



illinois  
**ren**

rural electric news

September, 1974

## **national news in review**

### **USDA Conducts Special Crop Review**

Rainfall during the first half of August over much of the Plains and Corn Belt States apparently did not promote significant gains in corn production, although soybeans could benefit from the moisture, according to the U.S. Department of Agriculture (USDA).

Unusual public interest concerning the potential output of 1974 crops prompted USDA's Statistical Reporting Service (SRS) to conduct this quick mid-month review.

The review indicated that precipitation and temperatures were favorable to sustain the August 1 potential corn production reported by SRS, but that additional rain is needed to replenish depleted soil moisture supplies and promote production gains of any significant magnitude. The 1974 crop is generally late developing and any growth stimulated by recent rains must be evaluated in terms of average first killing frost dates.

Soybeans may benefit from the August rains, but any increased output from new growth also will depend upon the killing frosts as well as normal precipitation the rest of the growing season.

### **Nixon Veto May Stick**

Former President Nixon's appropriations veto leaves REA-insured loan level uncertain, with House Appropriations Committee leaders set to decide whether to compromise or try to override the veto. In one of his last acts as president, Nixon on August 8 vetoed a \$13.5-billion appropriations package for agriculture, environmental and consumer-protection spending for fiscal 1975. The package included \$750-million in two percent (\$80-million) and five percent insured loans to be provided by REA to electric distribution cooperatives. President Ford supports the veto. Congressional sources were uncertain how much that fact plus Ford's general budget-cutting thrust will affect the direction Congress takes. The appropriations package passed the House 351-41 and the Senate 67-21.

### **Aspin Attacks Oil Company**

Wisconsin Congressman Les Aspin declares the Mobil Oil Company is sneaking a corporate end run, trying to "diddle and defraud the American consumer." He says the petroleum industry giant has been pounding the consumer ear with repeated shouts that oil profits are big, but they need to be so "we can improve our ability to supply our customers in years to come. We must go on spending big in order to find new reserves that will keep us in business and keep you supplied with fuel."

This isn't a truthful account of what Mobil is spending the big money for, observes Aspin. Actually, Mobil was quietly getting set to lay out about \$500-million to latch on to 51 percent of the stock in Marcor, parent company of Montgomery Ward and the Container Corp.

This betrays Mobil's claim that high profits are essential to finance new exploration and development, says Aspin. Beyond this, the Mobil acquisition would violate antitrust laws, because "Montgomery Ward sells tires, batteries, accessories and even gasoline, and is in direct competition with Mobil."

Apparently, Mobil feels the real need for its embarrassing 47 percent profit increase last year is to provide the nourishment to develop some substantial new conglomerate muscle. Aspin has asked the Federal Trade Commission to stop the proposed takeover of Marcor.

### **Cooperative Representation**

Representatives of the 50 million people who belong to cooperatives should be part of a national conference on inflation, Stanley Dreyer, president of the Cooperative League, told President Gerald Ford in a recent letter. Saying that inflation has been of "special concern" to the League, Dreyer added that "we hope the conference will be called at an early date and be well representative of people of various income levels, cooperatives and other business institutions as well as the financial community and government. America's cooperatives serve over 50 million people through credit unions, agricultural, electric and consumer service organizations."

September, 1974

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**COVER**—Kathy Harriss, "Miss Illinois Electric Cooperative" of 1973, assists Illinois Comptroller George Lindberg as he crowns Mary Carter of Potomac as the 1974 Queen during the AIEC's 33rd annual meeting. See story on page 8.

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# illinois rural electric news

## The Real Meaning of Cooperation

What lies ahead for Illinois electric cooperatives? Prosperity? Stagnation? A gradual decline in usefulness and effectiveness? Or even greater service than before?

These same questions were asked five years ago. During those five years, the cooperatives in Illinois have had a distinguished record of service.

But now more than ever before, cooperatives can't sit back on their laurels and live in their past accomplishments. Inflation has already pushed electric rates higher than the cooperatives—and their members—would like. Future rate hikes probably will be necessary for most electric cooperatives to assure consumers of a reliable source of electric power.

It's not enough to defend the rising cost of electricity by saying, "everything else is going up." Electric cooperatives are pledged to do their utmost to hold the cost of electricity as low as possible. Fortunately for their cooperative members, cooperatives are doing just that and will continue to do so.

How can electric cooperatives continue to provide dependable service at the lowest possible cost in the midst of the highest inflationary period this country has ever experienced?

That thought was on the minds of the more than 500 delegates and leaders attending the recent Association of Illinois Electric Cooperatives annual meeting in Springfield.

One way, and probably the only way, is through cooperation. That word cooperation—it rolls off the tongues of politicians like melted butter.

Cooperation, at times, has been a word to mask laxity or mistakes. "If we only had cooperation, all the problems of the world would be solved," can be an empty phrase; it surely will never be the panacea to cure the world's ills.

But with electric cooperatives, cooperation is a matter of necessity.

Case in point—the staggering 41 percent rate increase being sought by Central Illinois Public Service Company (CIPS) for wholesale power it sells the cooperatives for distribution to their member-owners. A 41 percent increase, coupled with higher prices for fuel, would cost the cooperatives over \$6-million more for power from CIPS than was paid in 1973.

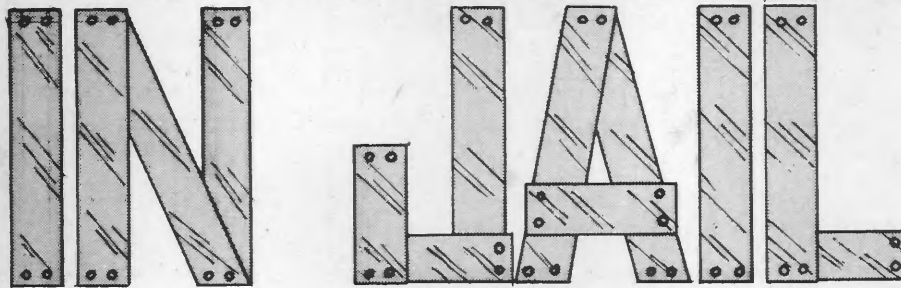
Such an increase has been deemed completely unacceptable by electric cooperative representatives and continuing negotiations with CIPS will seek to modify the rate increase being sought.

Individually, a cooperative wouldn't have much of a chance in negotiations with a giant like CIPS. But collectively, electric cooperative leaders can bargain for a much more reasonable rate which can be agreed to without seeking relief from the Illinois Commerce Commission, the Federal Power Commission, the U.S. Justice Department or other governmental or regulatory agencies.

It's in cases like these that electric cooperatives really learn the meaning of cooperation. It again proves the adage, "We must all hang together or we surely will all hang separately."



# Historical Society Establishes Museum



In 1968, a group of families concerned with preserving the historical facts of Schuyler County invaded a Rushville city council meeting and came away with what they wanted—the old Schuyler County Jail.

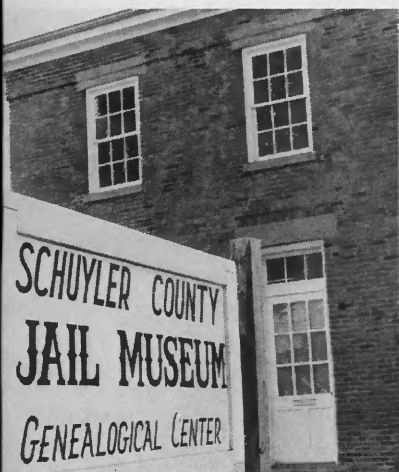
That time-worn and rusted relic six years later is in the process of becoming a bona fide tourist attraction and a historical asset to the residents of the county.

Several members of the historical society board, which leases the jail, are also members of Adams Electrical Co-Operative, Camp Point. Mr. and Mrs. Dwight Howell, Dale Davis, John Taylor and Mrs. Faye Eifert, all cooperative members, are

among the most active in the historical society.

“We were going to tear the jail down,” Robert McMillen, a Rushville alderman, said. “The roof was falling in . . . garbage was all over . . . it was just a hazard. But when we saw how many people were really interested in the project of restoring

*LEFT: The Schuyler County Historical Society found itself a home when it managed to lease the Rushville Jail from the city council. BELOW: Mrs. Dwight Howell, a member of the historical society and Adams Electrical Co-Operative, Camp Point, shows the chains on a cell door. These chains were part of the bastille system used in the jail.*



it, the council voted to lease the building to the historical society at \$1 a year for 99 years.” McMillen is also the Rushville sales representative for Adams Electrical.

Constructed in 1957, the jail was used as a county and city institution intermittently until 1967. During World War II, it also served as a youth center and more recently as a meeting place for Girl Scouts and Boy Scouts.

When it was built, the jail was described as the most modern of its time, with better lighting, heating and ventilation than any other jail in the area. But at the time, the standards were not too high for county jails.

The building had eight cells—four upstairs for women—plus the sheriff’s living quarters. Huge stone blocks, measuring 24” x 20” and ranging from two to five feet in length, were hauled eight miles from the McKee Branch quarry to construct the cell block.

The English bastille system of chains and locks on cell doors and massive iron doors between rooms was used to confine the prisoners.

Taken together, the dreary stone walls, small barred windows and flickering candlelight of the jail’s halls must have created an eerie and totally unpleasant atmosphere for a felon.

All of this has changed. Prisoners who were housed in the jail over the past 100 years might have trouble recognizing their former home.

“Over \$18,000 has been spent in restoring the jail,” Mrs. Dwight Howell said. “Most of it came from donations. The figure also doesn’t take into account the free labor of interested people.”

The ceiling was renovated and the stone walls were sandblasted. Both electrical and heating systems were installed.

Much of the money, however, went into the building’s addition, the Heritage Room. The Heritage Room houses the historical records of the society, provides the working area where family histories are traced and is where the Schuyler county his-

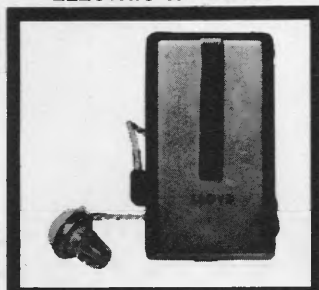
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**SPECIAL OFFER**

TO ILLINOIS RURAL ELECTRIC READERS

# HEARING AIDS

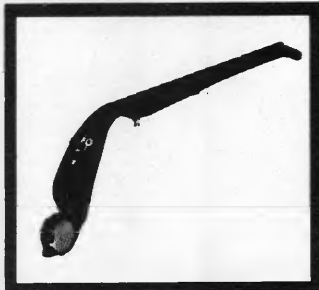
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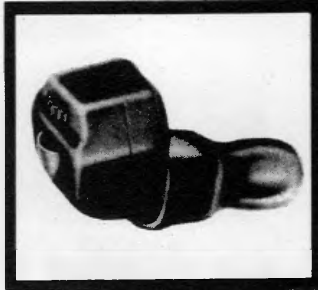
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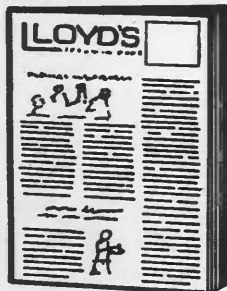


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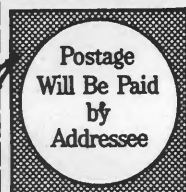
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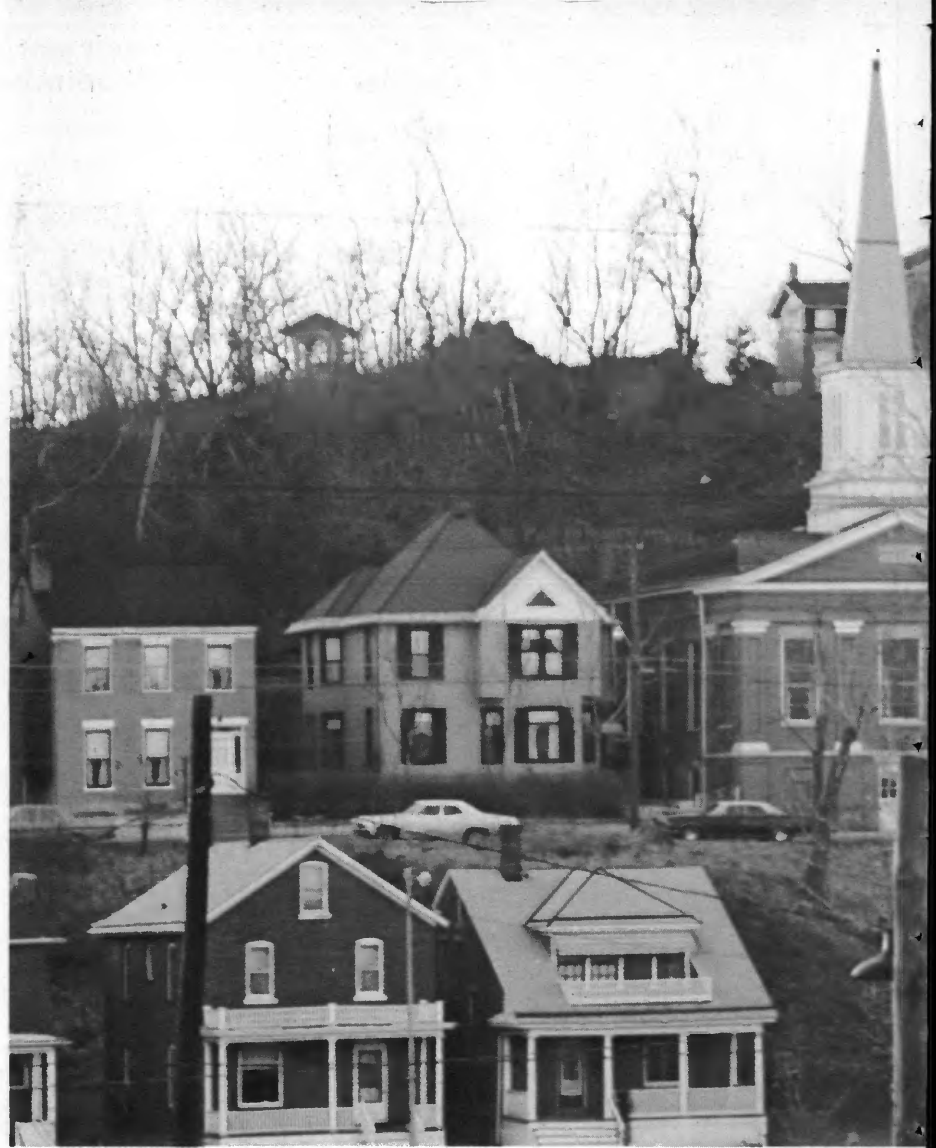
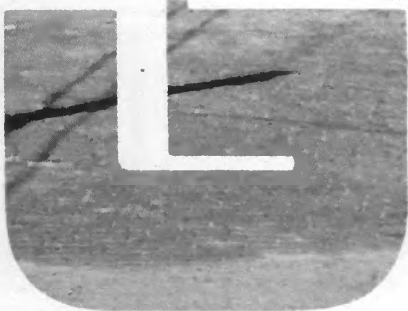
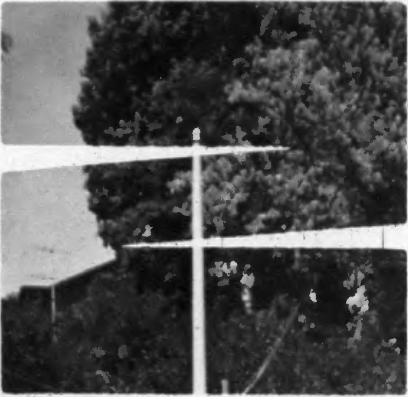
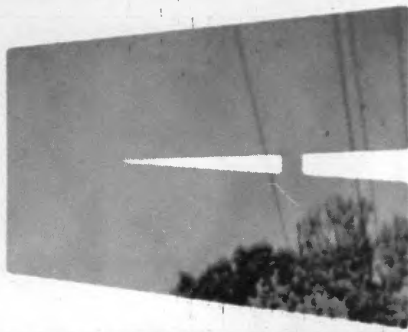


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# the city that





LEFT: When Grant returned from the Civil War, he came back to a home built by Galena's citizens to show their gratitude. ABOVE: A statue of Grant stands as a silent sentinel overlooking his city. BELOW: Galena is a city of several levels with towering hills and deep valleys, a result of glacier activity.



# time forgot

*"No, General Grant, things haven't changed all that much in your town. We have cars now instead of horses, but the good folks still live on Quality Hill and your home is much the same as you left it when you went off to be our President. We're of the same stock as the people you used to do business with, sir, and Galena still remembers you."*

**G**ALENA. The biggest "boom" town in the country, far larger than fledgling Chicago and a serious rival to St. Louis for the title of Mississippi River capital of commerce.

Or Galena, "the town that time forgot."

Both are the real Galena—if at different times. Once, Galena was a prospect for greatness. It was the commercial and cultural center of the Northwest. But somewhere, at some time, fate stepped in and the destiny was never fulfilled.

Today, Galena, a city of 4,900 resting in the far northwestern corner of Illinois in Carroll County, is facing the problems of a small community, not those of a metropolis.

The Galena River, which once flowed into the Mississippi River and conducted a brisk river trade, is now too shallow for navigation. Where once literally hundreds of lead mines dotted the area, only one is still in operation. Power for the Vinegar Hill lead mine is provided by Jo-Carroll Electric Cooperative, Elizabeth, as is the rural area surrounding Galena.

In the 19th century, industry was not a prerequisite for growth. Today, it is mandatory, and Galena has very little industry.

What the city does have, and what has proven to be its salvation, is a tourist trade estimated at more than 350,000 people annually.

Galena is deeply entrenched in the history and folklore of the United States. And above all, it was the adopted home of a cigar-chomping, whiskey-drinking storekeeper who became one of our country's best gen-

*(continued on page 34)*



ABOVE: The Queen and her Court. Mary Carter of Potomac, representing Eastern Illinois Power Cooperative, Paxton, (center) at the 21st beauty pageant held during the annual meeting. From left are: Anne Timmermann of Breese, first runner-up Donna Hampsmire of Fowler, Miss Carter, second runner-up Leah Coston of Crossville and Joy Whited of Mulberry Grove. Miss Timmermann and Miss Whited were co-winners of the "Miss Congeniality" award. LEFT: Thomas H. Moore, general manager of the AIEC.

*Electric Cooperatives*



## Mary Carter Chosen Queen, Goleman New President Cooperatives Plan for

**E**lectric cooperatives in Illinois face problems unlike any they have confronted before—but leaders throughout the state, attending their annual meeting in Springfield, expressed confidence these prob-

lems will be solved.

Inflation has already pushed electric rates higher than cooperatives would like and future rate hikes will probably be necessary for most of them to assure consumers of a reliable source of electric power.

David A. Hamil, administrator of the Rural Electrification Administration (REA), told more than 500 persons at the Association of Illinois Electric Cooperatives' (AIEC) 33rd annual meeting that electric cooperatives "must act on local and statewide levels to find answers to power supply and escalating rate hike problems."

Hamil said action should be taken in two phases, "by first finding short-term answers to increase public understanding of higher rates, and then by working out long-term solutions to adequate and reliable power

supply.

"A consumer is more likely to understand why electricity is going to cost more if he is told of the factors that add to the cost of providing that service," he declared. "Shortages, inflation and high interest rates affect everybody. If you keep your consumer fully informed as to why rate increases are beyond the control of your system, he will see the problem in terms he can understand."

Hamil also encouraged continuation of programs to teach consumers more efficient use of electricity. "Finding long-term solutions calls for industry-wide cooperation, study and research on a national basis," he added.

AIEC General Manager Thomas H. Moore of Springfield summed up the problems facing Illinois electric cooperatives and their over one-half million consumers in his annual report.

Moore said the American people were rudely awakened shortly after the New Year's celebrations had worn off in 1974 to what became known as the "energy crisis."

"The crisis came almost unheralded and unannounced," he said. "Although the peak of the crisis has passed, few individuals or segments of our economy, al-



most no type of business, regardless of size, has been left the same."

As one example of the problems inflation is causing the electric cooperatives, Moore cited the staggering 41 percent rate increase being sought by Central Illinois Public Service Company for wholesale power it sells to 16 Illinois electric cooperatives for distribution to their member-owners. Such an increase, Moore said, coupled with higher prices for fuel, would cost the cooperatives over \$6-million more for power from CIPS than was paid in 1973.

Such an increase, he declared, is deemed completely unacceptable by electric cooperative representatives and continuing negotiations with the CIPS will seek to modify the rate increase being sought.

Retiring AIEC President Robert F. Zook of Athens, a director of Petersburg-based Menard Electric Cooperative, said the most pressing problem for cooperatives in the near future is attaining an adequate power supply.

"The answer to this problem, I believe, is twofold," Zook said. "First, there is a provision of the Atomic Energy Act which requires any nuclear plant to share a portion of its output with cooperatives or municipalities in the area if they have a need for power."

According to Zook, a plant is being constructed in Clinton by the Illinois Power Company and cooperatives have a right to purchase a portion of that plant.

"But, we must also pursue the feasibility for a co-

operative-owned generating plant," Zook said.

"This will only be accomplished by the

continued cooperation and teamwork that cooperatives are noted for."

Richard A. Dell, director of the legislation and communications department of the National Rural Electric Cooperative Association (NRECA), announced at the meeting that the newly created Federal Financing Bank will guarantee \$1.5-billion in loans for the balance of 1974 to REA, the federal lending agency of the nation's electric cooperatives.

Most of the loans would go for the construction of cooperative-owned generation and transmission plants throughout the United States. Dell said that in this period of high interest rates and tight money, a dependable supply of capital will assure the ability of electric cooperatives to meet the energy needs of their member-owners.

Turning away from cooperative problems and on to the national scene, Congressman Paul Findley of Pittsfield said, "we now have a full-time President with vast support on both sides of the aisle, new standards of public performance where the means as well as the end will be examined and a government which has again proven its resiliency."

Findley attacked the idea of "subterfuge and deceit" in government which he said had almost become a

"way of life" since World War II.

"But it is no longer good enough to say things are being done in the interest of the nation . . . national security," he said.

According to the Congressman, Watergate, which he termed "a terrible mistake," has proven the idea of the end justifying the means is no longer viable. "This Cold War mentality must be rejected," Findley added.

Findley praised both President Ford and the selection of former New York Governor Nelson Rockefeller as vice president.

"Gerald Ford has taken a firm hand and will give us the kind of system—an open system—which has been so long needed," Findley said. "He has restored the spirit of the nation."

Worries about inflation and reliable power supply sources were put aside during the 21st annual AIEC beauty pageant when Illinois Comptroller George Lindberg crowned 19-year-old Mary Carter, a brown-eyed college freshman from Potomac, as "Miss Illinois Electric Cooperative" for 1974. Miss Carter represented Eastern Illinois Power Cooperative of Paxton.

First runner-up in the contest was Donna Hampsmire, 19, of Fowler. Miss Hampsmire represented Adams Electrical Co-Operative of Camp Point. Second runner-up was Leah Coston, 18, of Crossville, representing Wayne-White Counties Electric Cooperative of Fairfield.

For the first time in the 21-year-old history of the AIEC beauty pageant, the title of "Miss Congeniality" was shared by two young ladies, Anne Timmermann of Breese, representing Clinton County Electric Cooperative, Inc., Breese, and Joy Whited of Mulberry Grove, representing Southwestern Electric Cooperative, Inc., Greenville.

A. Leo Goleman of Divernon was elected to succeed Zook as AIEC President. Zook had held the post for five years. Goleman is a grain and livestock farmer and is vice president of Rural Electric Convenience Cooperative Co. of Auburn.

Elected to serve with Goleman was Stanley E. Greathouse of Johnsonville as vice president. He is president of Wayne-White Counties Electric Cooperative of Fairfield and succeeds Clement Ikins of Onarga. Re-elected secretary-treasurer was Edward C. Timpner of Pinckneyville, a director of Egyptian Electric Cooperative, Steepleville. Albert J. Cross of Springfield continues as assistant secretary.

During the three-day meeting, members of the Illinois Action Committee for Rural Electrification (ACRE) also held its annual meeting and elected officers for the new year. They include Raymond W. Rusteberg of Valmeyer, Illinois director of National ACRE, Washington, D.C.; Charles C. Cole of Penfield, chairman; Stanley Otten of Modesto, vice chairman; Cross, secretary, and Moore, treasurer and coordinator.

At an earlier meeting, members of the NRECA from Illinois re-elected Rusteberg as a director to represent Illinois for a one-year term on the national organization's 46-member Board of Directors.

# the Future

**I**t was almost dusk as the flatboat neared Battery Rock.

The pioneer family had journeyed from the uplands of the Ohio Valley. They had heard of the treacherous river downstream and decided to put ashore for the night.

As the flatboat neared the shoreline, two strangers stepped from the trees, offering their help to pilot the boat through the 12 miles of rough water ahead.

Next morning, the flatboat shoved off with the two strangers at the helm. Somewhere down river they ran the vessel aground and were joined by comrades.

The family was killed, bodies weighted with rock and dumped into the river. The cargo was stolen and the boat scuttled.

Sounds like a story one might hear of pirates on the high seas, or an episode near one of the rough and tumble towns like New Orleans. But, it was a lot closer to home.

In the late 1700's incidents like this abounded in the area near and around the sleepy little town of Cave-in-Rock (population 503).

Its famous namesake, a cavern 80 feet wide, 25 feet high and extending back 200 feet into the limestone cliffs of Hardin County, once sheltered a legion of river pirates.

This cavern of crime is now part of a 60-acre state park on the eastern edge of one of the Midwest's top recreation areas, Shawnee National Forest.

Power for the state park is supplied by Southeastern Illinois Electric Cooperative, Inc., Eldorado.

The cave is first mentioned in Charlevoix's "History of New France" on information from a French engineer who had visited the region in 1729.

Indians, however, were the first to use the cave. They left behind many drawings of animals that roamed the area. Most of these animals are now extinct.

Tolu, site of the ancient trading and ceremonial center of the Mississippian culture, is located just across the Ohio River from Cave-in-

# HARDIN COUNTY

Rock.

The pirate activity, which would later bring dubious recognition to the cave, began in the late 18th century.

First to occupy the cave was a thief named Wilson. He used part of the cave as a dwelling and part for "Wilson's Liquor Vault and House of Entertainment."

Wilson was killed by his own band of cutthroats, when the bounty on his head reached a tempting figure. The skeleton remains of 60 victims were found in an upper chamber of the cavern after his death.

Samuel Mason, fleeing from an unsuccessful attempt to make a fast dollar in Wheeling, West Virginia, sought refuge in Hardin County.

Mason took over Wilson's tavern and changed its name to Cave Inn, Rock Cave Inn and finally to Cave-Inn-Rock.

Women and whiskey lured unsuspecting travelers into the cave, where they were killed and robbed. The river pirates believed in the idea, "Dead men tell no tales."

Most of the pirates killed for profit. However, Hardin County history tells of the notorious Harpe Brothers, who killed for the fun of it.

In their trek through North Carolina, Tennessee and Kentucky, the horrible Harpe Brothers (Micajah and Wiley) left a trail of over 50 murders.

They were too cruel even for their outlaw brethren.

After tying a robbery victim to a blindfolded horse, the Harpes ran it off the cliff above the cave. The horse fell among the pirates, who were assembled below dividing the booty from the robbery.

Failing to see the humor in the incident, the pirates drove the Harpes from the cave. They were later captured and beheaded.

As was common in those times, Big Harpe's (Micajah) head was placed on a limb beside the road as a warning to other thieves. Today the road near Dixon, Kentucky, where his head was placed, still bears the name Harpe's Head Road.

These are only samples of the many pirate tales that could be retold from the period when pirates reigned. The bloodshed ended in the mid 1800's.

Today, swarms of tourists walk over the ground once defiled by the blood of innocent settlers located next to "La Belle Riviere" (the beautiful river).

Hardin County itself is filled with both historical and geographical mysteries.

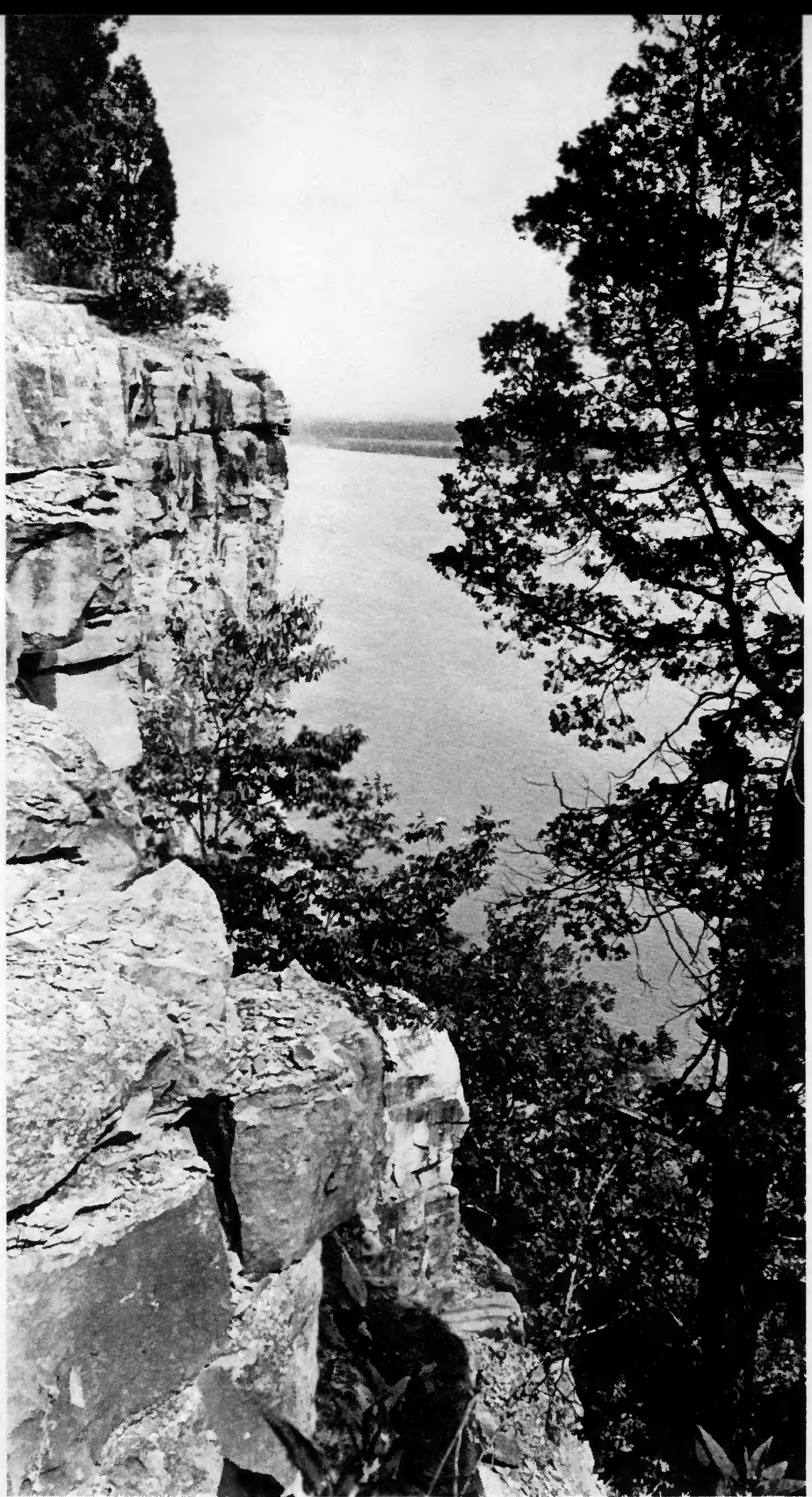
It is a land of disappearing lakes. These lakes, or sinkholes, are usually covered with water, but when the plug in the sink occasionally disintegrates, the lake drains and crops are then planted on the rich bottom

*(Continued on page 20)*

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# a land of pirates, beauty and history

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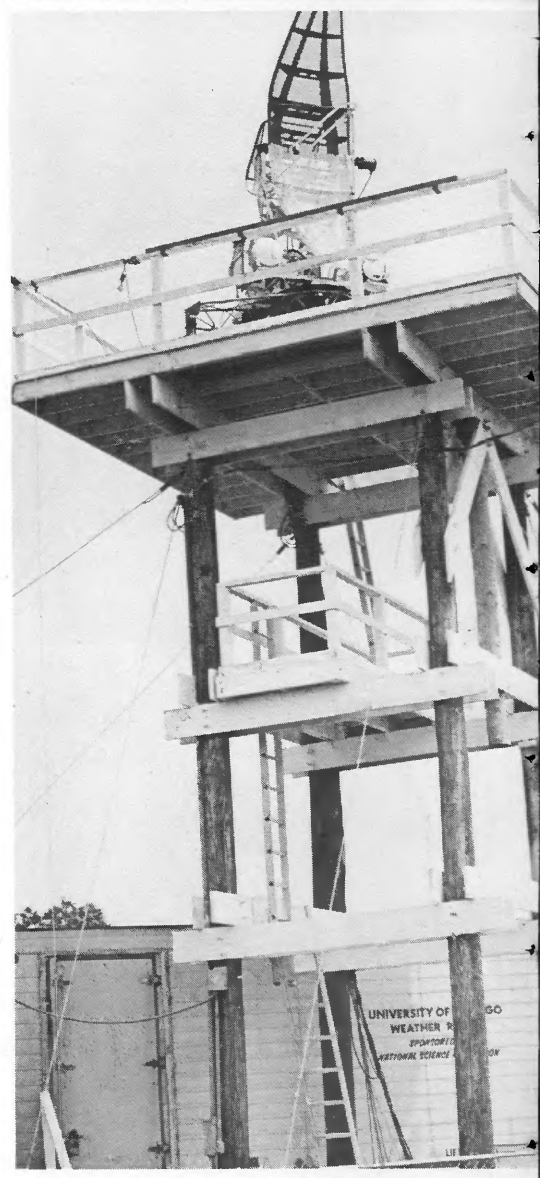
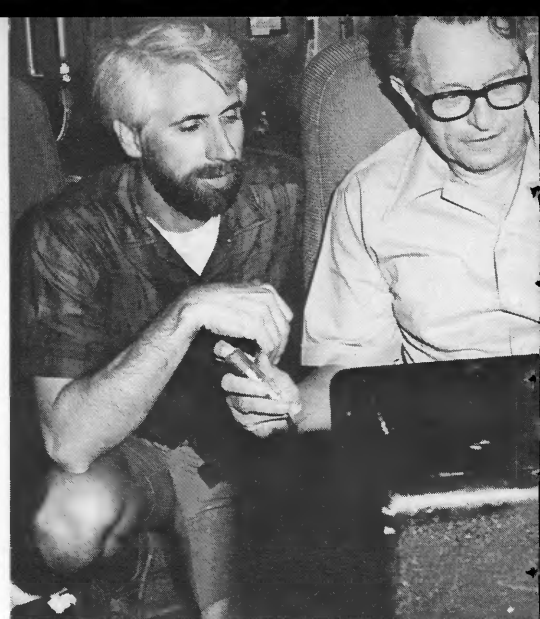
*TOP LEFT: The Rose Hotel, once the oldest operating hotel in Illinois, is located on the banks of the Ohio River at Elizabethtown. LEFT: Cave-in-Rock, which once housed bloodthirsty river pirates, is now located in a 60-acre state park where family picnics are held. ABOVE: Tower Rock, overlooking the Ohio River, is typical of the limestone and fossilized rock cliffs which abound throughout Hardin County.*





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**up in the air over**

LEFT: Nicholas Carrera, research associate, left, and Dr. Roscoe Braham check instruments before departing on their daily research flight. BELOW: The Metromex team uses radar to measure weather activity and track cloud build-ups.

**R**oscoe Braham wouldn't argue if someone said his head was up in the clouds. In fact, by his own estimate, his head has been there for three hours or more a day, six days a week for the past three summers.

Braham, actually Professor Braham, along with a research team of scientists and graduate students from the University of Chicago, is part of the Metropolitan Meteorological Experiment (Metromex).

Metromex is a pollution study group with St. Louis as the target area. Specifically, the group is interested in the effects a city can have on its own weather because of air pollution, heat released from home and industry and as a result of turning an area's natural vegetation into a concrete and steel wasteland.

Four separate institutions make up Metromex. Besides the University of Chicago, there is the University of Wyoming, the Illinois State Water Survey and Argonne National Laboratories. These organizations formed a working association to prevent duplication of research and to pool resources and equipment.

Headquartered at the Greenville Airport approximately 60 miles east of St. Louis, the team Professor Braham heads is interested in clouds and what those clouds contain.

The research requires a combination of cloud tracking and first-hand analysis. The scientists use radar and daily research flights to gather the data. Power for both the group's radar and the airport itself is provided by Southwestern Electric Co-operative, Inc., Greenville.

"We are looking at St. Louis'

weather not as an end, but as an insight into the weather of all cities," Braham said. "Hopefully, our findings will present a picture of what will affect cities environmentally in the future and the extent of this influence."

The group daily watches cloud formations then schedules a flight to the particular area of interest. For the scientists, if not the pilot, the worst weather is the best weather.

"By flying into the clouds, even into storms, we amass data and can examine the materials—gases, particulate matter and the atmosphere—which are conducive to the formation of clouds," Braham said. The plane is a specially-equipped Lockheed Lodestar instrumented for weather and cloud measurement.

Since Greenville is downwind of St. Louis, data is gathered and compared with that of another unit located in Pere Marquette State Park, upwind of the city. This comparison, taken over the five-year span of the project, will give the researchers adequate information to compile their report.

Although the information will not be fully analyzed until the experiment is completed, some conclusions already made show pollution from St. Louis causes marked changes in the numbers and sizes of rain droplets in clouds over and downwind from the city.

Other results show differences in the duration and location of summer rain, thunderstorms and hail. In fact, the amount of rain over St. Louis is increasing yearly.

"There is clearly a maximum of rainfall—and cities have more rain and hail storms than rural areas upwind of them do," Braham said. "For years, people in hail insurance have been saying there is a difference in the number of hail storms and perhaps there should be some difference in the insurance prices. We are finding out they were right.

"But these conditions are the results," Braham said. "What we are trying to determine is the cause of these weather anomalies."

According to Braham, scientists have known for years that the downtown areas in cities were warmer and that this affected the weather. The warmer conditions are partially created because the rain falls on concrete sidewalks and drains into gutters. This does not allow the rain to be soaked up, as it would be in rural areas. In rural areas the trees, plants and other vegetation produce a cooling effect.

"When you create a hot spot, as in the downtown area of a city, you set up an air pattern," Braham said. "The best way of describing it is that it is like boiling a tea kettle—you localize cloud formations just like you localize steam.

"Also, heat is liberated from the city by industry in the form of burning fossil fuels," Braham added. "This creates gaseous materials invisible to the naked eye. When combined with sunlight another element is produced, which when combined again with rain particules, forms a mild acid. This mild sulphuric acid is the particulate matter causing the haze, or smog, around cities."

The data from the project will be used in determining air quality regulations and legislation and, in the future, may be used in urban planning.

"We intend to give this information to society as a whole," Braham said. "Equipped with our data, it is up to society to solve the problem or determine what the solution is.

"We know we must use more fossil fuels, but how will this affect the atmosphere? We know hot spots are created and different rain patterns are the result. We know many things about a city's weather, and are learning more. But someday, the public will have our data. And it must decide on the path to take."

# POLLUTION

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*Irma and Peter McNulty*

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Music City-USA, better known as Nashville, Tennessee, was the recent site of the seventh annual Co-opmanship Conference, sponsored by the National Rural Electric Cooperative Association (NRECA).

Over 300 representatives from cooperatives across the nation attended the meeting. Illinois was well represented at the three-day conference by personnel from 10 cooperatives.

The theme of the conference—"Energy for the Future"—was carried over in the opening address by Robert D. Partridge, executive vice-president and general manager of NRECA.

"The present energy situation is like one of those 'Good News and Bad News' stories that are so popular today," Partridge said.

He said the "Bad News" is we are an energy intensive society and our use is accelerating, environmental demands are accelerating, new energy demands are on the increase and everyone's standard of living is getting higher and higher.

"In the same respect," Partridge noted, "hydrocarbons are going up in prices, especially in the area of petro-chemicals."

Partridge questioned the timetable for "Project Independence" and further clarified his doubt by saying, "I believe we can become independent, but it is very doubtful in the time projected—by 1980.

"It looks as though the only really abundant resource we have left is coal, but how long will it last?" Partridge questioned, "I've heard predictions from 200 years to 500 years."

He said coal is dirty and everyone admits it, but it is our ace-in-the-hole. "We'll have to use coal. We'll have to learn how to clean it up, because it is the only logical alternative, until we have time to develop other energy sources."

"On the 'Good News' side of the story," Partridge said, "we will be

shifting drastically to an electric economy."

Partridge emphasized with this shift, it will be time to develop our remaining feasible hydro-sites, to see if geothermal energy holds a key to production in the west, to push ahead with the development of fast breeder nuclear reactors and to see if solar energy has any practical commercial applications.

He said the era of cheap electricity in which we have been living for many years is now a thing of the past.

"Rates are going up simply because of the strain on resources in our society. Our present inflation is adding to this with higher costs of material, labor and services," Partridge noted.

Partridge said an electric cooperative's consumer-member needs to know what is happening. "We are caught in a push on costs and there is nothing we can do about it. We need to let our members know what is happening worldwide and let them get involved in cooperative problems."

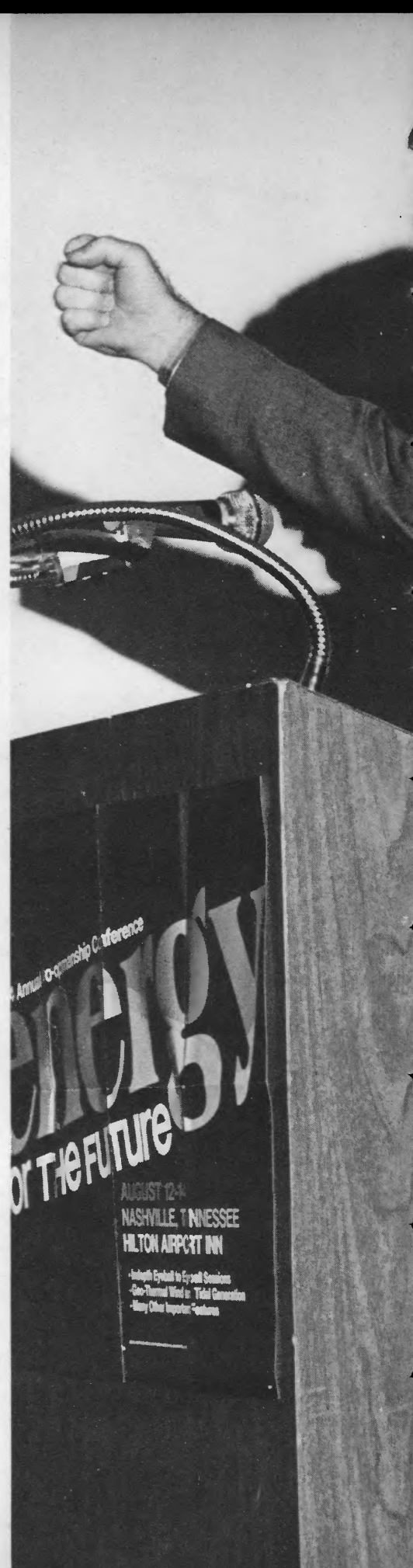
"Being a member of a cooperative is the best way to face any shortage," Partridge said, giving as an example last year's fertilizer shortage.

He said cooperatives were the only ones able to supply their members with fertilizer, because some of the larger fertilizer manufacturers saw higher profits in overseas markets.

Partridge's forecast for "time" being needed to develop "exotic energy sources" was echoed throughout the meeting by some of the nation's leading authorities.

Guest speakers Robert Reines, who lives in the world's first home that can be heated by the sun and electrified by the wind, and George Hamilton, president of Solar Energy Company in Washington, D.C., both agreed with Partridge's forecast.

They pointed out more work has



CO-OPMANSHIP CONFERENCE  
STRESSES

# energy for the future



to be done on solar energy conversion before it is economically feasible to put into commercial use.

Solar grain drying, however, is now a reality, according to Lawrence Green, manager of member services of the East River Power Co-op, Madison, South Dakota.

He and engineers from the University of South Dakota are now carrying out further tests to see if they can improve the already successful design.

Further developments of present western geothermal resources was called for by Edwin Schlender, an electrical engineer with the Raft River Rural Electric Co-op in Malta, Idaho. Taking exception with other presentations, nuclear physicist Ralph Lapp pointed out in his presentation that he feels, "the public's hopes for solar and geothermal energy are being built up to a point where there will be a great disappointment when the pay-off is but a trickle of the energy needed."

Lapp said the fast breeder nuclear reactor has the potential for making the United States independent from foreign energy sources for the generation of electricity.

Lapp concluded by saying, "during the last of this century the United States begins its transition from dependence on chemical energy to that of nuclear energy. Such a change in energy sources is certain to involve risks and difficulties, but our fossil fuel resources are finite and only bounded by our geographical frontiers. Man's technological frontier is bounded only by his daring and ingenuity."

Joseph Mullan, vice president of the National Coal Association, informed the cooperative personnel on the most recent developments in the coal industry.



Mullan said everyone is calling for higher production of coal, but no one is considering where the coal is going to be burned.

*"It appears that coal and uranium are indeed the two energy sources that will dominate the U.S. energy picture at the end of the century," Ralph Lapp, nuclear physicist, said as he emphatically concluded his presentation at the Co-opmanship Conference.*

"On January 1, 1975, over 50 percent of the coal being burned now by electric utilities will be illegal because of environmental laws," Mullan noted.

Overall, the conference gave those present a look at energy for the present as well as for the future, and an insight into what to expect as the United States tries to work out its energy problems.

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# HARDIN COUNTY

(Continued from page 10)

soil. The largest disappearing lake is the Big Sink which covers 400 acres.

Hardin County mines account for 50 percent of the fluorspar in the United States. Fluorspar is used in distillation of hydrofluoric acid, which in turn is used in the manufacturing of aerosols, refrigerants, teflon and etching glass.

The mineral comes from Hardin County rock formations, which geologists believe are older than those of the Rocky Mountains. An ancient volcano's plug may be seen near Spark's Hill.

To the southwest of this plug is the Illinois Iron Furnace. It was the first charcoal-fired iron furnace in Illinois and provided iron for settlers in the Mississippi Valley during the frontier days. During the Civil War, iron from this furnace was used by the naval gunboat builders at Mound City.

Among other significant historical sites in Hardin County is the Rose Hotel. This hotel was built in 1812 and was operated continuously until 1972. It was the oldest operating hotel in Illinois and is listed in the National Register of Historic Places.

In 1961, the Battery Rock locale north of Cave-in-Rock on the Ohio River, was used in recreating a bit of history. It was the site for one segment of the movie "How the West Was Won."

The area was also used in the filming of a Walt Disney television series. Many of the pirate adventures that occurred in the area have been used as plots for movies and stories about frontier life.

But these are only movies. They can never tell the real story of the area in its entirety. Though river pirates have been replaced by legends and flatboats by diesel-powered barges, an aura of mystery still surrounds historic sites in Hardin County.

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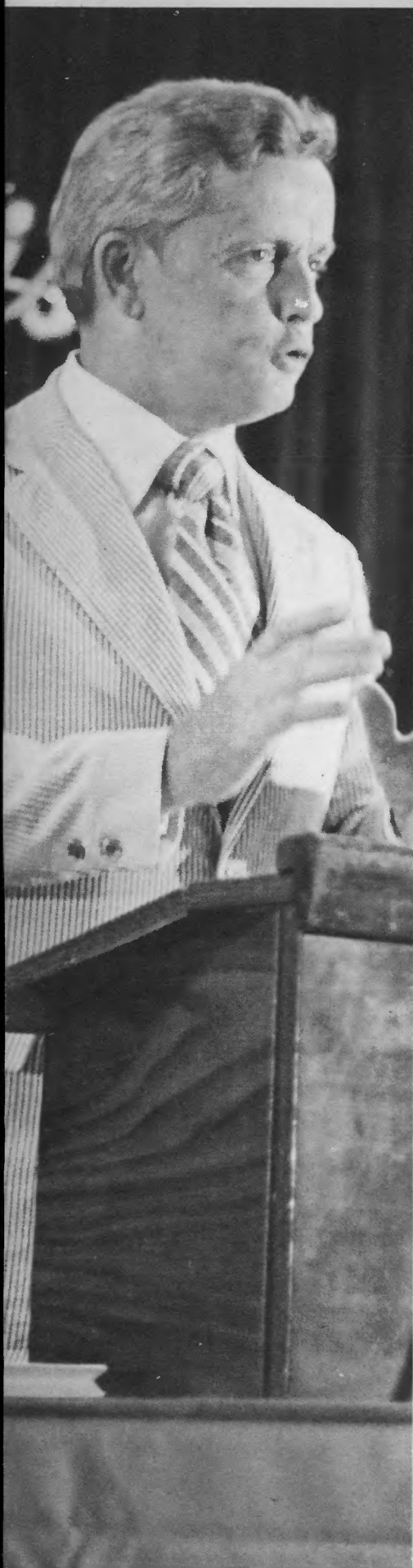
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*LEFT: Congressman Paul Findley addressed cooperative leaders on both the national and state issues affecting the rural areas. ABOVE, TOP: A highlight of the annual meeting was the 21st annual beauty pageant with nine lovely girls vying for the title of "Miss Illinois Electric Cooperative" for 1974. ABOVE, LEFT: For the ladies, there was a tour of the Governor's Mansion in Springfield. ABOVE RIGHT: New officers of the AIEC are, from left: A. Leo Goleman, president, of Divernon; Thomas H. Moore, executive vice president; Stanley Greathouse, vice president, of Johnsonville, and secretary-treasurer Edward C. Timpner of Pinckneyville. Goleman succeeds Robert Zook of Athens. RIGHT: A portion of the more than 500 cooperative leaders listen to reports given during a general session. FAR RIGHT: Nineteen-year-old Mary Carter of Potomac was chosen "Miss Illinois Electric Cooperative of 1974." She represents Eastern Illinois Power Cooperative, Paxton.*







As we review the 33rd annual meeting of the Association of Illinois Electric Cooperatives (AIEC), we find there were significant changes.

The AIEC has a new president. A. Leo Goleman of Divernon has succeeded Robert F. Zook of Athens. Another new statewide officer is Stanley Greathouse of Johnsonville.

Mary Carter of Potomac was crowned as the new "Miss Illinois Electric Cooperative" during the beauty pageant. She hopefully will follow in the footsteps of Kathy Harris of Fairfield who now holds the national title of "Miss Rural Electrification of 1974."

And there were speakers, both cooperative leaders and state and national leaders. Representative Paul Findley addressed himself to the issues in Congress. Richard Dell of the National Rural Electric Cooperative Association, and Dave Hamil, administrator of the Rural Electrification Administration, spoke on issues vital to the cooperative system.

It was an annual meeting where the idea of statewide generation for cooperatives was utmost in the minds of most directors.

It was a good annual meeting.



# Annual Meeting



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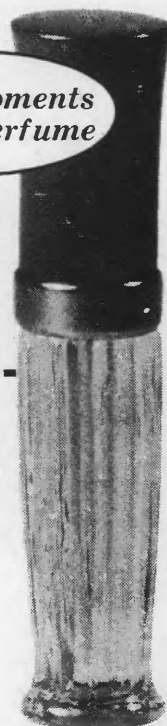
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### Deadly Weapons

While sitting in a bar a big bully got up and walked over to a short, small man and chopped him across the neck. While the little fellow was getting up off the floor the big guy said, "That's Karate, got it in Japan." Later, he returned and grabbed the small man again and threw him over his shoulder and said, "That's judo, got it in Japan." The little guy had had enough and left. He returned later, walked up behind the big guy and cracked him over the head and said, "That's crowbar, got it at Sears."

### Radio Waves

At Pensacola, Florida, Naval Air Command, the following dialogue took place between tower control and a student pilot who was having radio trouble: "Tower to Navy 248, if you read our transmission, rock your wings."

The student replied, "This is Navy 248, if you read me, rock the tower."

### Mistaken Identity

In the supermarket, the cart a young man was pushing contained a screaming, yelling, bellowing baby. The young man kept repeating softly, "Don't scream, Tommy; don't yell, Tommy; keep calm, Tommy."

A woman standing next to him said, "You certainly are to be commended for trying to soothe little Tommy."

"Lady," the young man replied wearily, "I'm Tommy."

### Customer Assistance

A fussy shopper had exhausted

every clerk in the yardage dept. As she pawed a length of satin, the manager asked, "Pardon me, madam, are you shopping here?"

"Certainly I'm shopping here. What did you think I was doing?" the woman replied.

"I just thought maybe you were taking inventory."

### Growing Up

A little boy was balancing himself on his head. An old woman who knew him came by.

"Aren't you too young to do that? You are only 6," she said.

"It's all right," replied the boy, "You see, I'm 9 when I'm upside down!"

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<input type="checkbox"/> IODINE RATION—Natural KELP TABLETS		<input type="checkbox"/> 100 for .39	<input type="checkbox"/> 500 for 1.39	<input type="checkbox"/> 1,000 for 2.49
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**I**t's not an easy decision to make.

In today's energy short and high fuel cost world, what kind of heating and cooling system should you have in that new home?

The building committee for the Apostolic Christian Church, located near Bloomington, made their decision three years ago—they chose a heat pump.

"I guess we were lucky to make the decision we did considering the current energy situation," Alden Nussbourn, a member of the building committee, explained in the midst of the recently completed church. "The price of propane and fuel oil today are out of the question and there is some question if we could have gotten enough fuel."

Although Nussbourn is familiar with heat pump systems, one of the reasons that the building committee decided on a heat pump was Joe Crosno, power use adviser for Corn Belt Electric Cooperative, Inc., Bloomington.

Since the church is served by the cooperative, Crosno offered his services free of charge—a service that is offered to all members of the cooperative. If a member is planning to build a new home, as soon as he get his blueprints, he usually gives Crosno a call for a heat loss survey.

Crosno is a believer in heat pumps. He has had a heat pump in his home since 1954. His monthly bill for heating and cooling a 1200 square foot house runs about \$17.00 a month.

For years, the heat pump has been the stepchild of the electric heating and cooling industry. But according to recent utility and industry studies, the heat pump is on the comeback trail.

The reason—efficiency.

Recent studies have shown that the heat pump can be up to 300 percent efficient, meaning it can distribute three times as much heat as potentially exists in the energy it consumes.

In year-around operation, using auxiliary electric-resistance heaters as boosters in very cold weather, the heat pump exceeds 200 percent ef-



# THE HEAT PUMP

has it  
finally  
come of age  
and will  
it do  
the job for Illinois?



efficiency of oil and gas furnaces and is more than twice as efficient as an electric furnace.

The heat pump attains this amazing efficiency by not using energy to generate heat. Instead, it extracts heat from the outside air and distributes it inside the house. The operation is actually identical to a central air conditioner in reverse. In fact, the heat pump is designed to be used as an air conditioner in the summer. The heat pump's only energy requirement is what is needed to operate the compressor and fan motors.

The heat pump has both an outdoor and indoor unit. In the winter, the outdoor coil is refrigerated until it is colder than the outside air. This happens when the refrigerant evaporates, absorbing heat as it changes from a liquid to a gas.

The refrigerant gas from the outdoor coil is then highly compressed. This makes the gas hot. The hot gas then circulates through the indoor coil. A fan blows across the coil, the hot coil heats the passing air and the heated air is distributed through the house. As the coil gives up its heat to the passing air, the gas cools and condenses back to a liquid state, ready to return to the outdoor coil. The unit reverses itself to cool the house in the summer.

Unfortunately, fuel cost is the only price advantage for the heat pump. The cost of the unit, its installation and maintenance is much higher compared to other heating systems.

However, fuel costs are certain to increase, and as they do, the heat pump will obviously gain an increasing economic advantage.

With today's fuel prices, many people are studying the possibility of converting their existing heating plants to different fuels and more efficient units. However, for many reasons the conversion market for heat pumps is limited.

A heat pump, to begin with, is a slow recovery system. It does not deliver high temperature heat. Instead, it depends on greater air volume through the ducts to maintain an even house temperature.

A home currently heated with a forced air furnace would probably need to have its entire duct system replaced with more and larger ducts to accommodate the increased air volume. In a multi-story home, it would be necessary to tear into the walls and ceilings to install ducts.

Another problem with existing homes is heat loss. In order for a heat pump to operate efficiently, heat loss in a house must be a maximum of 30 British Thermal Units per square foot. A poorly-installed heat

pump in a poorly-insulated house is not a money or energy-saver.

Whether in new construction or conversion in an existing home, the most important key to efficient and maintenance-free heat pump is its installation. The person who installs a heat pump must act as an electrician, a refrigeration expert, a plumber and be able to design a sophisticated and resistance-free duct system.

Experience has shown that most problems with heat pumps are a result of improper installation. Distributors of some of the nation's leading brands sell only to a few carefully selected dealers who they know have the expertise to install the unit.

By now, you may think the heat pump is more trouble than it is worth. Installation requires a specialist, conversion is difficult and costly and the unit itself is expensive. But these short-term troubles must be compared with the heat pump's long-term benefits of high efficiency and low operating cost.

In an era when people are concerned about the best and most efficient uses of energy, electric heat and the heat pump seem to have a secure future in Illinois.

And if you don't believe us, ask the members of the Apostolic Christian Church. They are believers in more ways than one.

ABOVE: The beautiful sanctuary of the Apostolic Christian Church. The church will be heated and cooled by one system—a heat pump. BELOW LEFT: Joe Crosno, power use adviser for Corn Belt Electric Cooperative, Bloomington, inspects one of the heat pump units on the church's roof. BELOW: Crosno explains the workings of the heat pump's fuse box to Alden Nussbaum, a member of the church's building committee.

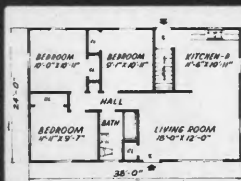


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# people in the news

JOSEPH F. HANSON, Illinois operations field representative for the Rural Electrification Administration (REA) since 1965, was recently selected to participate in the USDA's Executive Development Program.



Hanson

Hanson will study at the University of Maryland toward his master's degree in business administration.

While he is attending the University of Maryland, he will be assigned to the office of David H. Askegaard, acting deputy administration, REA, Washington, D.C.



Sisk

JESSE "ALLEN" SISK has

been selected by the board of Tri-County Electric Cooperative, Inc., Mt. Vernon, to replace H. G. Downey as manager.

Sisk was previously a district engineer for Southwestern Public Service Co., Carlsbad, New Mexico. He is a graduate of Kansas State University with a degree in Electrical Engineering.



Huffman

Huffman has been named assistant manager at Clay Electric Co-operative, Inc., Flora. Huffman was formerly power use adviser for Clinton County Electric Cooperative, Inc., Breese.

Huffman is a graduate of Southern Illinois University, Edwards-

ville, majoring in economics.

\* \* \*

JAMES C. BASS AND JAMES R. POTTORF have been named associate editors of the *Illinois Rural Electric News*.

Bass was the former assistant editor of the *Daily Republican Register*, Mt. Carmel. He majored in journalism at Southern Illinois University, Carbondale.

Pottorf was a former sportswriter for *The Daily Pantagraph*, Bloomington. He is a graduate of Bradley University, Peoria.



Bass



Pottorf

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- Kennedy's secretary Lincoln warned him not to go to Dallas
- Both their successors were named Johnson
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- Lyndon Johnson born 1908
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# GALENA

(continued from page 7)

erals, if least distinguished Presidents.

A Frenchman named LeSuer encountered Indians working crude lead mines in the area around 1700 during his river explorations. But it was not until 1820 the great push westward deposited pioneers in the Galena area. A small settlement named LaPoint was founded. Most of the residents worked the mines, but others established trading posts and small businesses.

By 1826, a town was laid out in lots. The population at the time was around 400 Indians, miners and traders. They named their town Galena, which means sulphide of lead. The city was built on steep terraces cut by the old course of the Galena River.

Six years later, during the Black Hawk War, the town became a fortified camp. A block house was built with a runway leading to an underground room in a log house. This refuge served as the only protection for Galena's citizenry and is part of the Old Stockade Museum today. But the Indians never attacked Ga-

lena. In fact, Black Hawk signed a treaty near Galena on what is now called "Council Hill."

The period 1845-1858 was a landmark era for Galena. The population of the city reached 15,000 and it was approaching its zenith as a commercial port. The government made Galena a Port of Entry and built a Customs House and a hospital for the rivermen. Several new businesses opened, including the famous DeSoto Hotel, where Lincoln once addressed the people and where Jenny Lind, the Swedish Nightingale, performed.

The Market House, the first courthouse, the old hotels and several impressive mansions, built on what is called Quality Hill, all hint at the town's impressive history. The prevailing architecture is a combination of New Orleans and Greek Revival.

Many other famous people had also visited Galena by this time. General LaFayette, Dolly Madison, Mrs. Alexander Hamilton, Martin Van Buren, Zachary Taylor and Joseph Smith, the Mormon leader, had all journeyed westward and stopped in Galena.

It was in April, 1860, however the man destined to be Galena's most famous resident arrived. Captain Ulysses Simpson Grant, a veteran of the Mexican War, disembarked from a St. Louis riverboat with his family and household goods on that date.

After purchasing a small brick home on the steep hills which surround Galena, Grant started work a few days later in his father's leather store as a clerk. He earned the princely sum of \$60 a year.

But these were troubled times. The



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Civil War was fast approaching. Grant formed the first company of Galena volunteers and offered his personal services to the Union Army. He failed to secure an appointment from the federal government.

Finally, he was given command of an Illinois regiment. As the story goes, when he left for Springfield, he went from his home alone, walking to the train depot carrying a satchel, "unnoted and unhonored."

Grant was something special, however. Though generally regarded as an inept businessman, he was a general who combined tactics with tenacity, courage with cleverness. His critics called him a common drunk and "Grant the Butcher," but he won battles and Union victories were at a premium in the early days of the war. Shiloh . . . Vicksburg . . . General of the Army . . . Appomattox and victory.

Galena was not ungrateful. He was honored upon his return with a newly-built home, parades and parties.

By the turn of the century, Galena was no longer as prosperous. The coming of the railroad and demise of the river trade, coupled with falling prices for lead and zinc, struck Galena in its prime. The population dropped to around 5,000 people.

Today, with its winding streets, picturesque memorials, historical spots and towering hills, Galena can best be described as "quaint."

Many of the historical buildings are open to the public, including the Downing House, Galena's oldest house; the Old Market House; Grant's Home, and the Galena Ga-

zette newspaper office.

For the antique hunters, Galena is always open. Over 20 gift shops and antique stores invite the tourist to browse and buy.

Recently, there have been efforts to dredge the Galena River so river traffic could resume on a small scale. Historical societies and public departments have also plotted out bike paths, started remodeling the Galena Opera House and are attempting to bolster tourist trade with new exhibits and new stores.

There are also special times when Galena comes alive as it was in its heyday. In May is the Civil War Cantonment. Highlights include a

re-enactment of a Civil War battle, a parade, military ball and competitions of cannon firing, pistol shooting and musketry.

In June, there are tours of several of the historic homes on Quality Hill, while October brings the Octoberfest. Other festivals, craft fairs and open houses dot the year's calendar.

But Galena is most at home when things are quiet. When the cool night breeze swirls through the hills, some say the spirits of history walk—Black Hawk plans his attack, the wealthy miners and merchants look out over the city from their mansions and Grant strolls the streets of his city.

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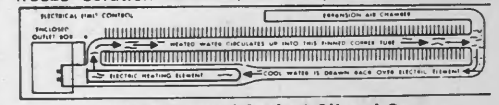
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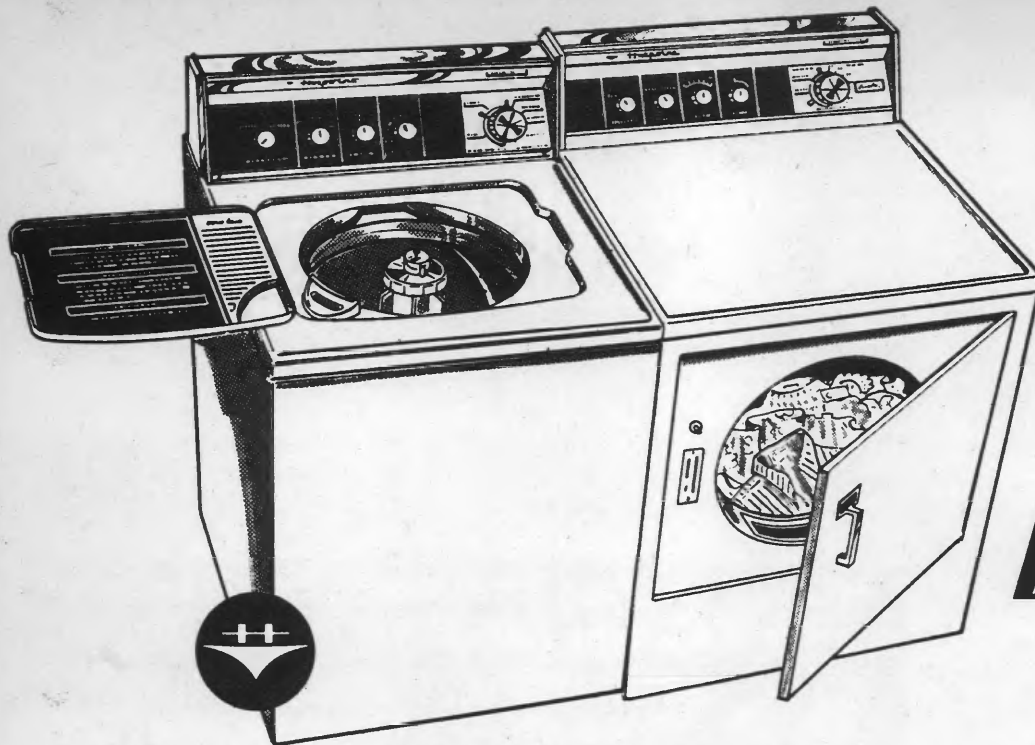
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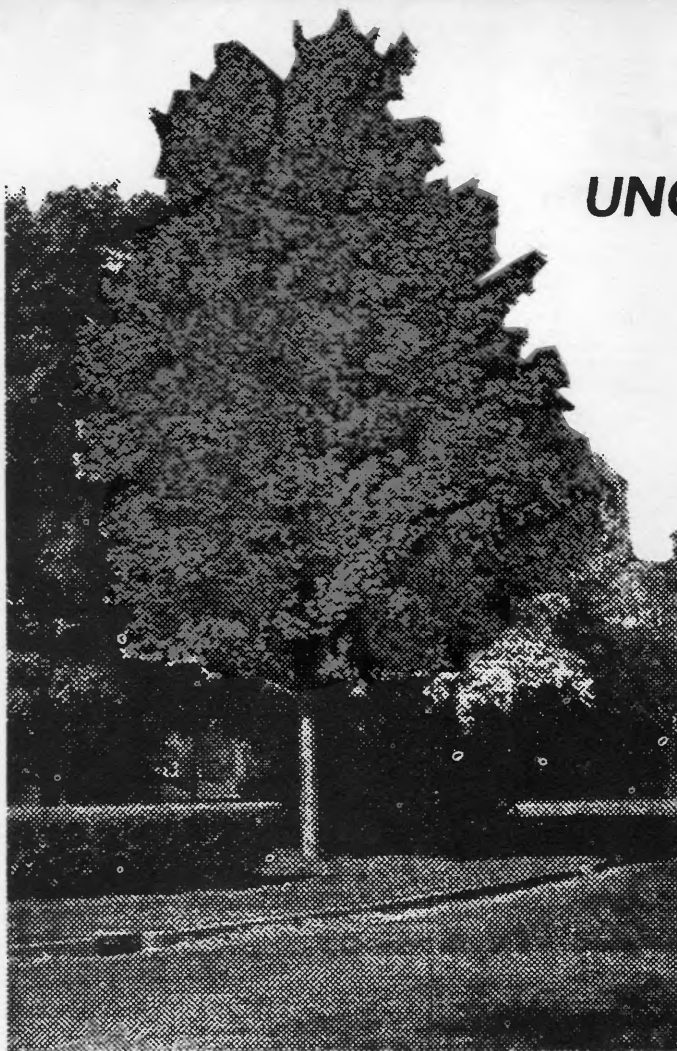
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# For the first days of fall--

## CIOPPINO & RICE

- 1 1/2 cups sliced onion
- 2 cloves garlic, minced
- 2 tablespoons olive oil
- 2 tablespoons butter or margarine
- 1 can (1 lb. 12 oz.) tomatoes
- 1 can (8 oz.) tomato sauce
- 1 cup dry white wine
- 1 cup water
- 2 tablespoons chopped parsley
- 1 1/2 teaspoons salt
- 1 1/2 teaspoons basil

Cook onion and garlic in olive oil and butter or margarine. Add tomatoes, tomato sauce, wine, water, parsley, salt, basil and oregano; cover and simmer to blend flavors, about 30 minutes. Cut fish into 1 to 1 1/2-inch chunks; add to tomato mixture. Cover and simmer about 20 minutes. Peel and devein shrimp, leaving tails on. Add shrimp and clams; cover and simmer until fish flakes easily, shrimp are tender and clams open. Serve in bowls over hot cooked rice. Makes 6 to 8 servings.

\*Red snapper, striped bass or cod may be substituted, if desired.

## CHILI WITH NOODLES

- 1 lb. ground beef
- 1 small onion, chopped
- 1 green pepper, chopped
- 1 teaspoon salt
- 1/2 teaspoon pepper
- 4 ozs. thin noodles
- 2 (1 lb.) cans kidney beans
- 1 teaspoon chili powder
- 1 15 oz. can tomato sauce
- 2 can water
- 6 slices American cheese

Brown ground beef in large, deep skillet. Add onion and green pepper, cook until tender. Cook noodles according to package directions. Drain, place over beef mixture. Drain kidney beans, place over noodles, making 3 layers. Add chili powder to tomato sauce and water. Pour over noodles. Cover and cook 30 minutes. Place cheese strips over top about 5 minutes before serving, cook until cheese melts. 6 servings.

## TASTY OVEN-COOKED CHICKEN

- 1 Chicken (fryer) cut up or 2 halves
- Salt and pepper
- 1/4 cup butter
- Juice of 1 lemon
- 1/4 cup finely chopped onion
- 1 bottle Italian dressing

Simmer butter, lemon juice and onion in saucepan. To this mixture add contents of bottle of Italian dressing. Place chicken in baking dish. Pour mixture over chicken. Cover with foil and bake in oven at 350 degrees for 45 minutes. Remove foil and let chicken brown—about 15 minutes.

## HAMBURGER-VEGETABLE SOUP

- 3/4 to 1 lb. hamburger meat
- 3/4 cup chopped onion
- 1 can (20 oz.) tomatoes
- 2 1/4 cups diced potatoes
- 1 cup diced carrots
- (I also use about 1/4 cup chopped green pepper)
- 1/2 cup chopped celery
- 1 1/2 quarts water
- 2 teaspoons salt
- 1/4 teaspoon black pepper
- 1 bay leaf (optional)

Brown ground beef and onions in 1 tablespoon drippings. Then combine with remaining ingredients. Simmer 1 hour. (Fresh tomatoes can be used rather than canned. More water may be needed.)

## CHILI SAUCE

- 1 gallon ripe tomatoes, chopped up
- 4 to 5 onions, ground
- 4 to 5 hot peppers ground with 4 or 5 sweet peppers
- 3 tablespoons salt
- 2 cups sugar
- 1 cup vinegar
- (tie mixed spices — beaten up — in a bag, drop in mixture)

Mix well and cook 3 hours at low temperature, stirring frequently to prevent sticking. Pour into sterilized jars and seal.

## DILL PICKLES

Wash and dry 1 peck of medium-size cucumbers. Pack into sterilized jars. Heat 7 pints water, 4 pints vinegar and 1 scant pint salt. Pour boiling liquid over cucumbers. Add a sprig of dill and 1 hot pepper to each quart jar and seal. Let remain sealed a few weeks before using.

## SWEET PICKLES

- 1 gallon cucumbers, sliced
- 8 onions, sliced
- 2 sweet peppers, sliced
- 1/2 cup salt
- Soak together 3 hours
- Boil together 5 cups vinegar
- 5 cups sugar
- 2 tablespoons mustard seed
- 2 teaspoons tumeric
- 1/2 teaspoon cloves

Drop in cucumbers, onions and peppers. Heat but do not boil. Pack into sterile jars and seal.

## 7-UP CAKE

- 1 1/2 cups butter
- 3 cups sugar
- 5 eggs
- 3 cups flour
- 2 tablespoons lemon extract
- 3/4 cups 7-Up

Cream sugar and butter together. Add eggs one at a time. Add flour. Beat in lemon extract and 7-Up. Pour into well greased and floured large mold. Bake at 325° for one and 1/4 hour.

## EGGPLANT SCALLOP

- 2 large onions, chopped
- 1 large eggplant, pared and cut into 1/4-inch cubes
- 4 tablespoons salad oil
- 1 lb. can whole kernel corn drained
- 1/2 cup shredded American cheese
- 1/4 cup chopped ripe olives
- 3 tomatoes, peeled and cubed
- 2 beaten eggs
- 1 1/2 teaspoons salt
- 1/2 teaspoon basil
- Pepper

Saute onion and eggplant cubes, half at a time, in oil until golden. Combine other ingredients and stir into onion and eggplant mixture. Spoon into 10-cup baking dish. Bake at 300 degrees for 1 hour.

## SAUERKRAUT SALAD

- 1 can shredded or chopped sauerkraut, rinsed and drained
- 1 small onion, minced
- 1/2 green pepper, minced
- 1 canned pimiento, minced
- 1/4 cup salad oil
- 1/2 cup sugar
- 1/2 cup vinegar
- 1/4 teaspoon garlic salt
- 1/4 teaspoon celery seed

Mix first 4 ingredients. Mix remaining ingredients and add.

## FUDGE PIE

- 1 cup sugar
- 2 level tablespoons flour
- 3 heaping tablespoons cocoa
- 1/2 cup milk
- 2 egg yolks
- 3 tablespoons melted butter
- 1 teaspoon vanilla
- 2 egg whites, beaten

Mix first 7 ingredients well. Fold in beaten egg whites. Pour into unbaked pie shell and cook at 350 degrees until firm.

## CHICKEN AND SPAGHETTI

- 3-to-4 lb. hen, cooked, boned and cut into large pieces
- Chicken broth, strained
- 1 pkg. spaghetti
- 1/2 lb. sharp cheese, grated
- 1/4 cup ripe olives, chopped
- 1 small can mushroom pieces, chopped
- 1/4 cup onion, chopped
- 3 tablespoons pimiento, chopped
- 1/4 cup green pepper, chopped
- Cayenne (optional)
- Salt to taste

(I like to add a few chopped water chestnuts or toasted chopped almonds for crunchiness). Cook spaghetti in broth until tender; do not drain. Add all ingredients to spaghetti; place in casserole. Bake covered at 350 degrees 30 minutes. Serves 8.

## CARROT SUPREME SALAD

- 2 lbs. carrots
- 1/2 cup sugar
- 1/2 cup vinegar
- 1/2 cup oil
- 1 onion
- 1 bell pepper
- 1 can tomato bisque

Scrape carrots, cook in salted water until tender. Set off and cool. Add to pepper and onion that have been sliced thin and layered in a dish. Cover this with hot sauce of vinegar, oil, sugar, and tomato bisque. Cool, cover, and put into refrigerator for 24 hours. Keeps good in refrigerator.

## SPICED PEACH SALAD

- 2 large cans peach halves
- 1/2 cup vinegar
- whole cloves
- 4 sticks cinnamon
- 2 tablespoons sugar
- 1 6-oz. pkg. (large) orange gelatin

Drain peach halves; reserve syrup. Arrange peach halves in a mold or place in a bowl. Combine peach syrup, vinegar, cloves, cinnamon and sugar; bring to boiling point and cook for 5 minutes. Strain, add enough boiling water to make 1 qt. liquid. Dissolve gelatin in hot spiced juice. Cool, pour over fruit. Chill until firm. Serves 12-16.

## CORN STUFFED PEPPERS

- 1/2 cup cooked corn
- 1 beaten egg
- 1/2 cup cooked tomatoes
- 1/2 cup breadcrumbs
- 1 medium chopped onion
- 1/2 lb. ground ham or beef
- 1/2 teaspoon salt
- pepper
- 1 tablespoon sugar
- 7 large green peppers

Combine all ingredients except peppers and mix well. Split peppers into halves, remove seeds. Place in shallow greased casserole. Fill each pepper half with meat mixture. Sprinkle with pepper. Bake at 350 degrees for 35 minutes. Cool. Seal casserole or wrap in foil. Freeze. To use, let thaw in refrigerator, warm at 350 degrees for 10 to 15 minutes. 14 servings.

## HARVEST TABLE APPLE PIE

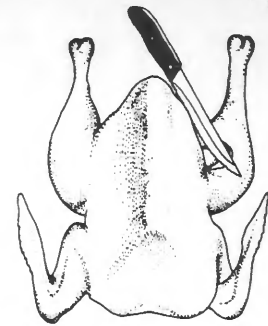
Prepare pastry for 2-crust 9" pie. Fill bottom shell with 6 medium apples, sliced. Combine 1 tablespoon cornstarch, 1 teaspoon cinnamon, 1/4 teaspoon salt, 3 tablespoons sugar, 3 tablespoons melted margarine and 1/3 cup white syrup. Pour over apples. Cover with top crust and bake at 425 degrees 45 minutes or until crust is browned and apples tender. Remove from oven. To top, mix 1/4 cup brown sugar, 2 tablespoons flour, 3 tablespoons white syrup, 2 tablespoons softened margarine and 1/4 cup chopped nuts. Spread over top of pie; return to oven for 10 minutes or until topping is bubbly. (Place pie pan on larger pan to catch topping that may run off.)



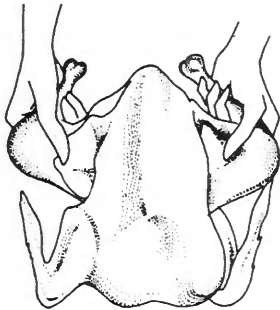
SAVE MONEY—

# Cut up a "whole" chicken

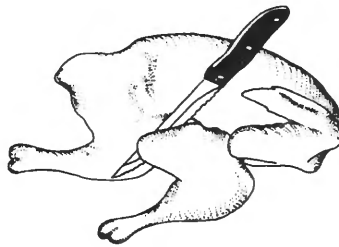
■ Chicken has always been a favorite. It tastes good and is economical. Now chicken has taken on a new value. It can help stretch the food supply because it only takes two pounds of feed to produce a pound of chicken. Who would have guessed a few years ago that Americans would consume over eight billion pounds of chicken a year? Each person ate 38 pounds of broiler-fryer last year. A broiler-fryer is about eight weeks old and weighs two to 3½ pounds, as you buy it in the grocery store. Buying a whole broiler-fryer will save you money every time. To cut up the bird the professional way, follow these easy step-by-step directions:



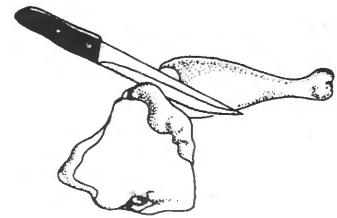
1. Begin by cutting off legs. Cut skin between thighs and body of chicken.



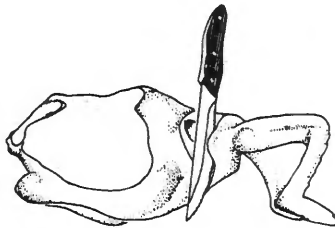
2. Lift chicken and bend back legs, grasping one leg with each hand. Bend legs until hip joints are loose.



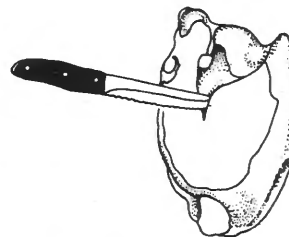
3. Remove leg from body by cutting from back to front as close as possible to the back bone.



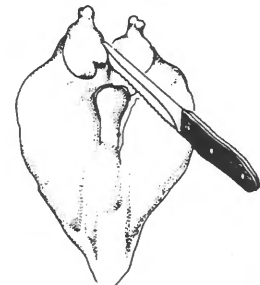
4. Then separate thigh and drumstick. Locate joint by squeezing between thigh and drumstick. Cut through joint.



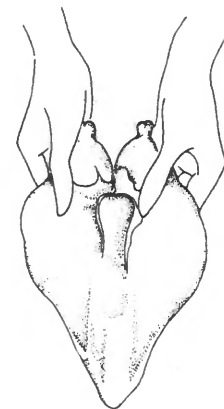
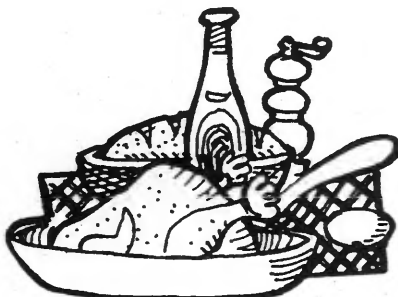
5. To remove wing from body, start cutting on inside of wing just over the joint. Cut down and around the joint. To make the wing lie flat, make a small cut on the inside of wing just over the joint. Cut down and around the joint. To make the wing lie flat, make a small cut on the inside of the large wing joint. Cut just deep enough to expose the bones. Repeat with wing on other side.



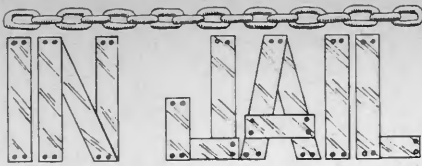
6. To cut the body into breast and back sections, place the chicken on neck end and cut from the tail along each side of back bone through rib joints to neck. Cut through the skin that attaches the neck-and-back strip to the breast. Place neck-and-back strip skin side up on cutting board. Cut into two pieces just above the spoon-shaped bones in the back. Another method is to separate the back from the breast by cutting between the breast ribs from the shoulder to the tail end. Bend the back away from breast to separate the shoulder joints.



7. Place breast skin side down on cutting board. Cut through white cartilage at the V of the neck.



8. Hold breast firmly with both hands and bend back both sides. Push up with fingers to snap out the breastbone. Cut breast in half lengthwise.



(continued from page 4)

torical publication, "The Schuylerites," is published. In the Heritage Room, a visitor can probably have his ancestry traced, if a relative once lived in Schuyler County.

On display in the jail building are various items relating directly or indirectly to the history of the county.

—Like the massive four-poster owned by the Provost Marshal of the area during the Civil War, complete with a mark where a bullet once grazed the bedpost. He wasn't the most popular provost marshal, especially with the families of deserters.

—Or two wedding gowns housed in a glass enclosed case. One was worn in 1888, the other in 1904.

There are also a flax breaker, sleds, broad axes, clocks, an antique cash register, the copper ball which once perched on the top of the old county courthouse and a variety of pictures and artifacts donated by Schuyler county natives.

The museum relies primarily on the donation of articles and money from visitors for survival, although there are mugs, the "Schuylerites," pictures and painted plates for sale. The museum is open Friday, Saturday and Sunday of each week from early spring to late fall.

The historical society hopes to expand the jail-museum-genealogical center in the future as more donations and artifacts are provided. It may require another building. After only six years, the jailhouse is be-

coming crowded again—and not with prisoners.

Given the accomplishments of the society in the past few years, don't bet the museum will never be more than it is today. Look what it was only yesterday.



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If you've ever searched frantically for a pen to write down an important phone number or message you'll know why Wade's new TELE-A-DIAL Pen Set sells on sight! It's such an attractive way to solve the problem. Praying Hands against sky blue and religious scripture in red and white make this both inspirational and practical, too. About 5½" long, with self-adhesive back that attaches easily and firmly to all phones or any flat surface. Ball point pen has dialer to save fingernails. *Lovely set sells for \$1.00—and your group makes 40¢ profit on each sale!* That's why it's so easy to fill out your treasury the Wade way—without risking a cent. We ship on credit. Send for details today.



• Approx. 5½" long

• Inspiring Praying Hands against sky blue

**sells on sight for \$1.00**

Your Profit Picture		You Pay Us	You Keep For Your Treasury
Your Group Orders	10 Members Each Sell	\$ 60	\$ 40
100	10 each	\$120	\$ 80
200	20 each	\$300	\$200
500	50 each	\$600	\$400
1000	100 each		

**Anna Elizabeth Wade** TDP  
 Dept. 692BT Lynchburg, Va. 24505  
 Please send FREE details on how to raise money with your Praying Hands TELE-A-DIAL pen sets. No obligation. No salesman or agent will call.

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Dig GINSENG and other Roots for extra money. Write for price list. Prompt payment. St. Louis Commission Co., Dept. 2, 4157 No. Kingshighway, St. Louis, Mo. 63115.

WANTED TO BUY: Ginseng, Golden Seal, May Apple, Serpentaria, Squaw Vine and others. Green Mountain Herbs, Box 2369, Boulder, Colorado 80302.

Stratified Ginseng seed, giant canadian origin. Wholesale prices \$38.00 per lb. \$8.00 thousand planting roots. 1 yr. old \$12.00 hundred, \$100.00 thousand, 2 yr. \$20.00 hundred, \$180.00 thousand, larger \$25.00 hundred. Fall delivery post paid-instructions free with order. Small acreage or woodland could become your goldfield, John Batz, Pittsfield, Illinois 62363

Wanted: Wild Ginseng, Golden Seal, May-apple, etc. Top market prices paid. Accurate weights, prompt return. Stratified Ginseng seed available for fall planting. Free growing information.

PULVERMACHER'S PRODUCE  
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Ozark Trencher Sales  
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DECALS, NAMEPLATES, Badges, Trucksigns. Hard-hat labels. All kinds. Seton Nameplate Corp. Dept. IR, New Haven, Conn. 06505.

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WANTED TO BUY—Old Dolls, Toys, Play Dishes, Children's Toy Furniture. Describe and price. Pat Huck, Route 1, Troy, Ill. 62294

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9341  
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9331  
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9125 WAIST  
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9238 SIZES 2-8



9040  
10½-20½



9314  
SIZES 34-50



9024  
SIZES 8-18



9166  
SIZES 10½-20½



9247  
SIZES 10½-18½



9041  
SIZES  
8-18



9256  
6-14

- No. 9060 is cut in sizes 8, 10, 12, 14, 16, 18. Yardage in pattern.
- No. 9341 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 1⅞ yards 60-inch fabric.
- No. 9331 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) takes 2¼ yards 60-inch.
- No. 9125 is cut in waist sizes 24, 25, 26½, 28, 30, 32. Size 26½ top style 1½ yards 45"; other 1⅞.
- No. 9238 is cut in sizes 2, 4, 6, 8. Size 6 takes 1⅜ yards 45-inch.
- No. 9040 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) takes 2⅝ yards 45-inch.
- No. 9314 is cut in sizes 34, 36, 38, 40, 42, 44, 46, 48, 50. Size 36 (bust 40) takes 2 yards 60-inch.
- No. 9024 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 2⅝ yards 45-inch fabric.
- No. 9166 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½. Size 14½ (bust 37) takes 2⅜ yards 54-inch.
- No. 9247 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) blouse 1¾ yards 45-inch; jacket 1⅞; pants 2¼ yards.
- No. 9041 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 2⅝ yards 45-inch fabric.
- No. 9256 is cut in Girls' sizes 6, 8, 10, 12, 14. See pattern for yardages.

# AMAZING MONEY-SAVING OFFERS

For Fall Planting

**FREE** No Extra Cost with our Feature Tulip Bulb offer for This 3-4 year old COLORADO BLUE SPRUCE

## TULIP BULBS

ORDER NOW—PAY LATER **42c DOZEN** (Min. 7 Doz. for only \$2.94)

Everyone who loves flowers is thrilled with the glorious color and graceful beauty of Tulips in bloom. And what better way to assure yourself of a gorgeous display right in your own garden than to plan ahead and place your order now at these low, money-saving prices. Tulip bulbs must be planted in the fall. They bloom in the spring and many years thereafter. No need to dig them up every year—just let them stay. You pay nothing, until delivered in time for fall planting. These are healthy, hardy, medium size planting stock bulbs averaging 2 1/4-3 inches circumference—yours at the low, low price of 42c dozen (min. 7 doz. only \$2.94—14 doz. only \$5.50). Given proper soil, care and with normal growing conditions they should develop into larger size bulbs the first year's planting. They come in a rainbow mix assortment of flaming colors, dazzling reds, white, orange, yellow, pinks, two-tones, dark shades, etc., as available. Many have already bloomed in the field this spring. Full planting directions included.

Nearly 15 million customers have purchased garden stock from us and we give the same guarantee as we have in the past—you must be satisfied with the many blooms the first season, the normal bloom the second season and 5 years thereafter or replacement free. So don't wait—place your order now and be assured of delivery in time for FALL planting.

You get a genuine 3 to 4 year old Colorado Blue Spruce free of extra cost with your tulip bulbs for fall planting. While planning your fall garden check the wonderful selections of other fall planting items in the coupon below and take advantage of the many money-saving combination offers.



### VALUABLE EVERGREEN BONUS JUST FOR ORDERING TULIP BULBS NOW

When your 7 dozen tulips arrive for fall planting, included will be our valuable gift of a 3-4 year old COLORADO BLUE SPRUCE (Picea Pungens). Magnificent as an evergreen lawn specimen. Nursery grown gift planting stock is already 6-12 inches tall, the desirable size for first transplanting. Hardy, survive cold winters. In extremely hot Southern climates, check for growth ability and if you so specify with your order, we will gladly substitute our equally valuable, shady MIMOSA TREE (Albizia Julibrissin) in 1-2 foot size, nursery grown from seed, never transplanted. Truly, it pays big dividends to reserve your fall planting tulip bulbs now.



**SEND NO MONEY** Just check your selections in the coupon and mail today. On delivery for planting this fall pay your postman plus C.O.D. postage. All bonuses to which you are entitled will be included in your order FREE of extra cost. If you don't feel that you have hit the bargain jackpot of the garden world simply return your order within 10 days for a refund of the purchase price. Be sure to read the BONUS COUPON below.

### MORE BARGAIN OFFERS FOR FALL PLANTING

#### IMPORTED HOLLAND PARROT TULIP BULBS

10 for \$1.98

Bloom with large, feathered flowers resembling a Parrot's head. Coloring is brilliant with red, yellow and tinge of green on each tulip. Our price for 9-10 cm. bulbs averaging 3 inches circumference is probably much less than you will pay for ordinary tulips. Check order on coupon.



20 for \$3.65



#### IMPORTED HOLLAND DUTCH HYACINTH 6 Bulbs for \$2.25

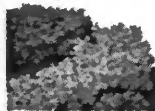
A great offering in fine Dutch Hyacinths, 14 to 15 cm. garden size (5 in. circumference). Very fragrant. Pink, yellow, blue, and white mix give lovely color contrast. Order now for fall delivery and save. Instructions included.

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Michigan Nursery Grown

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Spreads 12 inches in diameter when mature. Clusters of flowers in spring each bloom about an inch across. Lovely foliage carpets ground and stays green almost all year. Valuable for borders, boundaries, banks, bare spots. Healthy, hardy perennial plants one year old. Assorted colors as available. Check coupon and mail today.



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Planted this fall these Imported Holland 10 cm. bulbs grow into huge 8-12 inch lilac-purple flower heads next spring. These 2 ft. beauties are a garden rarity. Order today.

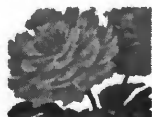
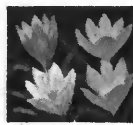


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#### IMPORTED HOLLAND CROCUS

20 Bulbs for \$1.98

Cheery goblet shaped flowers. Our mix of white, yellow, striped and blue are very colorful. Bulbs are 7-8 cm. (2 3/4-3 inch circumference). Check coupon. Order now.



#### PEONY SPECIAL 3 for \$3.45

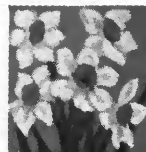
Hardy, lifetime peonies offer rare beauty with large, blooms on stems 2 to 3' tall. Bloom second growing season after planting and each spring without replanting. We ship 3 sturdy 2 to 3 eye planting stock root divisions at fall planting time for only \$3.45... 3 colors... one each of pink, white and red. Check coupon.

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(NARCISSUS—U.S. GROWN)

18 Bulbs \$1.99

Famed varieties of yellows, whites, pinks, two tones as available. 10-12 cm. blooming size bulbs... (ave. 4" circumference). Bloom early spring with enchanting colors. Mail coupon today.



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6 Imported Holland ALLIUM MOLY BULBS (5 cm.) that bloom with thick clusters of yellow flowers on stems up to 14" given free of extra cost if order is mailed by deadline date. Check this bonus in coupon and mail today.

### MICHIGAN BULB CO.

Dept. RG-1738, Grand Rapids, MI 49550

#### MAIL THIS MONEY SAVING ORDER COUPON

MICHIGAN BULB CO., DEPT. RG-1738 Grand Rapids, MI 49550

Please send me items checked below in plenty of time for regular fall planting. If I am not satisfied on arrival I may return within 10 days for purchase price refund. Any fall planted item not blooming, replacement is free (5 yr. limit).

Cat. No.	How Many	Item	Cost
168		Tulip Bulbs (Minimum order 7 dozen)	
157		Parrot Tulips (Min. 10)	
152		Dutch Hyacinths (Min. 6)	
309		Creeping Phlox (Min. 6)	
132		Giant Allium (Min. 3)	
166		Crocus Bulbs (Min. 20)	
118		Peony Special (Min. 3)	
161		Daffodils (Min. 18)	
	FREE	Colorado Blue Spruce With Tulip Order	.00
	FREE	6 Allium Moly—Order By Nov. 1st	.00
	FREE	6 Dutch Muscari Bulbs For \$4 Order	.00
	FREE	6 Dutch Muscari Bulbs Plus 6 Glory-Of-The-Snow For \$7 Order	.00
	FREE	6 Muscari, 6 Glory-Of-The-Snow Plus 25 Oxalis (Depei) For \$10 Order	.00

#### TOTAL THIS ORDER

Remittance Enclosed. Add 75c For Postage And Handling—We ship extra BONUS of 6 Flaming Allium .75

Send C.O.D. Plus Postage Charges

GRAND TOTAL

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

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

#### FREE OF EXTRA COST

In addition to all the other bonuses listed, if your order totals \$4.00 or more you will also receive bonuses as described below free of extra charge. Be sure to enclose coupon with order.

ORDER TOTALS \$4.00 or more. Send 6 DUTCH MUSCARI BULBS (6-7 cm.) that bloom in rich blue.

ORDER TOTALS \$7.00. In addition to 6 DUTCH MUSCARI, also send 6 Imported Holland GLORY-OF-THE-SNOW BULBS (4-5 cm.).

ORDERS TOTALING \$10.00 or more get MUSCARI, GLORY-OF-THE-SNOW Plus Imported Holland Garden of 25 Oxalis (Depei) BULBS with lovely floral container. Grow indoors or out to 3-6' heights. Our 3 cm. bulbs sell regularly 25 for \$2.10... your super bonus with \$10.00 orders.