



Illinois
R.E.N.
RURAL ELECTRIC NEWS
December, 1969

National News Notes

Power plants face problems causing serious delays

■ Technical difficulties and opposition of conservationists are delaying 46 of the nation's new power plants, equally divided between conventionally fueled and nuclear generating stations. This is the recent testimony by Federal Power Commission chairman John N. Nassikas before the Joint Committee on Atomic Energy.

Another witness, Atomic Energy Commission chairman Glenn T. Seaborg, cautioned that "unsubstantial fear-mongering" and "hysteria" are contributing to the possibility of widespread power failures in the future.

He maintained that such hysteria is unjustified. "The environmental problems associated with nuclear energy are manageable," he said. "With good planning and work we can have safe, clean and reliable nuclear power, as much of it as we will need."

But the FPC chairman, Mr. Nassikas, testified seriously, "We are in the midst, perhaps only on the threshold, of a rising tide of public opposition toward environmental acceptability of new electric facilities."

Additional plants are planned for Pacific Northwest

■ Meanwhile, Walter J. Hickel, interior secretary, has announced his department's approval of a \$1.4 billion long-range electric power plan for the Pacific Northwest that will involve public and private utilities and the Bonneville Power Administration.

Under this plan, public and private electric utilities will build seven large power generating plants. They are expected to provide the region with an additional 7-million kilowatts by 1980. The electric output from each of these proposed plants would be shared by a number of utilities, both public and private.

Two of the new plants will be coal-fired, including one now under construction near Centralia, Washington. Three will be nuclear plants and two will have as-yet-undetermined fuel sources.

Utilities seek rate increase

■ Public utilities throughout the nation are feeling the squeeze of rising costs. Senator Lee Metcalf of Montana has told Congress that during the first five months of 1969 electric, gas and telephone utilities sought rate increases totaling some \$1-billion.

Several increase requests did not indicate dollar amounts. Those that did sought increases amounting to \$961,160,530, Senator Metcalf said. Of that amount, \$317-million came from electric utility requests, \$175-million from gas utility requests and \$468-million from telephone utility requests.

The senator strongly urged congressional passage of a Utility Consumers' Counsel Act through which consumers would be represented by skilled specialists before commissions acting on rate increase requests. Some increases may be justified, he said. But legal representation for consumers in rate-making cases is essential to protect their interests.

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Service Is Their Goal

Merry Christmas, friends, and a very Happy New Year!

In this final REN issue of 1969 you'll find several articles stressing the true spirit of cooperation which, we think, is also closely akin to the true spirit of religion.

We've commented before on the spirit of helpfulness, of concern for the well-being of others, that is the hallmark of the cooperative spirit as we see it demonstrated again and again by our electric cooperatives throughout the state and nation.

IN THIS DECEMBER issue you'll find a report on how a young man has gone to Washington to serve as a page in the U. S. Senate at the invitation of Senator Charles H. Percy. You'll learn how this fine young man, whose parents are members of Corn Belt Electric Cooperative, first saw Washington as a Youth to Washington essay contest winner.

The contest in his area was sponsored by his home cooperative. And you'll learn how he goes to school daily at the Library of Congress, and how he works with this nation's senators as they tackle tough problems that affect the welfare not only of this nation but of the world.

You'll read how cooperative representatives from much of the United States gathered recently for a Co-opmanship Conference in Louisville, Kentucky, with service and community progress as its theme. These leaders, including several from Illinois, spent three days considering goals of their cooperatives and how these member-owned organizations can better help make their territories better places in which to live.

YOU'LL ALSO read of a new grain handling facility that has been created on the Illinois bank of the Mississippi River by the great Bunge Corp. of New York—and how the products of area farmers will be sent throughout much of the world. The new facilities receive electricity from Illinois Rural Electric Co. at Winchester, "a most cooperative cooperative," and Illinois is better for it.

You'll read, also, how a new anti-copper theft bill became law, in large measure through the efforts of electric cooperatives working together in the best interests of "All of Illinois."

Friends tell us this law probably could not have been passed and approved had it not been for the effective work of the electric cooperatives.

And of course you'll read of cooperative activities in connection with protection of the interests of millions of consumers in Illinois. Illinois electric cooperatives are playing active roles in the Illinois Federation of Consumers—because they're deeply concerned with the welfare of all people, not merely their own.

AND SO GOES the report of cooperative activities, of cooperative efforts to help themselves—and others.

We believe the more than half a million Illinois residents who depend on their member-owned cooperatives for electricity can justly take pride in their achievements during the past year, achievements that will benefit many millions more.

What will tomorrow—and next year—bring? Certainly no let-up in the drive to help themselves and others. Watch. Great things lie ahead.

OUR COVER—For children, typified by the child on this month's cover, Christmas may well be the happiest time of all, even though waiting for Santa may entail some anxious moments. For their parents, it is a time of excitement and shared pleasures. And for their grandparents it is a time of precious memories.

By Stephen J. Child

In Senate: Roger Tells It Like it Is

What are Congressmen really like? Are they indifferent, ill-informed, stupid, shirkers of responsibilities?

Not so, says 17-year-old Roger Schmidgall, a high school senior from Minier, near Bloomington. Roger is the son of Mr. and Mrs. Bruce Schmidgall, members of Corn Belt Electric Cooperative.

He is a page in the U. S. Senate. And he should know what Congressmen are like because he spends hours with them almost every day. He received a four-month page appointment from U. S. Senator Charles H. Percy in August.

He attributes his appointment directly to his participation in the 1968 Electric Cooperative Essay contest and the subsequent Youth to Washington tour.

"THE TOUR in June, 1968, was my first visit to our nation's capital . . . in fact it was the first time I had been further east than the border of Illinois," he told Illinois Rural Electric News recently. "I had no idea I would be working here, let alone going to school here!

"I had been interested in the federal government before the tour and had always wanted to visit Washington. The tour gave me the opportunity to see more in one week than I would have seen in a month on my own. The tour also awakened my interest in becoming a page. I wrote Senator Percy seeking an appointment shortly after returning home."

Roger was selected from among more than 100 young men from around the state. He has an outstanding record as a student at Stanford Minier High School. He is a member of the National Honor Society and was designated Outstanding Sophomore of the Year. He served as editor of the school newspaper and as assistant business manager of the high school year book.

In addition to his responsibilities as a page, he carries a full work load of high school courses. He goes to school on the third floor of the Library of Congress from 6:30 a.m. to 9:45 a.m. each day. He lives in a dormitory provided for pages.

ROGER'S OBSERVATIONS of our nation's principal scene of government can serve as a renewal of faith at a time when the very foundations of the nation are being shaken by problems of all kinds.

We asked Roger a number of questions which drew some thoughtful and interesting replies.

The most amazing quality of most Senators, Roger said, is their "vast knowledge" of a "broad spectrum of subjects."

"Although each Senator has his personal specialties, he must be informed on every subject before the Senate," Roger pointed out. "During debates Senators often have an aide at their side, but the average Senator is very capable of defending his position himself. The rapidity and logic of their extemporaneous retorts and refutations never ceases to amaze me."

WE QUERIED Roger on the disposition and attitude of congressmen.

"I have found most Senators to be amiable, congenial persons," he said. "When asking a favor of us they are almost always very courteous and pleasant. Once in a while when he is extremely rushed, a Senator may become a little 'curt' or impatient. They are rare exceptions.

"I believe every Senator is very conscientious about his work. He has to make many important decisions and often works very late.

"I think Illinoisans can be very proud to be represented by Senator Percy and our new Senator Ralph Smith. They conduct themselves very respectably on the Senate floor.

"I have certainly enjoyed my work and know that I will continue to do so," he said. "I didn't know anything about the job but I did have an avid interest in the legislative branch of government. In fact pages spend more time on the floor of the Congress than do most Congressmen.

"I had planned a teaching career. This experience has brought several other careers under consideration . . . including political science teacher. There are also several political jobs here in Washington which appeal to me . . . particularly the Senate clerks. As of now, however, I am undecided about the future."

WE ASKED ROGER what the "typical" Senator is like.

"I wouldn't call any individual Senator 'typical'" he replied. "Each has his own characteristics.

"Senators are first and foremost . . . busy! They actually spend very little time in the Senate chamber. When one long bell sounds (indicating a recorded vote) he appears in the chamber, finds out what the vote concerns and votes accordingly. In a couple of minutes he is on his way back to his committee meeting, a patiently-waiting constituent or some other pressing matter."

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ILLINOIS RURAL ELECTRIC NEWS



Roger Schmidgall, left, with Senator Charles H. Percy in Washington.

Co-ops Help Copper Bill Become Law



Among strong supporters of anti-copper theft legislation, with AIEC General Manager Thomas H. Moore, are, from left, Representative Leslie N. Jones, Flora; Raymond E. Anderson, Galesburg, and James D. Holloway, Sparta.



Albert J. Cross, standing, with Senator Edward McBroom, Kankakee, left and Senator James H. Donnewald, Breese. Senator McBroom was chief sponsor of the copper bill in the Senate. Senator Donnewald was one of those providing important support for the cooperative-sponsored legislation.

With Illinois electric cooperatives rendering yeoman service, a dedicated group of state legislators has achieved enactment of a far-reaching bill designed to drastically reduce copper thefts that in recent years have reached almost epidemic proportions.

Thomas H. Moore, general manager of the Association of Illinois Electric Cooperatives, had words of praise for concerned legislators and for Governor Richard B. Ogilvie who signed the measure into law.

Virtually every electric cooperative in Illinois has been increasingly plagued by copper thieves, some of them apparently working on a well-organized basis, he said. Some cooperatives have suffered losses totaling many thousands of dollars.

THE NEW MEASURE is known as the "Copper Purchase Registration Law." It will serve as a deterrent in preventing the theft of copper wire and other copper facilities and will aid in the apprehension of copper thieves.

Under its terms, every copper dealer in the state will report and maintain a record (with certain exceptions) of every purchase of 50 pounds or more of copper. This report will be available to law enforcement officers. It will include the name of the seller, a description of the copper purchased, and other information.

Any copper dealer knowingly failing to comply with the act will be guilty of a misdemeanor. Punishment may be a fine of not less than \$250 nor more than \$1,000 or imprisonment for not more than six months, or both.

ALBERT J. CROSS, AIEC director of legal and public affairs, pointed out that the copper bill, introduced at the request of the electric cooperatives, received widespread support from such groups as the Illinois Power Company, the Illinois Association of Railroads, the Illinois Department of Public Safety, the Illinois Sheriffs Association and the Illinois Municipal Utilities Association.

"This is a good example of how electric cooperatives can and do work effectively with other interested

(Continued on page 9)

Co-ops Helping Rural

By John F. Temple



H. ZANE ROBBINS

What lies ahead for this nation's nearly 1,000 electric cooperatives that serve an estimated 25 million persons in 46 of the 50 states?

What can cooperatives do to help solve their increasingly pressing problems and help make their territories—and the nation—a better place in which to live?

These were some of the problems considered recently by perhaps 300 representatives from several states meeting in Louisville, Kentucky, for the second annual Co-opmanship Conference.

THE CONSENSUS of some of the leading authorities in the electric cooperative field was that SERVICE is the key answer.

Simple? Yes, simple to say. But not simple to put into effective practice. But it was obvious from talking with cooperative managers and key personnel attending the three-day conference that intensified efforts in this direction are being undertaken and will be carried to success.

DAVID A. HAMIL, administrator of the Rural Electrification Administration (REA), for instance, stressed past cooperative achievements, then concentrated on challenges of the future.

"Thus far," he said of the cooperatives, "you have done your job well.

"Of better than \$7 billion in REA funds loaned, less than one-thousandth of one per cent has been chalked off as a loss. You have repaid \$1.7 billion in principal, \$1 billion in interest and \$347 million in payments made ahead of schedule."

So, the administrator said, cooperatives have achieved one part of their mission: the bringing of power to the nation's rural areas.

BUT ANOTHER major mission remains, Mr. Hamil emphasized. That is "to develop the resources and ability of rural electric systems so that they can meet their needs, handle their own affairs effectively and achieve, as soon as possible, the internal strength and soundness to assure their success as independent en-

terprises."

Service . . . to members . . . and to the community? Mr. Hamil said cooperatives and cooperative people have the facilities and the talent to render priceless service, to achieve the goal of building better, more prosperous, more satisfying areas in which to live.

They can, should, and are becoming, more and more, outstanding leaders for the betterment of their communities. And everyone benefits.

A TOP-FLIGHT public relations specialist in a major address urged electric cooperative representatives to intensify efforts to upgrade their territories. This, he said, is essential if destructive deterioration of urban areas is to be halted.

The specialist is H. Zane Robbins, vice president and general manager of Burson-Marsteller, Chicago.

"The new generation," he said, "is unwilling to accept the sorry fact of 32 million persons—two-thirds of them white, more than half of them living outside our cities—subsisting below the poverty line and 20 million more living just a notch above it.

"Today, more than 30 years after Roosevelt first pronounced his stinging indictment of our depression-ridden economy, we still have 'one-third of a nation ill-housed, ill-clad, ill-nourished.'"

Mr. Robbins asserted that increasing numbers of discerning business leaders are recognizing the wisdom of Franklin Roosevelt's observation of a generation ago: "We have always known that heedless self-interest was bad morals; we know now that it is bad economics."

THE PUBLIC RELATIONS executive suggested that electric cooperatives might well play a greater role in solving the growing problems of the nation's cities.

"These cooperatives already are making their influence felt in government and business circles," he said, "but perhaps there is more that can be done.

"After all, rural America has a vested interest in helping ease the pain of poverty and relieve the agony of our cities."

Areas Forge Ahead

Mr. Robbins pointed out that while much attention has been focused on urban ghettos, statistics show that fewer than half of the American poor live in cities.

"They are still to be found on our farms, in our villages and in our small towns, forming a demographic pattern and existing in a way of life not much different from that of a generation ago," he said.

They face special problems.

"THE RURAL POOR," Mr. Robbins insisted, "are too dispersed to form a viable political force . . . too remote from industry to find gainful employment . . . too expensive despite their poverty to fit into the modern agricultural economy—and often too few in any one location to form an effective scoop for the kind of government largesse that pours through welfare channels to the urban poor."

Mr. Robbins agreed with many electric cooperative leaders, and with Illinois Director of Agriculture John W. Lewis who have said that rural areas must achieve industrial development in order to improve their own areas and attract urban residents, thus easing many urban problems.

(A spokesman for the Farmers Home Administration said recently at Champaign that poverty, defined as a family income of under \$3,000 annually, is a serious problem in rural Illinois. It extends from the southern tip to the northern boundaries. Substantial progress toward its solution can and should be made, he said. And recognition of its existence is an essential requirement.)

ROBERT D. PARTRIDGE, general manager of the National Rural Electric Cooperative Association, told the Co-opmanship Conference that "The Future of the rural community and the future of the cooperatives are intertwined so closely and so completely that working for one is the same as working for the other."

He said that while it is important to provide good service to cooperative members and to operate ef-

ficiently, this is not enough. "We've got to build our communities for a better future," he said. "That's the essence of co-opmanship."

The need for improvement of rural areas is imperative—and electric cooperatives can well play leading roles in achieving this goal, he said.

"Out along the lines of the rural electric cooperatives," he continued, "46 per cent of the homes do not have central heating systems. That's about 2,300,000 homes without furnaces. About 954,000 homes—nearly one-fifth—do not have bathrooms. About 12 per cent still don't have running water.

"Nearly 30,000 rural communities are without adequate water systems. About 45,000 are without sewer systems.

"Is it any wonder that our young people move away?"

And so, Mr. Partridge said, the challenge to electric cooperatives interested in helping build their areas is tremendous.

DONALD K. ATKINS, area development manager for Western Illinois Power Cooperative, Inc., of Jacksonville, reported to the conference on how WIPCO is helping attract industry to the broad WIPCO area and otherwise help improve its 19-county territory.

He predicted great progress, despite difficulties.

"Small rural communities, because of their size, are under-financed," he said. "In our present economy, because there is a lack of available funds, large metropolitan banks consider a rural development a greater risk than would be the financial investment in a building and land to accommodate an industry in the St. Louis or Chicago area."

Mr. Atkins reported details of development activities undertaken on behalf of WIPCO and its member distribution cooperatives. He said he and others are working "as catalysts between our communities and the various government and private agencies and between our communities and industrial prospects."



ROBERT D. PARTRIDGE

Consumers: Can They Achieve Progress?

Illinois' more than ten million consumers—and that includes everyone—can and should do something about steadily growing consumer problems: prices, quality of products, service, conservation and pollution, to name only a few. If they don't, who will?

This was the consensus of speakers and others attending the recent annual meeting of the Illinois Federation of Consumers in Chicago.

THOMAS H. MOORE, general manager of the Association of Illinois Electric Cooperatives and retiring president of the consumers' organization, told the group:

"I believe very strongly that this organization can be a funnel through which the efforts of organizations and individuals who are its members throughout the state can become a most effective, strong and dynamic force.

"And because Illinois is one of the leading states of the nation, because its residents are vigorous and highly capable, because its congressional delegation is strong and able, we can accomplish much for our consumers on a national level.

MR. MOORE cautioned that individual consumers and organizations, working alone, can accomplish relatively little.

"We've got to join forces through some common organization," he said. "And IFC is that organization. If we don't take full advantage of this organization we lose a splendid opportunity for useful service.

"This is one of those important organizations in which you simply can't sit back and assume someone else will do the work . . . because someone else is not going to do it. We must do it for ourselves."

THE AIEC general manager said he believes "very strongly in our national government, in our national Congress and in our state government."

But, he cautioned, that government can function effectively in the interest of its people—consumers in



Among current Illinois Federation of Consumers leaders are, from left, Mrs. Helen Nelson, executive vice president; the Rev. Kenneth Smith, treasurer, and Mrs. Eve Galanter, president. Other officers: are Robert G. Gibson, vice president, and Stanley Rosen, secretary.

this instance—only if "we as individual citizens make our wants known."

MRS. EVE GALANTER, newly elected IFC president, obviously agreed with this concept. In brief remarks after her election she lauded the organization for its accomplishments during the past year. She said that, building on this foundation and on earlier efforts, IFC can make its influence increasingly felt on behalf of consumers and their problems. But, she added, this will take widespread support. She predicted such support will be forthcoming.

Mrs. Galanter, a Chicago housewife, is chairman of the consumer information committee of the Hyde Park Cooperative Society. She has a deep interest in and concern for consumer problems and has worked long and effectively in this area.

Mr. Moore was not a candidate to succeed himself as IFC president. Other officers, all re-elected, are Robert G. Gibson, Chicago, vice president; Stanley Rosen, Chicago, secretary, and the Rev. Kenneth Smith, Chicago, treasurer.

Mr. Gibson, an outstanding labor leader, is secretary-treasurer, Illinois State AFL-CIO. Mr. Rosen is assistant professor of labor and industrial relations, University of Illinois Extension. The Rev. Mr. Smith is pastor of the Church of the Good Shepherd.

CHARLES W. WITT of Carlinville, manager of M.J.M. Electric

Cooperative, was re-elected a director of IFC. James L. Leming of Mattoon, public affairs representative for Coles-Moultrie Electric Cooperative, was elected as his alternate for a three-year term ending in 1972.

Mr. Moore is also a member of the IFC board of directors with Albert J. Cross, AIEC director of Legal and Public Affairs, as his alternate.

MRS. ERMA ANGEVINE of Washington, executive director of Consumer Federation of America, also was optimistic about the future of IFC. She also was insistent that substantial progress will require united efforts and hard work.

The national consumers group now has 140 member organizations in 37 states and the District of Columbia, she said. Together they have millions of members.

CFA, on a broad basis, does two things. First it coordinates efforts of consumers and consumer-oriented organizations to enact legislation that will protect and promote consumer interests.

It helps develop legislation. It provides information essential to creation of good legislation. And it helps keep its members informed on matters of vital concern to them.

Second, CFA speaks for consumers—to Congress, to the President and the executive departments, and

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Co-ops Help Copper Bill Become Law

(Continued from page 5)

groups with mutual problems to multiply their influence and achieve important goals," Mr. Cross said.

"If the electric cooperatives had not been able to work so effectively one with the other this legislation could not have been enacted in the foreseeable future." As things stand now, the cooperatives, other utilities, and a very wide segment of the Illinois population will benefit from this new law."

THE MEASURE was introduced in the house by Leslie N. Jones of Flora, chief sponsor, with the warm cooperation of James D. Holloway of Sparta. Both are long-time friends of the cooperatives.

Other sponsors include Representatives Harold D. Stedelin, Centralia; Ben C. Blades, Fairfield; Garrel Burgoon, Lawrenceville; William D. (Bill) Cox, Charleston; James R. Washburn, Morris; James T. Londrigan, Springfield; Sam M. Vadala-bene, Edwardsville; Don Barry, Raymond; Jerry Corbett, Hardin; Lester Cunningham, Belvidere; Ben C. Harpstrite, New Baden, and Carl T. Hunsicker, Pontiac.

Chief sponsor of the measure in the Senate was Edward McBroom of Kankakee, with James H. Donnewald of Breese providing major assistance, along with Senators John G. Gilbert of Carbondale, Walter P. Hoffelder and Cecil A. Partee, both of Chicago. Lieutenant Governor Paul Simon also announced his strong support of the legislation.

ONE FACTOR in rising copper thefts is that copper prices have gone up sharply. Copper is an item greatly in demand. It has been readily disposable. And diligent law enforcement officers have had a hard time tracing thefts.

"This has been a most serious problem," Mr. Cross said. "It has been getting worse. This trend will continue unless legislation such as that sponsored by the electric cooperatives becomes really effective. We believe it will be."

The AIEC legal specialist said that cooperatives and other interested concerns in several states already have expressed interest in obtaining similar legislation for their areas.

Cooperative leaders are gratified with this. It could mean that copper stolen in Illinois would be more dif-

ficult to dispose of in adjoining states.

Widespread thefts have been a definite factor in the rising costs of numerous cooperatives, already struggling to maintain low electric rates.

And cooperative representatives were somewhat startled to learn how strongly other groups desired this legislation.

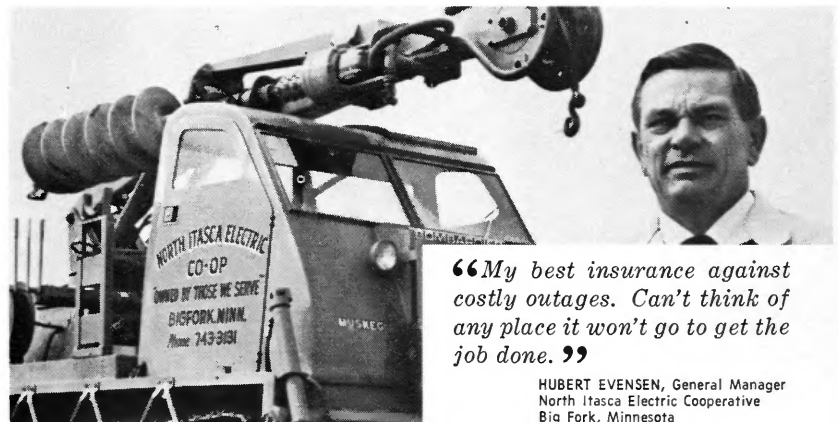
One railroad executive told Mr. Cross: "We were being robbed blind. Thank God someone decided to do something about needed legislation."

Another cooperative leader pointed out that not only is the theft of valuable copper and copper products involved. Costs of replacing these items have skyrocketed.

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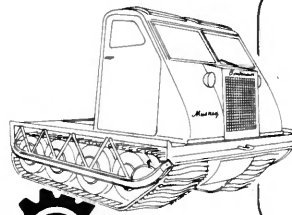
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Co-op Welcomes Bunge Corp. to Its Area

Acquisition of a new major power user in an electric cooperative area can mean a great deal more than a boost in consumption of electricity and increased operating efficiency across the board.

Such is the opinion of S. R. Faris, manager of Illinois Rural Electric Co., at Winchester (Scott county).

"Widespread additional benefit can be reaped when a large indus-



Donald Vincent of Illinois Rural Electric Co., gazes across the Mississippi River at East Hannibal, Illinois, toward the cooperative's newest power user, the Bunge Corp. The huge size of the grain handling facility can be appreciated by the fact that a tiny white dot between the bases of two bins is a 5-ton truck.

trial facility moves in," Mr. Faris said.

Illinois Rural's new power user is a terminal for one of the world's largest exporters and importers of farm commodities. It consists of a 2 million bushel grain handling and storage depot for the Bunge Corp. at East Hannibal, Illinois, on the Mississippi River.

"WE WELCOME the Bunge Corp., because of the opportunity to furnish the power," Mr. Faris said,

"but we are even more enthusiastic about the economic boost that should develop in allied businesses such as feed and manufacturing processing.

"Our farm operators, too, will welcome the easier and faster handling of grain and other farm commodities from such a facility.

Tony Grelle, of Bunge Corp. said the new plant will be able to handle 30,000 bushels per hour in and out of the huge storage facilities. Three huge bins, each capable of holding more than 700,000 bushels of grain are aerated continually to provide almost perfect moisture control.

A GRAIN DRYING unit can reduce moisture at the rate of 4,000 bushels per hour. The scientific controls, Mr. Grelle pointed out, are designed to reduce air pollution and give Illinois grain farmers the best financial breaks in shipping grains.

The Bunge Corp., whose headquarters are in New York, assembles grain and other commodities from interior origins and ships them by rail, barge or truck to seaboard elevators on the Gulf, East Coast and West Coast and on the Great Lakes where they are unloaded at export elevators and loaded aboard ocean freighters for world markets.

The grain export business is governed by the availability and price of different grains in different territories and by transportation and handling costs.

ONE OF THE MOST vital aspects of the export business is the scheduling of commodity shipments from the appropriate American port to foreign markets.

Trained shipping experts know where virtually every ocean freighter in the world is at a given moment. They also know the type cargo it carries, how long it will take to unload that cargo, how quickly the vessel can be cleaned to make it suitable for grain transport, and how much shipping space will be available on the ship.

Mr. Grelle pointed out that Bunge handles 9 million long tons of commodities annually, valued at more than \$1 billion. Grain facilities alone handle 80 millions of bushels at 20 grain terminals. It has 30 U.S.A. offices and personnel ex-

ceeds 1,100. In one year it uses in excess 2,400 barges and 82,500 railroad cars.

MR. GRELLE also pointed out that every single day of the year, Bunge loads for export more than two full ocean cargoes, 30,000 tons!

Exports include wheat, corn, rye, barley, milo, oats, soybeans, flax, tallow, lard, vegetable oils and animal feeds.

Imports include burlap, jute, sisal, castor oil and tung oil.

"Bunge provides American farmers with ready buyers," Mr. Grelle said, "at the best market price at the time of harvest, for grains and other farm commodities. Our country elevators save farmers transportation, time and expense.

"Our elevators are also well-planned, efficient facilities for the storing of grain. Thanks to modern handling equipment, the farmer can have his grain graded, unloaded in minutes and be on his way with a check in his pocket.

"From country elevators to terminal facilities, we also dry, condition, blend and store grain for both domestic and export buyers."

DONALD D. VINCENT, farm electrification adviser for the Winchester electric cooperative, said the grain terminal will utilize more than 1,200 horsepower in moving grains from barge to elevator and within the bins.

"The facilities for cleaning the grains and aerating them are overwhelming," Mr. Vincent pointed out. "The bins, constructed of heavy duty steel with welded joints, will take a lot of hard usage. Over and under conveyors can keep the grain moving at maximum efficiency."

The land on which the new grain handling facility is located was filled in with sand as a base. Formerly the area was overrun when flood seasons occurred. Now, however, the buildup should alleviate flood conditions on both sides of the Mississippi River for quite a distance on each side of the facility.

Mr. Vincent pointed out that it may not be too long before commodity businesses will line the banks of the river on down to the Gulf of Mexico as barge and ocean going freighters increase their exports.

Urban-Rural Areas Share Joint Problem

The further development of rural America "must proceed with speed and dispatch" not only because of the people living there but also because of the "utter necessity of relieving the population pressures that are growing daily in our large cities."

This was the view of Secretary of Agriculture Clifford M. Hardin, speaking recently in Chicago at the annual meeting of the National Association of State Universities and Land-Grant Colleges.

"It is not enough that we think in terms of improving conditions and opportunity for the people living today in rural America, and thereby stemming the flow of people to the cities," he said.

"We must do much more. We must make it a matter of urgent national policy that we create in and around the smaller cities and towns sufficient good employment opportunities and living environments that large amounts of families will choose to rear their children there."

The secretary was talking about the present and looking to the future.

He said his proposals were not designed to make huge cities smaller.

He said it is extremely important that changes be made so the great urban centers will not have to absorb "most of the 100 million or so new Americans who will arrive during the next 30 years. And that most certainly will happen unless strong, positive steps are taken to prevent it," he added.

During the past 20 years the nation's population has grown by 54 million.

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Humidity Control—

a factor for total home

(Editor's Note: Much of the following information was obtained from reports of the Illinois Farm Electrification Council and equipment manufacturers. It includes studies made by the American Society of Heating, Refrigeration and Air Conditioning Engineers.)

Fresh air, particularly moist, spring air, has many pleasing effects, most people agree. Most also agree that there are discomforts with wintry-dry rooms. They can easily recall the parched, irritated feeling of sleeping in a room lacking adequate humidity.

Still, many homeowners have not given what the heating and cooling industry considers adequate attention to humidity control—one of the basic comfort factors. Today, systems can be installed affording control of heating, air conditioning,

humidity, air cleaning and odor.

Control of these basic comfort factors makes it possible to have ideal indoor climate all year, even in areas with seasonal problems of heat, cold, humidity, pollen and dust. Such complete indoor control is now commonly called "total home comfort."

Within a few short years, home planners predict, most new homes will include built-in provisions for all five important comfort factors. Most existing homes, they add, have the potential for total home comfort and require only minor changes and equipment additions to make them truly modern.

ONE OF THE overlooked elements in many homes is humidity control, these home planners say, pointing out how easy it is to control humidity—either taking excess

moisture out of the air in damp seasons (dehumidification) or adding moisture during the heating season (humidification).

Unbelievable as it may seem, the air in the average home in the winter is often drier than the middle of a desert. For example, the Sahara has an average humidity of 20 per cent while many homes in cold weather have humidities of only 10 to 15 per cent.

There are many effects of low humidity. Many suffer from itchy or dry, irritated nasal and throat passages. Many medical authorities relate low humidity to increased susceptibility to colds and respiratory infections.

Aside from personal discomforts, low humidity can cause expensive damage to your home and furnishings. Wooden furniture may become unglued, wooden trim may pull away from the walls, wallpaper may crack or come loose, paneling may gap and, of course, there is the annoying problem of static electricity.

ANOTHER IMPORTANT factor is heating bills. When the air is too dry, most persons feel colder because of excess moisture evaporation from the body. As a result, higher room temperatures are needed for a comfortable feeling.

Studies show that for a drop of 30 per cent in humidity, the room temperature must be raised five degrees to maintain the same body comfort balance as before. Such an increase in your home's indoor temperature could result in a 10 to 15 per cent increase in your fuel bill.

Very few homes have adequate humidity in winter unless they have a source of evaporating moisture, according to heating experts. The dryness of most homes is due to the basic physical principle that cold air holds very little moisture, yet the same air when heated can drink up large amounts of moisture.

FOR EXAMPLE, the air in an average one-story home may contain up to 16 pints of water at 70 de-

WHAT HAPPENS TO OUTSIDE WINTER AIR WHEN HEATED TO 72° ROOM TEMPERATURE

Find outdoor air temperature at the bottom and outdoor relative humidity at the left.

Example: outdoor R.H. 65%, outdoor temperature 10°=indoor R.H. of 6% (circled in chart).

	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%	5%	0%
3%	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	+	+	+	0
4%	4	4	4	4	4	3	3	3	3	2	2	2	2	2	1	1	1	+	+	+	0
6%	5	5	5	5	5	4	4	4	4	3	3	3	3	2	2	2	2	1	1	1	0
7%	7	6	6	6	6	5	5	5	5	4	4	4	4	3	3	3	3	2	2	2	0
9%	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	0
11%	10	10	10	9	9	8	8	8	8	7	7	7	7	6	6	6	6	5	5	5	0
14%	13	12	12	12	11	10	10	10	10	9	9	9	9	8	8	8	8	7	7	7	0
17%	16	15	15	15	14	13	13	13	13	12	12	12	12	11	11	11	11	10	10	10	0
21%	20	19	19	18	17	16	16	16	16	15	15	15	15	14	14	14	14	13	13	13	0
26%	24	23	23	22	20	19	19	19	19	18	18	18	18	17	17	17	17	16	16	16	0
31%	30	28	28	27	25	23	23	23	23	22	22	22	22	21	21	21	21	20	20	20	0
OUTDOOR AIR TEMPERATURE	-10°	-5°	+0°	+5°	+10°	+15°	+20°	+25°	+30°	+35°	+40°										

comfort

degrees. Yet, the same amount of outdoor air can hold less than four pints of water at 32 degrees, and only one-half pint at zero degrees.

This means that the air coming into a home from the outdoors in cold weather contains very little moisture. Most homes have at least two complete air changes through infiltration from the outdoors each hour. No wonder most homes get so uncomfortably dry in the winter!

Outdoor air with 65 per cent humidity on a 10-degree above zero day contains so little moisture that when brought into the house and heated to 72 degrees it will have only six per cent relative humidity. (See the accompanying chart.)

A Fast Test

A simple experiment is suggested as one way to make a quick and easy check of the humidity level in a room. Put three ice cubes in a glass, add water and stir. If moisture doesn't form outside the glass in three minutes, there is not sufficient humidity in the room.

A PARTIAL replacement of moisture is made through normal living habits. Each person in the home adds three to four pints of water to the air each day through breathing and perspiring. A shower bath yields about one-half pint of water. Washing and rinsing an average kitchen floor releases about two pints. Food preparation for a family of four releases about five pints of water a day. These and other sources of moisture evaporation in the home do increase the humidity some, but, in most homes, the air still remains much too dry for comfort.

The amount of moisture generated in the home is usually only enough to keep the indoor humidity at 10 to 15 per cent during cold weather. Up to four quarts of ad-



Elegance in styling and design and the look of crafted cabinetry are combined in many of the portable humidifiers now available from several manufacturers.

ditional water per room should be supplied each day for health, comfort and economy.

HEATING EXPERTS say additional humidification is the answer, but they caution that it must be properly controlled. Most agree that the indoor humidity should be kept between 30 and 60 per cent, depending on outdoor temperature and house construction.

Moisture can be added mechanically by commercially available humidifiers, generally of three types.

The pan type, the simplest, has a limited capacity. It consists of an open pan of water sitting on or in a heat source.

The atomizing type of humidifier atomizes water by throwing it from the surface of a rapidly revolving disc. It can be a portable unit or it

can be installed in the duct or plenum of a central heating system.

The wetted element type humidifies as air is forced through a wetted pan or filter and picks up the moisture as it evaporates. The evaporation rate can be increased by increasing the air flow or supplying heat to the air or the water. These units can be portable or mounted on the furnace.

POWER HUMIDIFIERS have opened new opportunity for accuracy in home humidity control, adding moisture to the air as needed. Humidistats, like thermostats, will keep pre-selected levels.

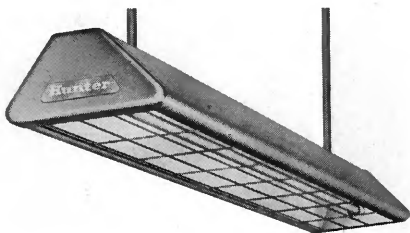
Thus, humidity control is put within easy reach for homeowners wishing to have "total home comfort" that is being spoken of more and more these days.

What's New?



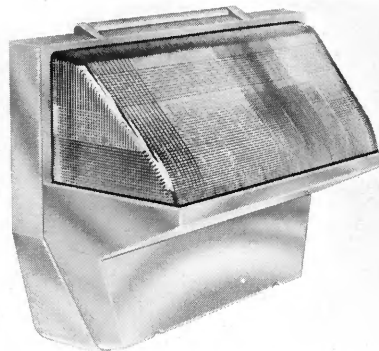
● 'Trash Masher'

A "trash masher compactor" from Whirlpool is designed to compact a week's worth of trash into a storage bag, eliminating daily trips to the garbage can. It requires no special wiring or plumbing and operates on regular household current. To operate, a safety key is turned on, a button is pushed and contents of the waste drawer are compacted under 2,000 pounds of pressure. The total cycle time is 60 seconds. Fifteen inches wide, the unit can be a built-in or a free-standing model.



● Outdoor Heat

This infra-red electric heater with a translucent fused quartz tube from Hunter Division, Robbins & Myers, Inc., 2500 Frisco Ave., Memphis, Tenn. 38114, heats objects rather than air, giving comfort in areas once considered unheatable—even outdoor locations. Home uses include porches, toolsheds, workshops. It's available in ten models, three voltages, four wattages and two lengths.



● Light Bracket

A new outdoor light bracket made of cast aluminum with a prismatic glass refractor and Alzak reflector produces more uniform vertical footcandles and increases horizontal footcandles as well as giving pleasant, uniform back lighting on a wall. Listed by Underwriters' Laboratories, Inc., as suitable for wet locations, it is available from Guth Lighting, P.O. Box 7079, St. Louis, Mo. 63177.



● 'Mini' Dryer

The Hoover Co. has introduced a "mini" electric hair dryer that weighs just 14 ounces and normally retails for \$17.95. Despite its compactness, the dryer is said to deliver a more than adequate flow of heated air for rapid and thorough drying of the hair. It comes with a vinyl, purse-sized carrying case for convenient traveling.

Richter Is Named to AIEC Post



Roy R. (Randy) Richter

Newest member of the Association of Illinois Electric Cooperatives staff is Roy R. (Randy) Richter of Springfield, recently named administrative assistant to Thomas H. Moore, AIEC general manager.

Mr. Richter succeeds Jerry Campbell, now executive vice president of the Home Builders Association of Illinois.

Since 1961 Mr. Richter had served in the office of State Auditor Michael Howlett where he was the auditor's administrative assistant. Earlier he was a top aide to then Sangamon County Clerk Joseph Thoman.

At the AIEC, Mr. Richter, 34, is assisting in coordinating service programs for members of the statewide association. A Springfield newspaper, announcing his resignation from the auditor's staff, said he had long served as a strategist or adviser in numerous political campaigns and is "considered a resourceful person with a knack for public relations."

He is an Air Force veteran and studied at Springfield Junior College and at Texas Tech. He and his wife, Gloria, of Lubbock, Texas, are the parents of a 9-year-old daughter Tammi. Mrs. Richter is personal secretary to State Treasurer Adlai Stevenson.

Consumers: Can They Achieve Progress?

(Continued from page 8)

to independent federal agencies.

MRS. ANGEVINE pointed out that this spokespersonship is most important in bringing about change.

But, she warned, CFA cannot function effectively without the help of its member organizations and their individual members. So the responsibility—and the opportunity—for progress returns once more to the individual.

“CFA can explain its position to a congressional committee on a specific bill,” Mrs. Angevine said, “and it does, but unless the lawmakers know that ‘the folks back home’ approve this position, we might as well save our breath.”

Lawmakers, she continued, want to hear from their constituents. They want to know their thoughts, their wishes, their concerns. And unless a congressman hears from them on a specific measure he may feel that the matter is of no importance to ‘his people.’

“Consumers must identify with other consumers, work together, build strong organizations, raise funds necessary to keep them strong—and then speak out in one loud, clear, meaningful, thoughtful consumer voice,” Mrs. Angevine said.

“This I believe, we can and will do in Illinois and the nation.”

MRS. HELEN EWING NELSON, executive vice president of IFC, reported that “the rightness of our cause has been established in government. The Illinois Federation of Consumers is a stable, strong but flexible organization, thanks to its first two presidents, Jerry Voorhis and Tom Moore.”

Mrs. Nelson, the former California consumer counsel, is an economist who long has been a leader of national reputation in the field of consumer problems.

She said 1970 offers the opportunity for really significant advances on behalf of consumers. Congressmen, and legislators throughout the land, she added, are concerned about the need for wise consumer protection in many areas. If con-



Thomas H. Moore, center, retiring president of IFC, with Walter Sandbach and Mrs. Erma Angevine, two speakers at the recent IFC annual meeting in Chicago.

sumers do their part, much progress of immense value can be achieved.

Mrs. Nelson urged Illinois residents and organizations to join the Illinois Federation of Consumers. Family members are available for only \$10. Details may be obtained by writing the federation at Room 802, 53 West Jackson Boulevard, Chicago, Illinois 62604.

WALTER SANDBACH, executive director of Consumers Union, Mt. Vernon, New York, also urged that this is the time for greater efforts on the part of consumers and their problems.

Increasing numbers of individuals and organizations, particularly young people, are concerned with conservation and pollution, among other matters. He suggested that consum-

er groups “tie in with” conservation with vigorous and concerned young people to achieve real progress in these and other areas.

Consumers Union, which publishes the widely known magazine, *Consumer Reports*, last year contributed \$5,000 toward IFC costs. The organization may well do the same for one more year.

In another area, James Baylor, Illinois director of insurance, discussed ways in which this state, under the administration of Governor Richard B. Ogilvie, is striving to protect the interests of consumers by doing what it can to assure them effective insurance at fair rates.

This, he said, is a complex problem and one that is receiving constant and vigorous attention.

Serious discussion groups tackled specific problems during the IFC annual meeting. At far left is Albert J. Cross, AIEC director of Legal and Public Affairs. Third from right is Charles W. Witt, manager, M.J.M. Electric Cooperative.



Smile
Awhile

CAN'T WIN

Two campers were being bothered by mosquitoes one night. "Let's put out the fire so they can't see us," suggested one camper. They put out the fire, but then the fireflies began to flit around.

"Oh! No!" groaned the other camper. "Now they're after us with flashlights!"

* * *

HAIR

"No, you may *not* wear your hair like the Beatles," yelled the exasperated man to his long-haired offspring.

"Why not, Pop?" whined the youngster. "You wear yours like Yul Brynner."

* * *

"WHEN IN ROME . . ."

An American motorist in Rome stopped a native and asked anxiously, "Do you have any black cats two feet long?" "A few, signor," answered the native. "Any black cats four feet long?" "It is possible," conceded the native. "Well, have you any six feet long?" "But no, signor, that is ridiculous," said the native. "It's like I told you, you dope," interrupted the motorist's wife, from the back seat, "you've run over a priest!"

* * *

JOB LOT

Those high and mighty titles,
Those heaps of fulsome praise,
Are generally given
In lieu of a salary raise.

* * *

VANITY

Census taker: Your name, please?
Housewife: Matilda Brown.
Census taker: Your age?
Housewife: Have the Hill sisters next door given you their age yet?
Census taker: No ma'am.
Housewife: Well, then, I'm the same age as they are.
Census taker: OK, I'll put down, "Matilda Brown—old as the Hills."

* * *

FUTILITY NOTE

Dad labored hard for 18 years
To keep the wolf away
Then daughter up and married one
And brought him home to stay!

CAT TRACKS

The wife asked her husband to take the stray cat off somewhere and lose it. So he put the cat in a basket and drove off into the country.

"Did you lose the cat?" asked the wife when he finally returned.

"Lose her!" exclaimed the husband. "If I hadn't followed her, I'd never have found my way back home."

* * *

GOSSIPS

Gossips have been divided into three categories:

1. The vacuum cleaner set: always collecting the dirt.
2. The vest-button set: always popping off.
3. The liniment set: always rubbing it in.

* * *

QUOTABLE QUIPS

A woman's place is in the home and the modern husband expects her to go there immediately after work.

* * *

Sign on suburban home: "Salesman Welcome—Dog Food is Expensive."

* * *

Skin specialist: Itch doctor.

* * *

Most people, while learning to ski, practice for hours on end.

* * *

Wedding ring: One man band.

* * *

Sign in restaurant: Eat now—pay waiter.

* * *

Middle age is when men don't get any younger and women don't get any older.

* * *

Frustration is a bald-headed hippie.

* * *

If at first you do succeed, hide your astonishment.—Lucille S. Harper.

* * *

THIS COMPLEX WORLD

You will remember those wallet cards that said, "I am a Catholic. In case of accident, call a priest." Among new versions now circulating:

"I am an underground Catholic. In case of accident, call an ex-priest."

"I am a priest. In case of accident, call the wife and kids."

"I am a Fundamentalist. In case of accident, call a Bible."

"I am a monsignor. In case of accident, call my stockbroker."

"I am an atheist. In case of accident, goodbye."—*Liberty*

Roger Tells it Like it Is in U. S. Senate

(Continued from page 4)

One thing that struck Roger's eye is that Congressmen have "brightly-polished" shoes and are "immaculately dressed."

"I have the highest respect for them, not only as Senators but also as sincere and dedicated men."

ROGER WAS ASKED about the other pages and their outlook and plans.

"The 70-some other pages are for the most part wonderful guys. As a rule they are responsible, neatly-dressed likeable fellows. Many look forward to law careers. The school is definitely tough, due largely to the limited study time during the week. Time is very valuable. Studies come first, but sleep cannot be neglected. It just doesn't pay to be drowsy on the Senate floor.

"I had never dreamed that I would someday be this close to our federal government. I am thankful that I have been given this chance and have been able to perform my duties so far."

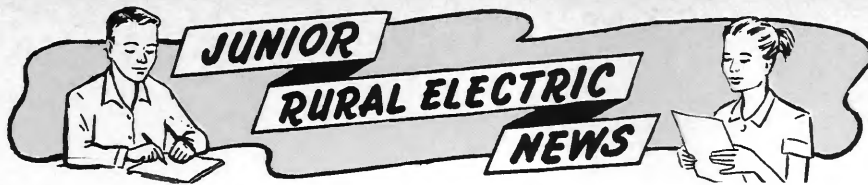
So many airplanes are being hijacked these days that some airlines are thinking of establishing a Detourist Class.

* * *

Witch: Creepy time gal.



"... an' make sure it's a 'lectric dog-house, unnerstand? A 'LECTRIC doghouse."



PEN PALS

Here are some boys and girls anxious to become pen pals.

Send any letters for publication to:
Junior Rural Electric News, Box 3787,
Springfield, Ill. 62708.

CHRISTINE A. WALTON, 2227 N. Northcrest Dr., Peoria, Ill., 61604. 12 yrs. old and in the 7th grade. Hobbies—swimming, baseball, roller skating and horseback riding. Would like a girl Pen Pal her age and grade.

* * *

KATHY MILLAM, 305 Washington Ave., Casey, Ill., 62420, 15 yrs. old. Birthday—Mar. 13. Hobbies—listening to records, writing letters and horseback riding. Will try to answer all letters.

* * *

LYNN McMILLEN, r.r. 1, Hennepin, Ill., 61327, 12 yrs. old. Has brown hair and blue eyes. Hobbies—bike riding, reading and playing French Horn. Would like to hear from boys and girls her age. Will try to answer any and all letters.

* * *

VICKI SCOGGINS, r.r. 2, Carrollton, Ill., 62016, 14 yrs. old. Hobbies—swimming, cooking, riding horses and listening to records or radio. Would like to hear from boys and girls any age. Will try to answer all letters. Send picture if possible.

* * *

CHARLOTTE GRUNZY, Box 41, Ashley, Ill., 62808, 14 yrs. old. Birthday—April 12. Hobbies—skating, basketball, baseball and listening to records and radio. Has brown hair and eyes. Would like to hear from boys and girls between 14 and 16. Send picture if possible.

* * *

DENISE DETTMERING, Buckley, Ill. 60918. 10 yrs. old. Has brown hair and greenish eyes. Birthday—May 26. Hobbies—fishing, skating, swimming, baseball, writing, volleyball and singing. Is a Girl Scout. Would like to hear from boys and girls of any age. Will answer all letters. Send picture if possible.

BRENDA PIEPER, 508 N. Moore, Waterloo, Ill., 62298, 11½ years old. Has long blond hair and green eyes. Birthday—Nov. 5. Hobbies—camping, writing and swimming. Will write to boys and girls her age. Will try to answer all letters.

* * *

PEGGY CLAYPOOL, 603 E. Washington, Casey, Ill., 62420, 15 years old. Birthday—Dec. 5. Has long brown hair and brown eyes. Hobbies—skating, dancing and listening to records. Also enjoys writing letters and will answer all letters she receives.

* * *

DIANE LOWE, r.r. 3, Carlyle, Ill., 62231. 12½ yrs. old, has brown hair and blue eyes. Hobbies—swimming, skating, fishing and horseback riding. Would like to hear from boys and girls 12-15. Will answer all letters. Send picture if possible.

* * *

PAULA DIANE SAUNDERS, Box 76, Rockport, Ill., 62370. 12 yrs. old, has brown hair, blue eyes and is 5' 1½" tall. Hobbies—swimming, reading mystery books, baseball and riding a bike. Would like pen pals ages 12-14. Will answer all letters. Send picture if possible.

* * *

LISA LOVAN, r.r. 2, West Frankfort, Ill., 62896. 9 yrs. old and in the 4th grade. Hobbies—swimming, skating, reading and bicycle riding. Will answer all letters.

* * *

BENNIE LIEHR, West Washington Route, Macomb, Ill., 61455. Partly disabled War Veteran who spends a good deal of time in the hospital would like to get long, newsy letters from boys and girls. Send picture if possible. He will answer all letters.

* * *

BECKY SCHULTE, Golden Eagle, Ill., 62036. 8 yrs. old and in the 3rd grade. Birthday—Sept. 10. Hobbies—bike riding, swimming, horseback riding and skating. Has light brown hair and green eyes. Would like to hear from girls her age.

* * *

DENNIS BASS, r.r. 1, Box 109, Worden, Ill., 62097, 13 yrs. old. Has brown hair and is 4'9" tall. Hobbies—volleyball and baseball. Will answer any letters from boys and girls. Send picture if possible.

DENNIS EUGENE TRIMBLE, r.r. 3, Shelbyville, Ill., 62565, 6 yrs. old. Hobbies—reading and watching TV. Would like to hear from other young boys and girls.

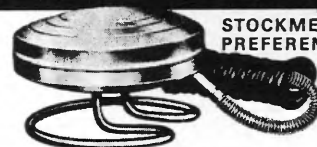
* * *

TAMMY RIPPERDA, 10 Breese, Ill., P.O. Box 62230

* * *

LINDA CLOVER, 14 Pomona, Ill., Box 85, 62975

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■ For the twelve days of Christmas greet your family and guests with softly lit candles. Frosted, lavishly decorated and mounted on pretty candlesticks, raisin cakes or bread are real for their role as a gift-to-eat and a gift-to-keep remembrance. Use them too, as the centerpiece for a festive dinner, clustered with real candles and fragrant holiday greens. Come time for dessert, slice and serve as the sweet ending for the sumptuous repast.

RAISIN CANDLE CAKES

3¼ cups dark seedless raisins	4 teaspoons lemon juice
1½ cups golden seedless raisins	3 tablespoons orange juice
1½ cups seeded muscat raisins	1 teaspoon EACH cinnamon, nutmeg, allspice and cloves
⅔ cup sliced dates	
2⅔ cups red candied cherries	1¼ cups brown sugar (packed)
2 cups mixed candied fruits	1 cup butter
1½ cups diced green candied pineapple	½ teaspoon EACH vanilla and almond extract
½ cup cider or fruit juice	2 cups sifted flour
¾ teaspoon grated lemon peel	1 teaspoon salt
1½ teaspoons grated orange peel	
1½ cups blanched almond halves	

Combine raisins, dates, candied fruits, cider, peels, juices and spices. Mix well, let stand several hours or overnight, stirring occasionally. Beat together sugar, butter, egg yolks and flavorings. Add flour and salt, mixing until smooth. Beat egg whites until stiff. Fold into batter. Add almonds to raisin mixture and carefully fold in batter. Spoon into well greased cans with bottoms lined with circles of foil or greased brown paper. Bake at 275 degrees 1½ to 3 hours depending on size of cake, until cakes test done. Let stand 15 to 20 minutes; loosen edges with small spatula. Cut bottom from cans and gently push out cake. Cool on rack, then wrap in foil or saran. Frost and decorate before serving. Makes about 7½ pounds fruit cake—one cake baked in each of the cans listed below plus one additional cake baked in a pound shortening or a No. 303 can.

Can Size	Amount of Batter	Baking Time
9¼ ounce tuna	1 cup	1½ to 1¾ hours
1 pound shortening	2¼ cups	2½ to 2¾ hours
No. 303 (16 ounce)	1⅔ cups	2¼ to 2½ hours
1 pound coffee	3¾ cups	2¾ to 3 hours
1 quart juice	3½ cups	2¾ to 3 hours

*Candle Holder Cakes: Insert household bottle cork in center of batter. Remove after baking.

FROSTING AND DECORATING: Use a thick powdered sugar and water frosting and spread on cakes with fingertips to give frosty or dripped candle look. Insert short section of candle in hole. Decorate tops of cakes as desired with raisins, candied fruits and marzipan. Brush with corn syrup which has been heated to boiling.

HOLIDAY RAISIN BREAD

1 pkg. of cake yeast	½ teaspoon anise extract (optional)
¼ cup warm water	4 cups sifted flour
¾ cup milk	1½ cups seedless raisins
½ cup sugar	⅓ cup quartered candied cherries
¾ cup butter	⅓ cup diced candied orange peel
2 teaspoons salt	
3 eggs	

Sprinkle or crumble yeast into warm water in small warm bowl; stir until dissolved. Scald milk, then cool to lukewarm. Beat together sugar, butter and salt. Beat in eggs, one at a time (Mixture may look curdled). Add yeast, milk and anise extract. Add about half of flour, mixing until smooth. Stir in raisins and candied fruits, then remaining flour, mixing to a soft dough. Cover and let rise in warm place 1½ to 2 hours until doubled in volume. Stir down. Divide dough among greased cans, filling about half full. Dough will be sufficient for a 1-pound coffee can, a 1-pound shortening can, a 1-pound 4½-ounce fruit can and 9-ounce tuna can. Let rise in warm place about 1 hour until doubled. Bake on lowest rack of 375 degree oven 25 minutes for smaller cans, 30 to 35 minutes for larger ones. Cover tops of loaves loosely with foil after 10 to 15 minutes to prevent overbrowning. Let stand 5 minutes, then turn out into rack to cool. Makes 1 large and 3 smaller loaves.

Candle
cakes
cast
flickering
glow on
holiday
festivities





More recipes for the Holidays--

RAISIN PEEK-A-BOO DROPS

- | | |
|---|------------------------|
| 1 cup shortening (half butter or margarine) | 1 teaspoon soda |
| 2 cups brown sugar (packed) | 1 teaspoon salt |
| 3 eggs | 1 teaspoon vanilla |
| 3 cups sifted flour | Holiday Raisin Filling |

Beat shortening and sugar together until light and fluffy; beat in eggs. Resift flour with soda and salt. Add to brown sugar mixture along with vanilla. Drop dough in small mounds on ungreased baking sheet. Press small amount of Holiday Raisin Filling in center of each mound. Top filling with small bit of dough. Bake at 350 degrees about 10 to 15 minutes. Use a wide spatula to carefully remove cookies to cooling rack. Makes 3½ dozen cookies.

HOLIDAY RAISIN FILLING: Combine 1½ cups raisins, ½ cup sugar blended with 1 tablespoon cornstarch and ½ cup water. Cook, stirring until thick, about 10 to 15 minutes. Remove from heat and cool slightly. Blend in 1 tablespoon each lemon juice and soft butter and ½ cup each chopped filberts and halved candied cherries. Let stand until cold.

RAISIN CRANBERRY PUDDING

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| ½ cup soft butter | 1½ cups California seedless raisins |
| 1 cup sugar | 1½ cups cranberries |
| 1 teaspoon grated orange peel | 3½ teaspoons baking powder |
| 1 teaspoon vanilla | 1 teaspoon salt |
| 2 eggs | ¾ cup milk |
| 2½ cups sifted flour | |

Blend together butter, sugar, orange peel and vanilla until light and fluffy. Add well beaten eggs mixing until thoroughly blended. Sprinkle 2 tablespoons flour over raisins and cranberries. Add remaining flour resifted with baking powder and salt to first mixture alternately with milk. Fold in floured fruits. Turn into well greased 6 to 8 cup pudding mold; cover tightly. Place mold on trivet in large kettle of boiling water (water should come halfway up mold). Steam in continuously boiling water 1½ to 2 hours, replenishing water as needed. Remove mold from water; uncover and let pudding stand in mold 15 minutes before turning out. Serve hot with Fluffy Hard Sauce Topping. Makes 10 to 12 servings.

NOTE: Cool unmolded pudding on rack if it is to be stored and reheated later.

FLUFFY HARD SAUCE TOPPING: Beat until fluffy ½ cup soft butter, 1½ cups sifted powdered sugar, 2 teaspoons rum and ½ teaspoon grated orange peel. Add a little cream, if necessary, to make soft fluffy mixture. Add ¼ cup chopped pecans and ½ cup finely chopped raisins. Makes about 2½ cups sauce.

KNIC-KNACS

- | | |
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| ¾ cup salad oil | 1 teaspoon onion salt |
| 1 teaspoon celery salt | 1 teaspoon garlic salt |
| 1 teaspoon savory salt | 3 Dashes Tabasco Sauce |
| 2 tablespoons Worcestershire Sauce | 1 pkg. thin pretzels |
| 2½ cups ready to eat cereal (Cheerios, Kix, Rice Chex, and Wheat Chex in equal proportions) | 2 cans (8 oz.) peanuts |

Preheat fry pan to 250°—When preheated add oil. When oil is hot add seasonings and blend. Add cereals, pretzels, and peanuts. Stir cereal mixture into heated oil. Turn control dial down to 175°—cover fry pan. Heat for 1-2 hours stirring occasionally. Serve immediately, pack in pint jars or freeze.

QUICK "PICK ME UP" SOUP

- | | |
|------------|----------------|
| ½ consomme | ½ tomato juice |
|------------|----------------|
- Top with whipped cream and parsley. Serve hot or cold.

MUNCHY CRUNCHIES

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| 1 6 oz. pkg. semi-sweet chocolate bits | 2 3 oz. cans chow mein noodles |
| 1 6 oz. pkg. butterscotch morsels | |

Spread chocolate bits and butterscotch morsels evenly in 10½-inch frypan. Cover. Cook at 200° for 5 minutes. Stir to combine softened candy, mixture may not be smooth. Add noodles, stir until coated with candy mixture. Remove from heat. Turn out on wax paper and spread as thinly as possible, using two forks to separate noodles for a thin layer. Chill until firm. Invert wax paper onto platter and tap with knife handle to break into serving pieces. Makes about 60 pieces.

SKILLET PEANUT BUTTER FUDGE

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| 2 cups sugar | 3 tablespoons butter |
| 1 cup evaporated milk | 1 cup miniature marshmallows |
| 1 Jar chunk-style peanut butter | 1 teaspoon vanilla |

Combine sugar, butter and evaporated milk in a large electric frypan. Set control dial at 280°. Bring to a boil, and boil 5 minutes, stirring constantly. Turn off frypan, add marshmallows, peanut butter and vanilla. Stir until marshmallows and peanut butter are melted and blended. Turn into a buttered 8-inch square pan. Cool before cutting into squares.

AMBROSIA CAKE

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| 2 tablespoons butter | ½ cup coconut |
| 1 cup orange marmalade | ½ box yellow cake mix |

Mix cake according to directions. Add ½ tsp. orange and ½ tsp. lemon extract. Melt butter in 9 x 9 square pan. Sprinkle coconut over butter. Spread marmalade evenly over coconut. Pour batter over marmalade and coconut. Bake at 350° for 30 minutes. Cool in pan. Invert on plate. Serve with Dream Whip or whipped cream. We suggest you make 2 cakes at the same time using the box of cake mix.

HOLIDAY POUND CAKE

- | | |
|------------------------------------|------------------------------|
| 2 cups butter | 1 cup chopped green cherries |
| 2¼ cups sugar | 1 cup finely chopped pecans |
| 1 tablespoon vanilla | 4½ cups sifted flour |
| 1 teaspoon grated lemon rind | 1½ teaspoons salt |
| 9 large eggs | |
| 1 cup chopped candied red cherries | |

Butter bottom of a 10-inch tube pan and line with wax paper. Cream together butter and sugar until very light and fluffy. Blend in vanilla and lemon rind. Add eggs, one at a time, beating well after each addition. Toss cherries and nuts with 1 cup of the flour. Sift remaining flour with salt and fold into batter, ½ cup at a time, mixing only until smooth. Fold in cherries and nuts. Turn batter into prepared pan. Bake at 325 degrees 1 hour and 45 minutes. Cool on wire rack at least 10 minutes before turning out onto platter. Cake will keep several weeks in a tightly covered container.

CHICKEN LIVERS AND BEEF TIPS

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| ¼ cup butter | 1 tablespoon flour |
| 1 lb. chicken livers | 2 teaspoons paprika |
| ½ lb. mushrooms, sliced | 1 teaspoon salt |
| 2 tablespoons butter | ½ teaspoon pepper |
| 1 lb. beef sirloin tip, cut in 3 x ½-inch strips | ½ cup red wine vinegar |
| 2 tablespoons chopped green onions | 2 cups light cream |
| | 2 egg yolks, slightly beaten |

In skillet melt ¼ cup butter, saute cut up chicken livers 5 minutes. Add mushrooms, continue cooking 2 minutes or until done. Remove to warm plate. Melt 2 tablespoons butter in skillet. Saute beef and onions until beef is browned; stir in flour, paprika, salt and pepper. Add vinegar; bring to simmer and cook until most of liquid is reduced. Return mushrooms and chicken livers to skillet. Combine cream and egg yolks; add to hot mixture, cook over low heat, stirring constantly, just until mixture comes to boil. Serve immediately over noodles, hot rice or toast triangles to 6 or 8.

BISHOP'S BREAD

- | | |
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| Batter: | 2 eggs |
| 2¾ cups flour | 1 cup milk |
| 3 teaspoons baking powder | Streusel Topping: |
| 1 teaspoon salt | ½ cup sugar |
| ½ cup soft butter | ½ cup flour |
| 1 cup light-brown sugar, firmly packed | ¼ cup butter |
| | 1 tablespoon cinnamon |

Sift flour with baking powder and salt. In large mixer bowl, beat butter with brown sugar and eggs at medium speed until very light and fluffy. At low speed, blend in milk, then flour mixture, beating just to combine. Turn batter into greased 13x9x2 baking pan, spreading evenly. Make Streusel Topping: In small bowl, combine ingredients; mix till crumbly. Sprinkle over batter. Bake 25 minutes at 375 degrees or until it tests done. Let cool slightly in pan on wire rack. Serve bread warm. 16 servings.

CHRISTMAS BUTTER COOKIES

- | | |
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| 1 cup (2 sticks) butter | 1 teaspoon vanilla |
| 1 cup sugar | 2½ cups regular all-purpose flour |
| 1 egg | 1 teaspoon baking powder |
| 1 tablespoon milk | ¼ teaspoon salt |

In a large mixing bowl cream butter; gradually add sugar and beat until light and fluffy. Add egg, milk and vanilla and beat thoroughly. Sift together flour, baking powder and salt; gradually add to creamed mixture. Chill for ease in handling. On lightly floured surface roll to ¼ inch thickness; with floured cookie cutters cut into desired shapes. Place on baking sheet; bake 9-12 minutes at 350 degrees. Decorate as desired.

VARIATION: Nut Refrigerator Sandwich Cookies: Add ½ cup chopped walnuts to dough. Chill. Shape into 2 rolls 1¾ inch in diameter and 12 inches long. Wrap in waxed paper; chill. Slice in ¼ inch slices; place on baking sheet. Bake 10-12 minutes. Remove to wire rack to cool. Put two cookies together with Vanilla Frosting*; place dollop of frosting on top of each sandwich and top with walnut half. Yield: 4 dozen sandwich cookies.

*Vanilla Frosting

- | | |
|--|--------------------|
| 2 tablespoons butter | ½ teaspoon vanilla |
| 1¾ cups confectioners sugar | Food coloring |
| 3-4 tablespoons light cream or half and half | |

In a small mixing bowl beat together butter, sugar and sufficient cream to spreading consistency. Blend in vanilla and food coloring.



Octavia the Octopus is a loveable, laughable contributor to the Christmas spirit. But the most fun comes after when she reveals her true colors as three or four pairs of knee socks so popular with short skirts. Her head, stuffed with tissue and all a-smile with features cut out of felt scraps, is a pompommed rib-knit cap. It's destined to bring warm thoughts to the head of the young recipient all winter long. Trim the "tentacles" with bells or Christmas balls. A doll of a gift.



Gift wraps you can wear

The Cowardly Lion is as much fun to make and give as he is to receive. His body is a pair of Felice knee socks. Hidden inside are lion-shaped gift boxes: perhaps dusting powder, a tin of hard candy and round jewelry box. His features are made of felt, his shaggy mane is made of yarn.

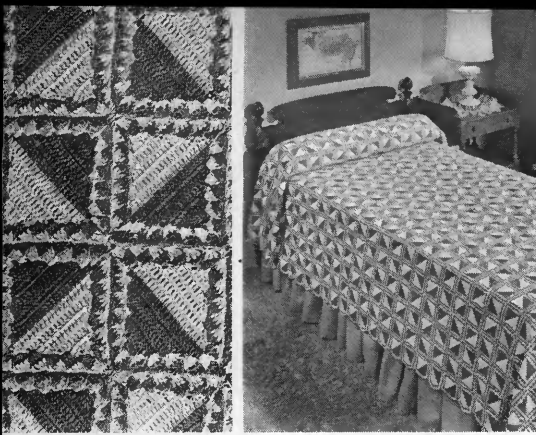
Hannah the gift horse—a most loveable pet—is really a pair of heatherly, brushed knee socks. Stuff both socks with tissue paper. One becomes the body, back legs, and one front leg. The second sock is the neck, head and other front leg. Twist them into shape, secure with pins. Make eyes and tongue of felt and a hat, mane and tail of yarn.



Socks and ties, favorites to give and to receive, become "custom-made" gifts when fashioned into clever little mascots. Combine one of them with a pair of socks and another small gift such as a pen, key chain or tie clasp. All you do is stuff the foot of socks with tissue paper, and smooth rest of sock over a piece of carboard rolled into cone shape for body. Tie the necktie in a four-in-hand knot around the "neck." Arms, facial features and collars may be made out of felt, paper or pipe cleaners and the extra gift attached with tape to tie.



Soft, comfortable golf socks are welcome as a Christmas gift when presented as a golfing mascot. To make it, put four whiffle balls in the toe of one sock. Stuff cotton around balls, secure with rubber band. This forms head. Turn cuff up over toe—to just below the head. Wind a long pipe cleaner around neck, let ends hang for arms. Cover pipe cleaner with felt. On other sock, pin down the center of cuff for about 4" insert a cylinder of heavy paper—4" long and 1½" diameter—into each section to form legs. Roll up remainder of second sock, stuff it into opening of other sock to form body. Let the legs dangle. Cut a hat, arms, face out of felt, pinning and pasting them to mascot. As a final touch, make a golf club by pasting felt on a pencil and attach it to the mascot's arm.



1. Lady of the Lake Bedspread



2. Fringe Shell



3. Cottage Garden



4. School Recess



5. Kitchen Set-Crocheted Basket

1. It's an optical illusion. This bedspread only looks like the Lady-of-the-Lake patchwork quilt design. It's really a crocheted bedspread done in 2 contrasting shades. Make 10 3-inch motifs a day and you'll have a bedspread sooner than you think.

2. She's on a fringe binge with cascades of it tumbling over her shoulders. The basic body of sweater is crocheted in an open mesh pattern. The collar comes from five rounds of loop stitches. Wear it with long skirts and lounge pants. Sizes from 8 to 14.

3. An afghan arouses a sense of home and comfort and welcome. Each motif is crocheted from three colors.

4. Little boys love to wear knitted sweaters. It has a zippered closing to keep him warmer and raglan sleeves for better ball throwing. He'll find two pockets perfect for storing his treasures.



6. Chanel Coat

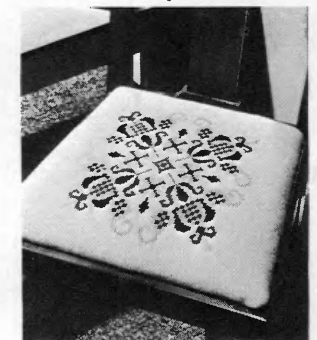
Homework!

5. Re-charge your kitchen's batteries. Mesh curtains hang cafe-style with contrasting rick rack laced at bottom 4 rows. Glass jackets, round place mats and school cushions crocheted in a whirling pinwheel.

6. The crocheted coat has taken fashion's wrap for a three-season term. Slender, Chanel styling has skinny set-in sleeves and plain neckline. It's easy.

7. Needlepoint seat cover emphasizes fine chairs. It's worked with a tent stitch using rich color combinations—design suitable for a footstool.

8. Have a Highland Fling in this beret from Scotland. There's a special bonus, the Marigold rug and you don't have to know how to crochet or knit for it.



7. Chair Seat



8. Highland Beret borrowed from Scotland—A bonus Marigold Rug



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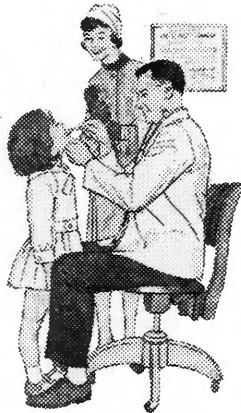
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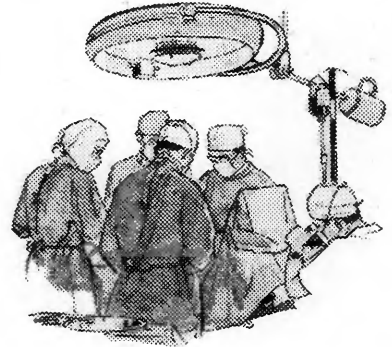
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