

**Water quality**

See page 4

**Cooling efficiency**

See page 12

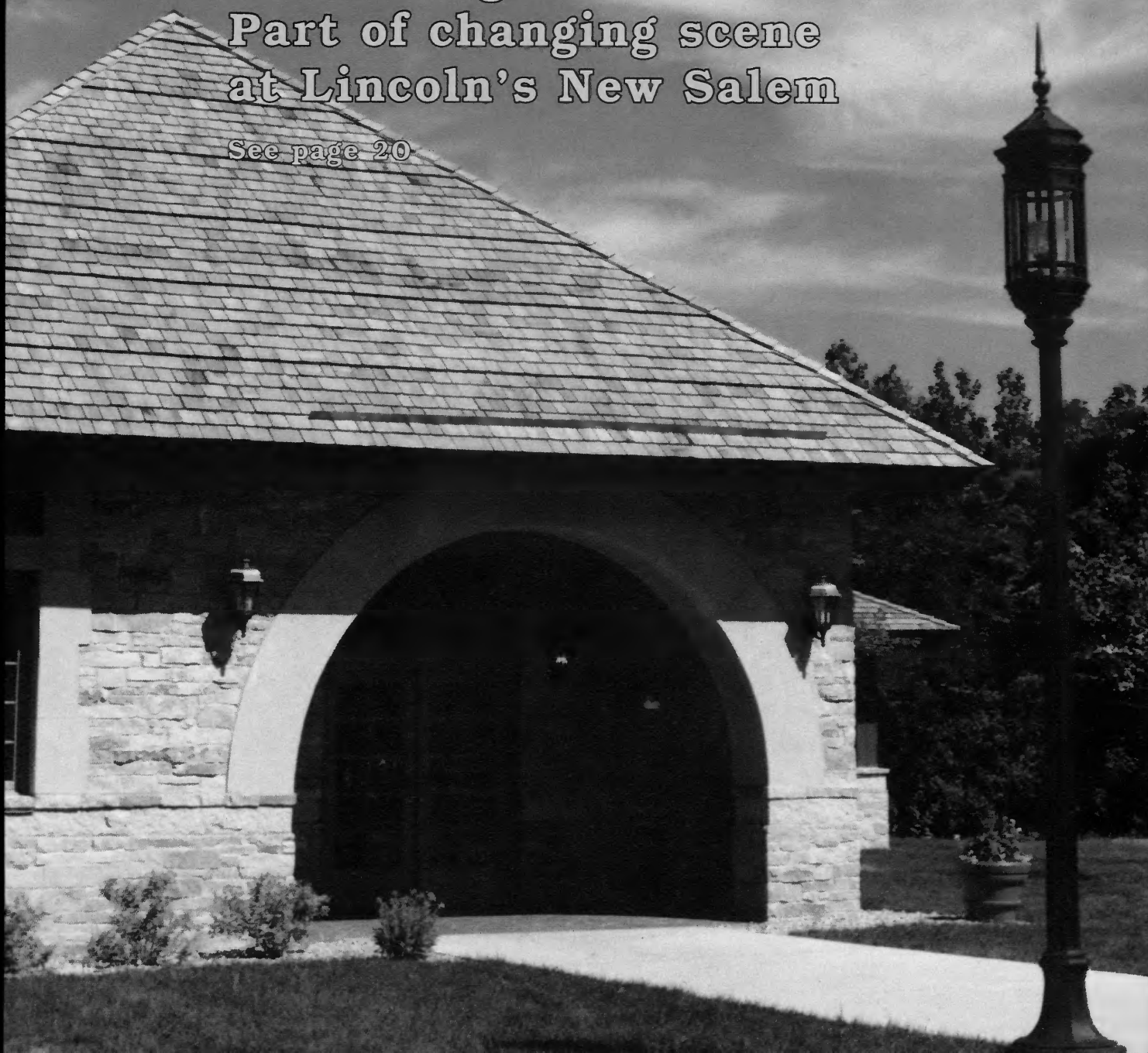
Illinois Rural Electric News

July 1991

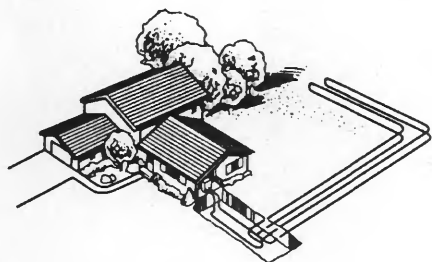
# REN

**River Ridge:  
Part of changing scene  
at Lincoln's New Salem**

See page 20



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# Illinois Rural Electric News

## Cooperatives launch first rural business program

The nation's electric cooperatives, through the financial organization they own, have established the country's first small business investment company (SBIC) created expressly to stimulate economic development in rural areas. After months of planning, Rural America Fund, Inc., (RAF) has received a license from the U.S. Small Business Administration (SBA).

RAF was formed to provide venture capital for the start-up and expansion of businesses in rural areas. A major role in the growth and marketing of RAF will be played by the nation's rural electric and telephone utility systems. RAF will be managed initially through a management agreement with the National Rural Utilities Cooperative Finance Corporation (CFC). CFC is a private, not-for-profit lending and financial services corporation owned by 1,000 rural electric cooperatives that provide service to more than 25 million rural Americans.

CFC has provided RAF's initial capital, while additional equity capital is to be provided by the rural electric and telephone systems or their affiliates through purchase of shares of common stock. This private capital will then be used for

targeted investments and provide the basis to enable RAF to borrow up to three times its value from SBA and thus make even more capital available to rural America. Improved employment levels, a stronger local economy and a reasonable return to RAF are expected from such loans/investments.

"CFC's involvement in this venture is both prudent and necessary," Charles B. Gill, CFC governor and CEO, said. "For more than 20 years CFC has provided financial programs that have helped its members serve rural Americans. There is a pressing need for capital to help keep the economy alive in rural areas and CFC's experience can make a significant contribution. We are very pleased to be part of this new enterprise."

"This is a first for us," SBA Administrator Patricia Saiki said. "We have more than 350 SBICs, but this is the only one focused specifically on business development in rural areas."

"This amounts to a special delivery of desperately needed capital to business ventures in some of the areas where it is needed most," Saiki said. "It's a good idea and it's a good fit with SBA's goals for rural business development."

July 1991

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### In this issue

Larry F. Elledge  
*Editor*

Gordon M. Olsen  
*Managing Editor*

Jack D. Halstead  
*Associate Editor*

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## REN

### Illinois Rural Electric News


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**Cover: New Salem State Historical Site boasts new attractions for visitors: a new visitors center in the park and the River Ridge Restaurant, located just across State Highway 97 from the village where Abraham Lincoln once lived. The restaurant is served by Menard Electric Cooperative of nearby Petersburg. (See article on pages 20 and 21.)**

Advertising and editorial inquiries should be directed to the Illinois Rural Electric News, P.O. Box 3787, Springfield, Illinois 62708. National advertising representatives: Fox Associates, Inc., 116 West Kinzie Street, Chicago, Illinois 60610, and The Papert Companies, 800 Hartford Building, Dallas, Texas 75201. Acceptance of advertising by the IREN does

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# Don't take water quality for granted

**W**

ater, water, everywhere, but is it fit to drink? That variation of well-known words from "The Rime of the Ancient Mariner," by Samuel T. Coleridge, fits the situation of many areas in Illinois.

Since our state is bordered by massive rivers and lakes and sits atop a tremendous amount of groundwater, it is probably only natural that we take a bountiful and permanent supply of pure water for granted.

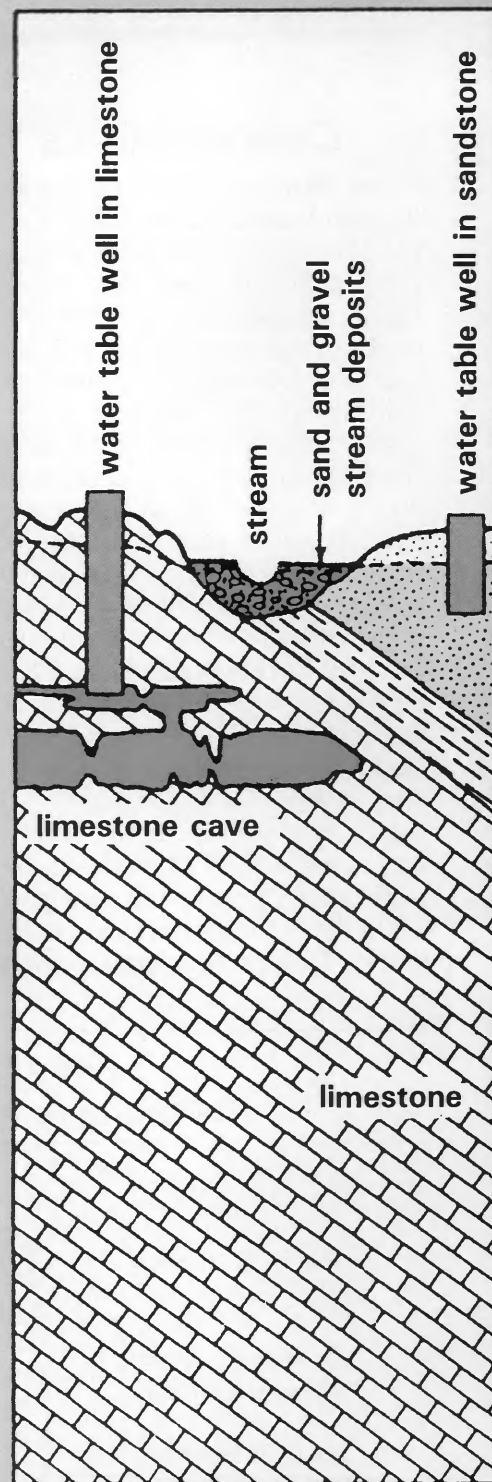
We're coming to the sad realization that such an abundance isn't there, after all. More accurately, we're becoming aware that, while there is a lot of

water there, it isn't necessarily good.

Harry Hendrickson, groundwater education coordinator for the Illinois Department of Energy and Natural Resources (ENR), notes that a major problem with water quality is the fact that most domestic wells "recharge," or get their water supply from very nearby.

"As a matter of fact," he says, "most wells that were drilled or dug for domestic use are recharged from water that falls within a 200-foot radius. And a very large portion of that comes from a 50-foot radius."

Much of Illinois gets its water from surface sources, such as lakes and rivers, but an estimated 410,000 Illinois families get theirs from wells, and there

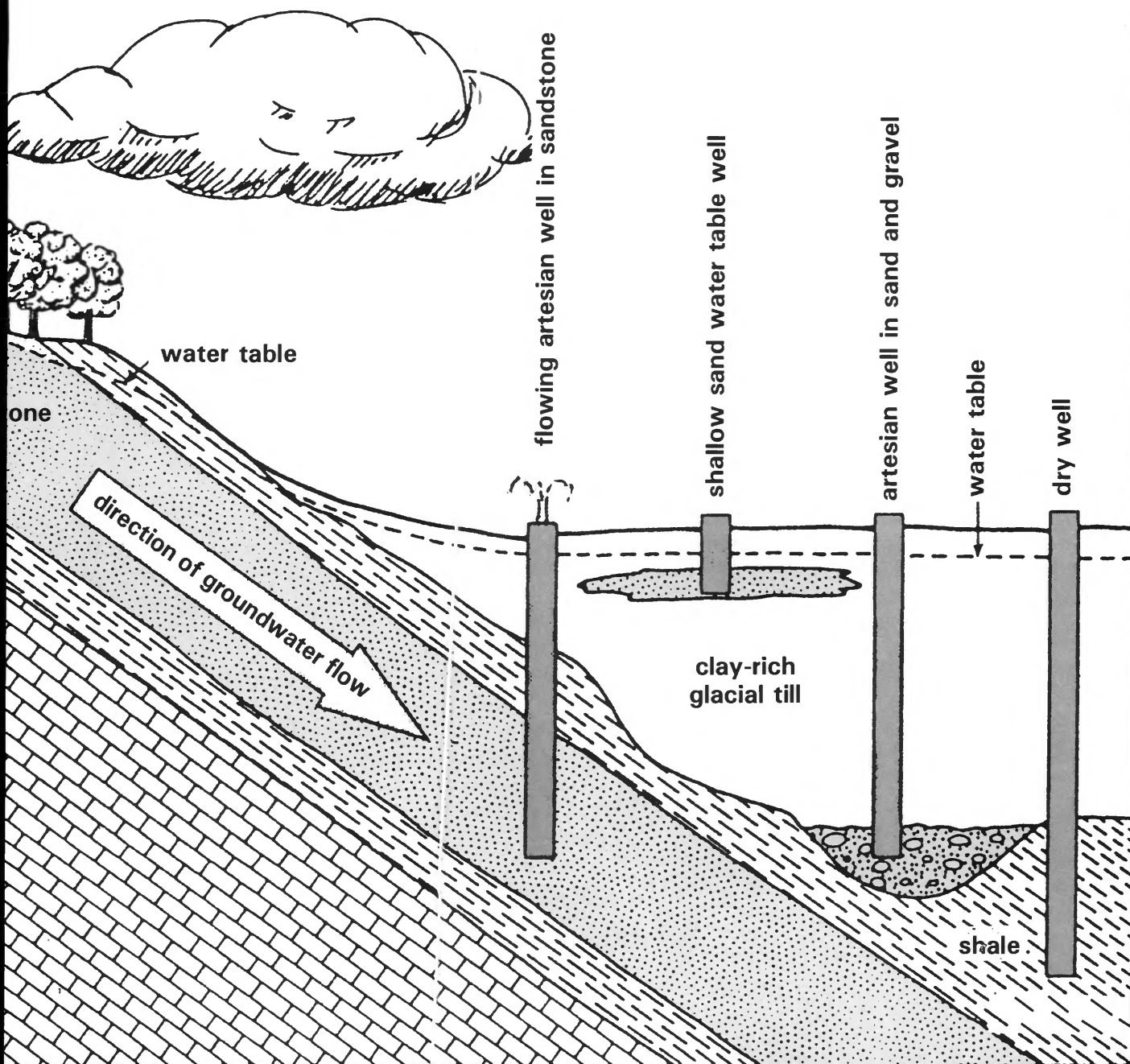


is some concern as to whether that water is plentiful enough to meet the needs of the people in the area, especially in the southern part of the state.

Wells are dug or drilled to tap into "aquifers," and a good part of the state is underlain by massive aquifers left by the glaciers. These are not enormous underground lakes and rivers filled



## Types of aquifers and wells



with sparkling, pristine waters, but rather are porous formations that will hold water, give it up fairly readily, and absorb more. Some hold more water than others, some will recharge quicker than others, and some are easier to tap into than others.

Instead of being a never-ending source that can give us enormous amounts of water

forever, they are actually drawing down or recharging all the time. Much of the recharging is accomplished by rainfall.

The problem with aquifers that are constantly being recharged is that they are susceptible to contamination. As rainfall runs over the ground before it soaks in, there's a very real possibility that it will take

surface contaminants with it, notes Hendrickson. "That's why it's extremely important that abandoned wells be properly sealed," he says. And it's not true, as some believe, that water filtered through a certain amount of soil is automatically filtered clean.

At any rate, many of the state's larger aquifers seem to be

in good shape, at least for now. Quality and quantity are both there. Even so, there are places in Illinois where there are no gigantic aquifers and water is in short supply. What is available is sometimes contaminated.

Water quality experts note that many wells dug years ago for home use were located close to the house, for convenience. While many farms are large, specialized operations, it was different then. The countryside was dotted with hundreds of small farms. Most had a few

chickens, a few hogs, a few milk cows, a few head of beef cattle and several draft horses. All were clustered more or less neatly around the farmhouse, which often had a well just outside the back door.

Since it was generally assumed that well water came from massive subterranean lakes or rivers, nobody worried about its cleanliness.

While the groundwater in most of Illinois is clean and plentiful, there is the potential for contamination, partly because

much of the state is farmed so intensively.

"Groundwater pollution is not a problem in Central Illinois," says William Harryman of the Christian County Cooperative Extension Service, "and we're trying to educate people so we can keep it that way." He adds that leaking fuel storage tanks and pesticide spills near wells are probably the biggest threat to wells and their aquifers. "Inadequate septic tanks are another major source of contamination," he says.

# Groundwater in Illinois

The availability of groundwater and the types of aquifers vary across Illinois. The state can be divided into three sections, each with a slightly different geology and hydrogeology. The map shows the three sections.

## Northern Illinois

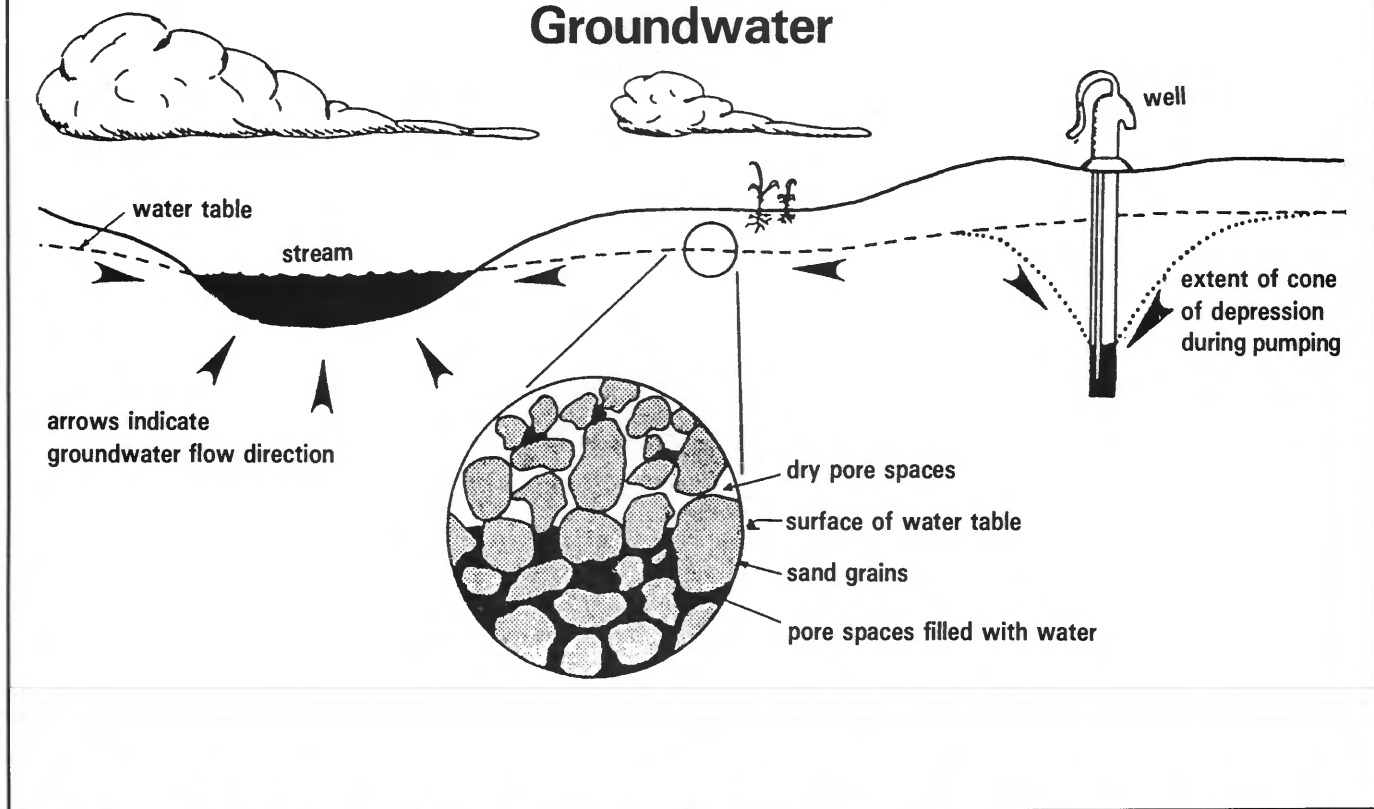
The northern third of Illinois relies on groundwater from three sources: (1) glacial sand and gravel aquifers, (2) shallow dolomite aquifers, and (3) deep sandstone aquifers. The dolomite is fractured and has solution features. Where there are glacial deposits, groundwater that moves downward through them recharges the shallow dolomite aquifers. In the western and northwestern parts of the state where these rocks are exposed at the surface (e.g., Jo Daviess and Calhoun counties) there is recharge directly into the shallow dolomite aquifer. Relatively large quantities of groundwater of predictable quality are produced from the deep bedrock aquifers. The earliest wells in the northeast in the deep sandstone system had flowing artesian conditions. Heavy pumping from these aquifers near and in Chicago that began after 1864 has formed deep cones of depression that have dropped water levels in wells as much as 800 feet. Small drops in water levels in these deep aquifers can be detected more than 50 miles from Chicago.

## Central Illinois

The dominant source of groundwater in central Illinois is layers of sand and gravel deposited by



# Groundwater



melt waters of the large continental glaciers that once covered much of the state. The most productive aquifers of this type are located adjacent to the valleys of the Mississippi, Illinois, Ohio, Wabash, Kaskaskia, and Embarras rivers. Ancient river valleys eroded into the bedrock also are buried beneath the glacial materials. The Mahomet Valley Aquifer is an example of a major bedrock valley located in east-central Illinois. Its sand and gravel deposits are up to 200 feet thick, and it is buried under 100 to 200 feet of glacial till. The aquifer underlies nine counties, ranges from eight to 18 miles in width, and provides a source of water for irrigation, industrial, and municipal uses. Groundwater withdrawal from the Mahomet Valley aquifer is at least 42 million gallons per day. Thinner, near-surface beds of sand and gravel, used by rural citizens as sources of water, lie above the aquifer.

## Southern Illinois

The topography of southern Illinois was sculpted by running water from melting glaciers, although some of the northern-most part is overlain by relatively thin glacial deposits. Sand and gravel, deposited by running water from melting glaciers, is found along courses of present-day streams. The most important aquifers in southern Illinois consist of deposits of sand and gravel that

lie above bedrock. Sand and gravel deposits range from inches to up to 50 feet thick; layers several feet thick often are suitable aquifers. Wells in these deposits provide water for municipal and farm supplies. Thinner, less permeable deposits require large-diameter wells to produce water. In upland and far southern areas where glacial till deposits are absent, bedrock deposits of sandstone and fractured limestone will usually provide water for domestic and farm supplies. Limestone and dolomite that make up the bedrock transmit water mostly through fractures and solution features. Wells drilled into these rocks yield water only if permeable features such as fractures are intersected; the location of these features is difficult to predict. The St. Louis and Burlington-Keokuk limestones contain the most fractures and are usually dependable sources of fresh water for farm and domestic use. Mississippian sandstone, especially the sandstone of the Aux Vases Formation, are most permeable and contain fresh water in the south-central area. Unfortunately, the quality of groundwater decreases with depth because of the salinity of deeper waters in the bedrock aquifers of southern Illinois.

**This information was provided by the Illinois State Geological Survey, a division of the Illinois Department of Energy and Natural Resources.**



Morris Bell

## Growing concern for aquifer integrity

Morris Bell, a director of Menard Electric Cooperative since 1976, was a leader in irrigation in the Chandlerville area, in Mason County. He is also a leader in an effort to take care of the aquifer that helps water his farm.

Bell says good crop fortune led him to irrigation. "After four or five unbelievably good years, I figured, 'This can't go on much longer,' so I put the (irrigation) system in on the assumption that we were due for a dry year pretty soon. It turned out that the next year was really dry, and irrigating my crops made all the difference in the world."

Bell, who raises corn, popcorn, cucumbers, green beans, sweet

corn, wheat and soybeans on some 950 acres, irrigates about 550. He notes that as long as water is readily available, a farmer will come out ahead by irrigating. "If you have a pretty good year as far as rainfall is concerned," he says, "you will do pretty well. But you will do even better with irrigation. If you have a bad rainfall year, you will still do well."

The Bell operation sits smack on top of the Mahomet Valley Aquifer, and water is plentiful and easy to come by. It's anywhere from three feet to eight feet below the surface, and the aquifer is about 100 feet thick in the southwestern part of Mason County.

"I have seven center pivot systems," he says. "The smallest pumps 350 gallons a minute, and the largest pumps almost three times as much."

"Concern for the aquifer arose when irrigation became the rule rather than the exception in the area. There were eight irrigation wells in the county in 1960," Bell says, "and now there are over 1,000. Irrigation has increased dramatically in the last 30 years."

It was that concern for the aquifer that brought about the formation of the Imperial Valley Water Authority, whose objective is to "develop and implement a groundwater management plan." The stated goals of the organization are "to recognize that groundwater is a natural resource, that it must be used in a beneficial and legitimate manner for and by the citizens of the district, and to act in a fair and equitable manner for all citizens of the district."

The main reason for setting up a water authority, Bell says, is to find out how much water there is and where it is, and to figure out a way to provide it to people in the best way possible, at the least expense to all concerned.

"We want to be able to use it, but not waste it," he says. "We think there is plenty of water there, and we think the aquifer recharges itself almost immediately, but we want to be sure. We want to find out how much water is there and how much we are using. We would like to put some kind of monitoring system on it. And while it is not our responsibility to control its quality, we are interested in that, too."

Bell and his wife, Doris, raised three daughters on their farm and while one has since moved to Kansas, the others are involved in agriculture near the old home place.

He hopes to see to it that the Mahomet Valley Aquifer is still there for their children and grandchildren.



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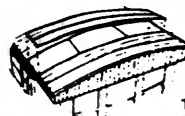
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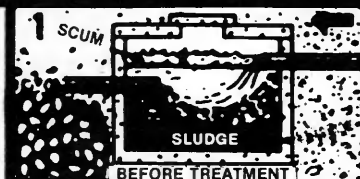
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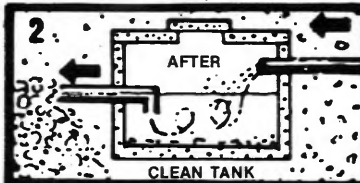
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# BRIEFLY

News items of interest to members of Illinois electric cooperatives

## Del England succeeds Roy Goode at RECC



England

Del England is the new manager of Rural Electric Convenience Cooperative Co., headquartered in Auburn. England succeeds Roy D. Goode, manager of the cooperative since 1968 who retired May 31. England's career in this field began in childhood, when he helped his father install wiring in houses as rural electrification began in Missouri. His business career started in 1961 with Kaiser Aluminum and Chemical Sales, Oakland, Calif. In 1972, England became office manager for Warren Rural Electric Cooperative, Bowling Green, Ky., moving to Fredericktown, Mo., in 1974 to become staff assistant/manager of office services for Black River Electric Cooperative. From 1977 to 1978, England was assistant general manager of Cookson Hill's Electric Cooperative, Stigler, Okla., before becoming general manager of Macon Electric Cooperative, Macon, Mo., a position he held until 1982. He then served as general manager of Sand Mountain Electric Cooperative, Rainsville, Ala., until 1985, when he became a rural electrification consultant for NRECA International Ltd. England and his wife, Betty, spent more than three years in Bangladesh, where he acted as a technical assistance consultant to the Rural Electrification Board of that country's government.

## Bad reviews for 'mission'

The Rural Electrification Administration (REA)—the federal agency that lends money to the nation's 1,000 consumer-owned electric cooperatives—got bad reviews from Congress when it published "Return to the mission," a look at the agency's future that called for deep cuts in lending levels and elimination of most rural development programs. Sen. Quentin Burdick (D-N.D.), powerful chair of the Agriculture Appropriations Subcommittee, started the criticism this spring during a hearing before his panel. He charged that agency officials squandered time and money on producing the "mission statement" while leaving REA's primary tasks undone. REA Administrator Gary Byrne explained that his staffers worked on their own time to complete the report, but that answer didn't satisfy Burdick. "It strikes me as pure propaganda to support your efforts to eliminate REA," he said. "You have unfilled vacancies in your agency. You have a backlog of electric and telephone loan applications that remain unfunded in spite of available resources. You refuse to provide the economic development and technical assistance required by law. Yet you find time and resources to fight Congress on the REA programs." The document fared no better in the House, where Rep. Glenn English (D-Okla.) called a surprise meeting of his agriculture subcommittee to upbraid REA. "Return to the Mission," English charged, amounted to an illegal attempt by government officials to lobby Congress for substantial changes in a federal program.

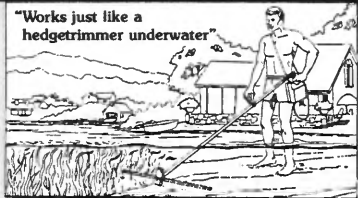
## Congress proposes rural development zones

Federal tax rules could be used to rural America's economic advantage under a bill introduced by three farm-state members of Congress. The Rural Development Investment Zone Act of 1991, sponsored by Reps. Byron Dorgan (D-N.D.) and Fred Grandy (R-Iowa) and Sen. Max Baucus (D-Mont.), would designate up to 100 rural areas around the country in which employers could qualify for income tax credits by creating new jobs or expanding their operations. Rural investment zones would be chosen on the basis of poverty and jobless rates, population declines and previous job losses. The lawmakers argued that a tax break for rural investment would balance the many other federal economic development programs that favor urban areas. "These approaches leave the rural depression untouched," Dorgan and Grandy said in a letter to their House colleagues. "It seems to us that a balanced approach with respect to rural and urban enterprise zones would best revitalize the weak spots in our national economy. We must allow all impoverished Americans, rural and urban, to share in the economic prosperity enjoyed by so many Americans in the 1980s."

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# Getting the most out of your air conditioner

The Air-Conditioning and Refrigeration Institute (ARI) compares the operation of an air conditioning system to an automobile: efficiency depends greatly on the way it is maintained and operated. Cars give better mileage and last longer when they get proper care and attention and are driven moderately. The same thing is true of air conditioning systems. The ARI offers these tips to help you get the most comfort from your air-conditioning system for the least cost:

## Clean the filter

Air conditioning systems do more than just cool the air. They lower humidity and also remove dust and dirt by moving the air through filters.

When these filters become clogged with dirt, the system must work harder to do its job. This wastes energy and can make utility bills rise. Depending on the amount of dust in the air, filters can become clogged in just a month or two of operation. Most residential systems have disposable filters. These should be checked every two months (once a month during peak use) and replaced when necessary. Permanent filters should be cleaned in accordance with the manufacturer's instructions. Under no circumstances should you operate your system without filters. To do so could lead to a need for more frequent cleaning of the heat exchangers.

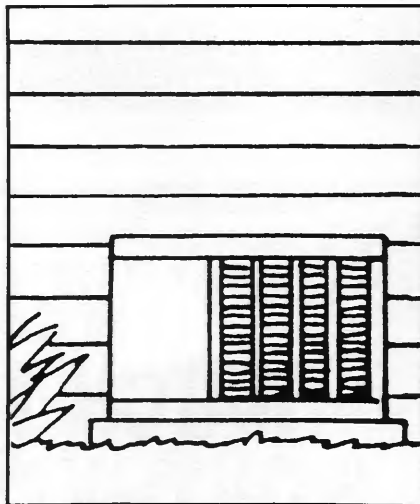
## Air leaks are costly

Some people like to "help" their air conditioner by opening doors and windows on warm days. But doing so just lets all the cool, dehumidified air rush outside and lets in the hot, humid air. The more your home seals out heat, humidity, and dust, the more efficiently your system will do its job.

Most people think of thermal

insulation, storm windows and weatherstripping in connection with reducing heating costs. But the benefits of these energy conservation measures apply to cooling as well.

The amount of insulation your



home needs, as well as the number of hours per day and days per year your air conditioning system works, varies greatly from area to area. To determine the correct amount, consult a building materials dealer or insulation contractor where you live.

Weatherstripping, which plugs holes and gaps around doors and windows, not only blocks out drafts in colder weather, but also helps lock in cool air on warm days and nights. Closing these air leaks will help significantly in maintaining your comfort and reducing energy use.

The sunlight which streams in windows in the winter can provide a great deal of heat inside the home. But that same sunlight during summer or in warmer parts of the country can make an air conditioning system work harder than it should. Insulated or thermal windows can help. Draperies and shades pulled over the windows when the sun is hitting them directly (especially in late afternoon) will reduce the cooling load significantly. Some people install

awnings over windows and doors to provide shade.

Trees and shrubs strategically planted can also provide welcome shade and protection from direct sunlight.

## More cost-saving tips

We've talked about heat coming into the home from outside. But the operation of appliances can generate heat and humidity inside, as well. When they're operating, washers, dryers, ovens and ranges can put out both heat and moisture. Using these appliances during the warmest times of the day, when your cooling system is working hardest, just adds to the burden. By scheduling washing, drying, baking and cooking for mornings or evenings when it is cooler, you can remove this extra burden from your air conditioning system.

An exhaust fan near an oven or range can help remove not only some of the excess heat but also uncomfortable humidity from cooking. Similarly, make sure your clothes dryer is vented outside.

Leave your thermostat at one setting.

Preventive maintenance is the least expensive kind. Not only that, but also keeping your system in top shape through regular checkups is the best way to ensure it will keep working for you when you need it most.

The best time to have your system checked by a competent service technician is in early spring, before the cooling season starts. In warm climates, mid-winter is the best time.

Many firms offer a service contract which provides routine maintenance, including lubrication of motors, tightening of belts and checking of refrigerant level. There are some maintenance checks you can make yourself. Check your owner's manual.



# The hole story

A hole in your wall this big. That's the story when a space just one-twelfth of an inch wide exists around a window and exterior door. Think of all the cooled air slipping out during the summer, and all that heat escaping next winter. Modern weatherization can fill the gaps in seams around doors and windows, and it can boost the effectiveness of your insulation. You'll see the payback in lower heating and cooling costs. Remember this ad space. Call your electric cooperative for advice on weatherstripping, insulation, caulking and other energy-saving measures.



*Electric Cooperatives of Illinois*

Good for ALL Illinois



Wilson's collection includes a variety of multicolored rock slices and crystal formations, as well as a goodly number of spheres. The onyx elephant was purchased at a show.

# Rockhound

## Non-paying job spawns lifetime hobbies



Wilson shows off one of his five rock saws. He is working on a sixth.

Bob Wilson has a couple of hobbies, and one sparked the other, as often happens. He collects Indian artifacts—mostly arrowheads and the like—and rocks.

"I got into collecting arrowheads in an unusual way," the rural Benton resident and member of Southeastern Illinois Electric Cooperative says. "I was raised in an orphanage," he explains, "and one day a nearby farmer came over looking for a boy to work in the hay, and we

went to his place. We'd done quite a bit of work, and then it started to rain."

That put a stop to the work, and after the rain had passed, the farmer suggested a walk in the field, explaining that a rain would sometimes uncover interesting artifacts.

"We were walking along," Wilson relates, "and I saw a little white arrowhead, a really small one. I picked it up and showed it to the farmer, who was really tickled. He offered me a nickel for it, and I jumped at that kind of money."

"It turned out that I never got paid for the arrowhead or the haying work, but I did get a start on a hobby," he says.

He has made a display board backed with red velvet for some of his nicer arrowheads, and he exhibits it proudly. While his board has many interesting pieces, he has several that aren't mounted, too. One of the more interesting is a tiny hatchet head. "It would have been a child's toy," he says, adding, "Children learned a lot of the skills they needed to know by playing with child-sized toys that were just like the real thing."

An over-the-road truck driver, he notes that he had a small farm for just the same reason. "I farmed to teach my two boys to work," he says with a grin. Wilson and his wife, Ruth, also have three daughters.

There are several Indian campsites around where the Wilsons live, and while exploring them he noticed many stones like those used around campfires. "I call them 'campstones'," he says, "and I started bringing them home along with anything else I'd found, if they looked interesting."

One thing led to another, and before long, Wilson was breaking campstones to see if they were more interesting inside. In some cases, they were hollow, with crystals inside.

He decided to get a rock saw and get into rock cutting in a serious way. "I have five saws now," he says with a laugh, "and I'm building a sixth. You can hardly get to them through the garage. There's a machine to make spheres out of stones, too."

"It's interesting to cut rocks," he says, "because many of them have interesting patterns in several different colors. One of the spheres I made is tan with dark gray in it, and there's a

place where it looks just like a dog's head. It's really fascinating."

The Wilsons have joined a nearby rockhounds group, the Southern Illinois Earth Science Club, and go to meetings and shows when they can. They've traveled to Wyoming, Idaho, Montana, South Dakota and Missouri in the half-dozen or so years they've been in the club, and they have brought home a lot of interesting stones.

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5591: On the loose... dress with free floating comfort in sleeveless or short sleeved versions. Misses' Sizes: State SM(10-12), MD(14-16), LG(18-20) or XL(22-24) when ordering.

5651: Simply charming. Dress options: sleeveless or short sleeves, collar or collarless and with or without flounce. Sizes 2-8 years included in pattern.

OFFER EXPIRES SEPT. 15, 1991.

5151: A country cat with movable limbs is a great home accent for any decor. Cat is approximately 18" tall and comes with patterns for clothes and cat plus instructions.

5142: Delightful cow in pinafore is an ideal country accent or best selling bazaar item. Directions, printed pattern for 24" cow and clothes included.

OFFER EXPIRES SEPT. 15, 1991

5670: With no fuss about it, this dress triumphs through subtle seaming and minimalist detailing. Looks great with or without collar. Misses' Sizes 8 to 18 are included in pattern.

5656: The art of shirddressing. Dress has elastic waist and can be made with or without border print. Misses' Sizes (adjustable for petites). State HH(6-8-10-12) or RR(14-16-18-20) when ordering.

OFFER EXPIRES SEPT. 15, 1991.

5074: Add authentic charm to your country decor with these patchwork projects. Directions, pattern tissue for pillows, potholders and wall hanging included.

OFFER EXPIRES SEPT. 15, 1991

950: Sew this French influenced Pierrot clown and his authentic outfit. Directions, pattern tissue for 20" doll and clothes included.

OFFER EXPIRES SEPT. 15, 1991

5616: Today and tomorrow coordinates add up to a very put-together look. Jacket, shell and elastic waist pants are perfect company. Misses' Sizes 8 to 18 are included in pattern.

5566: Feminine flair. Elastic waist dress has two lengths, three sleeve views, round neck, band or tie collar. Misses' Sizes: State N(10-12-14) or U(16-18-20) when ordering.

OFFER EXPIRES SEPT. 15, 1991.

5129: Country Bunnies! Create this cuddly couple complete with original costumes. Ideal home accent or gift bazaar/items. Printed pattern, directions for 24" bunnies and clothes included.

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5657: Options — isn't that what great fashion is all about? Stylish choices: shirt, mandarine, V-band or tie collar for dolman sleeved blouse. Misses' Sizes 8 to 18 are included in pattern.

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5552: Three flared skirts, basic, flounced or buttoned are great for any figure type. Misses Sizes 8 to 18. KK(8-10-12-14) or OO(12-14-16-18) when ordering.

5528: Five easy pieces. Flared skirt, straight skirt (2 lengths), pants and shorts have elastic waists. Misses' Sizes 8 to 18. State K(8-10-12) or R(14-16-18) when ordering.

OFFER EXPIRES SEPT. 15, 1991.

# PATTERNS

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

I have enclosed \$\_\_\_\_\_ (\$4.50 per pattern — cash, check or money order accepted) for the following patterns (please allow four weeks for delivery):

Print Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_  
State \_\_\_\_\_ Zip \_\_\_\_\_

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



# Summer refreshers

## MORE APPLE SLICES

- 2½ cups flour  
1 tablespoon sugar  
1 teaspoon salt  
1 cup lard  
1 egg, separated
- Milk  
¾ cup crushed cornflakes  
5 cups sliced, peeled apples  
1½ cups sugar  
1 teaspoon cinnamon

### GLAZE:

1 cup confectioners' sugar  
2 tablespoons lemon juice

Preheat oven to 400 degrees. Sift together flour, 1 tablespoon sugar and salt; cut in lard with pastry blender. Put egg yolk into measuring cup and add milk to make ¾ cup; stir together. Add just enough milk mixture to the lard mixture so that dough shapes into a ball. On a lightly floured board roll out half of the dough to make a 15 x 11-inch rectangle, transfer to baking sheet. Cover with cornflakes, then with apple slices. Combine sugar and cinnamon, sprinkle over apples. Roll out remaining half of dough and place over apples, pinching edges together to form the top crust. Beat egg white until stiff; brush over the top. Bake 40 minutes. GLAZE: Combine confectioners' sugar with lemon juice and drizzle over hot bars. Makes 16 or more slices.

## NUT BARS

- 2 cups biscuit mix  
1 box brown sugar  
4 eggs
- 1 cup coconut  
1 cup pecan pieces

Grease pan. Mix ingredients together. Pour into pan and bake about 30 minutes at 350 degrees. Cut into bars.

## STRAWBERRY BOMBE

- GRAHAM CRACKER CRUST:  
¼ cup (½ stick) butter or margarine  
¼ cup sugar
- 20 graham crackers, finely rolled

Let butter stand at room temperature until softened. Blend all ingredients well with pastry blender. Pour crumb crust into 1½ qt. (or larger) mixing bowl. Set smaller bowl on top of crumbs and press firmly into an even layer against bottom and sides of bowl.

### STRAWBERRY BOMBE FILLING:

- 2 eggs, separated  
1 13-oz. can sweetened condensed milk  
¼ cup lemon juice
- 1 pint strawberries, sliced  
Few drops red food coloring

Beat egg yolks until thick and lemon colored, mix in milk. Add lemon juice; mix until thick. Beat in half of berries. Tint pink with few drops of red food coloring. Pour into graham cracker crumb crust in bowl. Freeze for at least 6 hours. To unmold, run a spatula around sides of bowl. Put serving plate upside down on bowl and invert. Serve garnished with whipped cream and strawberry halves. Serves 8.

## CHOCOLATE MINT DESSERT

- 1 pkg. (2 row pkg.) Oreos or Hydrox  
cookies
- 1 cup dinner (pillow) mints  
1 cup miniature marshmallows

1 pint whipping cream

Place cookies in blender and reduce to crumbs. Place one-half of crumbs in 13 x 9" dish. Whip cream and blend in mints and marshmallows. Spread over crumb mixture. Top with balance of crumbs. Cover and chill 2 full days. Cut into squares. Could top with ice cream.

## BUTTER SPONGE CAKE

- 2 eggs  
¼ teaspoon salt  
1 cup sugar  
1 teaspoon vanilla
- ½ cup milk  
1 tablespoon butter  
1 cup flour  
1 teaspoon baking powder

Beat eggs, add salt, sugar and vanilla. Add milk which is hot with butter in it. Add dry ingredients. Pour into well greased pan. Bake 25-30 minutes at 350 degrees. Use for Strawberry Shortcake.

## HAM PUFFS

- 3 eggs  
½ cup flour  
1½ teaspoon baking powder
- ½ cup mashed potatoes  
2 cups ham, ground

Beat together flour, baking powder, and eggs until thoroughly mixed. Mix in potatoes and ham. Heat 1 to 2 inches of fat to 350 degrees and drop batter by slightly rounded teaspoons into fat. Fry till golden, turn, and brown other side. Drain on paper towels and serve hot. Serves six. Note: As appetizers ham puffs may be served with mustard sauce, shrimp cocktail sauce, tartar sauce, or your favorite dip.

## FROZEN CRANBERRY SALAD

- 1 8-oz. pkg. cream cheese  
2 tablespoons mayonnaise  
2 tablespoons sugar  
1 can whole berry cranberry sauce  
1 flat can crushed pineapple, undrained
- 1 small bowl non-dairy whipped topping  
½ cup powdered sugar  
1 tablespoon vanilla  
pinch of salt  
½ cup nuts

Cream mayonnaise, cream cheese and sugar until smooth. Fold in remaining ingredients. Pour into 9 x 13 pan. Cover and freeze.

## QUICK FRUIT SALAD

- 1 can fruit cocktail  
1 small can mandarin oranges
- 10 oz. box strawberries

Drain and mix can of fruit cocktail with mandarin oranges. Add strawberries. Mix and chill.



## PINK GRAPEFRUIT REFRESHER

- 2 scoops (about ½ cup) lemonade  
flavor drink mix  
2 cups water
- ½ cup unsweetened grapefruit juice  
2 tablespoons grenadine  
crushed ice or ice cubes

Combine drink mix, water, juice and grenadine in a pitcher. Stir to dissolve drink mix. Serve over ice. Garnish with fresh strawberries, if desired. Makes 2 or 3 servings.

## SPICY BOUILLON

- 3 tablespoons lemonade flavor  
drink mix  
2 cups beef bouillon\*
- ¼ teaspoon Worcestershire sauce  
⅛ teaspoon hot pepper sauce

\*Or use 2 beef bouillon cubes dissolved in 2 cups boiling water; cool. Combine mix, bouillon, Worcestershire sauce and pepper sauce; stir to dissolve drink mix. Serve over ice. Garnish with half lemon slices, if desired. Makes 5 servings.

## THREE FRUIT BEVERAGE

- 1 can (12 fl. oz.) lemonade  
flavor drink  
1 cup cranberry juice cocktail
- ½ cup orange juice  
ice cubes

Combine lemonade, cranberry juice and orange juice. Pour over ice in glasses. Garnish with mint sprigs, if desired. Makes 3 cups or 6 servings.

## TART LEMON-LIME COOLER

- 2 scoops lemonade flavor drink mix  
4 cups water  
ice cubes or crushed ice
- 1 can (6 fl. oz.) frozen concentrate for limeade, thawed  
1 cup lemon-lime carbonated beverage

Dissolve drink mix in water in pitcher. Add concentrate and chill. Just before serving, stir in carbonated beverage and serve over ice in tall glasses. Garnish with lime slices, if desired. Makes 5 servings.

## SWEET & HOT MUSTARD

- 1 cup sugar  
½ teaspoon salt  
1 cup vinegar
- 3 eggs  
2 (3 oz.) cans Coleman's dry mustard

Blend in blender until mixed well. Cook in double boiler, stirring until thick-cool. Store in refrigerator. Yields about 20 ounces—enough to fill 3 large baby food jars. Delicious on any sandwich calling for prepared mustard.

## TEX-MEX DIP

- 1 cup bean dip  
8 oz. cream cheese  
2 tablespoons mayonnaise  
1 tablespoon Picante Sauce  
2 (1 cup) containers guacamole or avocado
- 8 oz. American cheese, shredded  
8 oz. Monterey cheese, shredded  
1 cup sliced large black olives  
Chopped green onions  
Chopped tomatoes

Mix together and serve with tortilla chips.

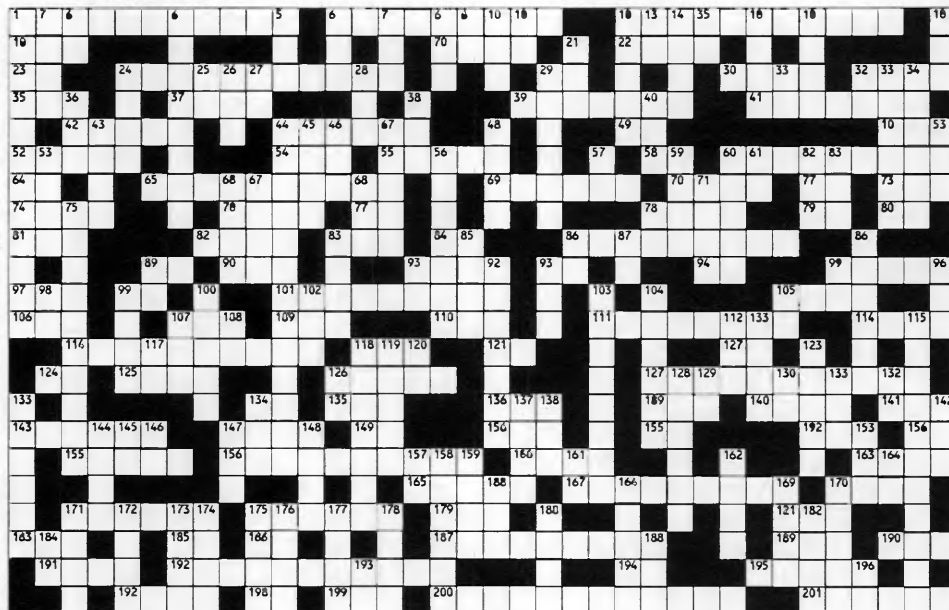
# Rural Electric News Service

## CROSSWIRES

By Judith M. Smith

### ACROSS

1. Make changes
6. Addition
12. A view
19. Guided
20. Periods of time
22. Behind
23. Symbol for tellurium
24. Range of wave lengths in the visible and non-visible spectrum
29. Abbr.: on or about
30. Tablet
32. Latin: deep
35. Environmental Protection Agency
37. These are worn on the head
39. Pressing importance
41. Go into again
42. National Rural Electric Cooperative Association
44. Steep
49. To leave
50. Clear alcohol
52. Protuberances
54. Paddles
55. Eagle's nest
58. Abbr.: no funds
60. State of being precise
64. Alaska
65. Control of public policy
69. To agree
70. Part in a play
72. Goes with either
73. Lyrical poem
74. Journey
76. Unmarried woman
77. Prefix meaning primitive
78. \_\_\_\_ Lisa
79. Pennsylvania
80. Nebraska
81. Scottish "John"
82. Underground missile shelter
83. Spanish: "\_\_\_\_ favor"
84. Abbr.: Labrador
86. Double entendre
89. Virginia
90. \_\_\_\_ Aviv
91. French word for state
93. Abbr.: touchdown
94. Symbol for tin
95. Tilting match
97. Abbr.: east north east
99. Abbr.: foot
101. Detailed list of stock
105. Abbr.: Oil Producing Exporting Countries
106. \_\_\_\_ Francisco
107. Drug used in AIDS treatment
109. Sandra \_\_\_\_
110. Abbr.: Republican National Party
111. Too much
114. Fatty tissue around kidneys of cattle; used to make



116. Device that regulates temperature
118. Past tense: is
121. Not out
122. Symbol for tantalum
124. Hawaii
125. Seizure of property in payment for a debt
126. San Andreas \_\_\_\_
127. Legacy
134. Spanish "yes"
135. Abbr.: limited
136. Trouble, fuss
139. Abbr.: negative
140. A unit of weight
141. Part of a play
143. Vigor or power in action
147. Type of collar
149. Symbol for titanium
150. Latin: light
151. Abbr.: Greece
152. Legendary bird
154. Abbr.: Thursday
155. Flies high
156. \_\_\_\_ Gap
160. Price
163. Not there
165. Build
167. Sleeping quarters for many
170. City in Hawaii
171. Reset
175. Passage for escape
179. Constellation in southern hemisphere
181. Female sheep
183. Abbr.: read-only memory
185. Goes with either
186. Utah
187. To control or direct course
189. "My \_\_\_\_ Sal"
190. See with this
191. Opposite of shut

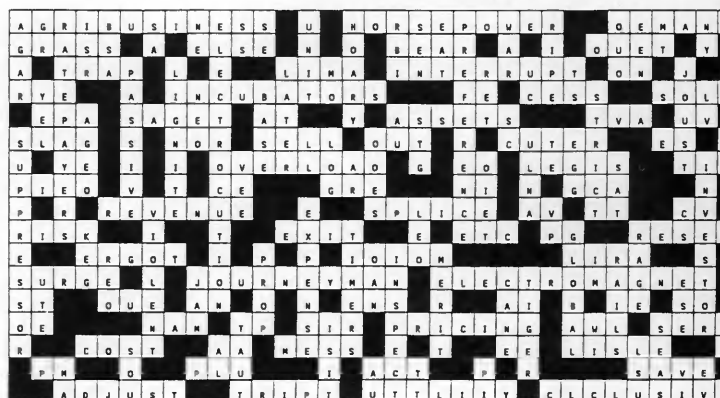
192. Unpleasant
  194. Abbr.: district attorney
  195. Flexible
  197. Cheese
  198. Abbr.: for share
  199. Flightless bird
  200. On-ground terminal
  201. Desserts made with many eggs and little flour
- ### DOWN
1. Other means
  2. Not shallow
  3. Abbr.: Juris Doctoris
  4. Liquid used as antifreeze or fuel
  5. \_\_\_\_ Lanka
  6. Section of a building
  7. Trinitrotoluene
  8. Actor Beatty
  9. \_\_\_\_ what?
  10. Not out
  11. Abbr.: old style
  12. Sharply pointed projection
  13. Abbr.: electrical engineer
  14. Ribald
  15. Abbr.: senior
  16. Middle eastern prince or chief
  17. Prefix meaning distance
  18. Coffee, \_\_\_\_ or me?
  21. Sack
  24. Utilizes
  25. Sun god
  26. Consumed
  27. Abbr.: veterinary surgeon
  28. Ovum
  29. The east
  31. French article
  32. Prefix: location
  33. American \_\_\_\_
  34. Highly evacuated electron tube

36. Conjunction
38. Sailor's "yes"
40. Opposite of pro
43. Harvest
44. Merger
45. Male sheep
46. Metric unit of area equal to 100 square meters
47. Short for alligator
48. School: Virginia \_\_\_\_
51. Abbr.: north north east
53. Fuzzy vegetable
56. Deals in real estate
57. Symbol for the copper
59. Amphibian
60. Not fancy
61. Symbol for rhenium
62. Policeman
63. Abbr.: Irish Republican Army
66. Give off
67. Irritate
68. Prefix for new
71. Burden
75. Motivation

78. Michigan
83. To make progress for development
85. Where farm animals are kept
86. Short for advertisement
87. Abbr.: baron
88. Alarm sounded on a bell
89. Vermont
91. Latin: and
92. Emblematic
93. Spanish uncle
95. French pronoun
96. Kid
98. North America
99. Gas is one
100. These layers protect the earth
102. Fishermen use this
103. Pesky insects
104. \_\_\_\_ Sea
105. Ohio
107. Abbr.: African Methodist Episcopal
108. Physics term abbr.: tensile strength

112. Indian tribe
113. Flat, rectangular piece of paper
115. To decompose by electrolysis
117. Rhode Island
118. Power expressed in watts
119. Review of records
120. Abbr.: Sierra Leone
123. Gaze
126. Florida
128. Sea nymph (mythology)
129. Abbr.: height
130. Abbr.: Irish
131. Latin: I love
132. California
133. Space \_\_\_\_
134. Abbr.: saint (female)
137. Tube through which liquids flow
138. Prefix meaning oxygen
142. Article
144. Crucifix
145. Georgia
146. Abbr.: year
147. Self love
148. Birds build this
153. Greek letter
157. Latin: that is
158. Shrine
159. Fiddled while Rome burned
161. South Dakota
162. Work
164. Nickname for elevated train
166. Tin \_\_\_\_
168. Valerie Harper sitcom
169. Thief
170. Greeting
171. Short for amperes
172. Summer month
173. Soft drink
174. Fit
175. Not ins
176. Where Provo is located
177. Musical instrument
178. Soybean curd
180. Shove
182. Pause
184. Prefix meaning egg
188. Rodent
193. Printing: unit of measure
196. Abbr.: emergency room

### Last Month's Puzzle Solution



## MISSING



**NYLEEN KAY MARSHALL**

LAST SEEN: 06/25/83 EYES: Blue  
FROM: Clancy, MT HEIGHT: 3'2"  
DOB: 09/18/78 WEIGHT: 29  
WHITE FEMALE HAIR: Brown



**NYLEEN KAY MARSHALL**

Age progression by NCMEC  
(10/90)

to 12 years of age

If you can identify these or  
any other missing children,  
call The National Center for  
Missing and Exploited  
Children at:

**1-800-843-5678**

(sightings only)

This message is brought to you as a public  
service by Association of Illinois Electric  
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Safety Council.

### -Safety Tip of the Month-

Teach your child your telephone number,  
area code, your full address, and how to  
use the telephone to call home, a law  
enforcement officer, or dial "0" for  
operator in an emergency.

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# River Ridge Restaurant

## New at New Salem

Abe Lincoln surely would have approved, although the newly opened River Ridge Restaurant is a far cry from anything that existed in New Salem when he was a young man. In fact, its parking lot is nearly as big as the town of New Salem was in Abe's time.

The new establishment—part of the New Salem State Historical Site—is a 13,000 square-foot structure made of timbers and sandstone. It bears more than a passing resemblance to buildings in other state historical sites, such as Pere Marquette and Starved Rock.

The new restaurant is just across Illinois Route 97 from New Salem, about two miles south of Petersburg. It is served by Menard Electric Cooperative.

River Ridge is one of a couple of recent improvements at the historic site, the other being the new visitors center that opened last year.

John R. Howard, the restaurant operator, notes that River Ridge hopes to benefit from the additional tourists the visitors center will bring in, and he says he hopes to provide some benefits to the site by offering a good place to eat for those who tour the place.

"New Salem has been getting about 600,000 visitors a year for the last several years," he says, "and we expect the visitors center to bring in even more. Eventually we hope to see a million or more visitors a year to the place, and it will be great for them to have a nice place to eat."

And it is a nice place. The structure sits atop a wooded

knoll overlooking the Sangamon River and is surrounded by old-fashioned street lights. The entryway is sheltered by a mas-



**John R. Howard, who operates the River Ridge Restaurant, stands in front of the massive stone archway that welcomes people into the building.**

sive stone archway, which leads into an anteroom decorated with Lincoln posters. As you enter, the floor-to-ceiling fireplace is one of the first things you see. The main dining room, behind the fireplace, boasts a semicircular glass area that looks out over the river—and is crowned by a 20-foot exposed-beam ceiling.

There is a lounge, and several banquet rooms are available, too. "The main dining room seats 120," he says, "and the main banquet room will seat 200. We can divide it into three separate rooms for groups of

25-50 per room. We also have a few umbrella tables outside, and we're adding a deck for a few more. Their popularity will depend to a certain extent on nice weather, and I'm eager to see how they work out."

When it was time to cut the ribbon commemorating the restaurant's grand opening in April, Governor Jim Edgar showed up to do the honors, and River Ridge was on its way. While the business is in a new building, it has a long tradition, too. The Howards have put in 33 years in the restaurant business, at the Fleetwood Restaurant in Springfield.

He notes that the idea of a restaurant at New Salem originated with the Illinois Historical Preservation Agency and that restauranteurs were offered the opportunity to bid on the operation of the site.

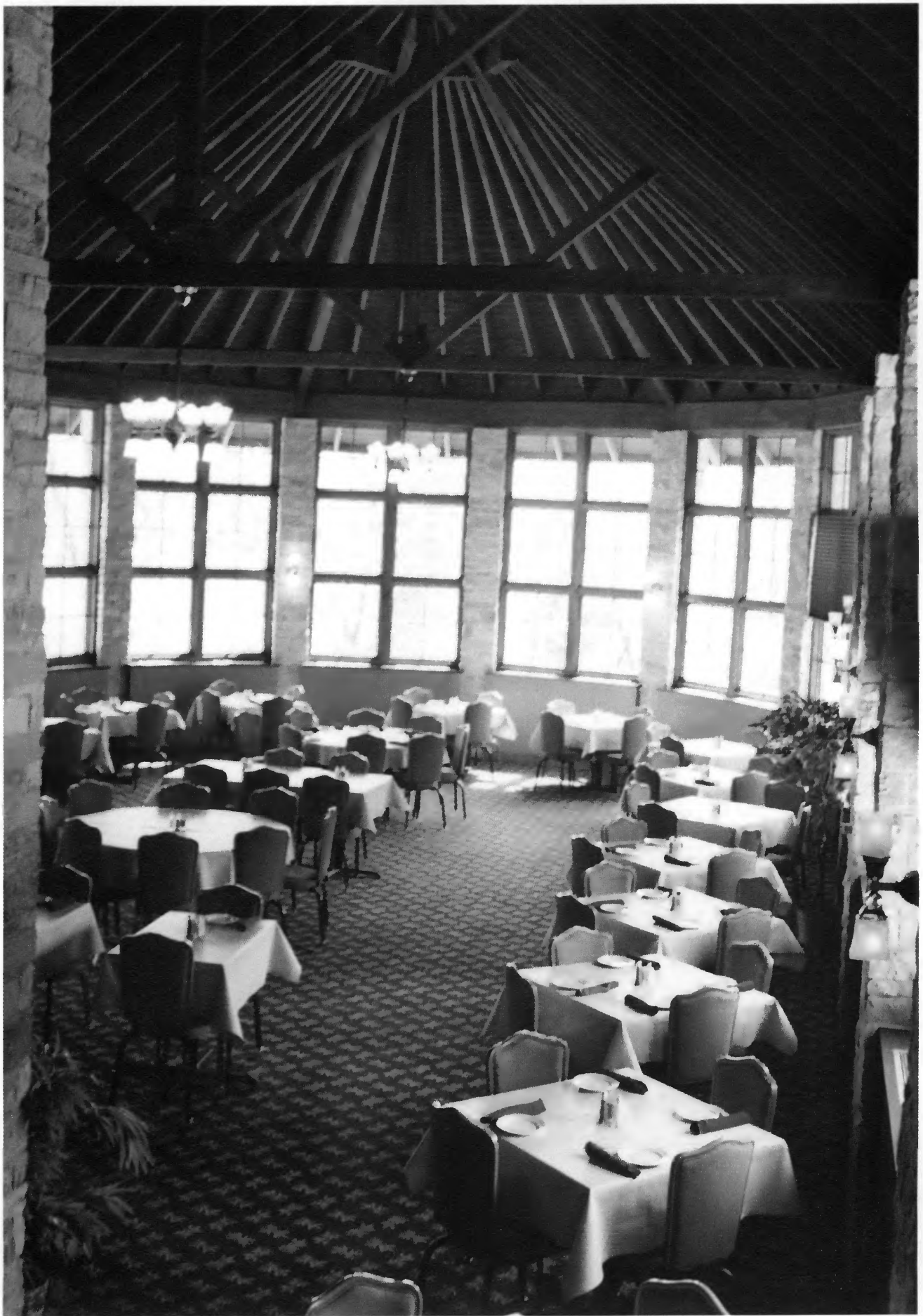
"We looked at the prospects," he says, "and talked about our experience in the business and decided to make a bid. As it turned out, we were successful."

While it's hoped that the presence of a restaurant will increase the flow of tourists to New Salem, the Howards hope, at least to an extent, to make River Ridge a destination in itself.

"We're really pretty close to Springfield," he says "and that should be a help. It's just about a 20-minute drive up here from the western edge of town. We're actually doing a pretty good business now."

He adds that the restaurant is open every day and offers several food and drink specialties, as well as a Sunday brunch.





The restaurant's main dining room overlooks the Sangamon River and boasts a massive stone fireplace and an exposed-beam atmosphere.

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Additional Words: \_\_\_\_\_ (use separate sheet if needed)

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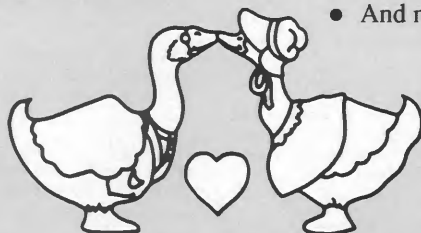
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