

MISS TENNESSEE
ELECTRIC CO-OP
1971



December, 1971

Tennessee

MAGAZINE

Dedicated to Better Living

Tennessee MAGAZINE

Official Publication of the
**TENNESSEE ELECTRIC
COOPERATIVE ASSOCIATION**

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Nashville, Tenn. 37210

J. C. Hundley, Executive Manager

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STAFF

John E. Stanford Editor
Don Murray Adv. Mgr.

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ON THE COVER

Our cover this month features the new "Miss Tennessee Electric Cooperative" and her court. For more details, see Annual Meeting story on Pages 6-7.

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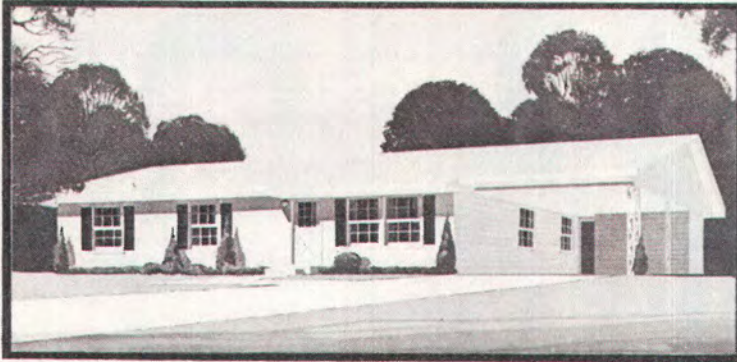
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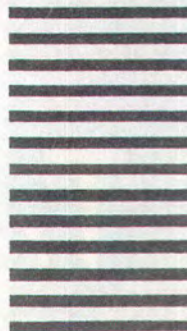
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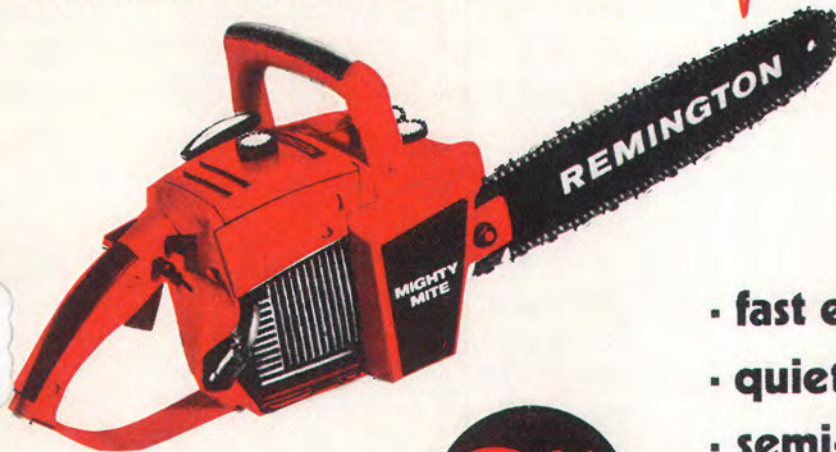
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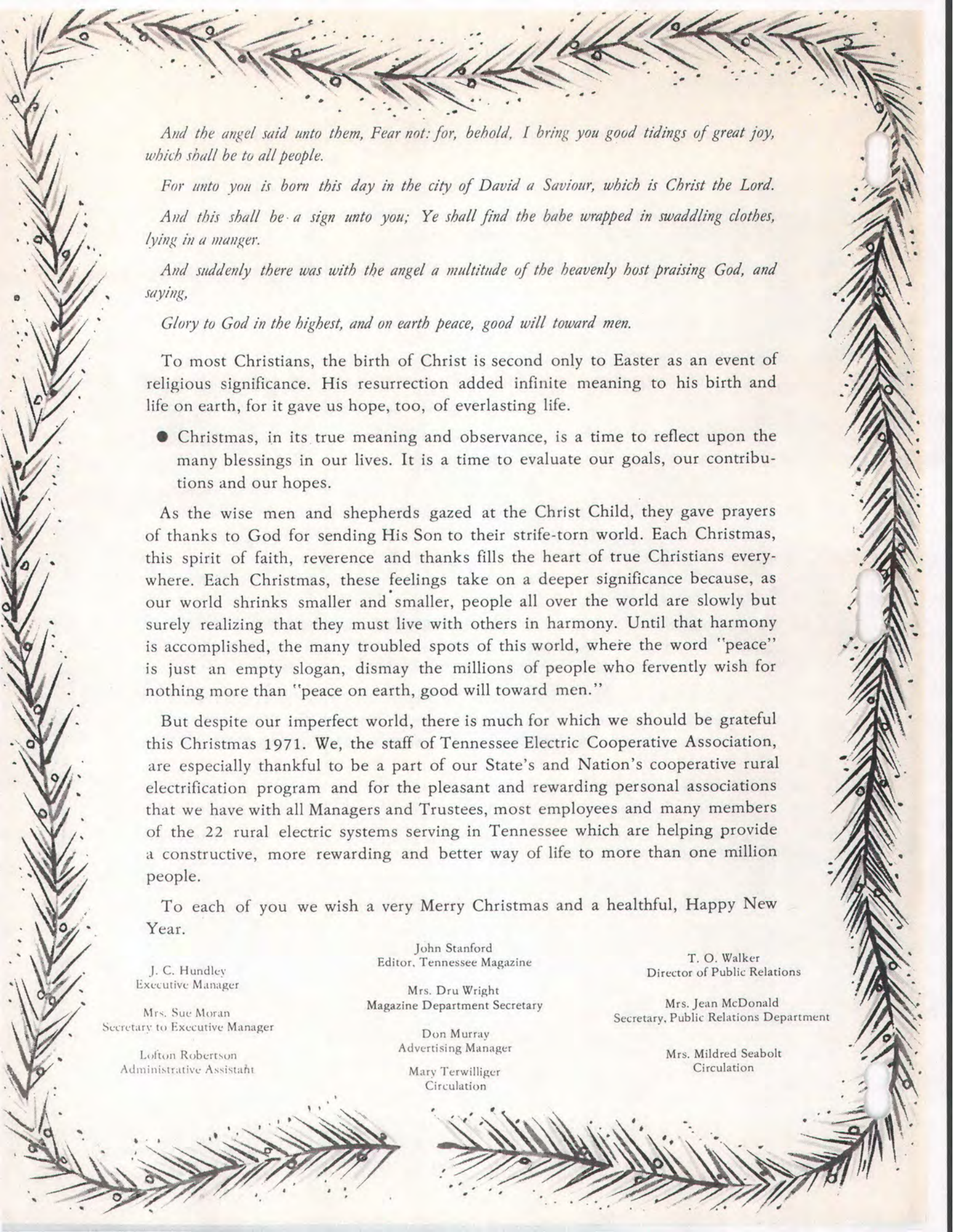
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And the angel said unto them, Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people.

For unto you is born this day in the city of David a Saviour, which is Christ the Lord.

And this shall be a sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying in a manger.

And suddenly there was with the angel a multitude of the heavenly host praising God, and saying,

Glory to God in the highest, and on earth peace, good will toward men.

To most Christians, the birth of Christ is second only to Easter as an event of religious significance. His resurrection added infinite meaning to his birth and life on earth, for it gave us hope, too, of everlasting life.

- Christmas, in its true meaning and observance, is a time to reflect upon the many blessings in our lives. It is a time to evaluate our goals, our contributions and our hopes.

As the wise men and shepherds gazed at the Christ Child, they gave prayers of thanks to God for sending His Son to their strife-torn world. Each Christmas, this spirit of faith, reverence and thanks fills the heart of true Christians everywhere. Each Christmas, these feelings take on a deeper significance because, as our world shrinks smaller and smaller, people all over the world are slowly but surely realizing that they must live with others in harmony. Until that harmony is accomplished, the many troubled spots of this world, where the word "peace" is just an empty slogan, dismay the millions of people who fervently wish for nothing more than "peace on earth, good will toward men."

But despite our imperfect world, there is much for which we should be grateful this Christmas 1971. We, the staff of Tennessee Electric Cooperative Association, are especially thankful to be a part of our State's and Nation's cooperative rural electrification program and for the pleasant and rewarding personal associations that we have with all Managers and Trustees, most employees and many members of the 22 rural electric systems serving in Tennessee which are helping provide a constructive, more rewarding and better way of life to more than one million people.

To each of you we wish a very Merry Christmas and a healthful, Happy New Year.

J. C. Hundley
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Secretary to Executive Manager

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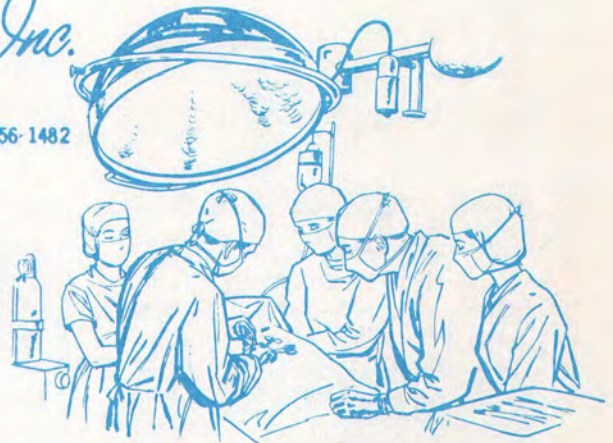
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"Power For People"

By John Stanford

Is Theme, Aim of Meeting

"Power For People," which is what Electric Cooperatives are all about, was both the theme and the purpose of the 30th Annual Meeting of the Tennessee Electric Cooperative Association, which was held the latter part of October at the Hilton Airport Inn in Nashville. Some 300 Electric Cooperative Trustees, Managers, key employees and friends of the rural electrification program in Tennessee attended.

The first morning General Session, presided over by TECA President K. Thomas Hutchinson, a Trustee of Middle Tennessee EMC, was devoted to his President's report, the Executive Manager's report of J. C. Hundley, the Treasurer's report of Lester N. Hamm, Trustee of Pickwick Electric Co-op, and the NRECA report of Tennessee's National Director, John R. Dolinger, Manager of Cumberland EMC.

The afternoon session, presided over by Fred A. Huffstetler, Trustee of Fort Loudoun Electric Co-op, was a series of fine speeches. John B. Davenport, Jr., Senior Legislative Representative for the National Rural Electric Cooperative Association (NRECA), Washington, D. C., spoke on "Power For People Through Cooperation." Toby Woodmore, Past Secretary of the Tennessee Future Farmers Association, addressed the well-attended Annual Meeting on "What Youth Wants From Their Electric Cooperative." The "Occupational Safety and Health Act" was the subject of Herman C. Potthast, Chief of the Borrowers' Safety Staff of the Rural Electrification Administration. William L. Jenkins, Commissioner of the Tennessee Department of Conservation, spoke on the "Power of People Through Government."

Following the afternoon session, a reorganization of the Board of



Happy parents of the new "Miss Tennessee Electric Cooperative" are Mr. and Mrs. Marvin Shepard of Route 1, Adams, Tennessee, shown here with their lovely daughter. The Shepards are members of Cumberland Electric Membership Corporation.

Trustees saw the election of James C. Milton, Manager of Gibson County EMC, to the Presidency of the Tennessee Electric Cooperative Association. Elected Vice President was Charles Balch, Manager of Appalachian Electric Co-op. Lester N. Hamm, Trustee of Pickwick Electric Co-op, was re-elected Secretary-Treasurer. Other Trustees elected or re-elected to the Board were K. Thomas Hutchinson, Trustee of Middle Tennessee EMC; John R. Dolinger, Manager of Cumberland EMC; Beecher Lawson, Trustee of Volunteer Electric Cooperative; and Glen Kilpatrick, Trustee of Tri-State Electric Cooperative.

As is customary, the spotlight of the Annual Banquet centered on youth, first on Steven J. Cross, a senior at Lewis County High School who was introduced and then presented a \$500 college scholarship by TECA as State Winner of its Youth Tour to Washington Essay Contest, and then on seven lovely young ladies representing electric systems from throughout the state in the "Miss Tennessee Electric Cooperative" beauty contest.

Winner of the contest and the right to represent Tennessee in the "Miss National Rural Electrification" contest in Las Vegas,

Nevada next February was Margie Shepard of Adams, Tennessee who represented Cumberland EMC in the State Contest. In addition to the expenses-paid trip to the National Contest, where she will compete for the top prize of a \$2,500 scholarship, the 5'-9" beauty won \$150 in cash, an engraved silver footed bowl, a bouquet of roses and a sash in the State Contest.

Runner-up in the contest was "Miss Middle Tennessee Electric," JoAnn Brandon of Smyrna. She received a \$100 check from TECA along with an engraved silver cake stand and sash. Third place went to "Miss Holston Electric," Frederica Ryan of Rogersville, who received \$50, an engraved silver covered casserole and sash.

The coveted "Miss Congeniality" award, voted by her fellow contestants, went to "Miss Mountain Electric," Suzanne Stout of Mountain City, who received an engraved silver Early American bowl for her recognition.

Also competing in the State Contest, all of whom received silver gifts, were "Miss Duck River," Susan Brock of Cowan; "Miss Gibson County," Cande Joyner of Bells; and "Miss Tri-State," Joetta McCarter of McCaysville, Georgia.

On the second morning General



Program leaders have a chat as, left to right, Past Tennessee Director and NRECA President Paul Tidwell, TECA President James C. Milton and TECA Immediate Past President K. Thomas Hutchinson get together between Annual Meeting sessions.

Session of the 1½-day Annual Meeting, presided over by Robert M. Turner, Trustee of Southwest Tennessee EMC, an outstanding Panel on "Cooperatives At The Crossroad" moderated by Ralph Miner, Manager of Powell Valley Electric Co-op, got things under way. Appearing on the Panel, by topics, were Fred Key, General Manager of Middle Tennessee EMC—"Financial"; Noel Laneth, Acting Manager of Pickwick Electric Co-op—"Member Relations"; and Charles Barnett, Manager of Tennessee Valley Electric Co-op—"Employee Relations."

The final speech on the program



J. C. Hundley smiles appreciation to delegates who had just presented him with set of luggage in appreciation for his 20 years of loyal service as Executive Manager of the Tennessee Electric Cooperative Association.

was given by Al Ballard, Director of Industrial and Commercial Development for the South Carolina Electric Cooperative Association on that State's "Stand Tall" Program.

Resolutions Committee Chairman Fred Key presided over the final business session, which heard and acted on Resolutions formulated by his committee.

The Tennessee Electric Cooperative Association is a Statewide service organization comprised of and supported by all of the 22 Electric Cooperatives distributing electricity to approximately 375,000 members in Tennessee.



The cooperatives' national organization, NRECA, was represented by John B. Davenport, Jr., Senior Legislative Representative from Washington, D.C.



One of the major speeches was delivered by William Jenkins, Commissioner of the Tennessee Department of Conservation.

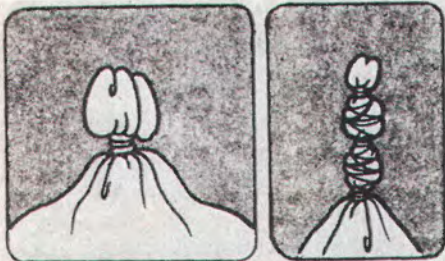


These were the seven young ladies who competed for the title of "Miss Tennessee Electric Cooperative." From left to right are "Miss Cumberland,"—Margie Shepard (the winner); "Miss Duck River,"—Susan Brock; "Miss Gibson County,"—Cande Joyner; "Miss Holston,"—Frederica Ryan (second alternate); "Miss Middle Tennessee,"—JoAnn Brandon (first alternate); "Miss Mountain,"—Suzanne Stout (Miss Congeniality); and "Miss Tri-State,"—Joetta McCarter.

Foods, Facts, and Fashions



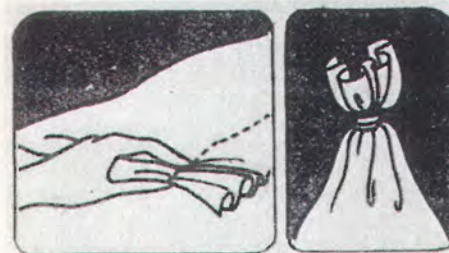
All tied up in knots



The rosette knot—Pinch fabric up; secure with rubber bands. For sunburst variation add more ties.



The donut knot—Make a rosette knot. Then, push the center through to the other side, fastening tightly in place with rubber bands.



Stripe—Place fabric on flat surface and mark place where stripe is desired. Gather between thumb and forefinger. Secure with rubber bands at the stripe mark. Use many bands together for broad stripe. Use single band for a narrow stripe.

■ Tie-dyeing, one of the oldest and simplest methods of resist printing used to create patterns on fabrics, has been rediscovered by today's teens. The fad has spread from clothing to piece goods for home sewing and home decorating.

The process is based on blocking of areas of fabric so that they are not exposed to the dye when submerged in a dye bath. This is done by tightly enclosing sections of the fabric in string, rubber bands, thread or wood blocks. Patterns are created depending upon the knots used. Fabric may also be crumpled up and tied in any fashion to make a random design.

In the sixth and seventh centuries, the Chinese tie-dyed silk. Today, most washable fabrics can be used, with the exception of those made from polyester, acrylic, glass or metallic fibers. Fabrics of 100% cotton can be dyed with dyes for home use, as can some acetates, rayon, nylon and silk. Triacetate can be dyed, but deep color penetration is not possible.

In selecting fabrics for tie-dyeing, you should read the care labels first, to see if care recommendations are compatible with the dyeing process. For example, fabric or garments that should be washed in warm water should not be tie-dyed, since the dye bath must be close to boiling. Textured fabrics should not be selected, because the heat of the dye bath may cause the texturing to become relaxed.

Commercial dye houses use equipment, chemicals and high temperatures that make for maximum penetration of the dye into the fiber. These conditions cannot be duplicated in the home, so dye penetration is low. For this reason, the tie-dyed items will not be too colorfast; they should be washed separately in cool water, to avoid bleeding and fading.

TIE-DYEING

You will need the following basic supplies:

- Articles of fabric to be dyed
- Liquid or powder dye
- Plenty of rubber bands and/or string
- Shallow pans (glass, metal, enamel), large enough to hold dye solution and submerged fabric
- Stove, hot plate, or other heating element
- Spoons or sticks for stirring
- Plastic or rubber gloves

To tie-dye the fabrics:

1. Pre-wash article(s) in hot, soapy water. Rinse thoroughly.
2. Make all knots on wet fabric laid on a flat surface. Fasten the knots tightly with rubber bands or string.
3. Prepare dye in a flat pan, according to directions.
4. Place wet fabric in simmering (not boiling) dye bath. Let knots float above solution when dyeing unknotted parts. Place fabric knots down to dye knotted areas. Submerge the entire piece if it is to be all one color.
5. Keep item in hot dye bath 15 or 20 minutes—longer for heavy fabric, or if a deeper shade is desired.
6. Remove from bath. Squeeze out excess dye, and rinse in cold, running water.
7. If a second color is to be used on some sections, repeat steps 3 through 6 now on those areas.
8. Untie knots. Re-rinse until water runs clear.
9. Drip dry. Iron while damp.

TIE-BLEACHING

In this process—which is tie-dyeing in reverse—the design effects are achieved by removing color, rather than adding it. Cotton, rayon/cotton blends, or all-rayon fabrics may be used. Other fabrics may be damaged by the bleach.

Fold or tie fabric as desired (as for tie-dyeing) and immerse in a chlorine bleach solution of 1 part bleach to 5 parts water. Leave in solution 5 minutes to one hour, depending on degree of bleaching desired. Rinse, remove rubber bands or cord and wash thoroughly in soap and water. Dry and press.

dodge drudgery with a dishwasher

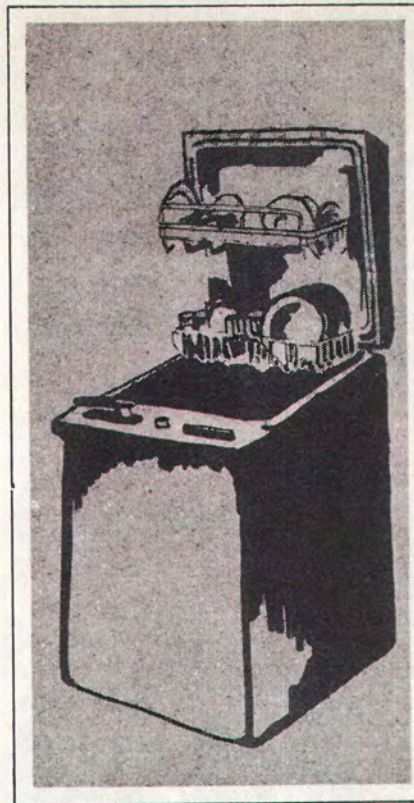
Studies show that electric dishwashers free the average homemaker of about 90 minutes of messy cleanups daily—more if she has a large family or entertains.

Tableware that would ordinarily be stacked on the counters or sink, or washed after each meal, can be placed right in the dishwasher and washed all at once at the end of the day. New models handle large capacities, require no pre-rinsing of dishes and deliver them ready to be stacked away.

The new dishwashers are easier than ever to operate and load and are equipped with a host of automatic features. Newest models accommodate dishes of just about every size and shape, with folding, revolving or adjustable racks. A variety of special cycles on many models offers selection of correct washing action for pots and pans, daily dishes and a gentle cycle for china and crystal. A rinse and hold cycle can be used to rinse a partial load then hold it until a full load has accumulated.

There are free-standing, built-in and portable models to choose from. There are portables which can be converted to built-ins (called convertibles) when a family moves or remodels. Kits are available for this purpose. Some portables that connect to the sink faucet have connectors which allow water to be drawn for other purposes when the dishwasher is operating. Portables are available in front and top-loading models.

Dishwashers come in a wide variety of colors and designs, some with interchangeable panel trims to match or contrast with other appliances or cabinets.



Convertible dishwashers are front loading portables ready to be built-in later. This Hotpoint model (above) is loaded with extras. If you live in an apartment, are subject to moving, or plan to remodel, this is probably a good choice for you to consider.

If you're remodeling your kitchen, replacing an old dishwasher, or substituting your choice in a builder-built new home, you'll want an under-counter model with permanent plumbing (left). There are pushbuttons for automatic programming for all types of load.

This new front load portable by General Electric (right) gives you two adjustable upper racks that can be moved up or down for loading flexibility. It has a mini-wash cycle for lightly soiled dishes (14 minute cycle). Rolls around on wheels, needs no plumbing. Removable top.



NRECA Region 3 Theme:

"Action Today = Results Tomorrow"

By John Stanford

A record 682 Trustees, Managers, key employees and other interested parties attended the NRECA Region Three Meeting held in Biloxi, Mississippi on November 7-9. Region Three is comprised of the states of Tennessee, Kentucky, Alabama and Mississippi and is the largest, local-membershipwise, of NRECA's ten regions. Local electric co-ops in the four states serve almost 1-million members.

Tennesseans were in positions of prominence—attendance-wise, program-wise and otherwise throughout the 2-day meeting.

The first Forum of the meeting was moderated by H. G. Gangwer, Manager of Fort Loudoun Electric Co-op, Madisonville. Subject of the Panel was "Priority: It Sure Is A New Ball Game."

Immediately following was an informal discussion panel on "Special Regional Priorities" on which NRECA Director John Dolinger reported for Tennessee.

The first Panel of the afternoon session was entitled "Priority: Lobbying At The Statehouse Level" and was moderated by J. C.

(Continued on Page 19)



Tennessee's NRECA Director John Dolinger, left, and Clarence Redmon, Industrial Representative for Caney Fork Electric, McMinnville, listen to speech of panel member. Dolinger, Manager of Cumberland EMC, Clarksville, presided over this session while Redmon was Panel Moderator.



"Meeting Challenge" was the topic of NRECA General Manager Robert Partidge.



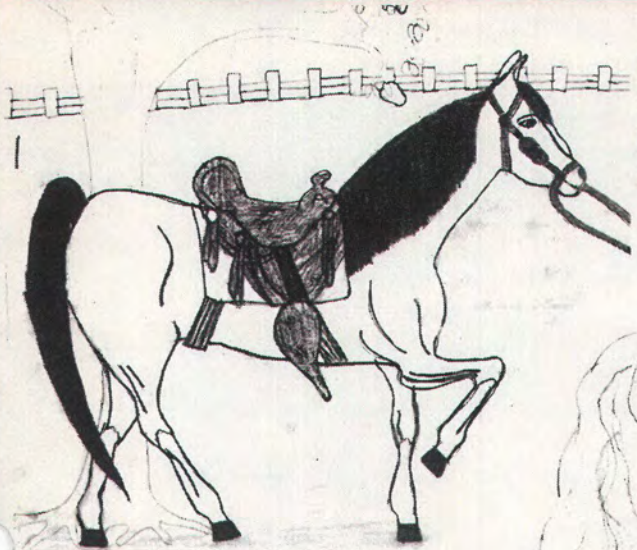
REA Administrator David Hamil was featured speaker of second morning session. At far left is Tennessee's NRECA Director, John Dolinger.

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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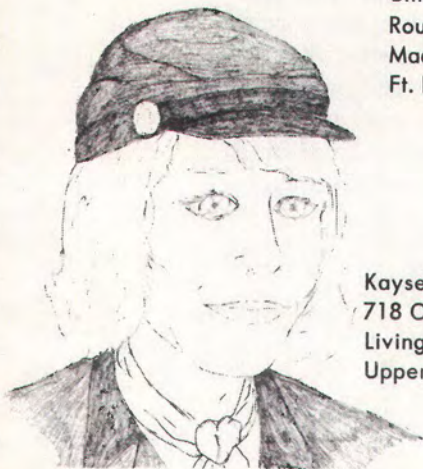
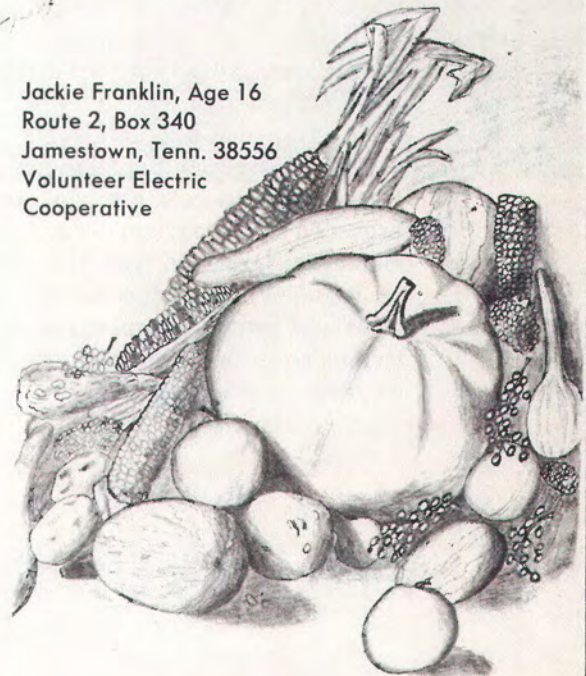


David Thomas, Age 11
Route 6
Humboldt, Tenn.
Gibson County E.M.C.

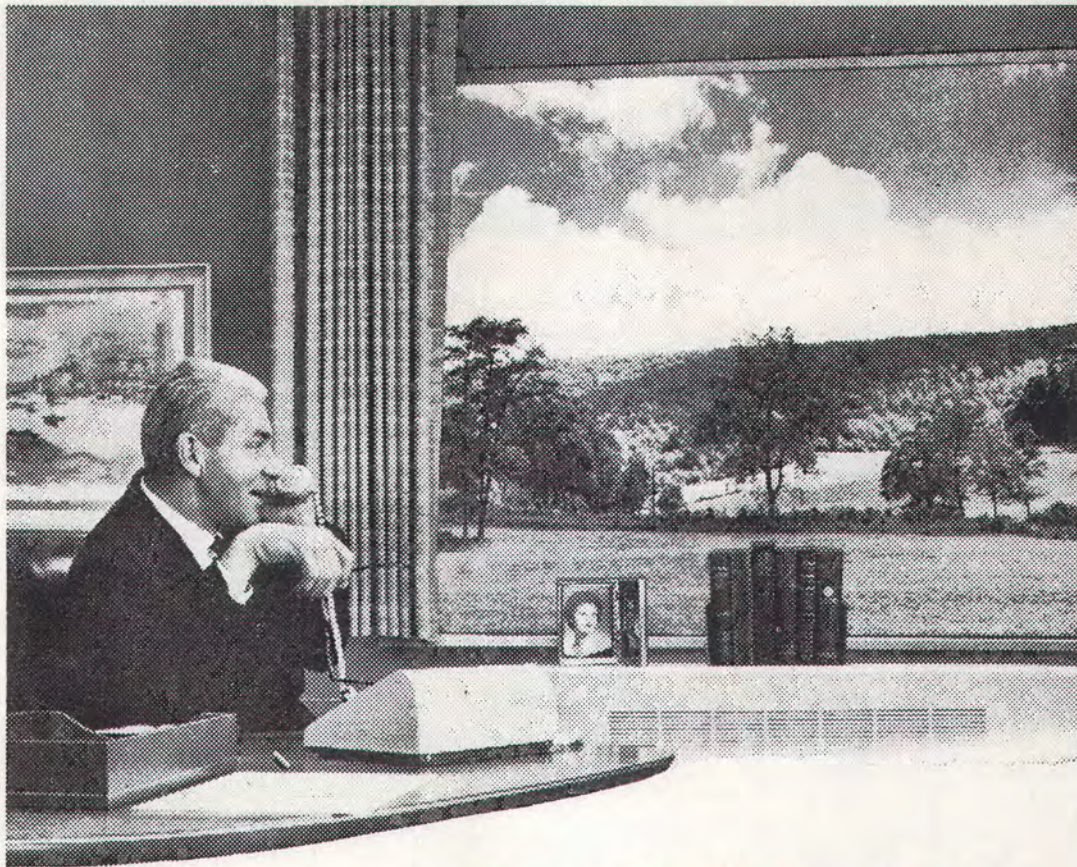


Jackie Franklin, Age 16
Route 2, Box 340
Jamestown, Tenn. 38556
Volunteer Electric
Cooperative

Bill Dailey, Age 15
Route 2
Madisonville, Tenn. 37354
Ft. Loudoun Electric Cooperative



Kayse Dishmun
718 Oakland Park
Livingston, Tenn. 38570
Upper Cumberland E.M.C.



A Breath of Fresh Air for American Industry

American industry is looking for a breath of fresh air. And, increasingly, it's finding it in the countryside.

That's partly because in the countryside there's electric power, provided by Consumer-owned rural electric systems, to turn the wheels of industry. And the people who built and own the rural electrics are there, too, helping provide local leadership and manpower.

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Tennessee's Electric Cooperatives





Pickwick Electric Cooperative's manager is in the Philippines . . . Wheatbelt lent a systems engineer to Vietnam . . . Nicaragua got one from Klickitat County . . . a co-op manager from Tulia, Texas, is in India.

More than a hundred volunteers from rural electric systems across the United States have gone to faraway places to share with others the know-how and imagination that solved our own rural power problem, years ago. They're

training local leaders how to organize and develop electric cooperatives . . . to turn new wheels of industry . . . to pump water . . . irrigate fields . . . lighten the chores of home.

Today, in Latin America alone, 37 of these electric co-ops are serving over half a million people. All around the world, we're helping people work together . . . making possible light and power for progress . . . hope and opportunity for people.

We Care. . . . We're Consumer-Owned

AMERICA'S RURAL ELECTRIC SYSTEMS

Timely Topics

LIMING IS ESSENTIAL FOR SOIL FERTILITY

The statement that "lime and fertilizer work hand-in-hand to produce maximum crop yields" will be more meaningful in the future than it is today, says Donald D. Howard, University of Tennessee soil fertility specialist. And, it's more meaningful today than in the past.

"This increased emphasis on the statement is directly related to the use of higher analysis fertilizers applied at higher rates which increases soil acidity," says Howard, assistant professor with the U-T Agricultural Extension Service.

He points out that the undesirable conditions associated with extremely acid soils can reduce crop growth and yields. "But, this by no means implies that we should reduce fertilization rates or buy lower analysis fertilizers," he says. "These high fertilization rates are needed for maximum crop production, and high analysis materials are usually the most economical buy. It is implied that we need to be more aware of the need for liming for continuous top yields."

The most common acid-forming fertilizers are those containing ammonium nitrogen, the agronomist says. As these fertilizers undergo normal soil chemical reactions, the acidity level is increased. The amount of acidity produced varies with both the amount and kind of fertilizer used.

"For instance, 125 pounds of ground agricultural limestone is required to correct the acidity formed by applying 100 pounds of ammonium nitrate," Howard says. "The acidity produced from 100 pounds of anhydrous ammonia requires 296 pounds of ground limestone for correction. A 100 pound application of 30-10-0 or 21-53-0 requires around 225 pounds of ground limestone to correct acidity."

Howard adds that these ground limestone amounts represent only the amount needed to correct fertilizer-produced acidity and do not indicate how much is needed to correct acidity formed by other factors. The only positive way of determining total limestone needs is through a soil test. This determination can be made by sending a soil sample to the University of Tennessee Soil Testing Laboratory, P. O. Box 11019, Nashville, Tennessee 37211.

PROTECT CORN YOU HARVEST

Picking and shelling corn that has above 20 percent moisture bring on conditions that favor mold growth, according to a University of Tennessee agricultural engineer.

"These molds cause spoilage, reduce grades and lower prices," says Kenneth E. DeBusk, associate professor with the U-T Agricultural Extension Service. "Some molds produce substances that may harm livestock and poultry."

DeBusk suggests that to avoid this problem, the moisture and temperature of shelled corn should be reduced as soon as possible. There is very little mold growth when corn moisture is below 13 percent or when corn temperature is below 40 degrees.

"Natural or heated air drying is the most practical answer to the problem," DeBusk adds. "However, it is impossible to lower the grain temperature to 40 degrees in Tennessee with natural air before mold forms. Heated air allows the crop to

be handled faster, but remember that too much heat may damage the corn. Keep drying air temperature below 140 degrees if possible."

GRADE 1-2 HOGS PRODUCE MORE MEAT ON LESS FEED

Grade 1 and 2 feeder pigs fed to slaughter weights in Overton and Hardin County demonstrations showed definite advantages over Grade 4 pigs, according to James G. O'Neal, University of Tennessee swine specialist.

"In both feeding demonstrations, the Grade 1 and 2 pigs required 14 pounds less feed to put on 100 pounds of gain," says O'Neal, associate professor with the U-T Agricultural Extension Service. "This would represent a savings of about 25 pounds of feed in carrying a hog to slaughter weight—a saving of about \$1 per head in feed cost."

O'Neal adds that the Grade 1 and 2 pigs also produced more meat with less fat. In both instances the loin eye measurement on the 10th rib was close to 5.0 square inches for the top grades and about 4.0 square inches for the Grade 4 pigs. The greatest difference in backfat was in the Overton test where the Grade 1 and 2 group had 1.36 inches as compared to 1.77 inches for the Grade 4's.

"In addition, the group that started off as Grade 1 and 2 feeder pigs had a higher percentage of trimmed ham, loin and shoulder; graded much higher as slaughter hogs; and were slightly longer than the lower grading pigs," he says.

These demonstrations were conducted by H. B. Garrison, Extension Leader in Overton County, and James Tracy, Extension Leader in Hardin County. The two trials represented a total of 80 hogs bought at Tennessee Feeder Pig Sales.

SET TREES ON IDLE ACREAGE

A University of Tennessee forestry specialist suggests that landowners look over their farms and see if there is any idle or sub-marginal land they can put into production by planting forest tree seedlings.

"The time to plant these seedlings is from late November through April," says James G. Warmbrod, assistant professor, U-T Agricultural Extension Service. "You can order your seedlings from the Tennessee Division of Forestry Nursery."

Warmbrod adds that you can get order forms from your county Agricultural Extension Service office or other agricultural agency. You can get help there in filling out the application and placing the order.

He says that the tree seedlings available from the State Nursery are loblolly and shortleaf pine and black locust at \$4 per 1000; white pine seedlings are \$6 per 1000; yellow poplars are one cent each; and stratified black walnuts are \$2 for 200, \$3 for 450, and \$4 for 1000.

Warmbrod recommends ordering early as orders are accepted as they are received. Mark your order form as to the month you want your seedlings and the county where they should be sent if it is other than your home address. Send the application to the Tennessee Division of Forestry, P. O. Box 1663, Jackson, Tennessee 38301.

There's A Solution To Problem Water

By Donald McDonald
Electrification Advisor
Middle Tennessee E.M.C.

Many homes in Tennessee have wells or water systems with undesirable contaminants such as sulfur, salt, lime, oil, iron, sand, sediment and bacteria. All of these undesirable elements can be eliminated with one of the modern water purification systems at a very economical price.

Purification equipment dealers will make a free test of the water to determine its contaminants and will make recommendations as to the needed components for each individual system.

In the Middle Tennessee area all various combinations of these contaminants can be found. During discussion with Johnny Chambers, owner of Chambers Purification Systems in Williamson County, it was noted that a large percentage of wells needed one or more pieces of purification equipment to eliminate an undesirable element. He stated that the latest government statistics showed that the average home owner using raw water is spending an additional \$16.21 monthly for soaps, detergents, etc.. Also, damage to water heating equipment and plumbing from mineral deposits amounts to many dollars per year. The cost of the purification system could be amortized through savings on detergents and repairs over a short period of time.

The average purification system consists of one or more components such as chlorinator, conditioner, or filter.

The chlorinator meters and injects chlorine into the raw water. This action kills the bacteria and viruses present and helps precipitate the sulfur present into small flakes which the filter will later remove.



Johnny Chambers (above) owner and operator of Chambers Water Purification Equipment, Inc. is shown making a water test to determine the specific pieces of equipment needed to obtain pure water at the customer's home.

The conditioner consists of a tank of synthetic resin beads which attract minerals present in the water. These minerals adhere to the beads until they become saturated, at which time an automatic electrical timing device regenerates or back washes the system, eliminating all of the deposited minerals. Lime or calcium which causes "Hard" water is readily eliminated. Today, many families served by "City" water systems are installing these conditioners to soften the water so that it will be more usable.

The filter section removes chlorination residue, sand, sediment, and other particles of foreign matter in the water. This unit is also periodically back washed to remove accumulated residue. The filter contains three grades of solid

particles and a large section of activated charcoal.

The entire system can be installed in a very small area within the home or in an exterior building or pump house. The system is safe, noiseless, odorless and requires very little, 120-volt, electrical power for operation.

Chambers stated that the cost of the system would be approximately \$750.00 installed. The chlorinator and filter have an eighteen month warranty with a ten year warranty on the conditioner.

With the increase in population and a growing scarcity of pure water, future generations may have to cease depending on natural filtration of the soils and rely on these home purification systems in the rural areas.



Mrs. Calvin Glenn of Flat Creek Community, shown above, was amazed with the savings in soaps and detergents after the installation of their purification system. They chose to install the system in the utility room.



Mrs. Eugene Wheatcraft, above, of Hickory Hills solved her sulfur water problem with the chlorinator and filter. Her system was installed in the garage.

Congressional Committee Digs For Coal Facts on TVA Hikes

By John Stanford



This is the Special Small Business Problems Sub-Committee which held hearings in Nashville recently. From left to right are two Committee attorneys, Congressman Neal Smith of Iowa, Joe Evins of Tennessee and Sylvio Conte of Massachusetts, and a third Committee attorney. Hearings were held at new University of Tennessee-Nashville.

The three-Congressmen Special Small Business Problems Sub-Committee of the Select Committee on Small Business came to Tennessee recently to ask questions about short-supply, high-priced coal which has forced TVA to sharply increase its price of wholesale electric power to distributors throughout the Tennessee Valley.

From the testimony offered by a parade of expert witnesses, the sub-committee must have returned to Washington with enough authoritative answers to shed all the light needed on the subject. The sub-committee was composed of Chairman Neal Smith of Iowa, Rep. Sylvio Conte of Massachusetts, and Rep. Joe L. Evins of Tennessee, who is Chairman of the full select

Small Business Committee of the U. S. House of Representatives. Fourth District Congressman Evins was instrumental in bringing the hearings to Tennessee.

Chairman Smith opened the hearings with these observations and statements of purpose:

"After decades of enjoying abundant low cost energy resources, our Nation is suddenly faced with a serious energy crisis. Fuel prices in many sections of the country have soared. As a result of the growing shortage of fuel resources, coal supplies available for use in electric power generation decreased to critically short proportions, with coal prices increasing substantially.

"The Tennessee Valley has had

a long history of low cost electric power. This abundant and inexpensive source of electricity has facilitated improved industrial, commercial and residential service throughout the region. Recently, however, the Tennessee Valley Authority has sharply increased its electric rates which has had a substantial impact on small business and consumers in this area. Rates have been increased about 25% in the past year with further rate escalations on the horizon.

"This Subcommittee has conducted extensive hearings on the energy crisis with especial attention to the possible anticompetitive effects of oil company and conglomerate acquisitions of competing fuel resources. Several

major oil companies have acquired coal and uranium reserves and production capacity to the extent that competition among substitute fuels may be substantially reduced. Such a reduction in interfuel competition could result in a decrease in energy resources and artificially high fuel prices. Further, small independent coal operators may be competitively disadvantaged through a decline in available markets.

"We open these hearings in Nashville and Oak Ridge to investigate the impact of growing economic concentration in the energy field and to determine the reasons underlying the recent electric power rate increases in the Tennessee Valley area."

Lead-off and one of the key witnesses was TVA Board Chairman Aubrey Wagner, who told the Committee members that the price paid for coal in 1971 under "new purchase" contracts rose to nearly double those paid for new coal purchased only a year or 18 months earlier. "The coal industry, which must surely provide a major share of our energy needs in the years ahead, points to its need for outside capital to finance the opening of new mines—openings which are needed to meet the growing demand for coal . . . TVA represents a market for at least 35-million tons of coal a year for many years in the future. We are willing and have regularly offered to enter into long-term contracts for that coal—contracts that can certainly serve to back up the financing of the heavy investments needed to open new mines. Many electric utilities across the country are, I assume, in the same position. Therefore, we must continue to ask whether the consolidated control of major raw energy sources is, in fact, necessary or in the public interest . . . While the consumer should expect to pay energy prices that will allow a fair profit to investors, fuel suppliers, and all the rest, there needs to be definition between fair profit and excessive profit . . . Electricity is quite 'price sensitive' as we have learned here in the region TVA serves. We just could price it to a point where its tremendous and vital potential to upgrade the overall quality of human life will be denied."

Questioned by the Committee members as to evidence of anti-trust activity by the oil companies which have bought considerable



Lengthy testimony was given by TVA Board Chairman Aubrey Wagner, who, along with aides, was asked a number of additional questions by Committee members.

coal and other energy interests, Wagner replied that "sometimes the results of their actions on prices are just as if there had been some consultation between them."

As a portion of his testimony, J. C. Hundley, Executive Manager of the Tennessee Electric Cooperative Association, pointed out that TVA has reflected a composite rate increase of 81.2% to its distributors over a recent period of 3½ years, due primarily to the increased cost of coal. Said Hundley: "It has become evident that some of the large oil companies have bought into the coal industry in such amounts as to influence its production and price. . . . If these energy giants come anywhere close to securing a corner on the coal and nuclear energy supplies in this country, and these acquisitions are allowed to stick, we in the electric generation and distribution business are in very deep trouble. On behalf of the 389,000 members of our 22

cooperatives, I urge the Federal Government to bring its full power into action to break up this gigantic monopoly of the energy fields and return these industries to the healthy condition of free competitive enterprise."

Barrett C. Shelton of Decatur Alabama, Chairman of the Emergency Committee for the Tennessee Valley and President of the Tennessee River Valley Association, warned the Congressmen that "the fuel price situation is ever changing, full of the unexpected" and that "it has far flung implications not only for the national economy but for the dependability of our supply of electric power."

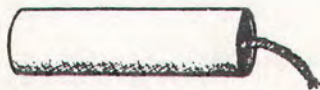
Others who testified included Fayetteville businessman Joe Sir, TVPPA Executive Director Wiley Bowers and Lawrence Meyer, Director of the Office of Policy Planning and Evaluation of the U. S. Federal Trade Commission.



J. C. Hundley, Executive Manager of the Tennessee Electric Cooperative Association, testified in behalf of 389,000 members served by 22 electric co-ops in the state.

With the Christmas—New Year's Holidays upon us, Here are some words of caution and warning about . . .

The traffic of illegal fireworks within the State of Tennessee has increased many times during the past several months. It is a problem which the Tennessee State Fire Marshal's Office has to deal with on a day-to-day basis; however, it is a little known problem to most of the residents of Ten-



FIRECRACKER*

nessee. The illegal type fireworks being sold within this state consist mostly of Cherry Bombs, M-80's and Silver Salutes. These items are classified as Class B fireworks. Any type explosive firecracker which measures in excess of 1/4 inch in diameter and 1 1/2 inches in length is considered illegal, and the three items previously mentioned do not come within these measurements. The reason measurements are so vital in the type of legal or illegal fireworks is the larger the size fireworks, the more powder can be placed inside them.

The Food and Drug Administration of the Public Health Department, which enforces the laws pertaining to illegal fireworks on a Federal level, states that any firecracker which has in excess of two grains of black powder is illegal; however, the State laws go one step further to include the measurements which make fireworks illegal.

During recent weeks there have been several arrests and convictions on illegal fireworks. Some of these arrests have taken place in Carter, Grainger, Sumner, Polk, Robertson, Loudon, and Decatur



CHERRY BOMB*

Illegal Fireworks In Tennessee

By Edward W. Kimsey, Director
Division of Fire Prevention



SKY
ROCKET

Counties. Of the illegal fireworks seized during raids in these counties that have been opened, it has been found that some of these fireworks contained as much as 41 grains of powder. It is easy to see the potential danger of illegal fireworks when they are placed in the hands of children or even adults. The reason the Tennessee State Fire Marshal's Office is so concerned regarding the size of illegal fireworks is that it has been found that some of the Cherry Bombs, M-80's, or Silver Salutes shipped into this state do contain a legal amount of powder which is two grains. If it were permitted to legally sell these fireworks and they were treated as legal fireworks, and a child were then to buy the same firecracker in appearance but it contained a large amount of black powder, it is easy to see the results which could take place if someone was injured while treating the firecracker as being legal.

The Cherry Bomb is red in color and is round in shape, with a fuse

protruding from it. There are normally no markings or identifications on the individual Cherry Bombs such as is required of legal type fireworks.

The M-30 and the Silver Salute firecracker are of the same shape and size, which is approximately 1 1/2 inches in length and approxi-



FOUNTAIN

mately 1/2 inch in diameter, with a fuse protruding from the side of the tube. The Silver Salute is of a silver color and the M-30 is a red color.

The legal type fireworks sold within the State of Tennessee are classified as ICC Class C Common Fireworks. Each package which contains legal fireworks will be so marked and publicly displayed, whereas the illegal fireworks have to be asked for from the operator of a fireworks stand and are usually kept hidden from public view. If Class C fireworks are handled in a safe manner and never held when being lit, they are relatively safe. The illegal type fireworks are extremely dangerous even when handled very carefully because many times the makers of illegal fireworks will use a filler of small gravel or some other material which will not collect moisture when it is placed inside these items with the black powder. The makers of the illegal fireworks do not want the black powder to be loose inside the container when it is shaken by movement.

The following items are considered as legal fireworks within



M-80* SALUTE ASHCAN

the State of Tennessee: (1) Roman Candles which do not exceed 10 balls. (2) Sky Rockets with sticks. (3) Helicopter type rockets which do not exceed 20 grams in weight. (4) Cylindrical fountains. (5) Cone mountains. (6) Wheels. (7) Illuminating torches and colored fire in any form. (8) Sparklers and dipped sticks. (9) Firecrackers and salutes with external dimension not to exceed 1½ inches in length or ¼ inch in diameter.

Even though these items are permissible to be sold legally within the State of Tennessee as Class C fireworks, it is unlawful to offer for retail sale or to sell any fireworks to children under the age of ten years, or to any intoxicated or irresponsible person. It shall be unlawful to explode or ignite fireworks within 600 feet of any



ROMAN CANDLE

church, hospital, asylum, public school, or within two hundred feet of where fireworks are stored, sold, or offered for sale. It is unlawful to ignite or discharge any permissible fireworks within, or throw from, a motor vehicle or to throw any such item into a vehicle, or at or near any person or group of people. When selling fireworks at or near a place of business where flammable liquids such as gasoline, kerosene, diesel fuel, or oil are dispensed, the fireworks are to be displayed and offered for sale at least 60 feet away from such flammable liquids.



BOTTLE ROCKET

It is the hope and desire of the State Fire Marshal's Office that all persons who purchase for their own pleasure legal fireworks which they desire to shoot, to treat them in a very safe manner so that no one will be killed or injured during the Christmas and/or New Year's holidays from the wrongful or unlawful use of fireworks.

**The devices shown are some of the more common pyrotechnic devices but they are by no means the only devices available. Figures shown are not sized to correct proportion.*

PUZZLE CORNER

Hundreds of correct answers are pouring in every day! We waited until the last minute to draw for winners, so that we might have as many returns as possible.

Our November puzzle asked you to arrange the following list of names in the proper chronological order, which is exactly what we have done below:

Abraham
Moses
Solomon
Ceasar
Paul
Mohammed
Columbus
Shakespeare
Washington
Napoleon

Winner of the November Puzzle Corner and a \$10 check from THE TENNESSEE MAGAZINE is Mrs. Neota Goodwin, Route 6, Sparta, Tenn., a member of CANEY FORK ELECTRIC COOPERATIVE.

Second and third place winners of \$5 each are Mr. Elmer F. Kite, Surgoinsville, Tennessee, a member of HOLSTON ELECTRIC COOPERATIVE and Miss Cheri Garrett, Route 2, Michie, Tenn. 38357, a member of PICKWICK ELECTRIC COOPERATIVE.

In our December Puzzle Corner the "Farmer Goes To Market . . ." He buys a hundred animals at a total cost of \$1,000. The price of cows being \$50 each, sheep \$10 each, and rabbits 50¢ each, how many of each kind does he buy? Most people will solve this, if they succeed at all, by more or less laborious trial, but there are several direct ways of getting the solution.

Send your name and address, along with the name of your electric cooperative to:

PUZZLE CORNER
The Tennessee Magazine
P. O. Box 7232
Nashville, Tennessee 37210

J. C. Hundley, Executive Manager of the Tennessee Electric Cooperative Association, was Moderator of Panel on "Priority: Lobbying at the Statehouse Level."

NRECA Region 3

(Continued from Page 10)



H. G. Gangwer, Manager of Fort Loudoun Electric Co-op, Madisonville, was Moderator on Panel addressing itself to "Priority: It Sure Is A New Ball Game."

Hundley, Executive Manager of the Tennessee Electric Cooperative Association. Tennessee NRECA Director John Dolinger, Manager of Cumberland Electric Membership Corporation, spoke on this same panel. Dolinger also presided over the second portion of the afternoon General Session which saw still another Tennessean, Clarence Redmon, Industrial Representative of Caney Fork Electric Co-op, McMinnville, preside over a Panel entitled "Priority: Rural Development—Will It Work?"

The feature of the second morning session was an address by David A. Hamil, Administrator of the Rural Electrification Administration.

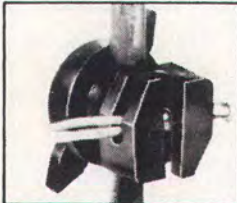
Also featured on the second morning session was recognition of three Tennessee Electric Co-ops—Pickwick Electric at Selmer, Middle Tennessee at Murfreesboro and Cumberland Electric at Clarksville—for their participation either by organization or employees in NRECA's Overseas Program and completion of series of Management Institutes.

Tennessee was host of the Region Three Meeting in 1970 and will repeat in 1974. More than 100 Tennesseans attended the 1971 meeting in Biloxi.

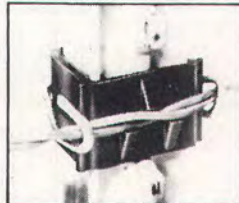


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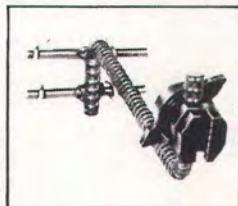
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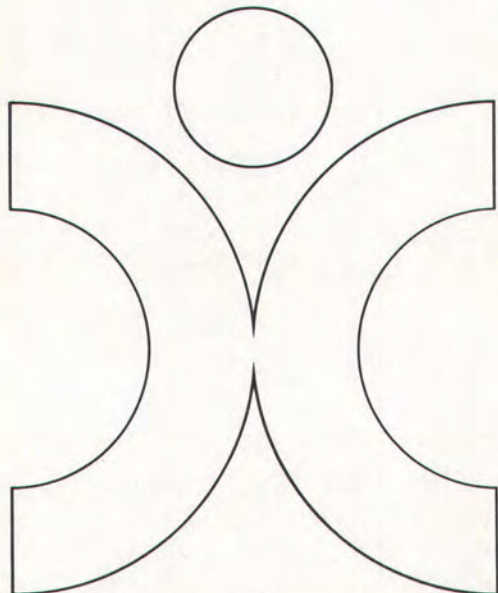
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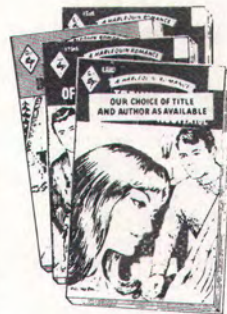
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F. Office Use, left over, unaccounted, spoiled after printing	355	475
G. Total (Sum of E & F-should equal net press run shown in A)	219,664	234,356

I certify that the statements made by me above are correct and complete.
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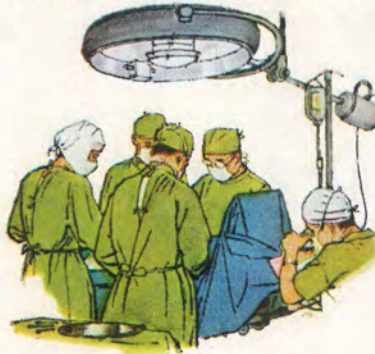
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