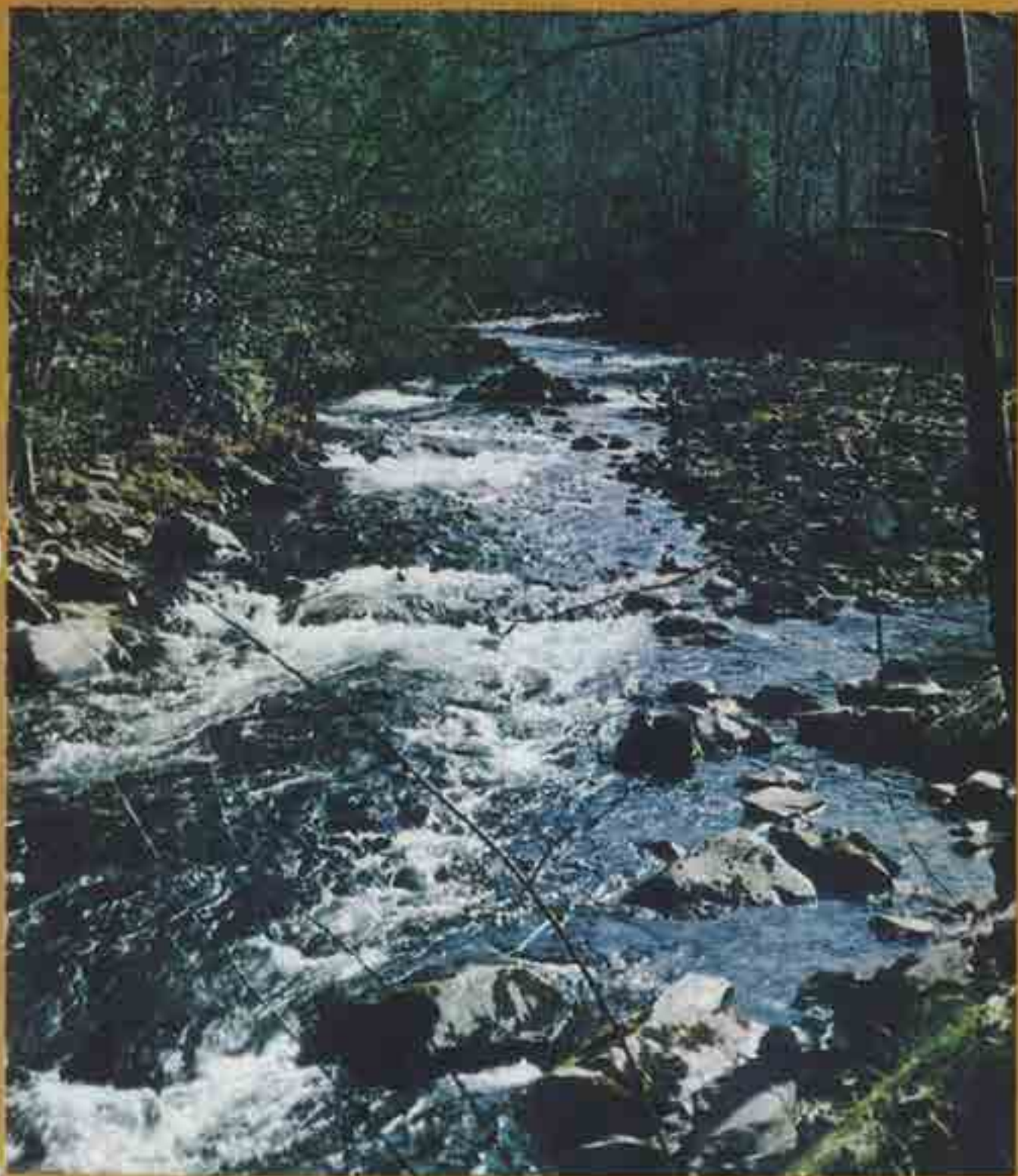


April 1974

# Tennessee Magazine

*Dedicated To Better Living*



**Little River Near Cades Cove**

Story on Page 24

## Famous Scandinavian Design Scissors

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# Tennessee Magazine

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John E. Stanford - Editor  
Jim Lynch - Staff Writer



## ON THE COVER

This month's cover is Little River that runs near Cades Cove. This is just a sample of the beauty that lies in the Great Smoky Mountains National Park. See story on page 24. (Cover and story pictures on Pg. 24 - 25 by Tony Holmes, TVA).

We wish to extend a belated thank you to Loyd C. Stout Jr., for our Feb. 1974 Cover.

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# Volunteer Views



By J. C. Hundley  
Executive Manager, TECA

One of the most difficult things for many of us to do is to make objective comparisons. All too often we try, when comparing fruit, to compare pineapples with oranges. Some people try to compare their electric bills with that of a neighbor without taking into consideration dozens of important differences which make for different sized bills. Often as difficult, and deceiving, is to compare our own electric bills, one month against another.

Human nature is a funny thing, isn't it? Many people keep a record of how many gallons of gasoline they use in their car each month. One month they might use 100 gallons at an average cost of 40-cents per gallon for a total gasoline bill of \$40. The next month, these same

(Continued on Pg. 30)







# BOOKS ON WHEELS



Mrs. Jo Price, Librarian at the Adamsville Library in McNairy County, looks over their paperback selection. Other materials available from the libraries include hardback books, art prints, records, periodicals, and films.



Youngsters are fascinated by books. Mrs. Pauline McBride, Librarian at the Selmer Library, holds weekly reading classes for local kindergarten students.



## *In Our Fast Moving Society*

*By Larry R. Gage  
Electrification Advisor  
Pickwick Electric Co-op*

Upon opening the library door and looking in, students were sitting around the tables studying for that outside class assignment, men and women were selecting books from the shelves gathering information for that report they need to give at their next meeting, and others are looking for a good book to read just for the enjoyment of reading. This could be the sight at your local library.

We have not always been this fortunate. Until the regional library concept came into being in Tennessee about thirty-five years ago, there were over a million and a half people in the state who did not have access to library services.

Tennessee's Regional Library System is made up of twelve regions. The Shiloh Regional Library Center, being made up of seven counties (Chester, Decatur, Hardeman, Hardin, Henderson, Madison, and McNairy), is just one of the regional libraries.

Objectives of the Shiloh Region are as those of the other regions in the state: First, to provide the citizens of the region with adequate library facilities. Second, to develop in its citizens a desire for books and reading and an awareness of the public library. Another of the objectives is to provide adults with material to assist them in their individual and community problems, by furnishing materials useful in their daily work, their domestic life, their spare time activities, and their personal problems. And last, to provide rural communities with the advantages of large scale facilities and operations. Pooling their resources, communities avail themselves of increased appropriation, increased support, and increased returns. Regional libraries provide a larger, freely circulating collection of books administered by trained personnel available to all members in the region.

Operating through strategically located regional centers, the Regional Library Service furnishes materials and services which a single rural county cannot economically provide for itself. These include a professional staff available for consultation with local library boards and local librarians, a large book collection which supplements the books owned by the county.

More than 19,000 books were distributed from this stagecoach during the last quarter of 1973. The van makes weekly visits to housing projects and day care centers.





Bookmobile visits are eagerly awaited by many throughout the Shiloh Region. Completing the round of the 62-bookmobile centers takes eight weeks. Responsible for making these rounds are (L.) Miss Ann Holcomb and Mrs. Patsy Stumph.



Mr. and Mrs. Lester Hamm of Ramer, Tennessee have one of the Bookmobile Stations in their general store. Mrs. Hamm is on the McNairy County Library Board of Directors and Mr. Hamm is President of Pickwick Electric Cooperative.

and bookmobile service to county libraries, and to the small communities of the county.

Public library service in the Shiloh Region is furnished by a cooperative arrangement between the counties and the State Library and Archives. Essentially, the idea is that the county should be responsible for those activities which they are able to perform, namely, the operation of a county library with additional branches if possible and needed, the appropriation of funds, the purchase of books, appointing a library board to direct library services in the county, locating suitable quarters, and appointing a librarian.

Project STAGE is one of the outstanding projects of the Regional Library. Checking back in history, the first bookmobile was a stagecoach, thus giving the name to project "STAGE". To carry out the project a van, stocked with books and equipped to supply power to audio visual equipment, was painted to resemble a stagecoach. The "stagecoach" visits day care centers and housing projects weekly, and is met with enthusiastic acceptance at all stops. In the last quarter of 1973, approximately 19,000 books were distributed, 35 films and 55 film strips were shown from the stagecoach. Many of the books have large print to make easier reading for both the old and the young. Although only a pilot project in Chester and Madison counties for the past two years, it showed tremendous success and, due to this success, recently funds have been made available that will allow the project to be carried over the entire region.

Another of the popular programs of the regional library is the bookmobile. It visits all libraries and deposit stations every eight weeks to exchange books and fill requests. Anyone in any community is welcome to come on the bookmobile and select books from its collection. Bookmobile stations are located in homes, stores, banks, post offices, and other accessible places in the smaller communities. Books are exchanged on each visit so the people will have access to a new collection of books periodically. In 1973 the bookmobile traveled almost 50,000 miles and circulated more than 23,000 books at the sixty-two bookmobile stations in the Shiloh Region.

Another of the programs sponsored by the region is the State-wide Area Research Center Reference Service. This state fund-

ed expert reference service is available to businesses and the general public, and all are encouraged to use the center's wattle line to receive this free reference service.

Local libraries may carry on special programs as they see fit. All libraries sponsor a Summer Reading Program for children ages 6-12. "Here Comes The Bookmobile" was the theme for last summer's program. A record is kept of the number of books each child reads, and, if they read the prescribed number, they receive an award.

Surveys seem to indicate that the largest percentage of library users are middle-income men and women and younger children. Over seventy per cent of the books circulated to both adults and children are fiction. While most of the books in the libraries now are fiction, special attention is being given to non-fiction and reference books.

Most libraries display local art in the library and several display school art. Along these lines, Hardin County has a program, "Art on Wheels". This program uses a converted school bus and takes art programs to schools in Hardin County. Also to promote art in the area, they sponsor art classes in the basement of the library.

Art paintings, records, periodicals and films are offered to the local libraries from the regional center. Weekly film programs on travel or current events are held in the library at Western State Psychiatric Hospital in Hardeman County.

Adamsville, Selmer, and Savannah outfit a float to enter in the Christmas Parades in the three towns to convey the message of the library to the public.

Local citizens in Chester, Henderson, Hardin, and Madison counties have organized "Friends of the Library" groups to help carry on programs and projects that are of interest to the library. Some of the libraries hold noon-time book reviews for those interested. Usually drinks and sandwiches are served at these reviews.

These local and regional programs are far too numerous to enumerate on all of them. April 21-27 will be celebrated as "National Library Week". Check by your local library to find out more about their operation during this week.



Mother Nature's secrets unfold at

# Coon Creek

Mother Earth can often be a cantankerous old lady, but she always seems to have her way of explaining things. Hundreds of years can pass while she holds tightly to her secrets, and then suddenly, when the time seems right, she'll allow mankind a small clue — an insight — into her four and one-half billion year history.

Such was the case in the early 1900's when a visiting geologist began poking around in McNairy County a few miles north of Adamsville along a little branch called Coon Creek. What he found there was a geologists' once-in-a-lifetime dream. Sticking out of the loose soil along the banks of the creek were fossils estimated to be over 60 million years old—all in near perfect condition!

Since then, many other geologists have combed the Coon Creek area and, to date, over 400 different species of life have been found, mostly calcium carbonate animals such as clams, mollusks and oysters.

One of these latter day geologists is

James Bishop, currently a salesman in Bowling Green, Kentucky. A McNairy County native, Bishop spent much of his youth at the Coon Creek diggings and later taught high school science and biology. Now, at 29, he pursues geology as a sideline and continues to visit Coon Creek whenever possible.

"Most of Tennessee used to be an extension of the Gulf of Mexico," he explains, "but it must have been at the shore where the water was shallow, perfect for oyster beds. Coon Creek has become the most famous fossil place around, especially for shell animals."

He added that they have found fossils that show evidence of large land/sea beasts that measured up to 40 feet in length, perhaps giant lizards.

"What makes this area so important," says Bishop, "is that so many gaps in the evolution of life are exhibited there and that is really what the geologist is trying to do—close those gaps."

According to most geological theories, the earth is an estimated four and one-half billion years old with solid



A solidified shell, uncovered by the running water, gives evidence of life many millions of years ago.

evidence of three and one-half billion. According to Bishop, Coon Creek shows evidence of life prior to the Ice Age in, what is now, the Southeastern United States. Prior to the Coon Creek find much of the knowledge of this era was unknown.

So, as Mother Nature would have it, information is leaked to us every now and then in such out of the way places as Coon Creek and others, all part of man's quest to understand his origin, and hopefully, his future.



Looking along the banks of little Coon Creek, few people would realize that they were surrounded by a geological wonder. Over 400 species of life have been found in the area.



Baring itself beside the creek bed, this old fossil must not be of much importance, or else it would have long ago been claimed.







# Pollution Control Credit Bill Vital To TVA Rates

By John Stanford

It isn't news that electric rates in Tennessee have been going up during the past six years, within a total range of some 50 to 70 percent for residents, due almost entirely to seven wholesale rate increases which the Tennessee Valley Authority has passed along to distributors—primarily electric cooperatives and municipal systems. Distributors, in turn, have been economically forced to pass along all, or most, of these wholesale increases to their consumers.

TVA points to increasing costs of coal and materials, higher interest rates on borrowed money, higher wages for employees and the high priced devices which must be installed at most generating plants in order to comply with pollution control regulations as the prime reasons that the agency has had to increase its wholesale rates so often in recent years. (Indications are that still another increase, possibly as much as 20% is in the offing for mid-summer.)

Whether or not we like or consider these considerable wholesale increases as justified, chances are that as long as the inflation spiral continues upward, so will the wholesale and, in turn, the retail rates, with only one possible deterrent standing partially in the way of the upward rush. That one exception to the above list of prime reasons that TVA lists as basically responsible for its wholesale increases concerns the pollution control devices.

This doesn't mean that TVA will no longer be required to install this expensive equipment at a cost which runs to more than \$3-million per week.

If, however, legislation now pending in the U.S. Congress becomes law, TVA will be allowed to deduct from its annual payments to the U.S. Treasury certain funds spent for pollution control devices. The amount involved should be more than enough to affect TVA's future rates.

This legislation, sponsored or co-sponsored by every member of Tennessee's Congressional Delegation along with, among others, Representative Bob Jones of Alabama and Representative William Wampler of Virginia, was introduced in the House in December but committee hearings were not held until last month.

At the time of the hearings, Tennessee Electric Cooperative Association Executive Manager J.C. Hundley dispatched a letter of support and request for passage of the legislation, sometimes referred to as the TVA Pollution Credit Bill. Hundley's letter, noting that the subject legislation had been introduced in Congress, continued: "This seems particularly appropriate since the Congress has provided private industry with tax credits for similar costs. Tennessee's electric users deserve the same good treatment as other U.S. Citizens. We are vitally concerned with the increased costs of electricity to our cooperatives and thus to their member-owners. We urge your strong support of this legislation, so that we may avoid facing additional rate increases which could result in an increase to the consumer in excess of 50 per cent of their current rate."

Replies from the Congressmen were immediate, all promising active support, including appearances for Representatives before the House Public Works Committee, to which the Bill was assigned after introduction, or to one of its sub-committees.

Lead-off Congressional witness in support of the Bill, listed as House Resolution 11929, was Tennessee's veteran Fourth District Congressman, Joe L. Evins. Congressman Evins' testimony was so complete, so objective and so typical of the testimony offered by others in Tennessee's Congressional Delegation that it is herewith printed in full:

*Certainly I want to thank you and other distinguished Members of the Subcommittee on Water Resources for the opportunity of stating and emphasizing my strong support and endorsement of H.R. 11929, a bill which would authorize the Tennessee Valley Authority to credit any expenditures for pollution control against its required repayments to the Treasury.*

*This bill is needed and necessary to provide some relief to the people of the Tennessee Valley who recently received the seventh electric power rate increase by TVA in six years. Power bills of \$100 and more for a single month are not uncommon for relatively modest homes*

*Homeowners were encouraged for years to utilize "low-cost electricity" for heating, cooking and other uses—and now the owners of these all-electric homes are bearing the brunt of almost prohibitive electric bills.*

*Industries are also suffering in the TVA service area because of heavy increases in their electric power bills.*

*During TVA appropriations hearings held by our Subcommittee on Public Works Appropriations last year, representatives of several industries testified that electric power for their plants was costing more in Tennessee than in other states.*

*One industry spokesman said further that his plant would not have located in Tennessee if it had been made aware of the planned escalating rate increases—and would locate no additional industry in the Tennessee Valley Area.*

*One of the major TVA expenses is its repayments to the Treasury and another is the cost of pollution control of its steam plants, which burn enormous quantities of coal. This bill would have the effect of eliminating environmental control costs by crediting such costs against repayment requirements.*

*By way of background, in 1959 the Congress gave TVA authority to issue bonds to assist in financing its power program—in an amount not to exceed \$5 billion at any one time.*

*Prior to 1959, funds required to finance TVA's power program were obtained from appropriations by the Congress.*

*However, the 1959 act required that TVA make payments into the Treasury of—first—a return on the net appropriation investment in power facilities and—secondly—annual repayments of such investments.*

*The return on the investment is based on the computed average interest rate payable by the Treasury upon its total marketable price obligations and the unrepaid appropriations investment at the beginning of the fiscal year.*

*To give you some idea of the amount of these repayments, prior to 1959 and various repayment sections, TVA had repaid \$350 million (31 thousand) to the United States Treasury.*

(Continued on pg. 25)



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# NRECA Annual Meeting Looks Ahead To "A New Tomorrow"

By John Stanford

Taking only a brief, backward glance at the yesterdays of rural electrification, upwards of 10,000 representatives of America's almost-1,000 rural electric cooperatives took an objective look at "A New Tomorrow," the theme of the 32nd Annual Meeting of the National Rural Electric Cooperative Association held in San Francisco, California in February.

The backward look showed that much has been accomplished, often against tremendous odds. The "New Look" reveals that there is much yet to be done and that the odds haven't decreased noticeably, if at all. For certain, the need for ever-increasing amounts of electricity is obvious, this in the face of an energy crisis and shortages of many vital materials. The interest cost of loan funds has more than doubled since the abolition of the "old" REA program in the last days of 1972. The "new" REA program signed into law by President Nixon on May 11, 1973 finds loans "guaranteed and insured" and also carrying an interest tab of more than twice that of the "old" program. These facts, along with rises in prices of almost everything that goes into the costs of generating and distributing electricity, have also virtually guaranteed recent and yet-to-come increases in electric bills to millions of electric co-op members across the nation. This is a part of "The New Tomorrow."

President Nixon, whose pen signed out the "old" and signed in the "new" REA loan programs, sent a brief message to NRECA's 1974 Annual Meeting which read in part: "Thirty nine years ago you pioneered the launching of this program which has helped to bring electricity to 98% of our farms.

Now you are pioneering again as you plan for the financing of new generating plants of a size that seemed inconceivable at the time when you ran those first wires down a dusty country road.

"It gives me a special sense of satisfaction that, with the aid of the



"Miss Tennessee Electric Co-ops", Glenda Mattox, was chosen Second Alternate in the "Miss National Rural Electrification" beauty contest. Here she poses with the new winner, Kathy Harris of Illinois (seated) and Ginger Rodgers of Texas, First Alternate.

Congress, my administration has had a part in making this enlarged program possible. I warmly congratulate you on your achievements and hope that your sessions will be productive and rewarding for the nation you serve so well."

David Hamil, who has served more years as Administrator of REA than any man in the 29-year history of the agency, gave his version of the "new" concept of value of electricity when he stated: "It only takes a brownout of two, a threat of blackout, a shortage of fuels, and everybody begins to appreciate the value of electric power at any price. And this is our job, our responsibility and our challenge, and our great opportunity—to insure that we will not be without electric energy, or even short of it, in the years ahead."

A call to vigilance to assure this adequate supply of electricity was made by NRECA General Manager Robert Partridge in an address to one of four well-attended General Sessions: "We are still not without concerns which require constant legislative vigilance. With the passage of Public Law 93-32, the role of Congress has shifted from

annual funding for electric loans to setting of ceilings on insured and guaranteed loans. We are working closely with key Congressional leaders to keep the program levels sufficient to reflect your capital needs."

One of those Congressional leaders and a long-time friend of cooperative rural electrification, Congressman Bob Poage of Texas, stated: "NRECA was most helpful in formulating our current REA loan program which, in my opinion, is far more likely to remain viable than the old two-percent loan program because there was considerable pressure to raise the interest rates and it was becoming more and more difficult to obtain adequate funds for this program to meet the tremendous need for rural electric and telephone service."

(Prior to his address, Representative Poage, Chairman of the House Agriculture Committee, had been presented NRECA's Distinguished Service Award for his outstanding contributions to the rural electrification program and to American agriculture. He was the 11th recipient of the Award in the 32-year history of NRECA.)





John Dollinger, Manager of Cumberland Electric Membership Corporation, Clarksville, was re-elected Vice President of the National Rural Electric Cooperative Association. He is shown presiding over the second of four General Sessions.

Another Congressman, Senator Walter Mondale of Minnesota, told the Annual Meeting delegates that "without you, the diversity and competition which mark the electric power industry today simply would not exist." Continued Mondale, "We are being held hostage in this energy crisis by a small group of powerful corporations, which often place their own corporate interests above the interests of the public. In addition to controlling our oil resources from the wellhead to the gas pump, the oil industry also controls our natural gas, coal and uranium resources. They are often governments' union themselves."

Other Congressmen appearing on the four-day Annual Meeting program included Representative Craig Rosener of California, Representative James Jones of Oklahoma and Senator Lloyd M. Bentsen, Jr. of Texas.

As is traditional, Tennesseans were much in evidence in the award presentations and recognitions.

John Dollinger, Manager of Cumberland Electric Membership Corporation, Clarksville, was re-elected

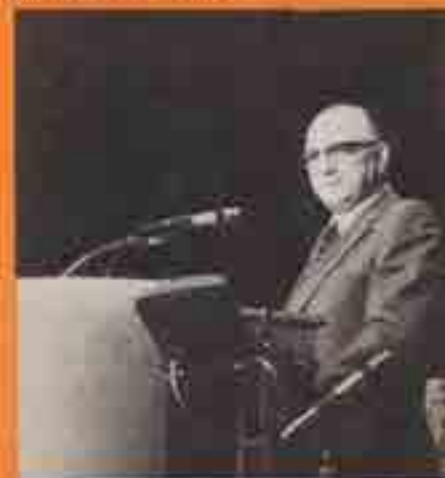
Joe Hixon (right) Member Services Director of Middle Tennessee Electric Membership Corporation, receives in behalf of MTEM an award which honors cooperative for having placed first, the nation in Research and Marketing second nationwide in doing the "best overall job" in services to members. Making presentation is Rex Kinnison of Blue Ridge EMC, Lenoir, North Carolina in behalf of National Member Services Association.

Vice President of NRECA, presided over the Second General Session and, prior to the Annual Meeting, served on the Planning Committee.

"Miss Tennessee Electric Cooperatives" Glennie Matton of near Dover, Tennessee, did an excellent job of representing the Volunteer State in the "Miss National Rural Electrification" beauty contest. She was selected as Second Alternant and won an \$800 scholarship.

Middle Tennessee Electric Membership Corporation, Mem-

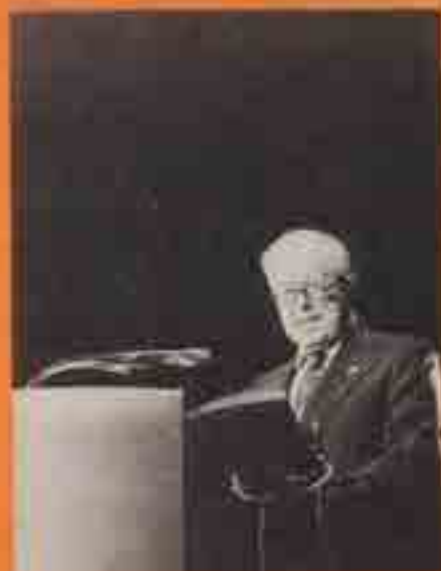
ber Association Administrator David Hamill addressed the NRECA Annual Meeting for the tenth time. He has served longer as Administrator than any man in the 22-year history of the agency.



bership, placed first in the nation in the Awards division for Research and Marketing and second nationwide in doing the "best overall job" in services to members. Manager of MTEM is Fred Key. Joe Hixon, Member Services Director, accepted the Award in behalf of the cooperative.

John Dollinger made a second appearance before a General Session in making a report as Chairman of NRECA's Data Formula and Financing Committee.

Rexford Metzweher Lewis Electric



Congressman Bob Fudge of Texas addressed the Annual Meeting minutes after he became only the 11th man in the 22-year history of NRECA to receive its Distinguished Service Award.

Group Manager Paul Tidwell was recognized in a General Session as a Past President of NRECA, having served in that capacity for two terms in 1969 and 1968.

Metzweher Lewis Electric Cooperative, Centerville, and Upper Cumberland Electric Membership Corporation, Carthage, were recognized in the Annual Meeting program as having secured Safety Accreditation during 1972.

Four Tennesseans are currently serving on Standing Committees in NRECA. They are:

Paul G. Key, Manager of Middle Tennessee Electric Membership Corporation, Murfreesboro—Insurance and Employee Welfare

William D. Towens, Manager of Holston Electric Cooperative, Rogersville—Management Advisory

Earl F. Warr, Manager of Volunteer Electric Cooperative, Decatur—Power and Water Resources

Mrs. John Dollinger, Clarksville—Women's Activities and Urban-Countryside Affairs

NRECA's 1973 Annual Meeting will be held in New Orleans, Louisiana.



# STANDBY POWER

## *Should You Have an Electric Generator?*

*Prepared by Tennessee Valley Authority • Power Marketing Division*

If you have farm operations (milking, feeding, egg-gathering) that must be performed at specific times, an electricity-generating unit can be a worthwhile investment. As you know, a power interruption lasting for any length of time can cause financial loss. To prevent this, a relatively low cost emergency generating unit can provide insurance in the form of an alternate power supply.

### Selection

When you are selecting a generator, keep this important information in mind: Farm electricity is normally 120/240 volts, 60-cycles, three-wire, single phase. The standby generator rating should correspond to this normal service.

Three pieces of equipment are required to generate your own supply of electricity:

1. A generator to produce the alternating current
2. An engine to run the generator
3. A transfer switch for control

The lowest priced and most popular generator is the power takeoff type. Most farms already have an engine available in their farm tractors.

Another type generator is the complete electric plant. It has an engine, generator unit, and automatic controls. Such units provide automatic electric service whenever normal service is interrupted. These automatic units must have sufficient capacity to supply the connected load.

A third type generator is the manually operated unit. It can be in a smaller size because some equipment can be turned off or disconnected when the emergency power is needed.

### Generator Size

Generator capacity, or size, refers to electric-power output and is stated in terms of kilowatts or watts (1 kilowatt equals 1000 watts). If your generator is powered by a tractor engine, the pto

must develop a minimum of two horsepower for each kilowatt of electricity produced by the generator. If the pto horsepower is available or planned, a larger generating unit can be considered. This would allow for future equipment additions. Note, however, that the higher the generating capacity, the higher the initial cost.

The least expensive installation would be a unit sized to operate only essential electrical loads. A rule of thumb for minimum size is two kilowatts of continuous generator capacity per horsepower of the largest motor to be started. Add one kilowatt per horsepower for all additional motors, plus wattage of essential lighting and heating.

### Switch Installation

A generator is connected to the wiring system with a double-throw switch to prevent power from feeding back into the electric lines, endangering the lives of power supplier linemen. (See Figure 1.) Then, when normal service is restored, the double-throw switch also prevents a damaging flow of electricity into the generator.

Installation cost for a double-throw switch depends on how elaborate the installation must be to meet farm load demands and electric code regulations.

The double-throw switch is generally installed at the central service entrance point, but may be elsewhere, depending upon the number and location of essential equipment that must be operated. Electrical wiring should be in accordance with the recommendations of the manufacturer and comply with the regulations of local regulatory bodies and the National Electrical Code. The generator and transfer switch must be grounded in accordance with Article 250 of the National Electrical Code.

The capacity of the double-throw switch must be matched to the *normal load* and not to the generator. If the switch is installed outdoors, it should be a weatherproof type or installed in a weatherproof enclosure.



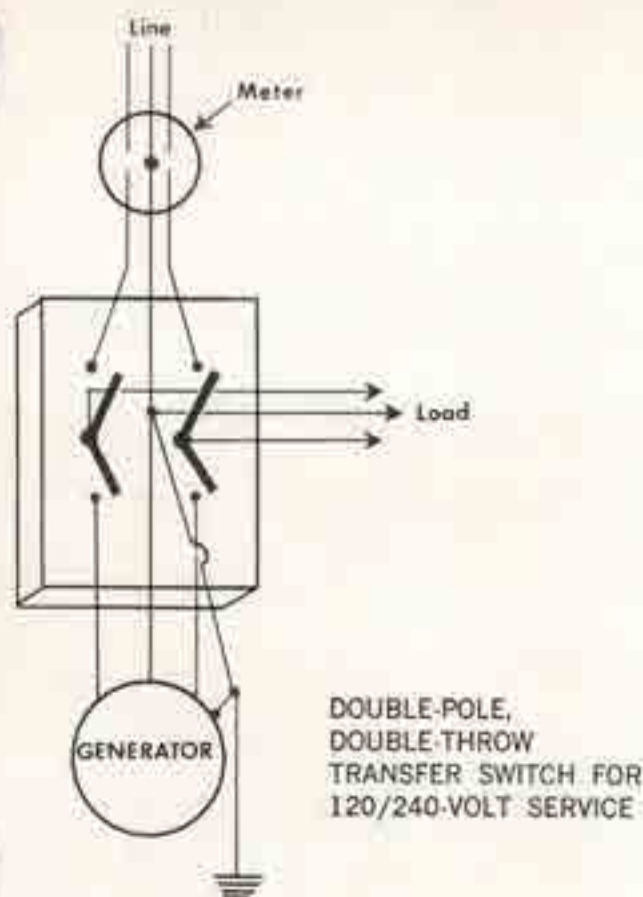


Fig. 1

NOTE: Before purchasing a transfer switch, check with your local power supplier. A three-pole switch may be required for switching to neutral.

## Operation

The following procedure should be followed when power interruption occurs:

1. Turn off or disconnect all electric equipment.
2. Position the tractor and connect the power takeoff drive.

3. Start the tractor. Bring the generator up to the proper speed. Refer to the manufacturer's instruction book for voltage speed adjustments.
4. Check the voltmeter. It should register at least 230 volts for 120/240-volt service. When the voltage output is correct, the generator is ready to load.
5. Put the transfer switch in the "generator" position.
6. Connect the electrical load. Start the largest motor first. Start each successive motor when the previous one is running at normal speed. Be careful not to add the load too fast or to overload the generator.
7. Check the voltmeter during operation. If voltage falls below 200 volts for 240-volt service, or 100 volts for 120-volt service, reduce the load on the generator by turning off some of the electric equipment. (Caution: Increasing generator speed above the normal operating level will not increase the electric power output.)
8. When the normal power supply is restored, put the transfer switch in the normal power position. Then stop the generator. Turn on any other equipment not used on standby service.

## Plan Ahead

In an emergency or time of need, outside assistance may be unavailable. You must think and plan prior to the time of need to avoid a loss of income due to a temporary loss of electricity.

For additional information, see your power distributor.

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# KID-PROOF YOUR KITCHEN



■ The kitchen is a warm and friendly area of the home—filled with the good smell of freshly baked cake, the aroma of hot coffee and exotic spices, the sound of sizzling steaks and french fries. It's a happy gathering place for family and friends. And, for a small child, the sights, sounds and smells of food preparation make the kitchen the most fascinating room in the entire house.

But the kitchen also can be the most dangerous room in the house for a curious toddler—especially if there are electric cords that can be put into the mouth, open outlets within reach, or appliances that can be pulled down from cabinet counter or table tops. The child who can reach the top of a range also may be able to spill a pan of boiling water or scalding-hot grease over his body. Below counter-top level, there could be such hazards as toxic household chemicals and hot water pipes under the sink, cabinet drawers filled with sharp knives, or an oven hot enough to broil meat. In fact, most kitchens simply are not designed with small children in mind.

But for the busy homemaker who can't keep her eye on a curious child every second, here are some safety suggestions:

1. Be sure that any electric outlets below counter-top level are covered or concealed. And don't allow electric cords to hang below the counter or table top.

2. Do not store sharp instruments, such as knives, or dangerous chemicals where small children can reach them.

3. Never allow the handles of pots or pans to extend over the edge of a kitchen range; keep them turned toward the rear or side of the stove. And when buying a kitchen range, make sure the heating units and controls are beyond the reach of small children.

4. Keep children away from kitchen areas that may be especially hazardous during meal preparation; a child playing on the floor beside a kitchen range is much more likely to be burned by any hot liquids that may be spilled.

5. When pouring hot liquids, always pour away from yourself; and pour very slowly. Instant coffees and soup mixes tend to effervesce when boiling water is poured too quickly.

6. Choose coffee cups or mugs that are designed so they will not tip easily. Some of the modern stemmed cups are attractive but tend to be "top heavy" so they are more likely to tip over and spill the contents.

7. When placing containers of hot foods or hot liquids on a table, put them as close to the center of the table as possible—or well away from the edge of the table. Also, when small children are likely to be around, use place mats rather than a table cloth that can be pulled off the table along with containers of hot foods.

And don't use lighted candles on the table when children are present.

8. Help make your kitchen accident-proof by adopting the perspective of a small child. Remember that a child may not be tall enough to see that a pot on the stove or a bowl on the table contains hot food. Also, if the child is allowed to play with pots and pans, he may think of the food containers on the kitchen range as his toys. If he sips fluids occasionally from an adult's cup, he may assume that the cup on the table is for his use.

9. Resist the temptation to hold a child in your arms while enjoying a cup of any hot beverage. A frisky child can knock the cup out of your hand in a fraction of a second. Put the youngster in his playpen, high chair, or some other safe place during your coffee break.

10. Finally, be sure you know what to do if an accident occurs in the kitchen despite your precautions. In case of burns, for example, the proper emergency treatment is to apply ice or cold water to the burn area. And keep your doctor's telephone number posted nearby so you can contact him quickly about any serious accident.

Most accidents are predictable and preventable. So make yourself a committee of one to keep the kitchen a happy room rather than a hazardous room.



■ Even though the energy required to run home appliances represents only about five percent of all the energy used in America today, homemakers can help reduce this amount with the proper use of appliances and the application of a little old-fashioned "elbow grease."

Here are some often-overlooked tips that will not only conserve energy and other resources with kitchen and laundry equipment, but also contribute to the health of the family budget through lower utility bills.

Most automatic washers have water level and water temperature controls. These controls, when used properly, conserve energy and water. The water level should correspond to size and type of load; too much water is wasteful; not using enough with a large load may result in the need for a rewash to get the clothes clean.

Recommendations of the appliance maker and garment manufacturers are the guides in selecting the correct water temperature for a load. But even these general rules can be "bent" somewhat by a person striving to save energy. For example, it is generally recommended that white clothes be washed in hot water. However, the homemaker who is willing to "pretreat" soiled areas, such as the collars and cuffs of shirts and blouses, can use warm water to wash white garments and be pleased with the results. Here, it takes a little "elbow grease" to make certain the pretreating detergent is rubbed into the heav-

ily soiled areas before the garments are put into the washer.

into the home and the heated air can be a burden to air conditioning.

The venting should be checked on a regular schedule to make certain it is clean and there are no obstructions. It is even more important to keep the lint filter clean to permit free air circulation.

The recommendation of the manufacturer as to the size and length of venting should be followed when remodeling or building a new home. Plans that call for putting a dryer next to an inside wall should be avoided, since this means venting a longer distance to an outside wall.

Persons with a dishwasher can conserve hot water by washing a full load. Instead of washing a small number of breakfast and lunch dishes, the operator should wait, when possible, until after dinner to do a full load.

Modern dishwashers are designed to wash even heavily soiled dishes, so, except when absolutely required, don't "wash" the dishes in the sink before putting them into the dishwasher. Let the appliance do the job and save the handwashing and the additional hot water and detergent.

A dishwasher should be insulated, as insulation reduces noise and keeps heat loss during the wash to a minimum. Dishes that are allowed to air dry are just as

There is really no reason for using the full wash time with a load of clothes that is only lightly soiled. Most washers allow the operator to adjust the wash cycle length. Proper adjustment of wash time to degree of soil can conserve both the operator's time and the energy required to operate the washer.

There are several ways to conserve energy with a dryer. It is always best to avoid overdrying because this wastes energy and is hard on fabrics. Clothes should be removed from the dryer when they still have a little moisture in them, which is a natural state. Persons with time control dryers should check frequently toward the end of the dryer cycle to determine the correct time to remove clothes.

Some dryers have electronic controls that actually "feel" when the clothes are dry, shut off the dryer.

In cold weather, a dryer that is located in workable location, may have its venting disconnected so that the dryer vents its warm, moist air into the home. The exhaust vent should be covered with a lint bag to catch any particles. These bags are generally available from appliance dealers. In summer, or warmer weather, it is extremely important that the dryer be vented to the outside air; failure to do so can put too much moisture

nice as those power-dried. So, when possible, the dishes ought to dry on their own in the dishwasher. This usually involves setting the dishwasher for a "Wash Only" setting, or its equivalent on the dishwasher. Dishwashers that do not have such settings can usually be programmed for no heat or less heat. Instructions on how to do this are usually contained in the operating instructions.

The water heater should be set to heat water to 140-150 degrees as this is the temperature range for most efficient operation. When possible, the water heater should be located near the dishwasher and automatic washer. Insulating the hot water pipes can help reduce heat loss, also.

When disposing of fibrous foods, such as celery, corn husks or artichokes in a food waste disposer, the fibrous foods should be put in first and other food wastes on top. This arrangement helps break up fibrous foods and disposes of them more quickly.

Use cold water to flush the food wastes through the disposer and down the drain. It is better to use too much water than not enough with a food waste disposer. Not using enough can result in a buildup of food waste that may cause plumbing problems, resulting in the need for a service call. A service call will waste money, time and the gasoline and other energy resources needed to bring the service to home.

# CONSERVING KILOWATTS WITH THE CLEAN-UP CREW.



# Energy Crisis: What It Could Mean to Rural Areas

Nonmetro counties weathered the 1969-70 economic downturn far better than the metro areas. They also rebounded more swiftly and more vigorously during the good years of 1971-73.

As for 1974, one ERS economist expects that nonmetro areas will again have sizable employment increases but that the number of new jobs will hinge mainly on the impact of three forces:

✓ General softening of the economy now underway.

✓ Increasing pinch on industrial capacity and resulting shortages in many materials and supplies.

✓ And, last but not least, the energy crisis.

**Jobs vulnerable.** Recent rural job gains are especially vulnerable because of high dependence on gas and other fuels for production, transportation, and for the movement of people to jobs, shops, and so on. And, many communities could be hard hit because they depend largely for jobs on plastic and other local industries that rely heavily on oil and gas for feedstocks.

If fuel shortages persist or worsen, and prices climb, these industries in particular are likely to feel the squeeze: petrochemicals, leisure-time products, recreation and resort enterprises and nonfood retailing.

In addition, some economists think that tight money will keep 1974 housing starts at a relatively low level, whether or not the industry faces fuel and related shortages.

**Brighter side.** There are bright spots, however. The following industries will probably benefit in 1974 and succeeding years from the energy crunch: paper and paper products; coal mining; drilling for oil and gas; and industrial construction.

Projected allocations of fuel are expected to assure production, processing, and marketing of increased food supplies in 1974.

The impact of the forces mentioned earlier is already being felt in upward and downward shifts in output and employment.

✓ Mining employment in December 1973 was about 39,000 greater than a year earlier.

✓ Construction was started on scores of major generating, gasification, manufacturing, and other new plants in 1972 and 1973.

✓ The annual rate of housing starts in December 1973 was almost 739,000 units lower than August 1973.

✓ Production of synthetic fibers may have dropped as much as 20 percent in the last quarter of 1973.

✓ As many as a third or more of employees in plants producing recreation vehicles have been laid off since the spring of 1973.

In brief, here is the situation facing key rural industries, beginning with those for which the outlook is less promising:

**Petrochemicals.** Special priorities may be needed to prevent serious shortages in drugs and medical and surgical supplies. Increased feedstocks would appear to be required to reverse sharp cutbacks in production of polyester, dacron, and other synthetic fibers.

Also required to restore output would be expanded supplies of propane, both for fuel and as a curing and finishing agent.

**Leisure-time products.** Sales of recreation vehicles, pleasure boats, and other leisure-time products could be expected to plummet if fuel shortages persist.

**Recreation and resort industry.** Barring a sharp upturn in gas supplies in the next few months, the brunt of the shortages—borne up to now by winter sport centers—would be expected to shift to summer vacation spots, as well as to the motels, restaurants, and other facilities serving vacationers en route.

**Nonfood retailing.** Sales forces would be expected to shrink a bit,

especially if the economy loses momentum, rising prices take an increasing portion of the consumer's dollar, and families are forced to shop less often because of gas shortages.

Moving to industries with better prospects:

**Paper and paper products.** Demand for paper and paper products has been exceedingly strong in recent years, and the energy crisis could add to 1974 demand by triggering a switch to paper from plastic film and packaging materials. This industry also is unique in that about a third of its fuel requirements are met by burning bark, sawdust, and other processing wastes.

**Coal mining.** Because of its abundance, coal could well be the brightest spot in the energy picture for many years to come.

In 1974, however, it will not be easy to boost output to meet existing demand. Problem areas include—continuing labor unrest, difficulties in meeting health and safety regulations, shortages of hopper cars, and controversy over measures to reduce the impact of strip mining.

**Drilling for oil and gas.** Exploration for oil and natural gas has been greatly accelerated. Currently, however, there are troublesome shortages of rigs, pipe, and other drilling equipment and supplies.

**Industrial construction.** Many major plant construction and expansion projects are underway, and present signs are that starts in 1974 will continue at about the 1973 level.

Less homebuilding will also ease pressure on lumber and cement supplies. Production of boilers, generators, and other machinery and equipment should be adequate, especially if car makers reduce their demand for steel. But low-profit items, like reinforcing bars and structural steel may be harder to get.

[Based on special material by Claude C. Haren, Economic Development Division.]



# Timely Topics

## Select Proper Soil for Top Corn Yields

Soils selected for corn production should meet the quite exacting growth habits and environmental requirements of the plant, advises a University of Tennessee Extension specialist.

"Soil selection is especially critical if the grower expects higher than average yields," says George J. Buntley, UT associate professor. He cites the following soil characteristics for top corn production:

First, the soil should have moderately high to high available water holding capacity. Medium textured soils are better than fine textured (clayey) or coarse textured (sandy) soils.

The soil should have at least three feet, and preferably more, of unrestricted rooting zone. This means the soil should be free of hardpans, permanent water table, extremely sandy or clayey layers, bedrock, or chemically toxic horizons for at least three feet.

Also, the soil should have adequate but not excessive drainage. Well or moderately well-drained soils are the best choices for maximum corn yields during most seasons.

While soils with the above characteristics have the greatest potential for top yields, corn can be grown profitably on soils with somewhat less desirable features, he points out. However, as the desirable characteristics lessen, yields and profits decline.

## Dairy Cows on DHI Produce More Milk

Cows on Dairy Herd Improvement (DHI) test in Tennessee are producing 3,600 pounds of milk more than the average of all cows in the state, according to Ray Spann, University of Tennessee Extension specialist.

"This is \$324 more per cow, figuring milk at \$9.00 per hundredweight," says Spann. "It costs around six to seven dollars per cow on DHI testing."

When you know how much milk each

cow produces, you can do a better job of feeding for higher production. Also, you can cull low and unprofitable producers, explains the specialist.

One of the main purposes of DHI is to improve the producing ability of cows by providing guides for breeding, feeding and management. Since Tennessee DHI cows average more than 12,000 pounds, it is apparent that these guides are being used, notes the specialist.

Another important point is the sale of heifers and cows for breeding purposes. The sale price of animals with records is much higher than those without records.

You can get information about the DHI program from your county Extension office.

## Beef Cattle—Big Business

Check each cow in your beef herd to make sure she is pregnant if you expect a high calf crop percentage, is the advice of a University of Tennessee beef cattle specialist.

"Since it takes the profits from 2½ cows to maintain an open cow for a year, it is essential that each cow conceive during the breeding season," says Clyde D. Lane, Jr., UT assistant professor.

If a cow fails to settle, it is the fault of either the cow or the bull, points out Lane. When many cows fail to settle, the bull is usually suspected. Breeding difficulties caused by the bull can be avoided by having him and his semen checked before the breeding season begins. Then, maintain his fertility by feeding him properly. Also, limit the bull to the number of cows he is capable of settling. Fertility generally declines when the bull is overworked.

Nutrition and disease are the primary reasons for difficult breeding in the cow, continues the specialist. The beef cow must be fed well enough to provide milk for her calf and to get her reproductive system ready to conceive again. This means she must be provided additional high quality feed after calving.

Disease can also prevent the cow from conceiving. Brucellosis and vibriosis are among the most common diseases that cause breeding problems. However,

there are many other diseases that can lower the conception rate.

Regardless of the cause for cows not being settled, it is essential that the cows be observed closely and regularly during the breeding season, emphasizes Lane. Breeding problems can then be detected and corrected. A little time spent with your beef cows is the best insurance available for next year's calf crop.

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Beef cattle numbers in Tennessee have more than tripled in the past two decades. In 1953, there were 302,000 head of beef cattle in the state; last January, 1,125,000 brood cows and 260,000 yearling replacements were reported. Beef cows that calved on Tennessee farms totaled more than 1.1 million, a record high. Heifers for replacements were up nine percent over last year.

The Volunteer State now ranks 12th in the nation in beef cattle numbers and ranks second in density of beef cattle population with 71 head per thousand acres. Kentucky is first with 73.

Tennessee's agricultural production in 1973 had an estimated value of \$1,103 million. Cash receipts from cattle and calves totaled \$279 million, an increase of nine percent over 1972. And this was over 29 percent of total farm income in the state. This is the equivalent of an industry that employed 44,712 people at \$3.00 an hour, 40 hours per week for 52 weeks.

Research and technology have brought about a tremendous change in the beef cattle industry over the past 20 years. Tennessee has become basically a feeder calf producer. The bulk of these calves are sold during September, October and November.

There are approximately four million people in Tennessee. It is estimated that the per capita consumption of beef in 1973 was 110.9 pounds, compared to 116 pounds a year earlier. This means the consumption of beef was down about four percent.



# A Victorian Dollmaker's World



By: Mary Ann Gibson,  
Home Source Advisor  
Merlether Lewis Electric Cooperative

Jody Mehaffie, a creator of original Victorian dolls, is a most unique "doll" herself. She has been around the world with her husband Mack, a retired Army Colonel; is a mother of vivacious twin girls, Katie and Maggie; and has embarked on a dollmaking career.

Jody made original dolls before having her own girls and felt somewhat embarrassed about it since she had no children to play with them, so she would hide the dolls in the closet. When the twins were born, Jody made lots of stuffed toys. She made Katie and Maggie some original nursery rhyme dolls which they treasure. Today, the twelve-year old girls are Jody's best critics.

When Mack Mehaffie retired and the Mehaffies moved to Centerville, Jody found she had more time to devote to her creative talents. She made a few original dolls for a local Christmas sale and found that they sold quite well. This was to embark her on her "Jody M. Doll" career.

Jody's dolls are original and

handmade by her from her own copyrighted designs and patterns. Each doll is one-of-a-kind, has a certificate of originality, and is given a name and number. All of the "Jody M. Dolls" are considered to be collectors' items. They are like grandmother's china dolls, reproduced in fine hand-dyed muslin and hank. Each one meets Jody's definition of a doll — "something you can love, play with, dress and undress."

Some of the dolls have complete wardrobes. They are take-offs of Victorian children's costumes, including coachman's capes and bonnets, nightgowns, hallogowns — to name only a few. Jody points out that the Victorian period covered a seventy-year span; this gives her variety in her costumes. She has researched the fashion era and sticks to it as closely as possible without losing the ability to put the clothes off and on the dolls. Many fine details are included in the dolls' dresses such as imported lace and eyelets. Jody explained that many times she would pick up those faces and eyelets in the



A hanging like this is found on each "Jody M. Doll." The tag is original and needlepoint kits with this design and color are another facet of "Jody M. Dolls."





Two of the "Jody M. Dolls" are ready for bed with their Victorian nightgowns and night caps.

local open-air markets while she was living in Europe. The eyelet that is on the grandmother's apron in the picture is originally purchased for pinafores for Katie and Maggie, but somehow they never got the pinafores because the eyelet was used on the dolls.

One of Jody's first dolls was the "Cookie Cutter Doll." She wrote a child's book to go with this doll. Being new to the world of doll making, Jody had one hundred copies of the little book printed before she realized that she

**"Something you can love, play with, dress and undress"**

would have to make one hundred dolls, by hand, to go with each little book. She has learned much since then and is quite a business woman now and is retailing in several states. Each state has only one store that handles "Jody M. Dolls." Zell Elrod's French Shop in Murfreesboro is Tennessee's outlet. Powers Cross Road's Country Store in Atlanta, The Corn Tassel in Birmingham, Hatches and Patches in Nags Head, North Carolina, and The

Farmer's Daughter in West Hampton Beach, New York, are her present retail outlets.

Jody has been commissioned to make a family of Victorian dolls to go with a book being written by a Virginia author. Her career in dollmaking is turning many avenues and is mushrooming. There is a waiting list for her original dolls. If you would like to know more about them, please write to Jody Mehaffie, 126 Sunset Circle, Centerville, TN 37033.

Jody is a member of the International Doll Makers' Association. She attended her first convention in Dallas last year and placed second in the competition. There were exhibitors from Scotland, London, New Zealand, and other countries.

Jody, a fascinating person - wife, mother and business woman, is a true success in each field.

Jody is busy working with her original handmade Victorian "Jody M. Dolls."





# Hensley Settlement

*"Forgotten by time"*

*By Jim Lewis*

When an English steel company decided to build Middletown, Kentucky, around the turn of the century and make it into a new "Birmingham", many of the old mountaineers in the area cast a skeptical eye toward the proposed new industry and wondered if ruination had finally arrived in Cumberland Gap.

## Many now refer to it as "America's Last Pioneer Settlement"

One such mountaineer, Burton Hensley, decided that if the valley was destined to become a smoky, over-crowded industrial complex, he was leaving and in 1902, he secured title to a 500-acre spread about 10 miles away and immediately began dividing the property among his 16 children. Uniquely, the property was on a table-top plateau atop Brush Mountain, 3,000' above sea level, and was practically inaccessible to anything other than a wild goat.

Burton's daughter Nancy Ann and her husband, Sherman Hensley, were the first Hensleys to move to the isolated settlement, moving their belongings up the side of the mountain by pack mule because there wasn't a real road to the

top in 1904. The area had been settled during the Civil War, but was largely unoccupied when the Hensleys arrived and, in time, no one lived at Hensley Settlement except Hensleys and Hensleys-in-law. By 1925, the mountain top community numbered about 100 forty-acre farms that had taken a giant step backwards in time and borrowed many of the modern facilities and

found on almost any farm in a Appalachia, and the farms of Hensley Settlement were no exception.



conveniences of their era, preferring to live by simple means and customs. In total, about 30 structures were erected in what many people now refer to as "America's last pioneer settlement."

And a pioneer settlement it was, with 40 houses, barns, and sheds built by hand from rough hewn logs. Each little farm was almost self-sustaining and residents rarely ventured away from the



A community the size of Hensley Settlement naturally had a school. Called Brush Mountain School, it served for many years in the Bell County, Kentucky, school system.

settlement. They had their own livestock, grew their own food, hunted game, forged their own tools, and milled their own cane. About the only thing they ever bought was coffee, tea, and, sometimes, cloth. As it was with their pioneer ancestors, the residents of Hensley Settlement put great stock in minding one's own business and not interfering with others.

Perhaps their major contact with the world below was in marketing the besting whiskey many of the Hensleys had brewed. During the Prohibition Era (1920-33), this practice became the major money-making enterprise of the settlement with the liquid fire going for a price of \$10 a gallon. Court records



indicate that a few fires were beyond mass numbers of the clan for hunting seasons but, for the most part, the law of the isolated community alone.

The lifestyle at Hensley Settlement could have easily been mistaken for 1850, instead of 1950, with quilting bees and home savings serving as major social occurrences. Church services were not held with regularity because of the isolation, but one Sunday, usually in June, was established as "dedication day" for all church functions. At this annual ceremony, all marriages, baptisms, and funeral services were held for those events which had taken place during the previous year.

All in all, life was a cycle that began and ended in Hensley Settlement, with monthly shopping trips, mail expeditions and the need to work being the only reasons for leaving home. It was not unusual that the settlement developed and maintained a way of life



This was Lige Gibbons' place. The farm now serves as an example of how life was at Hensley Settlement. In true pioneer fashion, all fixtures are made from split rails.

and, until only Sherman Hensley, the first settler, remained. From 1949 to 1991, he lived there alone until, at age, sold his property to the State of

Kentucky and left. He is still living, not far from the base of Brush Mountain, near Taylor, Virginia.

G. Michael Struck, Chief of

### "A secure entity amid so much chaos"

Interpretation for Cumberland Gap National Historical Park, relates that the pioneer structures at Hensley Settlement fell into bad disrepair from 1951 until 1985, when it was decided that the little village should be restored for posterity. Everything was overgrown and many of the structures had rotted but efforts have now brought the restoration to about 75 percent completion. The target date for completion is 1976, just in time for America's Bicentennial celebration, and park officials are confident that the schedule can be met.

In the meantime, visitors can hike to the settlement and observe the restoration and dream of a way of life that may never be seen again.



By it over so months, the blacksmith shop was still one of the more necessary facilities at Hensley Settlement. All buildings at the mountain top retreat were constructed of rough, hewn logs from nearby forests, in much the manner of their pioneer ancestors. Photograph by The National Park Service.

that had long vanished from America.

It is curious to note that the greatest success of the colony was enjoyed during the Great Depression. Perhaps, at that point in time, the residents looked about them and saw the tremendous strife and displacement of the country and decided that, while the mountaintop community would very exciting, it was a secure entity amid so much chaos.

But, with the outbreak of World War II, the settlement began its demise. As if the men left to enlist in the army or intense work and, after seeing the proverbial bright lights, were reluctant to return to the isolation and hard life of the settlement after the conflict. Gradually, everyone left it

Essential to their livelihood was the gristmill. This one is located on the Willie Gibbons farm at the settlement on Brush Mountain.

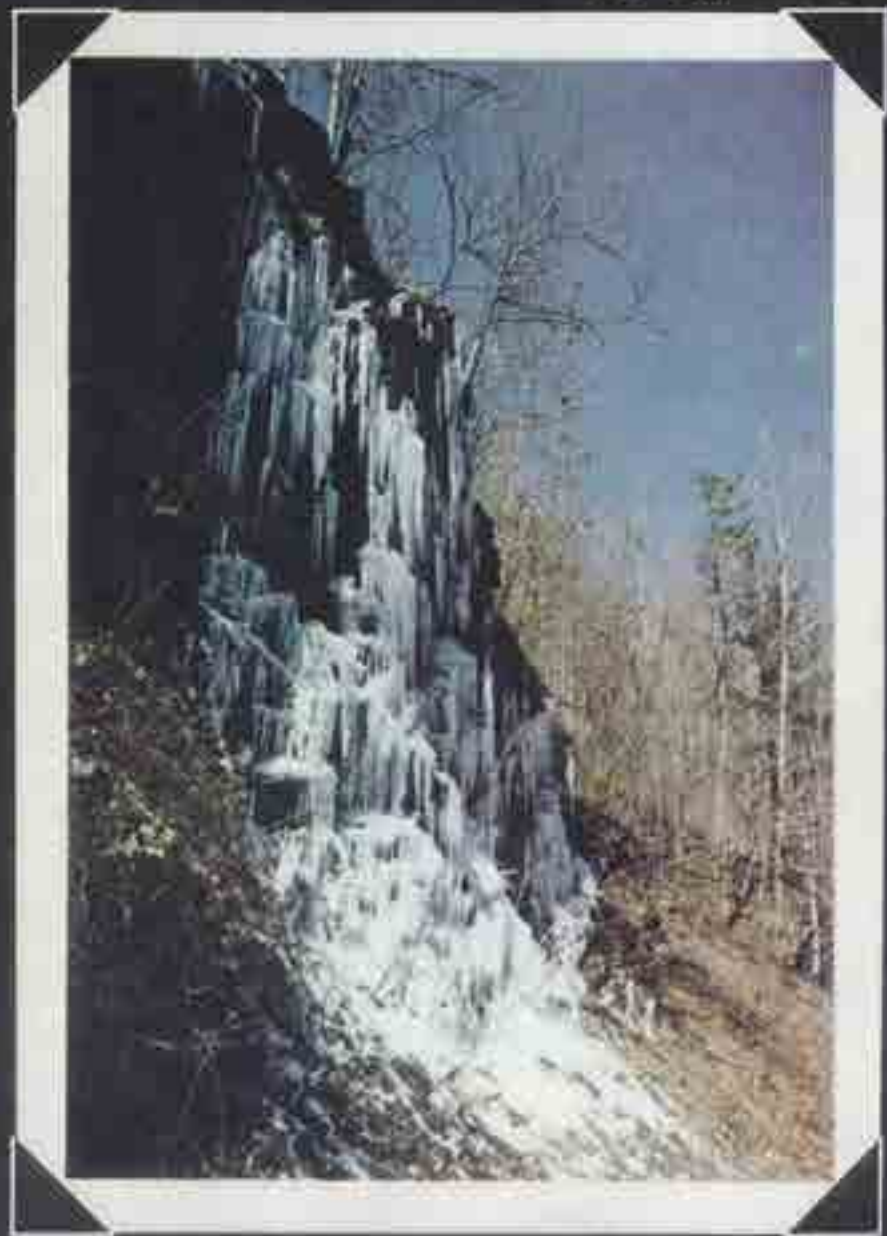




*Cades Cove  
In The  
Smokies*



*A typical Smokie's farmhouse*



*Winter in the mountains*

*By Jim Lynch*

It's as if time hasn't touched this place for almost a century. Old farmhouses built from logs and split rail fences still dot the countryside in much the same fashion as they did after the first pioneers moved into this isolated portion of the Great Smoky Mountains in the early 1800's.

They were a hardy, self-sufficient lot, mostly from England and Scotland and they held their privacy in high regard. Not until 1925, did they have a passable road to link them to the outside world. Today, Cades Cove visitors can see the cabins, churches and gristmills which were left when these mountain people sold their properties to the government at the time the area became part of the Great Smoky Mountains National Park in 1930.

Just a short walk south of the Cades Cove loop road is the cabin of John Oliver, believed to be the first settler in the area. History states that Oliver was given a tract of land in the wilderness as payment for his services during the War of 1812. His cabin,





*The Little River near Townsend*



*Solitude in the Smokies*

now fully restored, dates from 1818.

Since the area has become a national park, every effort has been made not to upset the ecological balance of nature. There is no timberline and wide expanses of trees cover the hills in green, then shed a portion of their used vegetation each fall to build the humus for the enormous variety of foliage for which the Smokies are famous.

The trees are, of course, part of a never-ending cycle existing because of the protection given the region by its national park status. Their life is interrelated with the smaller plants, the rhododendron, ferns and a multitude of wildflowers. They, in turn, are links in the chain of survival for many species and varieties of animals, birds and fish who reside in the park.

Truly, Cades Cove and the Great Smoky Mountains National Park are places where Mother Nature and Mankind have learned to live together in harmony.



*An Old Abandoned House*



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PRE CUT

# PUZZLE CORNER

Apparently, there are a lot of people in Tennessee who know their history. Last month we asked you who was the only bachelor President that the United States has ever had. We had over a thousand responses and only about a dozen were incorrect. That President was, incidentally, James Buchanan who served from 1856 to 1860.

The winners, chosen by lot from all correct answers on a rotating basis of the State's three Grand Divisions are as follows:

\*\*\*

First Place: James Richie Barber, Route 1, Stantonville, Tennessee 38379, a member of Pickwick Electric Cooperative—\$10

Second Place: Denise Johnson, 405 Roberts Street, Franklin, Tennessee 37064, a member of Middle Tennessee Electric Membership Corporation—\$5

Third Place: Sherry Bowers, Route 1, Englewood, Tennessee 37329, a member of Fort Loudoun Electric Cooperative—\$5

\*\*\*



And now for the April puzzle:

Three boys, Tom, Dick, and Harry, are standing on the street corner. One belongs to the True family, which always tells the truth. Another to the Liar family, which always lies. The third belongs to the Turnabout family, which always tells a lie followed by the truth (or vice versa). A stranger asks each of the boys what his last name is. Tom says "True". Dick said, "I'm a Liar, but Tom told the truth." Harry said, "My name is True but Tom is a Turnabout." What is the last name of each boy?

\*\*\*

Send your replies as soon as possible, along with your name, address including zip code, and the name of your electric cooperative to:

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## Pollution Control Bill

(Continued from Pg. 10)

Subsequent to 1959 — or 1961, when amendment went into effect — TVA payments have totaled \$891 million.

Therefore, TVA repayments since its inception have totaled more than \$1 billion 141 million.

In fiscal 1974, TVA will make a \$20 million payment toward its appropriations investment and a \$63 million payment as a dividend — a total payment into the U.S. Treasury of \$83 million in one year.

Indications are that \$170 million will be spent on pollution control equipment in fiscal 1974.

Furthermore, if the Environmental Protection Agency requires very stringent measures to remove pollution from steam plant stacks — as it has indicated it will — TVA will be forced into an outlay of \$1 billion during the next few years on this new and untried technology.

Under the bill before your Committee, the cost of these pollution control facilities would be applied the next year to cover the required dividend payment to the Treasury. The remainder would be applied to reduce the \$20 million investment payment — further, if the costs of pollution facilities exceeded these payments, the remainder would be applied to a further reduction of the remaining investment.

It is estimated the bill would save TVA \$85 million in the first year with benefits increasing substantially each year.

I would like to point out that the Tax Reform Act of 1969 provided an amortization deduction for certified pollution control facilities built by private corporations — TVA has no such recourse for relief.

In other words, the Congress has provided private industry with tax credits for the costs of pollution control measures — but has not provided any similar relief for public utilities or their customers who, in many instances, ultimately pay the higher costs in higher power rates.

This bill would provide some relief not only to TVA, but to its customers and consumers in the Tennessee Valley.

As you all know, TVA has long enjoyed its traditional role as a low-cost power rate yardstick, and in my view is in danger of losing this image because of the sharp increase in power rates over the past seven years.

TVA rates are rising more rapidly than the Nation as a whole, and TVA customers are paying a higher electric bill because four out of ten homes in the service area are all-electric.

In the Tennessee Valley today, residential customers are paying approximately 65 percent more for the same amount of electricity used seven years

(Continued to Pg. 30)

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# Uncle John's Page

This page is reserved for the young folks. We will pay one dollar for each poem or drawing published. ALL WORK MUST BE ORIGINAL. Drawings should be in black, and drawn on white, unlined paper. Tell us your age, address, and Electric Co-op, and

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P.O. Box 7232 Nashville, Tenn. 37210



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Gregory James (age 13)  
Route 3, P.O. Box 290-A  
Collierville, Tennessee  
Chickasaw E.C.

Lillie Gallahan (age 13)  
Star Toute, Grayville  
Dunlap, Tennessee  
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Ginger Clanton (age 15)  
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## Volunteer Views

(Continued from Pg. 4)

people have need to use 200 gallons of gasoline, but they have to pay 48-cents per gallon because gasoline wholesalers have increased their prices to retail service stations by 20%, or 8-cents per gallon. The service station operator doesn't make a penny more, but he does have to pass along that 8-cents per gallon wholesale increase in order to maintain the same margin that he had on lower priced gasoline the month before. Now, however, instead of our drivers paying \$40 for 100 gallons of gas, they have to pay \$96 for 200 gallons.

Would most drivers claim and complain to service station operators that their cost per gallon of gas had gone up 140%? Hardly the record-keeping drivers who know that they had used twice as much gasoline the second month as the first, and that their second month's gas reflected an 8-cents per gallon increase which went entirely to the wholesaler, not the retailer.

When some folks get their electric bills, however, the logic used in the example above goes out the window. It shouldn't!

This past winter makes for a good example. On successive months, the second month contained, on the average in Tennessee, twice as many or more "degree days" as did the first of the two months. This required, on the average, a use of twice as much or more electricity to heat homes the second of the two months as the first. On top of that, the second month's billing reflected a wholesale rate increase by TVA to its distributors (electric co-ops and municipal systems) which had to be passed along in whole or large part. For certain, however, the overwhelming portion of the increase in billing the second month over the first was in use, not rate increase.

Although few, if any, of us enjoy the necessity of paying more for goods or services one month over another, relatively few electric co-op members openly voiced their complaints about the higher bills of the second month over the first in the example used above.

One who did was the Editor and Publisher of a newspaper served by a Tennessee-headquartered electric co-operative. This gentleman reported, in his newspaper, that "electric rates" at his place of business had been increased by 232.6% between the December 1973 and January 1974 billing dates. He didn't bother to mention that his

use of electricity during the two months covered by these billing dates rose from 5,320 kilowatt hours to 13,560 kilowatt hours, an increase of more than 150%. His actual "rate increase" was 10.81% and this was a pass-along of wholesale power rates which TVA had made to his cooperative. Using the same billing periods, this same gentleman reported that his residential bill had suffered a "rate increase" of 224%, again not pointing out that electric consumption at his home had increased from 2,850 kilowatt hours to 8,690 kilowatt hours for the two months in question. The actual "rate increase" was 16.61%, this again a pass-along from TVA's wholesale rate increases.

Most Americans are fair minded when informed of all the facts on any given subject. Insofar as electric cooperatives are concerned, we should all bear these pertinent facts in mind.

Electric co-ops are owned by those they serve.

Electric cooperatives are non-profit, organized and operated to provide better living and working conditions for many rather than profit advantages for a few.

Electric co-ops are democratically organized and operated, with Directors chosen by popular vote to represent every section of a co-op system.

Rural Electrification is the "Program With A Heart," providing area coverage to all within a given co-op service area without regard to remoteness of applicant's property or potential usage of electricity, this within any reasonable business practice and judgement.

Electric co-ops' rates are stringently regulated, especially by wholesale power contracts with TVA.

Virtually every rate increase made by the 22 electric co-ops serving in Tennessee, during their entire existence, has been a pass-along of wholesale power increases made to the co-ops by TVA and many of these have not included the entire wholesale increases.

Electric co-ops, fewer than 40 years ago, came into existence to serve rural and small town areas that no one else wanted to serve. Their story of accomplishment, service and meaning to millions of Americans is nothing short of outstanding.

Electric cooperatives are tax-paying, people-oriented, good corporate citizens.

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## Pollution Control Bill

ago — and industries are paying 90 percent more.

*We need some relief, gentlemen, and I appeal to you — I urge you — to look with favor on this bill.*

*I urge you to report this bill to the full Committee — recommending prompt and favorable action thereon.*

*Thank you very much, Mr. Chairman and gentlemen.*

It is good to note that H.R. 11929 has been favorably reported by the full House Public Works Committee and is expected to be brought before the House of Representatives for debate and consideration in the near future.

Hopefully, similar action will be taken in the Senate at the earliest possible time.

Even more hopefully, the action of both Houses will be favorable to TVA, this in terms of what it means to ultimate consumers financially and to TVA in its role of the "yardstick" by which, in service and rates, the electric industry in America is measured.



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**HOLSTEIN DAIRY CALVES.** Holstein Bulls or Heifers, and mixed breed calves. 3 days old to Springers. Delivered on approval. Write Rascoe Cooper and Sons, Route 4, Sparta, Tennessee 38583. Phone — (615) 738-9960 or 738-5575.

**CALVES - CALVES - CALVES -** 2 to 14 weeks old. All calves delivered on approval with a Veterinary health certificate. Must meet with your approval on arrival only. Minimum order 15 head. We deliver or you may pick up your own from Wisconsin's most orn Calf barn. Visitors welcome. Call or write Bill Nolan Livestock Inc., Bondal, Wisconsin 54107. Phone 715-758-8484.

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Stately and majestic. Ideal specimen for lawn plantings. It's radiant year-round coloring may range from green to blue-green to silvery-blue. Truly an impressive showpiece. Colorado Blue Spruce will enhance your entire landscape. 3 for \$2.85.

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Thrives in sun or shade, explodes in mid-summer with abundant clusters of snow-white, cone-shaped flowers that slowly turn pink... then purple in fall! Easily trained, can be grown into Tree Hydrangea 8-25 ft. tall. A most desirable ornamental. 3 for \$2.75.

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