

Illinois
R.E.N.
RURAL ELECTRIC NEWS
May, 1971

National News Notes

Hamil praises cooperatives for 'Self-Help'

■ David A. Hamil, REA administrator, recently praised REA borrowers for their achievements in meeting challenges posed by growing service demands. He emphasized that record use of electricity, growing demands for improved telephone service and the increased need for new capital are challenges facing both rural electric and telephone systems as never before.

Farm and residential consumers, for example, used an average of 695 kilowatt-hours of electricity a month during 1970. This is an increase of 95 per cent over ten years ago. Two of every three telephone loans made by REA during the year provided for some single-party service, reflecting the increasing demand of rural people for modern telephone service.

"The outstanding achievement of the year," Hamil said, "was the launching by electric cooperatives of the National Rural Utilities Cooperative Finance Corporation (CFC) as a means of supplementing with their own funds, and with private money market resources, the loans available from REA. And we are optimistic about the chances of a telephone bank being established soon to bring much needed supplemental financing into that program."

Kermit Overby cites problems facing co-ops

■ Failure, or inability, of the nation's electric cooperatives to meet the challenge of providing their 25-million member-owners with adequate electricity would be a "disaster," and one that could occur, Kermit Overby, director of legislation and communications for the National Rural Electric Cooperative Association, said in a recent address at Madison, Wisconsin. He asserted:

"Rural electric systems responding to a NRECA annual survey of loan needs revealed totals which will require \$804-million in REA loan fund appropriations for fiscal year 1972. This requirement figure is one on a rising trend. It was \$600-million for 1971 and now \$804-million for 1972.

"The amount grows larger each year because the need for system improvements and growth increases while the amount of funds made available stays about the same.

"About the same? Not quite. Inflation sees to that.

"The REA loan dollar is building less lines and other facilities each year. In terms of what a dollar would buy in 1967, today's Federal Administration projected loan program of \$345-million would build only \$310-million in plant. Wholesale prices increased 11.3 per cent in the last four years. Meanwhile, needs for service increase.

"Is it an exaggeration, then, to say we are on a road to disaster when we face up to facts as these? I think not."

Natural gas to cost more in immediate future

■ Natural gas prices are going up and things probably won't get much better for three to five years—if then—, says the Wall Street Journal in a recent article. The report on this "gloomy picture" was based on talks with numerous energy experts and gas producers, distributors and pipeline operators.

Compounding the problem is soaring demands for gas and declining discovery of new reserves. Producers claim artificially low prices set by federal regulators for gas originating in one state and marketed in another has contributed to drastic reductions in drilling for new fields for such interstate markets. And, says the WSJ, producers are gaining converts to the view that prices should be increased. This would encourage more exploratory drilling. The Federal Power Commission may well allow some increases in prices imposed by producers.

Some critics, however, aren't too sure some oil and gas producers may not be hiding some reserves in order to bring about higher prices. The Federal Trade Commission has launched an investigation into this possibility. The investigation may require several months.

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COVER—Miss Illinois Electric Cooperative, 1970, Miss Gail Woodard of Southern Illinois Electric Cooperative, Dongola, makes this Illinois springtime even more cativating. She's a student of Shawnee Community College of near Ullin. The growing college is served by the Dongola cooperative.

—Photo by Dick Haney.

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Cooperatives Face Huge Task

Where are Illinois electric cooperatives—and those of the nation—headed?

One man with definite ideas on the subject is David A. Hamil, administrator of the Rural Electrification Administration (REA). He spoke recently at a meeting of electric cooperatives and other leaders from a dozen or more southern Illinois counties. More than 220 persons attended. The meeting was sponsored by Southeastern Illinois Electric Cooperative, Inc., of Eldorado.

For one thing, Hamil said, the nation's nearly 1,000 electric cooperatives aren't going into oblivion. They can't afford to. They mean too much to Illinois and the nation. They play too essential a role in the nation's welfare, its prosperity, its continuing, expanding economy. They contribute too much to the nation's strength.

FOR ANOTHER THING, the job of the electric cooperatives in Illinois and the nation is far from finished. It may well never be finished. As far as one can see into the future today, electric cooperatives will have much to contribute to the nation.

No one denies, however, that the cooperatives have their share of problems. And these member-owned, independent business institutions, launched first in the mid-1930s, are studying their problems with all the wary determination of a hound feeling out a mountain lion: cautious, concerned, but above all, undaunted.

It's true, of course, that electric cooperatives have in their brief lifetime achieved near-miracles in providing electricity to millions of widely scattered consumers. There's a cooperative in Texas that serves "47-hundredths of a member" per mile of line. That's terribly expensive. In Illinois the most "densely" populated cooperative, Southeastern, serves only 4.6 members per mile. Commercial power utilities within the state serve in the neighborhood of 30 to 40 consumers.

But cooperatives live with this problem. They don't complain. They're more concerned today with rising costs of all kinds, particularly the skyrocketing cost of wholesale power, over which most have scant control.

Still, Illinois cooperatives are putting up a ferocious battle to hold the line, giving ground only with the utmost reluctance when there is no other alternative, but fighting back all the time. And they're doing a remarkable job.

ANOTHER PROBLEM: needs of electric cooperative members for power doubles about every 7½ years. This is slightly greater than for the industry as a whole. This means that whereas today, after a generation of building, the cooperatives have accumulated plant investments of \$7 billion, in just ten more years their investment must be \$14 billion.

It can be done. It will be done. REA loans (not grants) will help. So will the cooperatives' own Cooperative Finance Corporation (CFC). So will loans from the open money market, coming in part through the recently created CFC.

ORRIE V. SPIVEY, president of Southeastern, at the Hamil dinner pointed out that cooperatives, including Southeastern, have really amazing resiliency. They bounce back from adversity. They don't give up.

And Roger C. Lentz, Southeastern manager, demonstrated this in a brief report on the cooperative's progress. Southeasters started October 3, 1938 (with W. L. Bradley, a present director, as one of its incorporators). Its consumption of power has doubled and redoubled. By the end of 1943 it had assets of more than a million dollars. Today its assets exceed \$14 million—and by 1980 they should reach \$18 million.

They'll need these assets. They—and other representatives—have big jobs ahead.



Classes were never like this when Grandfather went to college!

Illinois Electric Cooperatives, like the good citizens they are, normally work closely with educational institutions within their areas.

And one outstanding example of this is the relationship existing between McDonough Power Cooperative of Macomb and that city's booming Western Illinois University.

Such cooperative leaders as Arthur H. Peyton, McDonough manager, Harlan Monroe, its president and other board and staff members are quick to aid the rapidly growing university in every practical way.

THIS MUTUAL respect is reciprocated by such university representatives as President John T. Bernhard and, to name only two others (from left, below), Dr. Reef Waldrep of the Journalism Department and Assistant Geology Professor Francis Birch.

President Bernhard observed recently that McDonough Power and its representatives "have established an enviable record of providing dependable service for our university farming residence.

"Because of this highly satisfactory working relationship, we at Western have no doubt that we can expect a continuation of the same fine service for our new swine evaluation facility and animal science laboratory at our Agricultural Experiment Station."

PEYTON in a recent interview lauded the university, its staff and its student body.

"The university," he said, "is genuinely interested in the betterment of this entire area, as is our cooperative. They are always willing, even anxious, to help.



and Co-op Work Together

"We are particularly impressed with the students and with the educational standards of the university. Students come to Western to work and to learn. They do both. They have fun, also, but they work hard."

M. JOSEPH GAGIE of the university staff calls Western "truly an institution in transition."

Ten years ago the student population was 2,778. In 1965 it had leaped to 6,094. And in 1970, 13,247 students enrolled for the fall quarter.

And what of the future? "Depending on continual review of enrollment ceilings imposed by the Illinois Board of Higher Education," Gagie said. "WIU has projected an enrollment of well in excess of 20,000 students by 1980.

"All of this anticipated growth will be at the upper division (junior-senior) and graduate levels since Western's lower division (freshman-sophomore) total will not exceed the 1970 fall quarter total of 7,600 students," Gagie added.

Students come from 26 foreign countries, 41 states and 95 of Illinois' 102 counties this year. Approximately 75 per cent come from 16 Illinois counties, with the heaviest concentration in the Chicago metropolitan area. McDonough county ranks third in the number of students, however.

MORE THAN 50 per cent of Western's students are enrolled in teacher education, undergraduate and graduate.

It is in this area especially that Western hopes to expand its graduate offerings.

The Illinois Board of Governors of State Colleges and Universities last fall authorized a study to determine the need for Western to offer a baccalaureate program in nursing. The university is awaiting the report.

Western's service record to the region is impressive. It was the first institution to offer an extension class in Illinois—in 1911, 12 years after its creation.

This spring Western offers extension courses in 18 communities, plus the Quad Cities.

WESTERN's COLLEGE of Business has conducted management and development institutes in Quincy, Galesburg and Macomb.

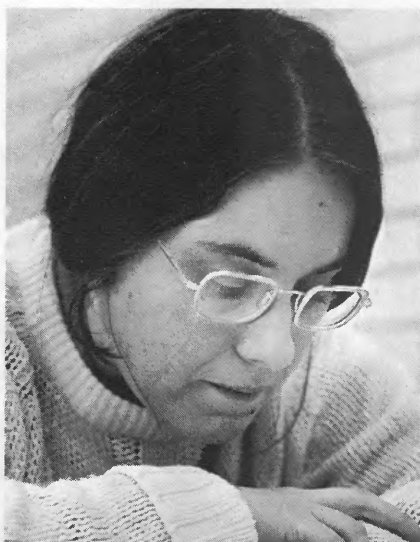
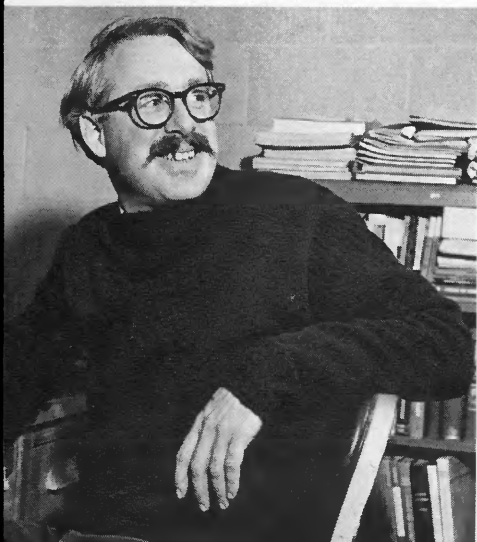
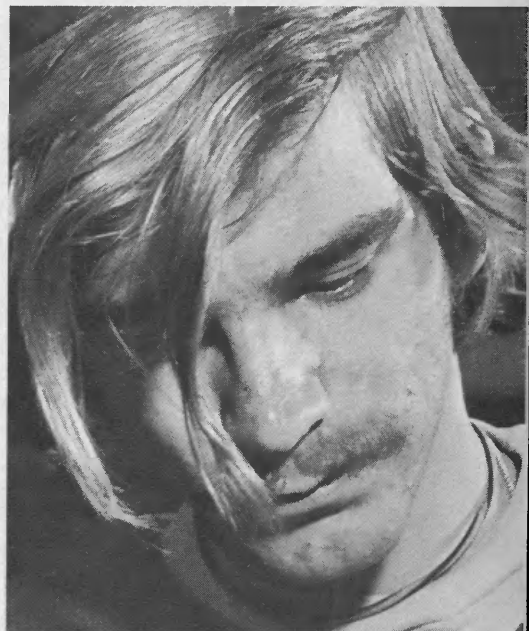
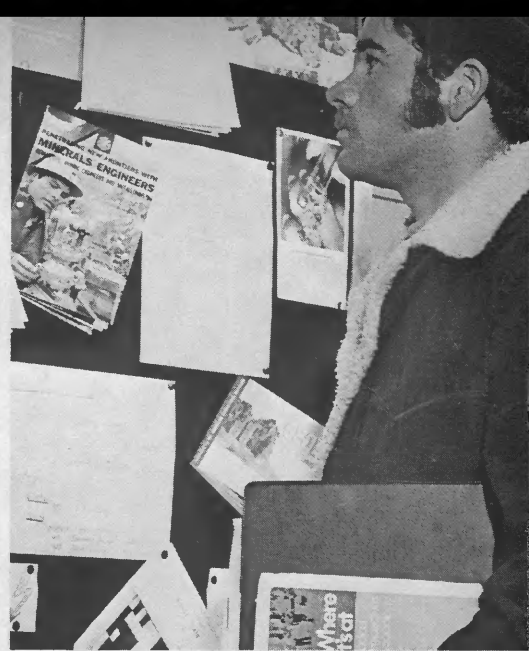
Graduate assistants in physical education provide certified instruction for elementary school children in Canton and Macomb.

Western is the only residential campus in Illinois offering a baccalaureate program in law enforcement administration. There are currently more than 150 majors, including 15 girls, in the two-year-old program.

And did you know that Western's department of English currently has more undergraduate majors than any public or private university in Iowa, Illinois or Indiana?

This is, indeed, an age of change ... and Western truly is a comprehensive regional university in transition.

And you can be certain that McDonough Power Cooperative with members in McDonough, Warren, Hancock, Henderson, Schuyler, Knox and Fulton counties, is supporting the transition enthusiastically.





Raymond C. Weiss, right, of Illini Electric Cooperative, begins tour of all-electric modular home.

Modular Firm Advocates All-Electric Home Concept

"Over the long run home buyers will save money with all-electric living and that's what we're emphasizing in our modular home business. We're enthusiastic about electric heating and we want our customers to enjoy the comforts given by all-electric homes."

So said John R. Fritzen, regional manager of the Urbana-based Davis Homes, a division of Weil-McLain, as he discussed benefits of all-electric modular homes with Raymond C. Weiss, staff assistant, Illini Electric Cooperative, Champaign.

HOME DEVELOPERS are optimistic about all-electric homes and most are coming rapidly to share the views of Fritzen. Throughout the various areas served by Illinois electric cooperatives, other modular home firms, conventional home builders and mobile home dealers are noting an increasing awareness of electric heating. More and more people are asking about, and wanting, all-electric homes.

Many residents on Illinois cooperative lines, Weiss said, are converting to electric heat. Many others are asking qualified cooperative personnel about the advantages of electric heating.

Presently, extra exposure is being given to electric heating through reports of cooperative managers, newsletters, magazine and newspaper articles, meetings, and—most of all—satisfied users.

THERE IS A NEED, Fritzen commented, for public education concerning the safety, conveniences and advantages of electric heat. As with any new product or innovation, people have to accept it; in order to accept it, they must know the facts about it.

"Many times," he added, "we find that it takes us longer to sell a customer on electric heating than it does the modular home, which is built in completed sections and then the sections connected at the building site. We train our salesmen in the advantages of electric heating and all-electric living. Even with the extra selling effort involved, we're going to remain 100 per cent behind our convictions regarding all-electric homes. We believe in them."

And Fritzen, a real estate broker, knows what he's talking about. For 15 years he built and sold convention-

al and manufactured homes in the Champaign-Urbana area. For six consecutive years he had an annual sales record of over \$1,000,000. He is a member of the National Home Builders Association (NHBA) Million-Dollar Circle. He is a past president of the Champaign-Urbana HBA and has been a director for both the Illinois HBA and the NHBA.

Recently he was named head of a pilot program to market all-electric modular homes. When proven successful, Davis Homes will expand similar operations to other parts of the country where there are indications of strong development and growth trends.

"Presently, we're buying empty lots in several rural communities," Fritzen commented. "These lots are made available for home sites and in some instances we erect a modular home on a location before the home is sold."

People owning land, or wanting to move to the country can purchase a modular home and set it on their own lot.

MAJOR ADVANTAGES of electric heating, Fritzen stressed, include lower maintenance costs, lower construction costs, additional living space and—with the exception of water—one-utility hook-up.

Insulation is, he added, the factor effective in electric heating. The sure way to have comfortable and convenient electric heat is to follow recommended insulation standards.

"Our modular homes, which vary in price from \$14,000 to \$34,000, are equipped with baseboard heating units, six-inch ceiling insulation, four-inch sidewall insulation, and two-inch floor insulation," Fritzen pointed out.

"With an all-electric concept, we provide an economically-priced home that compares with higher-priced conventional homes."

Regarding the future of modular homes, Fritzen said:

"For years the home industry has been faced with higher retail prices because of building supplies and labor costs. Because of the attractive price of modular homes, people are as receptive to modulars as they were to mobile homes when mobile homes helped in providing economical housing. Now modular homes are an important answer to the housing problem. Our modulars are approved for FHA and VA loans. The homes also meet the requirements of plumbing and electric codes."

"In fact," Fritzen concluded, "once a modular is set in place, we consider it another piece of real estate and an important segment of the housing industry."

Electricity Speeds Eggs To Market

How fresh can an egg be when purchased in a supermarket in a metropolitan area?

Would you believe that a grocery chain in the Chicago area can—and does—offer a dozen eggs within 18 hours from the hen's nest? And at the rate of more than 13,000 dozen per day?

That's the production rate of the Iroquois Egg Farm at Donovan, southeast of Kankakee in Iroquois county.

Served by Eastern Illinois Power Cooperative at Paxton, the egg farm is now in full production turning out Grade "A" and "AA" eggs at the rate of a semi-trailer load a day! This is automation at peak performance. The farm has only 38 employees.

Production of this magnitude requires 300,000 chickens laying on a 7-day 52-week basis.

C. M. ANDERSON, electrification adviser for Eastern, said the installation is one of the largest power users on the cooperative's lines. The automation equipment uses 450 electric motors (mostly 1/2 and 1/4 h.p.) and a 25 h.p. motor to distribute feed.

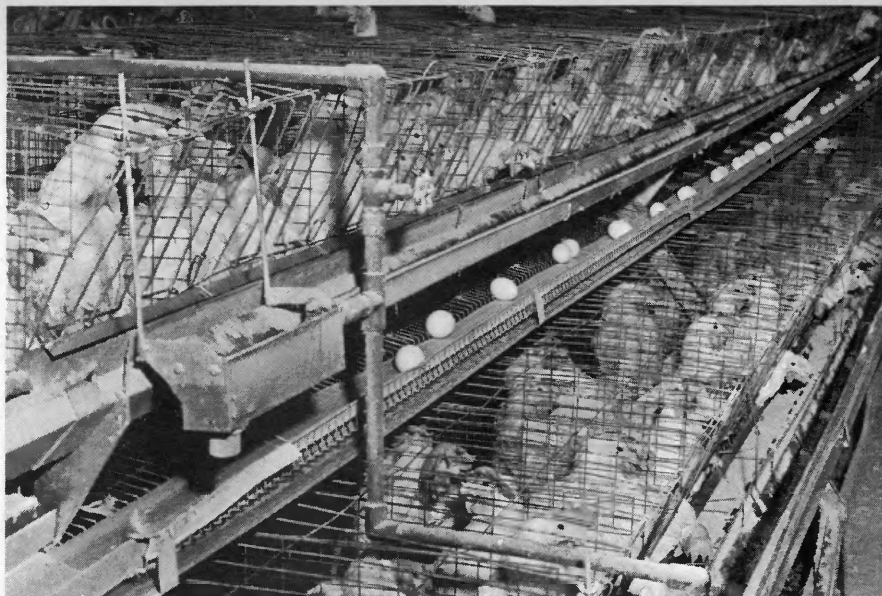
Almost all the employees are from the Donovan area. Operating manager William Shaffer and general manager Robert Miller, however, are veteran company personnel.

All production is used exclusively by the Jewel Company outlets in the Chicago and Cook county area.

The egg complex occupies a 14-acre site on a 312-acre farm. Six buildings, each 820 x 40 feet, house 50,000 chickens each, a total of 300,000.

Some idea of the magnitude of the project can be gained from the feed requirements. Each building uses an average of 4,500 gallons of water daily, a total of 27,000 gallons. Thirty-five tons of formula feed are used per week per building, more than 200 tons!

SHAFFER said some of the feed is produced on the surrounding 270 acres of cropland but this lasts for only a few weeks each year. Supplementing the farm feeds requires another facility some distance away.



A small part of the 300,000 layers which produces vast numbers of eggs daily at the Iroquois Egg Farm near Donovan.

Electricity makes possible efficient operation of huge egg complex. Production manager Jerry Morsch and C. M. Anderson inspect some of the power controls.



Some 125 tons of fertilizer produced each week at the egg farm is used on adjoining croplands. Shaffer said the company purposely bought "poor" farmland so that the fertilizer production could be used to good advantage. The land will be treated for five years before the disposition of the fertilizer has to be reviewed.

AUTOMATIC EGG gathering takes place twice a day.

As eggs are laid, they are gently propelled into moving belts from both ends of the buildings. It takes an egg a half hour from the most remote point to reach a central collection station.

As they converge at the collection area, eggs are channeled into slots for the final trip to the packing room. En route they are washed and scrubbed by automatic machines, then guided carefully through a series of temperature reduction units. As they emerge they are a cool 50 degrees. They are candled and graded into six sizes.

Automatic egg "handling" ma-

chines lift six eggs at a time and spot them in fiberboard cartons. Then on to boxes and the cold storage area.

Production at the Iroquois plant began in August 1968 and full automation was achieved in December 1968.

The care and feeding of 300,000 chickens, keeping them healthy and happy, is no small chore, according to Shaffer. Controlled ventilation is extremely important as are temperature and humidity conditions. The plant is practically odor-free and immaculately clean.

DENNIS L. TACHICK, manager of Eastern Illinois Power Cooperative, was enthusiastic about the new agri-business facility and the opportunity to furnish the electric power.

"Everything in the plant is electric," Tachick commented. "This includes heat control and air conditioning as well as the sensitive automatic controls system. Keeping six huge buildings clean and wholesome

(Continued on page 14)

Stonington Ge

After almost 70 years of operating their own municipal power plant—and doing a good job of it despite mounting problems—the village of Stonington has turned to Shelby Electric Cooperative for its electric energy.

Agreement on a contract for purchase of the municipal distribution system by the cooperative at Shelbyville was reached at a village board meeting April 5.

The decision was unanimous on the part of both the village board and members of the cooperatives board of directors, headed by LeRue Tice of near Shelbyville. The purchase price was not disclosed. Some details are still being worked out.

Under the agreement, Stonington retains ownership of its municipal generating plant. The cooperative, however, already has completed construction of a new power supply line to Stonington from its own substations. This eliminates the need for continued operation of the generating system. It will be disposed of by the village board.

“WE BELIEVE this new agreement is definitely in the best interests of all the residents of Stonington—and of all members of Shelby Electric Cooperative, W. L. Walker, cooperative manager, said in announcing the purchase.

“Stonington has in recent years outgrown the capacity of its plant, parts of which are quite old. This has resulted in numerous power interruption that have been inconvenient and expensive for Stonington residents and businesses.

“We expect to greatly improve the quality of service to the community.”

The cooperative’s new power line to Stonington will make available completely adequate supplies of power from Shelby’s wholesale supplier, Central Illinois Public Service Company.

STARTING SOON, the cooperative’s skilled workmen will completely rebuild the distribution system serving Stonington. The new system will carry 7,200 volts instead of the 2,400 available previously. This alone will provide better service.

Rebuilding the distribution system may require as much as 12 months, or longer. Every pole, every mile of line and every transformer will be removed. They’ve served their purpose over many long years. Now they will make way for a “new generation” of highly efficient equipment.

Detailed engineering studies were launched by the cooperative almost immediately after the April 5 purchase. They’re necessary in order to make sure the new distribution system will be as effective and dependable as is humanly possible.

Work of rebuilding the system will be under the immediate supervision of Lewis Houston, line construction foreman and a veteran of more than 22 years of service with Shelby Electric Cooperative.

SHELBY ELECTRIC for years has maintained a cooperative crew in Stonington itself. Gale Beck is the crew lineman; Ervil Milliman is the groundman. They are long-time residents of Stonington. They are, Walker said, highly skilled, highly trained individuals. And each has a tremendous pride in his “home town.”

“It’s a great town,” Beck told an Illinois Rural Electric News representative. “It’s growing. It has a



Old poles, old lines and old transformers throughout the thriving village of Stonington, near Taylorville, are to be replaced with a completely new distribution system—by Shelby Electric Cooperative, which henceforth will serve the town.

Co-op Service

great civic pride—and a great future. I wouldn't want to live anywhere else."

It's also a beautiful town of 1,076 residents, near Taylorville, with beautiful homes, fine streets, fine schools, churches, businesses, friendly people—and a remarkably attractive street lighting system.

Shelby electric has signed a contract to operate this lighting system which includes 110 mercury-vapor lights. They're relative new. The community will continue to enjoy this outstanding system.

THE COOPERATIVE long has served the rural areas surrounding Stonington. Now it will provide Stonington itself with abundant power—power for domestic needs, for present business needs, and to adequately meet requirements of new businesses coming into the vigorous community.

It isn't easy to operate a very small municipal system in this age of soaring demands for dependable electric power. Walker lauded the citizens and officials of Stonington for their past achievements in this field.

But as power demands increased, as new strains were placed on the plant that began operating about 1902, and as labor and equipment costs increased, the strain began to show.

Walker estimated that for some years the municipal system had been unable to pay its own way. This affected the overall efficiency of power service.

TICE, the cooperative's board president, pointed out that the new cooperative-Stonington agreement will strengthen both the cooperative and the town.

Shelby Electric, he said, long has enjoyed a solid reputation as a "good citizen" of the areas it serves. This will be increasingly true in the case of Stonington.

"Stonington is, in effect, obtaining a new and vigorous 'citizen,' one vitally interested in the community's welfare and economic progress," he asserted. "Stonington is a growing, progressive town. We cooperative members wish to help. We intend to promote the best interests of the community in every way we reasonably can. You may be sure we're concerned with Stonington's future."

SHELBY ELECTRIC is regarded by experts as one of the leading strong, effective, well-managed and extremely capable electric cooperatives of Illinois.

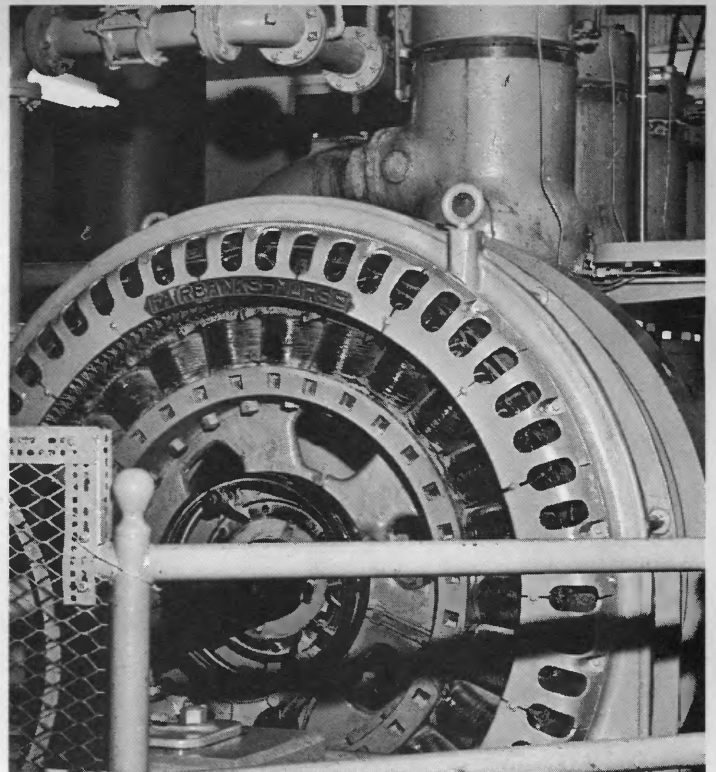
It serves some 6,350 member-owners living in parts of Shelby, Christian, Montgomery, Cumberland, Moultrie, Effingham, Fayette and Macon counties. Its new arrangement with Stonington will add more than 400 meters to its lines. Stonington users will become members of the cooperative. They'll be part of this strong organization. They'll be invited, even urged, to attend annual cooperative meetings.

They, like older members, are part owners of the Cooperative. It belongs to them—and it will be intensely interested in their welfare and prosperity.

"All of us will benefit by this new arrangement," Walker said. "We welcome our Stonington friends into membership of the cooperative."

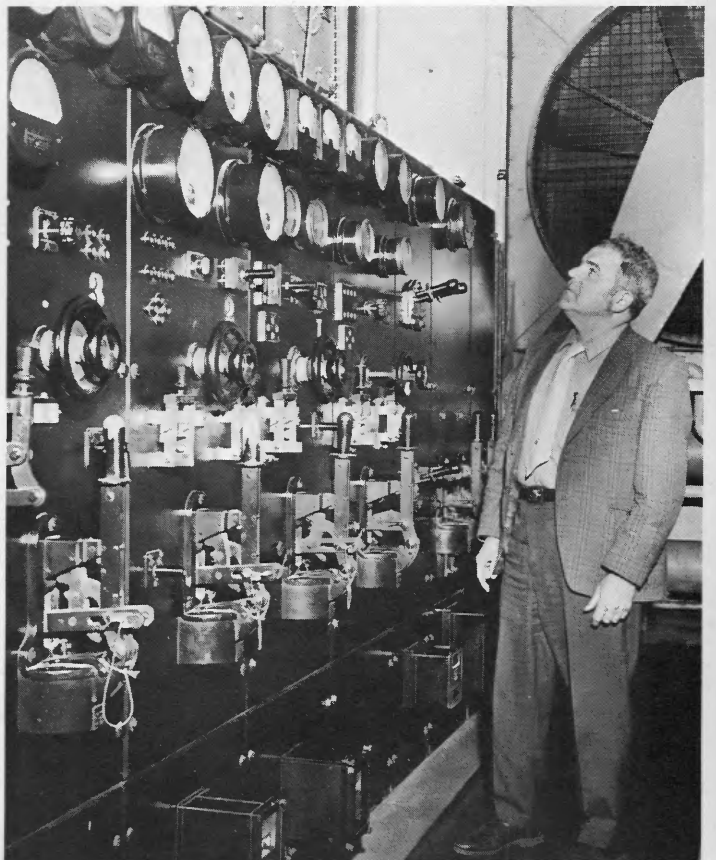
MAYOR DeMICHAEL and other members of the Stonington village board apparently share in general the views of Shelby Electric leaders.

They did not enter into the agreement casually. They obtained independent counsel. They had economic studies made. And they studied all available data long and carefully.



Want to buy an old—but very good—generator? Stonington no longer needs this one. The town has arranged for Shelby Electric Cooperative to provide its electrical power.

President T. W. DeMichael of the Stonington village board looks over the old, old switchboard at the town's municipal plant. The plant started operation in about 1902. It rendered yeoman service. Now its giving way to 1971-era equipment.



Are You Sur

You might call her the Grandma Moses of Illinois. Some people do.

But of course Mrs. Flora Masten, 74-years-young, of near Tallula, has many years to go before equalling the record of New England's Anna Mary Robertson Moses who started painting at 76 and died a quarter-century later shortly before Christmas, at 101. She painted industriously for all those 25 years.

It's doubtful that Grandma Moses had more fun than Mrs. Masten who started her painting 16 years ago and still is going strong, and getting better all the time.

IT ALL BEGAN when one of her daughters gave her a "paint by number" kit for Christmas.

"It was fun and served the purpose of whetting my interest in 'real art,'" Mrs. Masten recalled in an interview. "But there was something missing. I guess you might call it personal satisfaction and creativeness.

"So I contacted an art teacher in Petersburg and started to learn. There was an art class in progress and because the students were younger I hesitated to try—but I did.



Mrs. Flora Masten of near Tallula displays one of her most prized paintings.

You, too, may have the latent talent to produce beautiful paintings such as these. And you're never too old to start. It takes work, but Mrs. Masten says it's also lots of fun.



You Couldn't Become a Painter?

"I attended classes for two winters and then went four summers to an advanced class. It was great and I loved every minute of it."

SHE MANAGED her painting in addition to daily housework and looking after her husband and son. The elder Masten is retired and the son manages the 100-acre farm on which they live.

The Mastens are members of Menard Electric Cooperative of Petersburg. They also have four daughters, all teachers, and are the proud grandparents of six—at last count.

Mrs. Masten has pushed her art career into several media including charcoal, oil, watercolor and pencil.

Several of her paintings have been exhibited at the Menard county fair

and elsewhere. One oil took a prize at the Illinois State Fair. Mrs. Masten is good. She has sold many sketches and paintings.

DOES SHE RECOMMEND her hobby to others, young and old? Of course!

"It is richly rewarding," she says, "but it does take time and patience which most of us have in later life. There are plenty of art shops and art classes where a beginner can get help and instruction in a variety of art forms."

Mrs. Masten says many public schools have adult education classes with small tuition fees and sometimes with no fees at all.

"There's unlimited opportunity for expression in art," this lively painter says. "I hope the readers of Illinois Rural Electric News will find encouragement in my efforts."

"Painting is fun, no matter what your age, from childhood on. You need not be a genius. Few people are. But I can think of no recreational activity that provides so much pleasure, even delight, for many, many people."

AND WHAT WILL you paint? There are subjects everywhere.

Mrs. Masten lives in the historical Lincoln area near New Salem. Her home is bright and full of scenes from the district. In pleasant weather she goes often to a nearby covered bridge. The restored buildings of New Salem are her frequent subjects.

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Giving serious attention to budget figures are, from left, Thomas H. Moore, general manager, AIEC; Robert F. Zook, president, Athens, and Edward C. Timpner, secretary-treasurer, Pinckneyville.

Board Members Are Dedicated To Solutions

Members of the board of directors of the Association of Illinois Electric Cooperatives devote many hours to the problems and issues confronting electric cooperatives and the rural areas which they serve.

Directors arrive at worthwhile and constructive decisions through a study of financial figures, factual information and related discussions.

The photographs depict board members in action as they study next year's budget.

Charles R. Sanders, Sullivan, director from Coles-Moultrie Electric Cooperative, takes notes.



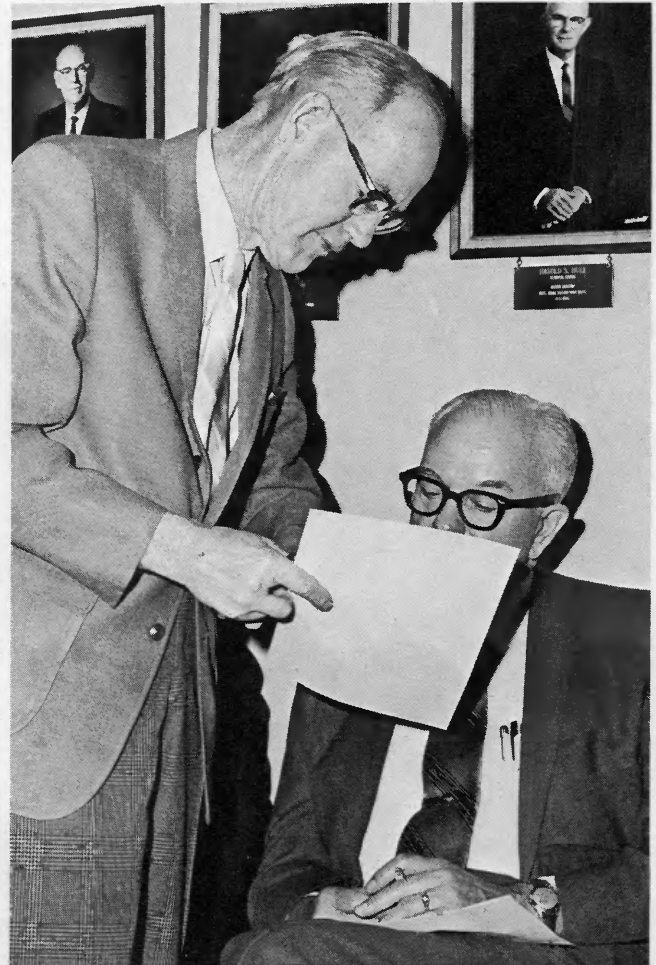
Several members of the 30-man board of Association of Illinois Electric Cooperatives.





Engrossed in the proceedings are, from left, Floyd Hughes, Canton; Max S. White, Chrisman; Alva Mixer, Mendon and Yvonne Rhodes, AIEC secretary.

F. J. Longmeyer, Greenfield, discusses budget figures with S. R. Faris, manager of Illinois Rural Electric Co.



What's New?

• MiniGuard Lighting



A new 12-volt emergency lighting unit, known as the Exide Mini-Guard, was designed for low-cost protection by the Exide Power Systems Division of ESB Incorporated. The MG-2 unit will provide emergency light automatically and instantaneously when normal electric power is interrupted. An EMF-4 maintenance-free sealed lead-acid battery of low-cost calcium alloy requires no maintenance of any kind when properly connected to Mini-Guard's built-in solid state electric charger.

• Ice Water or Cubes



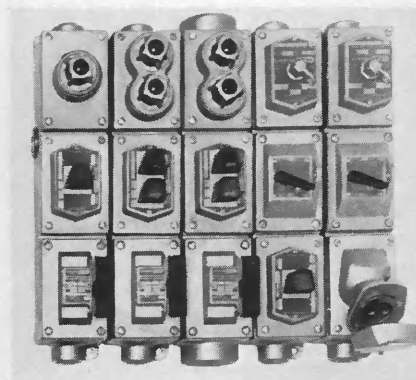
A new General Electric refrigerator offers a handy on-the-door dispenser which automatically delivers ice cubes or chilled water at a touch. Called the "Americana" the side-by-side unit has a capacity of 23.5 cu. ft. with the freezer holding up to 295 lbs. The unit is available with or without automatic icemakers.

• Electromatic Tray



A new Electromatic serving tray with two temperatures—one for keeping foods in cookware at serving temperature and one for warming finger foods on the serving tray—has been added to the Corning Ware line of products. With its specially designed cord that allows the homemaker to change the temperature simply by reversing the plug, the tray retails for \$24.95.

• Multi-Gang Control



Crouse-Hinds Company has announced modular bodies for assembly of multiple gang electrical control devices for use in hazardous areas. To allow for flexibility in construction planning, additions or rearrangements may be easily made on the job in any combination needed. Fifteen gangs are shown in the featured picture. Units may be ordered assembled as components.

Electricity Speeds Eggs To Market

(Continued from page 7)

is a monumental job and one that only electric service could accomplish with maximum efficiency."

Two wells, one on each end of the complex, supply the water needs of the area.

Shaffer said the need for mass production of eggs has been brought about by the phasing out of poultry and eggs by the nation's farmers. Egg farm automation also brings a better and fresher product to the nation's dining tables, he said.

While Iroquois Egg Farm is considered one of the biggest in the midwest, Shaffer said a 2 million chicken complex is producing in California and another 1½ million chicken farm is in operation at Humboldt, Iowa.

PRODUCTION MANAGER of the huge egg plant is a cheery young man, Jerry Morsch, on whose competent shoulders responsibility rests lightly.

"You should know," he observed, "that of our 38 employees, 17 are high school students working on a part-time basis.

"You should also know that they're wonderful youngsters. After working with them, I'm in no mood to hear spiteful criticism of the younger generation.

"These high school students virtually run our plant on week ends. They do a great job. They take responsibility well. They have initiative and good sense. And good brains.

"One of them, Wyona Peerbolte, recently won a \$4,000 college scholarship. Several are National Honor Society scholars. Fifteen of the 17 are girls. They're earning money, some of which will go to help pay college expenses when the time comes. They're also gaining broad experiences that develop maturity and that will benefit them in the years ahead."

Morsch paused, smiled thoughtfully to himself, then added: "If you think I'm extremely proud of these young people, you're quite right. But our older workers, all from this general area, are great people also."

Tachnick, Anderson, President Howard Taylor of the electric cooperative, other directors and other area leaders knew this all along.

Southern Illinois Electric Exhibits Attract Thousands

They came by the thousands, men, women, high school students, particularly members of Future Farmers of America chapters—to see the latest in electrical products for the home and farm on display at tenth annual Southern Illinois Farm Materials Handling Show at Nashville.

And during the three-day event they must have asked scores of thousands of questions of power use advisers, home economists, factory representatives and other particularly knowledgeable individuals.

That's typical of these annual events and the 1971 show was the largest of the entire series. It was sponsored by power suppliers, including electric cooperatives in



Mr. and Mrs. Richard Pfeifer at Intertherm, Inc., exhibit. He is an Intertherm area representative.

Southern Illinois, Central Illinois Public Service Company and Illinois Power Company. Also by the Illinois Farm Electrification Council, the Cooperative Extension Service, University of Illinois, and the School of Agriculture, Southern Illinois University.

IVAN HOLLER of Wayne-White Counties Electric Cooperative, Fairfield, general chairman of the show, said interest this year probably was more intense than in any other such show sponsored by the group.

A record-breaking 62 exhibitors participated this year, said Darrell Decker, member service representative, Tri-County Electric Cooperative, Inc., Mt. Vernon. Decker headed the committee on exhibits.

JOHN F. KOBER, director of member services, Egyptian Electric Cooperative Association, Steeleville, observed that this year's exhibits

were particularly well presented with a view of informing visitors as quickly and efficiently as possible.

Two information booths had been set up in all-weather buildings. One was manned by commercial power suppliers. Electric cooperatives staffed the other.

Throughout the exhibit visitors stopped indiscriminately at the booths, asking questions about new and better uses of electricity. Often the questions were specific, detailed and technical. The answers came quickly and surely.

ONE THING the show disclosed: Many people have scant idea as to the cost of electric heat.

Almost everyone, it seems, desires the comfort, cleanliness, dependability and other joys of electric heating. But a surprising number feel it's "too expensive."

One exhibit demonstrated this. How much would it cost, visitors were asked, to heat the all-electric 1,456-square foot, two-story home built near Fairfield by Mr. and Mrs. William Bennett.

Some guesses were in excess of \$900. Several ranged between \$350 and \$400.

The actual cost was \$155.23. Few guessed under this amount.

The winning guess by Mrs. Irene Williams of Enfield r.r. 1 was \$155. She won an electric blanket. Leslie Brammeier of Oakdale was second with \$154.75. He won an electric can opener.

SO, VISITORS decided, electric heat isn't so expensive after all. But power suppliers don't really "sell" electric heat on the basis of economy, although this is very much a factor.

Most people buy it because of its other important advantages.

Kober reported that "A really impressive thing was the number of people who already have electric heat. We talked with hundreds of individuals. We heard no adverse comments—not one. People were proud, and rightly so, of their electric heat and the remarkable comfort it provides."

THOMAS B. WILLIAMS, power use adviser of Southern Illinois Electric Cooperative, Dongola, a long-time cooperative leader, expressed delight with the interest visitors showed in various exhibits.

"One of the most popular," he said, "was the beautiful all-electric

modular home set up by J. C. Smith Construction, Inc. of Godfrey.

"I'm told that 1,000 persons visited the home on the first day. More than 2,000 visitors were reported on the second, and I don't have the figures for the final day."

COMMERCIAL and cooperative home economists as well as extension service personnel answered thousands of questions by women interested in electrical appliances and other household products on display. Men, too, evidenced interest in the latest electrical time and labor savers for the home.

Sixteen cooperatives participated in this year's Materials Handling Show. It was a record.

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GOOD OLD DAYS

An elderly gentleman was driving down the street in his antique car when a traffic officer signaled him to stop. Timidly, he pulled over to the curb.

"It's all right," said the veteran officer, "relax. I just want to see what it feels like to put my foot on a running board again."

* * *

BEAT THE FRIZZIES

Two of a woman's neighbors were discussing the home permanent she'd rather ineptly given herself. "What do you think of it?" asked one. "It looks," replied the other, "like her parole came through just as the switch was pulled."

* * *

A HAIRY SITUATION

The other day the boy was invited to join some of his mother's friends at an informal luncheon party. "Look, Mom," he suddenly announced, "there's a hair in my soup!" The mother turned a bit pink. "It's just a crack in the plate." The boy was quiet for a moment. Then he piped up again: "Mom! Look! I just put the crack on the tablecloth!"

* * *

HUH?

Proud mother: "Yes, my son's in aviation now. He makes the nut that screws on the bolt, that holds the plate, that covers the recess, that contains the thingamajig, that works the gadgets, that tells the pilot where he is in the dark."

* * *

SO-LOW OR SO-LONG

When my neighbor's little boy told me he had gotten a dachshund, I jokingly asked, "What kind of dog is that?" He answered, "He looks like half-a-dog high, and a dog-and-a-half long!"

* * *

100 PROOF

"I reckon old man Tuttle has been makin' another batch of moonshine this week," remarked one mountaineer to another. "How do you figger that?" asked the other. "Well, his rabbits have been over here abusin' my coonhounds again."



J. K. Smith, Washington, addresses leaders of Southern Illinois Power Co-operative, Marion, at the organization's annual meeting.

Power Cooperative Coming up With Solutions to Problems

Some Illinois electric cooperative leaders remember them well—those early days when their member-owned organizations were being formed—and the experts were saying haughtily, "They can't last!"

But last they have—and today they face a new batch of problems as frustrating as any in the perilous "good old days."

Leaders of Southern Illinois Power Co-operative of Marion knew this full well not long ago when they met for their annual meeting in the Steelville, headquarters of Egyptian Electric Cooperative Association.

EGYPTIAN is one of the three distribution cooperatives that created the power cooperative back in 1948 at Dongola. The others are Southern Illinois Electric Cooperative, Dongola, and Southeastern Illinois Electric Cooperative, Inc., Eldorado.

These three buy their electricity from their own power cooperative and distribute to their more than 26,000 member-owners in 23 southern Illinois counties.

All four cooperatives have flourished. All four, like other businesses, face problems. And all four are solving them, largely through grit, determination, careful management and the loyalty of their members.

RAY WEBB of Tunnel Hill, president of the Marion generation and transmission cooperative, said in his annual report: The Marion coopera-

tive probably is in the best position in its history to meet today's challenges.

Webb reported that the Marion organization has, like other businesses, "been caught in the greatest inflationary squeeze we have seen in our lifetime."

Contributing to the problems are four factors: higher taxes, wages, money costs and coal prices. The fuel costs are the largest single item affecting power costs.

THIS RECORD-SMASHING price squeeze, Webb said, will add up ultimately to higher priced electricity. This is not, of course, unexpected. But, the cooperative president added, electrical power still is the greatest bargain around. And the costs of other, less desirable, sources of power and energy have been and are continuing to rise.

In the case of cost of power charged by the electric cooperatives, there will be no run-away increases. All four cooperatives, distribution and generation alike, are fighting tooth and nail to hold the line.

They're also continuing their well-established tradition of doing everything in their power to advance the economy of the areas they serve.

"We're certain Southern Illinois is a finer place today because of the cooperatives and the influence and efforts of their members and leaders," Webb said.

"We are particularly proud of the Lake of Egypt and its success in rural economic development," he continued. The lake, a 2,300-acre beauty, was built in conjunction with the operative's generating plant near Marion.

It has become "the greatest boost to the recreational development of southern Illinois since Crab Orchard Lake was created," Webb said.

T W E N T Y - T W O subdivisions have been developed in the area by private business interests. They provide more than 4,000 building lots.

And this year the Lake of Egypt Water District plans construction of a million dollar project to put city water around the lake.

Power demand by cooperative members continues its steady growth, said L. Thomas Clevenger, manager of the Marion cooperative, in his annual report. For each system the growth increased by nearly 9 per cent last year. Clevenger's report was presented by Ora M. Snider assist manager.

Clevenger asserted that Southern Illinois Power Co-operative will do everything necessary to meet increased load demands. Its extended load forecast indicates the cooperative should add greater generation capacity by about 1978. It will also need to purchase some power from out-side suppliers, probably as early as 1974.

MILO THURSTON of Pulaski, secretary-treasurer of the cooperative, reported that the cooperative is in quite sound financial condition.

And J. K. Smith of Washington, governor of the National Rural Utilities Cooperative Finance Corporation (CFC) reported that this recently created institution is making substantial progress.

CFC is owned by its more than 800 electric cooperative members. It is a self-help institution. It is designed to supplement loan funds traditionally available through the Rural Electrification Administration (REA). But these federal loan funds, all repaid with interest, have been insufficient in recent years to meet growing needs of the cooperatives.

AT THEIR business session power cooperative representatives re-elected 11 of their 12 directors. The 12th, K. R. Douglas of Karnak, a long-time leader especially honored by fellow cooperative members, did not seek re-election. He is being succeeded by Glenn Tripp of Cobden.

Directors at their re-organization meeting elected R. S. Holt, Steeleville, president; Thurston, vice president and Webb, secretary-treasurer.

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(More Ads on Page 23)

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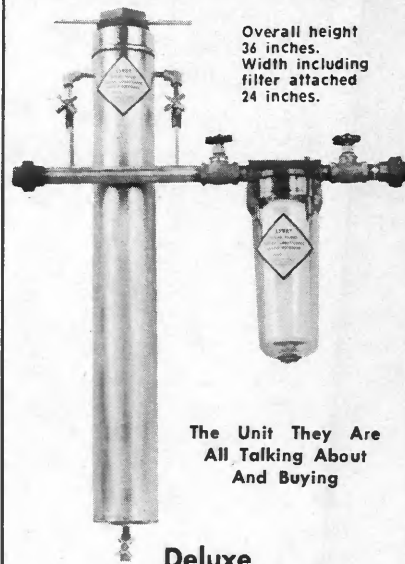
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HAM RING

- | | |
|-----------------------------------|---|
| 2 tablespoons butter | 2 cups ground cooked ham |
| 2 tablespoons flour | 1 hard-cooked egg, sliced |
| 1/4 teaspoon powdered dry mustard | 10 1/2 ounce can cream of mushroom or celery soup |
| 1 1/2 cups milk | |
| 2 eggs, beaten | |

Melt fat over low heat. Blend in flour and dry mustard; heat until bubbly. Add 1 cup milk slowly, stirring constantly over low heat until mixture thickens. Stir part of the hot mixture into the eggs; then stir eggs into the rest of the hot mixture. Remove from heat. Stir in ground ham. Pour into a greased 1-quart ring mold or greased custard cups. Place in a pan of hot water. Bake at 350 degrees until firm—about 40 to 50 minutes for ring mold, 30 to 35 minutes for individual cups. Garnish with hard-cooked egg slices. Serve with a sauce made by combining and heating the soup and 1/2 cup milk. (Makes 4 servings.)

YEAST BISCUITS

- | | |
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| 1 package yeast | 1 cup shortening |
| 1/4 cup warm water | 1 1/4 to 1 1/2 cups buttermilk, at room temperature |
| 5 cups sifted flour | 1/4 cup sugar |
| 7 1/2 teaspoons baking powder | |
| 2 teaspoons salt | |

Dissolve yeast in water. Sift together flour, baking powder and salt into large mixing bowl. Cut in shortening until mixture resembles coarse crumbs. Blend together 1 1/4 cups buttermilk, sugar and yeast mixture. Stir into flour mixture and blend well. If necessary, add more buttermilk to make a soft dough. Turn out onto lightly floured board or pastry cloth and knead gently 30 seconds. Divide dough in half; roll out each half 1/2-inch thick. Cut out biscuits with floured 2-inch round cutter. Place on ungreased baking sheet. For biscuit texture and flavor: bake immediately in preheated 400 degree oven 12 to 15 minutes, or until golden brown. For yeast roll texture and flavor: cover dough and let rise in warm place (80 to 85 degrees) 1 hour. Roll out, cut and bake as for biscuits.

ALMOND GREEN BEANS

- | | |
|--|--|
| 1 10 oz. package frozen French-style green beans | 1/4 cup slivered blanched almonds, toasted |
| 2 tablespoons butter or margarine | Salt and pepper |

Cook beans in boiling salted water until tender; drain. Add butter and almonds; toss until butter melts. Season to taste. Serves 3 to 4.

TUNA-ASPARAGUS CASSEROLE

- | | |
|----------------------|--------------------------------|
| 6 tablespoons butter | 1 1/2 cups grated sharp cheese |
| 6 tablespoons flour | 1 teaspoon Worcestershire |
| 1 teaspoon salt | 1 (13-oz.) can tuna fish |
| 1/4 teaspoon pepper | 2 cups cooked noodles |
| 3 cups milk | 2 pkgs. frozen asparagus |

Melt butter in saucepan, stir in flour, salt and pepper. Add milk gradually, cook until thick. Add cheese and Worcestershire. Layer tuna fish, noodles and asparagus in well-buttered 2-qt. casserole. Pour white sauce over all. Bake at 350 degrees until brown.

EGGPLANT PARMESAN

- | | |
|-------------------------|----------------------------|
| 1 eggplant, medium | 2 1/2 cups canned tomatoes |
| 4 cups dry bread crumbs | 1 teaspoon salt |
| 1 egg | Dash salt |
| 1 onion, chopped | 1 teaspoon sugar |
| 1/2 green pepper | 1 cup Parmesan cheese |

Peel eggplant, slice in 1/4-inch slices, dip in bread crumbs then slightly beaten egg (mixed with 1/2 cup water) and again in crumbs. Fry in cooking oil until brown. Saute onion and green pepper until soft; add tomatoes, salt, pepper and sugar. Cook until blended. Place eggplant in casserole in alternate layer with cheese and sauce. Sprinkle remaining cheese on top. Bake at 350 degrees 15 minutes. Remove cover and continue baking until brown.

HAM MOUSSE

- | | |
|---------------------------------|-------------------------------|
| 1 tablespoon unflavored gelatin | 1 tablespoon minced celery |
| 1/4 cup cold water | 2 tablespoons horseradish |
| 2 cups ground cooked ham | 1 cup whipping cream, whipped |
| 1/2 cup finely minced celery | |

Stir gelatin and cold water together. Set over low heat until gelatin is dissolved. Remove from heat, stir in ham, celery, parsley and horseradish. Fold in whipped cream. Put into a ring mold, place in refrigerator to set. Unmold when ready to serve. Fill center with Waldorf Salad (chopped apples and celery with nuts, mixed with mayonnaise). This makes a nice meal for the girls; a good way to use leftover ham.

GARLIC GRITS

- | | |
|-----------------------|---------------------|
| 2 cups grits | 4 eggs, well beaten |
| 1 1/2 cups water | 1/2 cup butter |
| 1/2 cup milk | Pepper |
| 2 rolls garlic cheese | Salt |

Cook grits in water until done. Add remaining ingredients. Pour into well-buttered casserole. Bake at 300 degrees 30 minutes.

PINEAPPLE TULIP CHEESECAKE

- | | |
|---|--|
| 1 (1-lb. 4 1/2-oz.) can crushed pineapple | 4 eggs |
| 2 (8-oz.) pkgs. cream cheese | Zwieback Crust |
| 1/4 teaspoon salt | Raspberry Glaze |
| 1/4 teaspoon almond extract | Pineapple slices and mint sprigs for garnish |
| 1 tablespoon vanilla | |
| 2 1/2 cup sugar | |

Drain 1 cup syrup from pineapple. Beat cheese with salt and flavorings until softened. Beat in sugar. Continue beating, adding 1 egg at a time, until mixture is very creamy and smooth. Beat in crushed pineapple. Turn into pan over baked Zwieback Crust. Bake at 350 degrees until set in center, about 30 minutes. Remove from oven and cool. Cover cake with Raspberry Glaze. Refrigerate several hours before serving. Garnish with canned pineapple slices and mint sprigs. Makes 12 servings.

ZWIEBACK CRUST: Combine 1 cup fine zwieback crumbs, 2 tablespoons sugar, 1/4 teaspoon cinnamon and 3 tablespoons melted butter. Pat over bottom of 8 or 9-inch spring form pan. Bake at 350 degrees 8 to 10 minutes, until very lightly browned.

RASPBERRY GLAZE: Defrost 1 (10-oz.) pkg. frozen raspberries completely. Strain, pressing fruit through sieve; discard seeds. Combine juice and pulp with 2 tablespoons sugar, 1 tablespoon cornstarch and 1/2 teaspoon grated lemon peel. Cook, stirring until mixture thickens and clears, about 5 minutes. Remove from heat, add 1 tablespoon rum (optional) and cool completely.

PINEAPPLE SHERBET BOUQUET SALAD

- | | |
|--|-----------------------------|
| 1 (3-oz.) pkg. lemon gelatin | Halved strawberries |
| Water | 1 (6-oz.) pkg. lime gelatin |
| 2 tablespoons lemon juice | 1 pint lime sherbet |
| 1 (1-lb. 4 1/2-oz.) can pineapple slices | |

Dissolve lemon gelatin in 1 1/2 cups boiling water. Add lemon juice. Pour half of gelatin in 8-cup mold. Chill until set but not firm. Cool remaining gelatin. Arrange design of drained pineapple slices and strawberries in set gelatin; cover with remaining cooled gelatin. Chill until set but not firm. Meanwhile dice remaining pineapple slices. Combine syrup drained from pineapple and 3/4 cup water. Heat to boiling; pour over lime gelatin and stir until dissolved. Stir in sherbet; cool when mixture begins to thicken, stir pineapple. Pour over set but not firm clear layer in mold. Chill 4 hours until very firm. Unmold. Garnish as desired with additional pineapple slices and whole strawberries. Makes 8 to 10 servings.

SPRINGTIME PINEAPPLE CAKE

- | | |
|--|--|
| 3 tablespoons butter | 5 halved maraschino cherries |
| 1/2 cup brown sugar (packed) | Pecan halves |
| 1 (1-lb. 4 1/2-oz.) can pineapple slices | 1 (1-lb. 3-oz.) package layer cake mix |

Melt butter over low heat in bottom of 6 to 8 cup ring mold (9-inches diameter, 2 1/2 to 3-inches deep). Tip mold to coat sides. Sprinkle brown sugar evenly in bottom. Arrange drained pineapple slices over bottom and around outer side of mold. Place cherries inside pineapple slices; arrange pecan halves around sides. Remove from heat. Prepare cake mix following package directions. Carefully spoon batter into mold, filling 3/4 full.* Bake at 350 degrees 45 to 50 minutes or until cake tests done. Remove from oven; let stand a minute or two, then loosen cake with spatula or knife. Turn out, upside down, onto serving platter. Serve warm with whipped cream, if desired. Makes 8 servings.

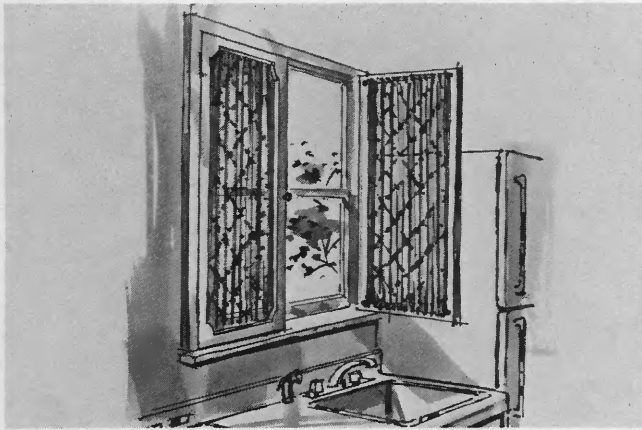
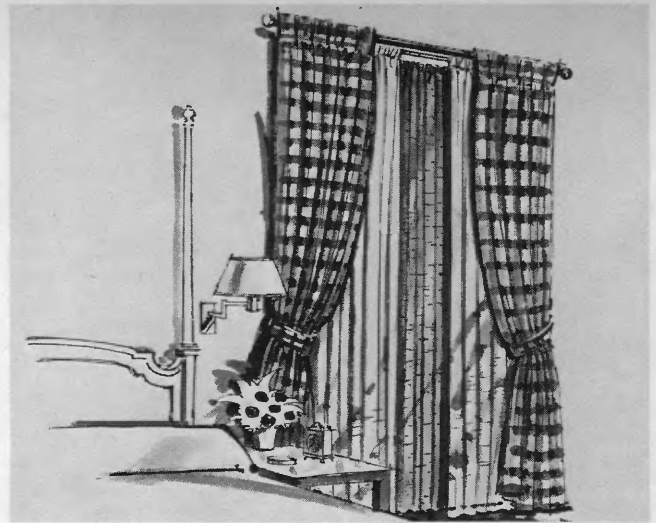
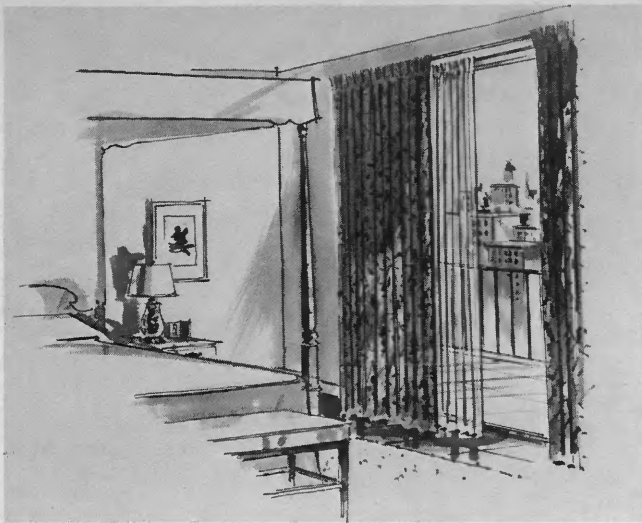
*Spoon remaining batter into paper baking cups, filling half full; bake 15 to 20 minutes.

BLOOMING PINEAPPLE CRUNCH PIE

- | | |
|---|----------------------------------|
| 3 Tablespoons butter | Whole or halved blanched almonds |
| 1/2 cup brown sugar (packed) | Pastry (basis 2 cups flour) |
| 1 Tablespoon water | Pineapple Filling |
| 1 (1-pound 4 1/2-ounce) can pineapple tidbits | |

Melt butter over low heat in 9-inch pie plate. Sprinkle brown sugar evenly over bottom and drizzle with water. Remove from heat. Arrange drained tidbits over bottom and around sides of pan in an attractive pattern. (Use remaining pineapple and syrup in filling). Arrange almonds in same way. Carefully line prepared plate with rolled out pastry allowing 1/2-inch overhang. Spoon in Pineapple Filling. Cover with pastry. Bring overhanging pastry edge up and over top. Flute edge to seal; prick top. Place pie on square of foil to catch syrup that might bubble over. Bake at 425 degrees 25 minutes or until pastry is crisp and browned. Remove from oven and turn out, upside-down, onto serving plate. Cool. Delicious with whipped cream or vanilla ice cream. Makes 6 servings.

PINEAPPLE FILLING: Combine reserved pineapple tidbits and syrup with 1/2 cup water, 1/2 cup sugar, 3 tablespoons cornstarch and 1/4 teaspoon salt. Cook, stirring until mixture thickens. Stir in 2 tablespoons lime juice, 2 tablespoons butter and 1/2 cup flaked coconut.



Where pollution is a problem, two-level treatment is the way to keep draperies looking younger longer (above left). Hang lining and fragile drape on separate rods. Puckering problems, through cleaning, are also ended. Change the season, using low-cost, unlined draperies—same lining.

Bedroom with a view, light by day, goes dark by night with three-layer treatment (above). Room-darker starts at glass-side. Middle layer is on a decorative rod. Light-proof and sheer layers hang on their own traverse rods.

Kitchen windows call for safety treatment. Flame fabric shirred on top and bottom rods, above open stove (left). Treated fabric resists water-spotting from sink, food stains from splattering. Fabrics available for the home-sewer.

Window wardrobes that work--

■ Too tall or too short. Too high or too wide. Too much light; too little view. Windows are perennially the most worrisome of the homemaker's fashion problems. And these days it's worse than ever. With more pollution outdoors, and more need for privacy in today's increasingly crowded countryside, dressing the window becomes more of a task.

Decorative drapes have a job to do. And getting it done takes a combination of imagination with modern fabric concepts. Do-it-yourself decorators are particularly fortunate. They can pick and choose the best among the many new ideas on the market, making a big fashion statement on a baby-size budget. Newest of all are fabrics treated for fire-resistance. Used as draw draperies flanking a wood-burning fireplace, or shirred curtains, held firmly in place with top and bottom rods, on a window within fluttering distance of a kitchen stove, the fabrics treated are an immeasurable boon for the safety-minded homemaker.

Pollution, too, is a growing problem—as airborne dirt and acids shorten the fresh, young life of a fragile face fabrics. To solve this one, smart decorators are relying on modern linings, with built-in protection qualities. Neatest trick of all: hang the lining separately from the face fabric. The rod closest to the window holds the in-

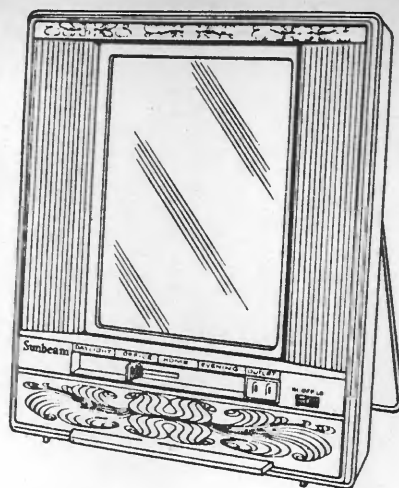
sulated lining; its ultraviolet screen and rain-no-stain finish minimize aging before the damage ever reaches the drapery. When the lining gets dirty, it comes down for a cleaning and quick rehang. The face fabric—always more fragile—hangs separately on an inner, room-side rod, so there's no need to remove and clean when the lining needs doing.

The two-rod trick is a good one to remember, too, for quick-and-easy seasonal switchabouts. To refresh a room in a hurry, without a big investment, leave the lining in place and just change the face fabric from a tweed to an inexpensive, unlined spring-in-bloom print. You'll be surprised what a difference the face-lifting makes. For a variation on the theme, start with a colored lining, then coordinate with decorative face panels in prints or stripes to match the lively look.

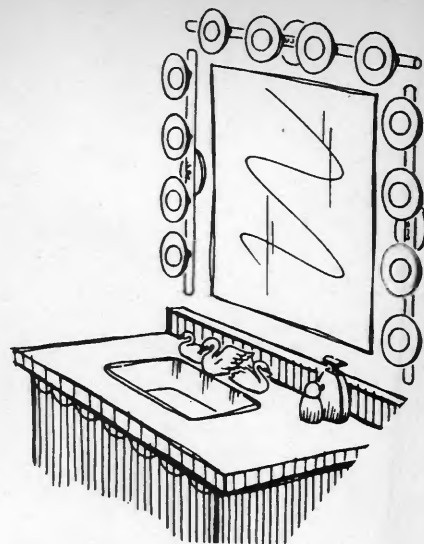
The same multi-layer approach is proving right for night, too. Blackout linings closest to the window, add sleep-inducing coziness to overly-light bedrooms, without the necessity of sacrificing anything by way of fashion. For the best-dressed look, top them with a traverse-draw sheer and coordinate tie-backs in pretty print. By day, draw back lightproof lining and enjoy the look of sheer fashion. At night, just pull the room-darkener lining closed, on its own rod, without disturbing the rest of the window treatment.



Incandescent ceiling fixtures can be surface-mounted, semi-recessed or recessed. A light color countertop softens and reflects light upward to be effective.



Multi-lighted make-up center changes lighting as your day changes. Office setting is fluorescent. Home is warm incandescent lighting. Evening is subdued. Mirror swivels for closeups.



Theatrical lighting is at home in your own bathroom nowadays. Incandescent strip fixtures around three sides of mirror gives well-distributed light on the face and on top of the head.

Brighten up the bathroom

■ Is your bathroom bright with light? From the morning rush hour through bedtime baths, this room is the family grooming center. Recent years have brought long overdue glamour to the bathroom and with it "right" lighting for the beehive of activities today's bathroom must serve.

The bathroom is used for much more than baths, showers, facewashing and toothbrushing. It's for brushing, shampooing and styling, touch-ups and tinting, shaving, putting makeup on and taking it off, "doctoring" cuts and bruises. Lighting is important for all of these activities. And it's easy to combine adequate lighting with a decorative flair.

Older bathrooms may be relying on one ceiling fixture with a small light over a mirrored medicine cabinet. Such a bathroom definitely needs to be updated light-wise. The results are better grooming and increased safety. Adequate lighting cuts down the risk of misreading medicine labels.

After deciding how much light is needed for the size of the room, determine what kind of fixtures you prefer. You can keep in mind the general decorating scheme of your home because bathroom light fixtures are designed to meet colonial, traditional, or modern decor.

The mirror is the focal point of grooming, so it's the hub of lighting for the room. There should be light sources on both sides of a mirror or medicine cabinet and on the face, head and neck.

Side-lighting for the mirror or medicine cabinet may be achieved in several ways. Wall lamps come in many styles to coordinate with the decor used. Recessed fixtures can be used. Mirrors can be framed with a row of shielded fluorescent lamps in a soffit or a fixture running the width of the mirror. Complexion lights are becoming more popular. There is a series of lights that surround the mirror—ideal for make-up.

With a vanity, counter top or wide shelf space, free standing light sources may prove helpful. There are stand-up mirrors with lighted frames. One electric hair curler set includes a multi-bulb mirror as part of the lid.

Ceiling light may be recessed or surface mounted with either a single unit in the center of a series of smaller bullet-type lights, spaced for greatest effectiveness. Recessed fixtures deliver a cone of light, the amount depending on the size of the units and bulb used. Surface-mounted fixtures will usually provide some side-light-

ing which diffuses in a bounce effect against the ceiling.

For soft, shadowless light throughout the room, have fluorescent tubes installed behind a ceiling a translucent panels. The panels lift out for washing.

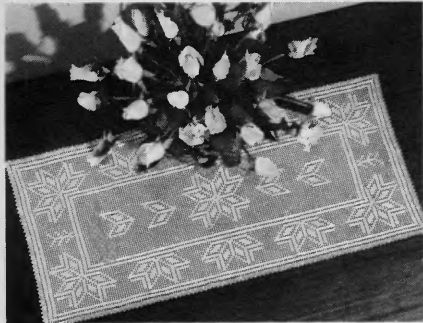
There are exhaust fans which remove odors, and excess moisture from the air, that fit into ceiling and are equipped with lights. These combinations are also available with a heating unit. Another ceiling installation provides a sunlamp.

While you're up-lifting the illumination in the bathroom, don't forget to include electrical outlets to accommodate the many modern grooming aids from electric shavers and hair dryers to manicure sets. Many older bathrooms have no plug-in facilities. It costs very little more to add them when wiring for new lighting fixtures.

Then with proper light fixtures and outlets installed, you can rejuvenate almost any bathroom with coordinated and washable paint, wallpaper, adhesive-backed tiles, fabric and carpeting. If needed, add new accessories such as towel bars, hampers or storage units. But do start refurbishing with good lighting.



1. Knitted Bunting for Baby



2. Filet Runner Contemporary



3. Knitted Blouse



4. Child's Dress



5. Buttoned Cape

1. It's a wonderful world when baby's in his bunting. It makes the perfect bundle for a ride or a visit. This lacy bunting is knitted in the feathery stitch. With attached hood, mitten sleeves and a zippered front, the garment is nicely snug.

2. The old art of filet crochet creates a modern masterpiece. This elegant runner looks right for contemporary furniture. Including a picot edge, the piece measures 12 x 26 inches. This is a hand-crafted gift that will be cherished forever.

3. For delicious dressing, wear your pants and skirts a la mode. Try one scoop of this sunny yellow pullover. The flavor is distinctly French. The sleeves are knit in an open lacy pattern with crocheted edges, the body in a light rib. These pieces are made separately and sewn together. Make in misses' sizes 10 through 16.

4. A sophisticated little miss she will be wearing this pink pleated dress. Pleats are knitted in a lacy-look pattern and worked in the slip stitch method of knitting. Yoke is worked in the stockinette stitch and trimmed at neckline, around armholes and hemline with a row of single crochet. Add a pink ribbon for a graceful touch.

5. This cape and swagger story needs a heroine. Knit yourself into the plot with this mini-cape. Waist-long and closed by a buttoned side placket, it's the perfect wrap-up for a series of dramatic events. In misses' small, medium and large.

6. What's your game? This all-American sweater plays the field. The casual, collared shirt-styling used to be "his," but now "she" has cut it down to feminine proportions. Its breezy strips are yellow, gray and white. Polo pullover 10-16.

7. These matching shawl-collared cardigans are the perfect project for a college girl. Choose school colors for his, reverse color for you. Directions are given for girl's size 10-12; women's size 14-16; and man's size 38-40.

8. Going out on the town or taking a trip and looking for "the" dress to wear? Look no more. This long sleeved dress is an ideal companion. Rolled turtleneck collar and wide-ribbed torso accent full skirt patterned in variation moss stitch.

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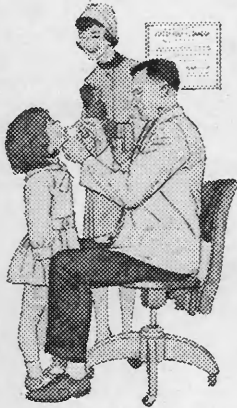
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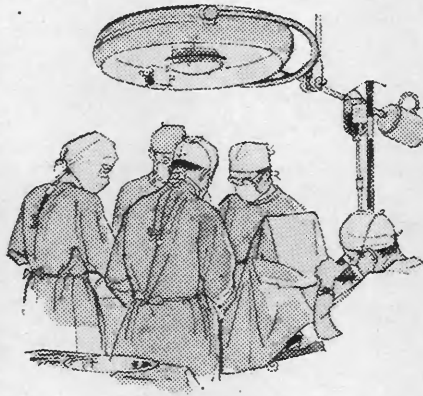
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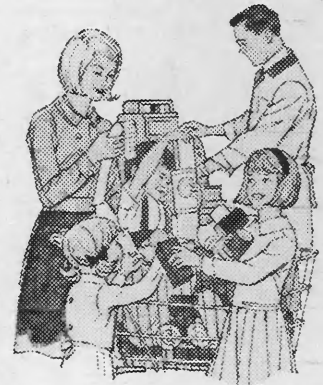
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