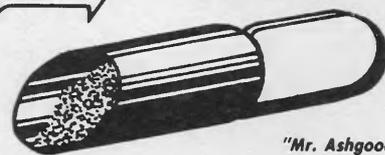
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9212
SIZES 34-48



4509
SIZES 8-18



9165
SIZES 10 1/2-18 1/2



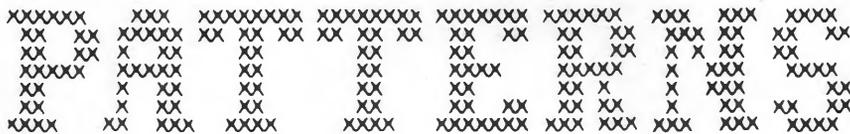
PANTS
ONE PATTERN PART
4712
WAIST 31"-46 1/2"



9214
SIZES 8-20



4703
SIZES 10 1/2-20 1/2



- No. 9115 is cut in Child's Sizes 2, 4, 6, 8. Size 6 dress version takes 1-5/8 yards 45-inch.
- No. 4674 is cut in Jr. Miss Sizes 7, 9, 11, 13, 15. Size 11 (bust 33 1/2) takes 3-7/8 yards 45-inch fabric.
- No. 9385 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 3 yards 60-inch; sash 3/8 yard 45-inch.
- No. 4622 is cut in sizes 10 1/2, 12 1/2, 14 1/2, 16 1/2, 18 1/2, 20 1/2. Size 14 1/2 (bust 37) takes 3-1/8 yards 60-inch fabric.
- No. 4526 is cut in sizes 10 1/2, 12 1/2, 14 1/2, 16 1/2, 18 1/2, 20 1/2, 22 1/2. Size 14 1/2 (bust 37) jumper 1-5/8 yards 60-inch; blouse 1-3/4.
- No. 4982 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 2 1/4 yards 60-inch fabric.
- No. 9212 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. See pattern for yardages.
- No. 4509 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) dress 2-3/4 yards 60-inch; 3/8 yard 45-inch contrast.
- No. 9165 is cut in sizes 10 1/2, 12 1/2, 14 1/2, 16 1/2, 18 1/2. Size 14 1/2 (bust 37) takes 2 1/2 yards 60-inch fabric.
- No. 4712 is cut in Women's Waist Sizes 31, 33, 35, 37, 39, 41 1/2, 44, 46 1/2 inches. See pattern for yardages.
- No. 9214 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) jacket, skirt 2 1/4 yards 60-inch; shirt 1-5/8.
- No. 4703 is cut in sizes 10 1/2, 12 1/2, 14 1/2, 16 1/2, 18 1/2, 20 1/2. Size 14 1/2 (bust 37) takes 2-5/8 yards 60-inch fabric.

TO: PATTERNS
Illinois Rural Electric News
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I have enclosed \$_____ (\$2.00 per pattern - cash, check or money order accepted) for the following patterns:

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_____	_____	_____	_____
_____	_____	_____	_____

Print Name _____

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Treasured traditions honor Christmas...

KUGELHOPF

- 3/4 cup lukewarm milk
- 2 pkgs. active dry yeast
- 3 3/4 cups all-purpose flour
- 3/4 cup sugar
- 6 eggs, at room temperature
- 2 teaspoons grated lemon peel
- 1 teaspoon salt
- 1 teaspoon vanilla extract
- 1/2 teaspoon mace
- 1 cup (2 sticks) butter, softened
- 1 cup golden raisins
- 1/2 cup sliced blanched almonds
- Whole blanched almonds
- Confectioners' sugar

Sprinkle yeast over milk; stir until dissolved. Place 2 1/4 cups of the flour, the sugar, eggs, lemon peel, salt, vanilla, mace and yeast mixture in a large mixing bowl. Beat at medium speed of mixer, scraping sides of bowl frequently, 5 minutes. Add butter; beat at medium speed 2 minutes. Add remaining flour, raisins and sliced nuts; mix until well blended. Butter and flour a 12-cup fluted tube cake pan or mold. Place whole almonds on bottom in a decorative pattern. Spoon batter into prepared pan. Cover and let rise in a warm place until batter is within 1/2-inch of top of pan, about 1 hour. Preheat oven to 375 degrees. Gently place pan on oven rack. Bake 35 to 40 minutes or until golden and a wooden pick inserted in center comes out clean. Let rest in pan 10 minutes. Remove from pan and cool completely on wire rack. Serve sprinkled with confectioners' sugar.

CHRISTMAS TWISTS

- 1/4 cup lukewarm water (105 to 115 degrees)
- 1 pkg. active dry yeast
- 1 teaspoon sugar
- 4 3/4 to 5 cups all-purpose flour
- 1/2 cup sugar
- 1 teaspoon salt
- 1 teaspoon grated lemon peel
- 1 tablespoon water
- 1/4 teaspoon mace
- 1 cup lukewarm milk
- 2 whole eggs
- 1 egg, separated
- 1/2 cup (1 stick) butter, soft
- 1/2 cup chopped nuts
- 1/2 cup dark seedless raisins
- 1/2 cup chopped mixed candied fruit

Dissolve yeast in water; stir in 1 teaspoon sugar. Set in a warm place until mixture is double in volume, about 10 minutes. Combine 4 1/2 cups of the flour, the sugar, salt, lemon peel and mace in a large mixing bowl. Add yeast mixture, milk, 2 whole eggs, 1 egg yolk and butter. Beat until a medium stiff dough is formed. Turn out onto lightly floured surface. Knead in enough remaining flour to form a firm dough. Continue kneading until dough is smooth and satiny, about 10 minutes. Place in buttered bowl, turning to butter top of dough. Cover; let rise in warm place until double in bulk, about 1 hour. Punch dough down; knead in nuts, raisins and fruit. Divide dough in half. Cut each half into 5 pieces. Roll each piece on lightly floured surface to form a rope 12 inches by 1 inch. Braid three of the ropes; tuck ends under. Place on buttered baking sheet. Twist remaining two ropes together; place on top of braid. Repeat with remaining half of dough. Cover; let rise in warm place until double in bulk, about 45 minutes. Preheat oven to 350 degrees. Combine egg white and the tablespoon of water. Carefully brush tops of braids with egg mixture. Bake 30 to 35 minutes or until golden. Remove from baking sheets. Cool completely on wire rack.

PECAN CRESCENTS

- 2 cups all-purpose flour
- 1 pkg. active dry yeast
- 1/4 teaspoon salt
- 1/2 cup (1 stick) butter
- 1/2 cup dairy sour cream
- 2 eggs, separated
- 3 tablespoons milk
- 1/2 cup firmly packed brown sugar
- 1 cup finely chopped pecans
- 1 teaspoon vanilla extract
- 1 1/2 cups confectioners' sugar
- 2 to 2 1/2 tablespoons milk
- 1/2 teaspoon vanilla extract

Combine flour, yeast and salt. Cut in butter until mixture resembles coarse crumbs. Stir in sour cream, egg yolks and milk. Gather dough into a ball. Knead on lightly floured surface until smooth and satiny, about 8 minutes. Divide into thirds; wrap each in plastic wrap. Refrigerate 3 to 4 hours. For filling, beat egg whites until foamy. Gradually add 1/4 cup brown sugar; beat until stiff peaks form. Combine remaining 1/4 cup brown sugar, pecans and vanilla. Fold in egg whites; set aside. Preheat oven to 375 degrees. Roll each piece of dough on lightly floured surface to form a 9-inch circle. Cut into 8 wedges. Place 1 tablespoon of filling along wide side of each wedge. Carefully roll up from wide end of each wedge to point (filling will ooze out). Press dough when point overlaps. Shape into crescents. Place on buttered cookie sheets, point side down, about 2 inches apart. Bake 20 to 25 minutes or until golden. Cool completely on wire rack. When ready to serve, combine confectioners' sugar, milk and vanilla. Drizzle over crescents.

TOM THUMB COOKIES

- | | |
|-----------------------------------|---------------------------------|
| Bottom layer: | Top layer: |
| 1/2 cup (1 stick) butter | 2 eggs |
| 1/2 cup firmly packed brown sugar | 1 teaspoon vanilla extract |
| 1 cup all-purpose flour | 1 cup firmly packed brown sugar |
| 1/2 teaspoon cinnamon | 2 tablespoons flour |
| | 1/2 teaspoon baking powder |
| | 1 can flaked coconut |
| | 1 cup finely chopped pecans |

Preheat oven to 325 degrees. For bottom layer, cream butter; gradually beat in sugar until light and fluffy. Gradually beat in flour and cinnamon. Spread dough in bottom of buttered 13 x 9-inch baking pan. Bake 15 minutes. Meanwhile, for top layer, beat eggs and vanilla in small mixing bowl until frothy. Add brown sugar and beat 5 minutes on high speed of mixer. Combine flour and baking powder; stir into egg mixture. Fold in coconut and nuts. Remove bottom layer from oven; let stand a few minutes. Carefully spread top layer over base. Return to oven and continue baking 20 minutes or until top is golden. Cool completely in pan on wire rack. Cut into 48 pieces. Decorate each piece with one of the following: crushed peppermint candy, green gumdrop cutouts, colored sugar, red cinnamon candies and/or colored decorettes.

SWEDISH SPICE COOKIES

- 1 cup (2 sticks) butter
- 1/2 cup granulated sugar
- 1/4 cup firmly packed brown sugar
- 1/2 cup light molasses
- 1 egg
- 3 cups all-purpose flour
- 1 teaspoon salt
- 1 teaspoon ground ginger
- 1 teaspoon cinnamon
- 1 teaspoon grated orange peel
- 1/2 teaspoon baking soda
- Granulated sugar
- Silver dragees
- White decorators' icing, if desired
- Colored decorettes, if desired

Cream butter; gradually add sugars, beat until light and fluffy. Beat in molasses and egg. Combine flour, salt, spices, orange peel and baking soda. Gradually add to creamed mixture. Gather dough into a ball; wrap in plastic wrap. Chill 2 to 3 hours. Preheat oven to 375 degrees. Use one-fourth of dough at a time; keep remainder refrigerated until needed. Sprinkle pastry cloth and rolling pin with granulated sugar. Sprinkle top of dough with sugar also. Roll to 1/8-inch thickness. Cut with floured goat- and pig-shaped cookie cutters. Place 1 inch apart on unbuttered cookie sheets. If planning to use as hanging ornaments, make small hole near top of cookies using tip of wooden pick. Use a silver dragee for eye. Bake 10 to 12 minutes. Remove from cookie sheets and cool completely on wire racks. Decorate with icing and decorettes. Store in airtight containers at room temperature. Use granulated sugar for ease of rolling out dough instead of flour.

HERMITS

- 1 cup packed brown sugar
- 1/4 cup margarine or butter, softened
- 1/4 cup shortening
- 1/4 cup cold coffee
- 1 egg
- 1/2 teaspoon ground cinnamon
- 1/2 teaspoon ground nutmeg
- 1 3/4 cups flour
- 1/2 teaspoon baking soda
- 1/2 teaspoon salt
- 1 1/4 cups raisins
- 3/4 cup chopped nuts

Heat oven to 375 degrees. Mix brown sugar, margarine, shortening, coffee, egg, cinnamon and nutmeg. Stir in remaining ingredients. Drop dough by rounded teaspoonfuls about 2 inches apart onto ungreased cookie sheet. Bake until almost no indentation remains when touched, 8 to 10 minutes. Immediately remove from cookie sheet. About 4 dozen cookies.

CLOUD COOKIES

- 2 cups (4 sticks) butter
- 3/4 cup confectioners' sugar
- 1 egg yolk
- 2 tablespoons milk
- 1 teaspoon vanilla extract
- 4 1/2 cups all-purpose flour
- 3/4 cup finely chopped walnuts
- 1 teaspoon baking powder
- Whole cloves
- Confectioners' sugar

Cream butter; gradually add sugar and beat until light and fluffy. Beat in egg yolk, milk and vanilla. Combine flour, nuts and baking powder. Gradually add dry ingredients to creamed mixture; mix well. Gather dough into a ball; wrap in plastic wrap. Chill dough 1 to 2 hours for ease in handling. Preheat oven to 325 degrees. Shape dough into 1-inch balls. Place 1 inch apart on unbuttered cookie sheets. Flatten to 3/8-inch thickness, using glass with smooth bottom dipped in flour. Place whole clove in center of each cookie. Bake 25 to 30 minutes or until cookies are slightly firm to the touch since they do not brown. Remove to wire rack to cool. Sprinkle with confectioners' sugar when completely cool. Store in airtight container at room temperature.



Holiday treats, starting at upper right, include a molded Kugelhupf, Christmas twist, butter balls, cloud cookies, Tom Thumb cookies, pecan crescents and Austrian peaches, on tier plate, and Swedish spice cookies on tree branches. They're served with eggnog.

AUSTRIAN PEACH COOKIES

Cookies:
 $\frac{3}{4}$ cup (1 $\frac{1}{2}$ sticks) butter
 1 cup sugar
 $\frac{1}{2}$ cup milk
 2 eggs
 1 teaspoon vanilla extract
 $3\frac{3}{4}$ cups all-purpose flour
 $\frac{3}{4}$ teaspoon baking powder
 $\frac{1}{4}$ teaspoon salt

Filling:
 1 cup peach preserves
 $\frac{1}{2}$ cup (3 oz.) semi-sweet chocolate pieces, melted
 $\frac{1}{2}$ cup ground nuts
 $\frac{1}{2}$ cup flaked coconut
 $\frac{1}{2}$ teaspoon almond extract
 Red sugar (recipe follows)
 Yellow-Orange sugar (recipe follows)
 Spearmint leaves candy
 Cinnamon sticks

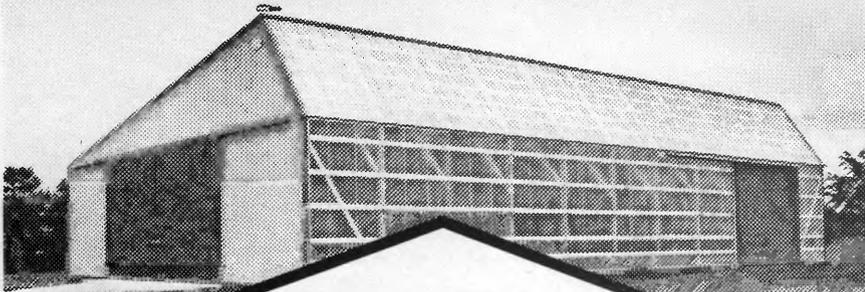
Cream butter; gradually add sugar and beat until light and fluffy. Beat in milk, eggs and vanilla. Combine flour, baking powder and salt. Gradually add to creamed mixture; mix well. Gather dough into a ball; wrap in plastic wrap. Refrigerate 1 to 2 hours. Preheat oven to 325 degrees. Shape dough into smooth $\frac{3}{4}$ -inch balls. Place 1-inch apart on unbuttered cookie sheets. Bake 15 to 20 minutes or until cookies are slightly firm to the touch (cookies do not brown). Remove to cool completely on wire racks. For

filling, combine preserves, melted chocolate, nuts, coconut and extract; mix well. To assemble peaches, spread a small amount of filling on flat side of each cookie. Place 2 cookies together. Brush cookie with water. Roll a portion in red sugar for blush; sprinkle yellow-orange sugar to cover completely. Set aside to dry. Roll spearmint candy on well-sugared surface. Cut into leaf shapes. Insert a small piece of cinnamon stick in base of leaf. Insert cinnamon stick and leaf in seam of peach. Store in airtight container in cool place.

RED SUGAR: Measure $\frac{1}{3}$ cup sugar into shallow ovenproof dish. Add a few drops red food color. Rub color evenly into sugar with fingers. Heat to dry in 400 degree oven, stirring occasionally, about 4 minutes.

YELLOW-ORANGE SUGAR: Measure $\frac{3}{4}$ cup sugar into shallow ovenproof dish. Add 2 drops red food color and enough yellow food color to make a peach color. Rub color into sugar with fingers. Heat to dry in 400 degree oven, stirring occasionally, about 4 minutes.

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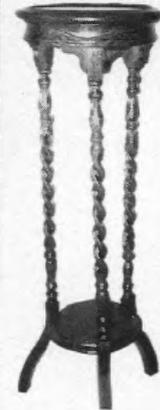
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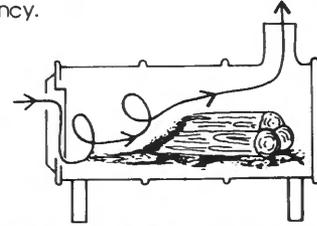
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LONG BURNING! AIR TIGHT!

I have received one of your excellent drum stove kits and I am very pleased with it. It is more efficient than a considerably more expensive stove that I have upstairs in my house. I have installed the stove in the basement and removed an oil burning furnace...I am also very pleased with the heating capacity and the long burning feature. I have built drum stoves in the past from scratch for cabin heaters and tent stoves, but I have never seen a kit that goes together as easily or makes as efficient an air tight unit as yours. In any event, I appreciate very much the quality and the well laid out instructions. We find that the stove burns all night easily on one load of dry alder. Even stopped down to almost complete air tight conditions, it provides adequate warmth. Thank you very much for your excellent product.

L.L. Janke, Att. at Law,
Portland, Or.

WILL BARRELS BURN UP?

Please send your current catalog as I have 2 prospects for some of your heaters. I have been using mine since 1978 and am very well pleased with it. Everyone that I talked to around here said it would not work, that the barrel would burn through in no time at all. Well if that is the case I wonder how they would explain the original paint on the barrel that was on it when I got the barrel. Thanks again for a fine product.

Gerald Fulkroad, Millersburg, Pa.

GREATEST INVESTMENT IN 5 YEARS!

I presently have your double barrel stove installed and must say I am very pleased with the heat output it yields for the wood consumed. I am heating my 3,000 sq. ft. home and full basement with it. I can easily keep the house temperature between 60°F. and 70° with two or three arm loads of wood per day. Thanks for such a good product. I feel that for the money invested that the value received is the greatest of anything I've bought in the last five years.

Jerry L. Weltzin, Spring Valley, MN

SUPERSEDES DUST COLLECTOR

I have been using your Monster Maul for over a year and have split better than 150 cords of wood with it. It is truly a fantastic product. My hydraulic log splitter has been collecting dust since I have been using the Monster Maul. I find the maul much quicker and also easier on the back.

Peter Hook, Shrewsbury, Ma.

BULLISH ON SOTZ!

I . . . purchased direct from your factory your two barrel stove kit. I raise English Bulldogs professionally, and I have a kennel made in an old farm barn. It is only partly insulated, having crumbling cement walls and a nine foot ceiling. It cost me over \$500 to heat a 40x40 ft. room in it last year using LP gas. We just went through a cold snap the first week in Dec. and I am very pleased to tell you that

thanks to your stove kit, the two LP gas heaters never got off the pilot. The day I got the stove running, I threw in a couple of good size chunks of oak, set the damper at about half open, and making sure the fire was going good, I went into the house for dinner. Returning to the barn about one hour later, I found all my dogs panting from the heat, which was about 90 degrees. I can't imagine how much heat the stove would give off if it was full of wood! I have found that now I can give my dogs adequate ventilation without worrying about \$\$\$ going out the LP gas flue. Your barrel stove also out performs our combination Heart of the Home combination wood LP gas furnace in the basement of our house.

A.R. Peterson, Plainview, Mn.

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Ron & Judy Kodish, Jersey Shore, Pa.

ROLL OUT THE BARRELS

Last year I bought your kit (top & bottom) for oil barrel stoves. I used the bottom only for one year and it worked perfectly. This year I am using the two barrels in my greenhouse, with 100% satisfaction. My compliments to the Sotz Corp. for their unique way of converting oil barrels into a very workable stove and the easy way to do it.

S.E. Pope, Brockton, MA.



Peyton looks over the refuge.

Wildlife refuge also a place for people

George Peyton can stand on his porch, survey his "spread" of 4,500 acres and more likely than not catch a glimpse of a great blue heron, Canada goose, combine, white-tailed deer, fishermen, or even a bald eagle.

Peyton's porch, and his "spread" are unique, though. He is manager at the Calhoun National Wildlife Refuge in extreme southern Calhoun County, north of St. Louis. The porch is the observation deck at the refuge visitor's center and the 4,500 acres is the land area of the refuge, which is adjacent to Swan Lake.

He isn't the only one who can

enjoy the scenery and activities. The refuge is open to the public, and the visitors center, the electric power for which is provided by Illinois Rural Electric Co., is the focal point for visitors, especially those there for the first time.

The modern building sits just up from the bottoms along Swan Lake, affording a good view of a recently flooded area designed to bring wildlife that much closer to the deck. It serves as offices for the three persons who staff the Calhoun refuge and has an exhibit area featuring information relating to the history of the Swan Lake area and the purpose of the refuge.

The Calhoun refuge is one of three refuges in the Brussels District of the Mark Twain National Wildlife Refuge, a chain of reserves along the Mississippi River stretching from near the Quad Cities area southward to Cal-



The attractive visitors center

houn County.

Also included in the Brussels District are Gilbert Lake Division, located just across the Illinois River in Jersey County, and Batchtown Division, located a few miles northwest on the Mississippi. The three divisions account for about 7,000 of the 23,500 acres in the Mark Twain Refuge.

The nine divisions in the Mark Twain Refuge system are links in the chain of migratory bird refuges reaching from the northern breeding grounds to the southern wintering areas, and the Mississippi Flyway is one of the most important migration routes. Waterfowl find food, water and resting areas during their southward journey.

The nation's wildlife refuge system has a long history and an unusual origin. An executive order by President Theodore Roosevelt put the plan in motion in 1903 when the govern-

ment set aside a 2½-acre tract on Florida's east coast, Pelican Island, as a bird sanctuary. Today there are millions of acres in more than 300 refuges across the country.

Swan Lake dates to 1938, when the U.S. Corps of Engineers built Locks and Dam 26 at Alton, on the Mississippi River. This large, shallow lake of submerged stumps, fallen trees and brush piles offered protection from the river currents, and made a natural fish hatchery. Carp, spoonbill, buffalo, catfish, crappie, perch, black bass and bluegill were abundant. However, over the years the lake, once four feet in average depth, was reduced to only 2½ feet, leaving it good primarily for crappie, catfish and perch fishing.

From its original objective of providing protected resting and feeding places along the flyway, Calhoun has seen its objectives broadened: provide habitat for endangered species, nesting

wood ducks, migrating birds other than waterfowl, mammals and non-migratory birds.

Peyton notes that Calhoun's management goals are to: utilize the wet bottomlands to produce natural wildlife food and the cultivation of higher lands to provide cropland wildlife food, such as milo, corn, millet, buckwheat, soybeans, sunflowers and winter wheat.

Fishing is open to the public, as are all areas of the refuge except from October 15 to December 15. In addition, Peyton says, 50 commercial fishing permits are issued.

Farmers who grow the various feed crops work on a percentage, depending on the particular crop.

Of notable pride to the Mark Twain Refuge people is the fact that many bald eagles use Calhoun as a winter home. They report sighting as many as 125 of the birds in a day at Calhoun.

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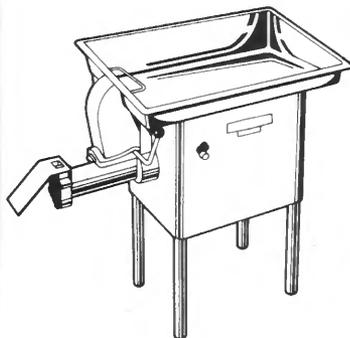
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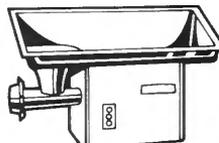
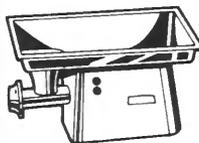
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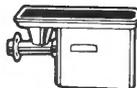
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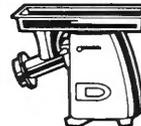


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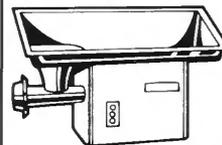
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