

Tennessee

DECEMBER, 1969

M A G A Z I N E

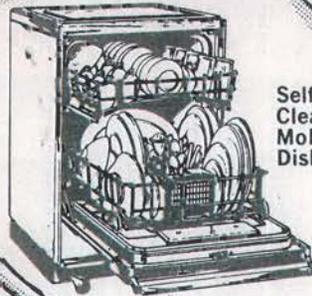
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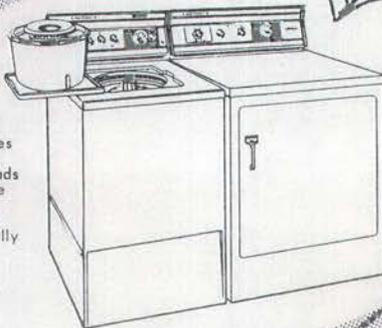
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PUZZLE CORNER

One of our several hundred entries this month inquired about the deadline for each contest. Since this is about the last item of business each month, we can use a deadline of the 12th of each month for your entries to be received in our office. But don't delay in making your Puzzle Corner entries. Get them in as soon as you can after receiving *The Tennessee Magazine* each month. And by all means include the name of your electric co-op. This is a MUST for your entry to be considered for drawing.

The answer to the train one mile long traveling through a tunnel two miles long at 30 miles per hour is SIX MINUTES.

The October winner is J. T. Harris of Moscow, Tennessee, a member of the Chickasaw Electric Co-op. Mr. Harris receives a check for \$10. Second and third place winners of \$5 each are Mrs. Titus Sullivan, Jr. of Spencer, Tennessee, a member of Caney Fork Electric Co-op and R. Z. Phipps of Church Hill, Tennessee, a member of Holston Electric Co-op.

Here is the December puzzle: Arrange the puzzle area by drawing two vertical lines and intersecting them with two horizontal lines which looks something like this # except larger to provide proper working space. In each of the nine spaces, which resembles the game of tick-tack-toe, place one number from and including the numbers one through nine so that the sums of each line—across, up-and-down and horizontally—all add up to a total of 15. Remember, all nine numbers from one through nine must be used but no number is to be used more than once.

Send answers to:
Puzzle Corner
The Tennessee Magazine
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Tennessee MAGAZINE

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**TENNESSEE ELECTRIC
COOPERATIVE ASSOCIATION**

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J. C. Hundley, Executive Manager

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ON THE COVER

Beautifying our cover this month are the top three contestants in the recent Miss Tennessee Electric Co-op beauty contest. From left to right are Second Alternate Elizabeth Ann Yancey (Miss Chickasaw); the winner, Janet Marie Porter, who competed as Miss Gibson County EMC; and First Alternate Delta Joan Herndon (Miss Cumberland EMC).

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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 1969. 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.

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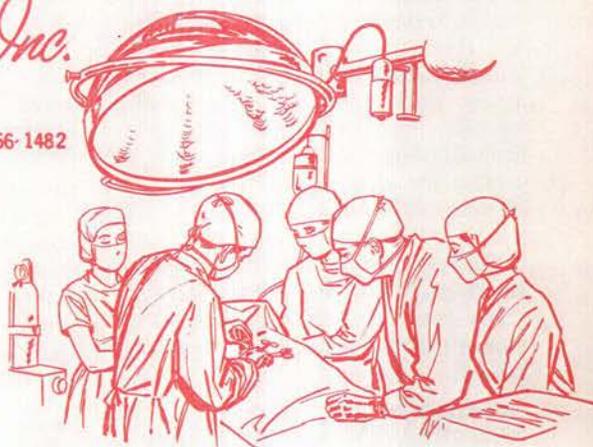
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May Christmas 1969 Be Your Happiest -- So Far



By VIRGINIA LOWE, Home Economist
Cumberland Electric Membership Corporation

The excitement of Christmas is right around the corner and with it comes an opportunity to personalize your home decorations and gifts for the holiday season. There is something about the feeling of Christmas that gives us all—adults as well as children—a sense of security and pleasure.

Christmas is a nice warm feeling. It's holly on the mantle piece, candles on the window and homemade cookies on the cupboard.

Christmas is a time for giving and gifts that give throughout the year are the best of all. Electric gifts are always desirable. Perhaps there is a man on your list who would like an electric slicing knife so he will "appear to be" a better carver than he really is or perhaps he would like a massager with a heat attachment to help him completely relax after a hard day's work.

For the lady of the house, there are so many items to select. Perhaps she will be like Mrs. Earl Clark, Jr., Home Agent in Montgomery County, and desire a blender. This is an appliance that makes a nice gift for either the lady or the man of the house. Blenders can literally be used to make soup or to chop nuts or

anything else in between.

Teenagers on your list would welcome an electrical gift such as an electric hair curler, manicure set, toothbrush, guitar or organ.

Speaking of gifts that keep giving, the dryer and dishwasher certainly are welcome gifts for the entire family. If you do not have a place to store a permanently installed dishwasher, perhaps you could consider a portable dishwasher that can later be permanently installed.

As well as giving electrical gifts, the gift that costs nothing is appreciated so much, too. So many of us get rushed at the last minute and buy a gift that has had no thought put into it. Perhaps you have a friend who has a sweet tooth and would cherish a homemade gift of food. The recipe for Holiday Fruit Drops is a good gift cookie, as it makes up in a large quantity and can be made ahead of time and frozen.

HOLIDAY FRUIT DROPS

- 3 1/2 c sifted all-purpose flour
- 3 c chopped pitted dates
- 1 1/2 c coarsely chopped pecans
- 2 c halved candied cherries (candied fruit mix can be used)
- 1 c soft shortening

- 2 c light brown sugar (packed)
- 2 eggs
- 1 t baking soda
- 1 t salt
- 1/2 c buttermilk

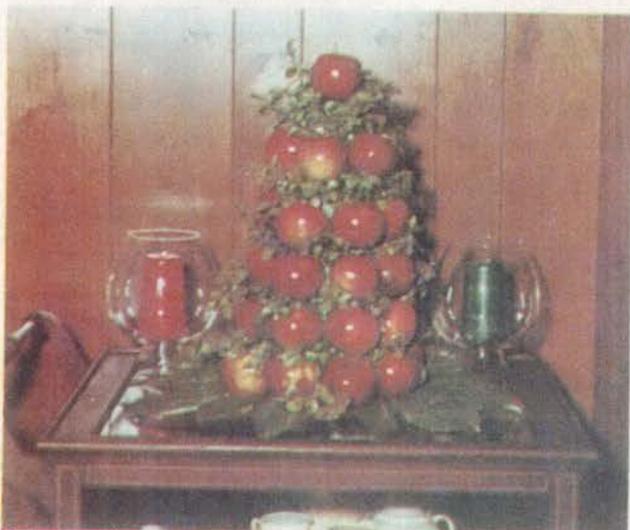
Sift flour with baking soda and salt. Mix shortening, sugar and eggs until creamy. Blend in flour mixture alternately with milk. Stir in pecans, cherries and dates. Refrigerate at least 1 hour. Drop a round tablespoon of dough—2" apart on a greased cookie sheet. Top with pecan half or candied cherry (opt.). Bake 8-10 minutes at 400°F. Yield: 8 dozen. Cookies can be stored in an air tight container for several weeks. Batter may be stored in refrigerator several days, use as needed.

A simple, but attractive way of serving cinnamon rolls on Christmas morning is to use two packages of the cinnamon refrigerator rolls with icing and arrange in a tree shape.

CINNAMON CHRISTMAS TREE

- 2-9 1/2 ounce packages cinnamon refrigerator rolls with icing
- 3 Tablespoons chopped candied citron
- 3 Tablespoons chopped candied cherries

Separate rolls and arrange on a 10 x 14 inch greased baking sheet in rows to simulate a Christmas tree (starting at the



The Paradise tree makes a good centerpiece or table decoration.



One-half of a round hat can be the "core" of an attractive door decoration.

center top of baking sheet, arrange rolls very closely in rows of 1-2-3-4-5 and then 1). Bake in a preheated 375°F. oven for 18 to 20 minutes. Remove from baking sheet onto a platter or bread board. While still hot, spread with icing that is in package. Sprinkle with candied cherries and citron to decorate. Serve hot. Yield: 16 cinnamon rolls. This tree is particularly appealing to children.

Entertaining reaches its peak during the holiday season and many of us are looking for a "different" punch recipe. Racy Red Punch can be made ahead of time and has a delicious flavor as well as a perfect color for Christmas.

RACY RED PUNCH

1 (46 oz.) can grapefruit pineapple juice
 1/4 c red hot cinnamon candies
 1/3 c sugar
 1 quart gingerale, chilled

Heat one cup juice with sugar and candy. Combine with remaining juice and chill thoroughly. Just before serving, add chilled gingerale. Servings: 20

Outdoor decorations and lights say, "Merry Christmas" to everyone who passes by, many that are strangers to you. The wreath or door decoration says "Welcome" as people approach.



One of the most exciting things about Christmas is the fun of making your own Christmas decorations for both the inside and outside of your house. Christmas decorations are limited only by your imagination. A cute door decoration can be made by backing half a round hat box with cardboard and covering the front with red and green ribbon and gold cording. Glue 1 1/2" green ribbon strips at top and bottom edges of hat box. Glue 2" strip of red ribbon in center. Glue gold cording around edges and sides of red ribbon. (Or glue two wide strips of red ribbon across the front of the hatbox.) Stick boxwood or other greenery in styrofoam in bottom of hatbox.

Add wired red satin balls in greenery. Staple three ribbon streamers, approximately 18-20" in length, on center, back and each side of hat box. Add a red bow to top of the streamers.

Each year you probably see at least one decoration that you would like to make the next year — if you have time. Finally, last year I made a Paradise Tree. This tree makes an excellent gift for an older person or couple that does not have room for a regular Christmas tree. Christmas dec-



orations make wonderful gifts and certainly the homemade decorations are much appreciated.

To make the Paradise tree, use a large green styrofoam cone (or spray a cone green), small red apples which have been treated with a solution of equal parts of denatured alcohol and shellac. Put florist picks in the apples at an angle. Stick apples on picks in the cone beginning at the base, circling the entire cone. Insert boxwood between the apples. Set the tree on a circle of magnolia leaves at the base. Be sure to select apples that are blemish free and of uniform size and color.

Not only is it fun to make indoor decorations, but lighted decorations on the outside of your home help to tell others that this home has "the Christmas spirit." Christmas lighting does not mean only the use of store decorations or self lighted displays. But it does mean the tasteful use of artistic decorations and free-standing displays (either homemade or bought) dramatically illuminated so that they are set off from all the others in the neighborhood.



Consider the house or area to be decorated or the display to be installed. What features of house or ground need to be emphasized?

The focal point usually needs strong illumination. It can also be emphasized by color contrast, style, and size in relationship to the other elements. The chief requirement is that it immediately attracts the eyes and that all other elements be subordinated to it.

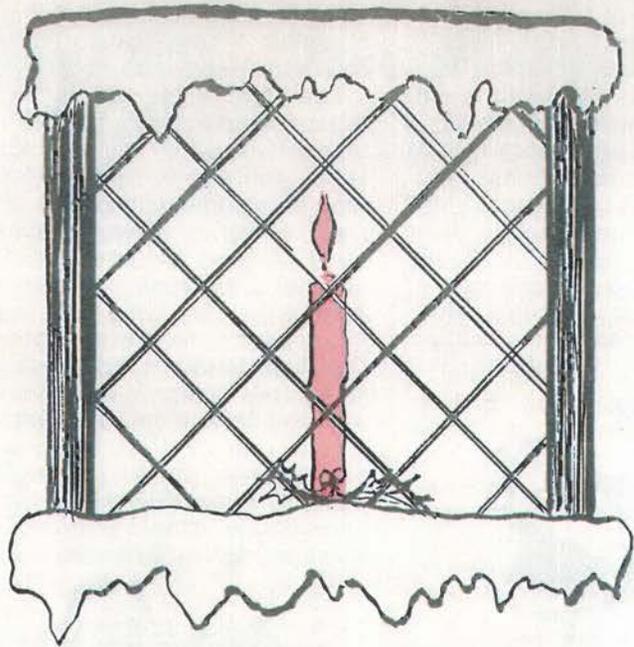
Secondary points of interest that help to carry out the theme should not compete for attention with the focal point. They should be so related that the picture would seem to be incomplete without them. Slightly subdued illumination should be used on these secondary features.



Unifying all elements is the job of your general illumination. Using diffused light over the entire area from floodlamps is a good solution to this problem. However, unity can be obtained with strings of lamps forming lines or paths of light, or by a combination of the two. This should tie the entire picture together, and when glare, sharp unwanted contrast, and hazardous shadows are eliminated, the picture is complete. Be sure to consider the view of the spectators, most of whom will be driving by your display. Their attention will be focused on your display only if it differs from that of your neighbors.

How are you using your regular C7 1/2 or C9 1/2 Christmas lamps? Are you also using spot and flood lamps (with or without filters)? Be sure they supplement each other and do not fight for attention nor drown each other out.

Remember it is what you do with what you have: the artistry, originality, ingenuity, and lighting techniques, that makes a good display. Put the same care in your Christmas lighted display that you do in choosing your Christmas cards, because your display is your holiday greeting to all who pass by.



The Cobbler's Christmas Guest

Many years ago there lived in a small village a cobbler by the name of Conrad. Though alone and poor, this kindly old man always had friendly and consoling words for everyone.

At Christmas time, some neighbors decided to visit their friend Christmas morning since he had no family. To their amazement, they saw that his wrinkled old face was radiant.

As they entered his shop, they saw a room made festive with holly and evergreen, and the table was laden with delicacies.

"Who is coming to visit you?" one neighbor asked in surprise.

"Last night the Lord appeared to me in a dream and told me that He wanted to be my guest on Christmas Day. I am all prepared for His arrival," Conrad replied. After the neighbors had left, Conrad sat waiting for his hallowed guest. While he waited, a beggar passed his window, ragged, and half starved. Conrad called him in, fed him and gave him shoes for his nearly frozen feet. After the beggar had left, an old woman hobbled by carrying a sack of wood. Conrad served her dinner, let her rest before the fire, and then helped her on her way.

Again, he sat by the window waiting for his important guest. Suddenly, he heard the sobbing of a child. When he opened the door, he saw a frightened, cold youngster.

After some warm milk and soothing words, he reunited the child with its worried mother.

Once more he returned to his vigil, but night was falling fast. Where was the promised guest? Anxious and weary, Conrad dropped to his knees.

"Oh, Lord," he pleaded. "What has delayed You?" Then out of the silence came a voice:

"Conrad, be not dismayed, for
Three times I came to your friendly door,
Three times my shadow crossed your floor.
I was the *beggar* with frost-bitten feet,
I was the *woman* given food to eat,
I was the *child* in the lonely street."

adapted from
"A Time for Christmas"

Initiative Develops Industry

By Lofton Robertson
Administrative Assistant TECA

Fifteen months ago Thomas Travis was very much occupied as the Chief Engineer for a small West Tennessee furniture manufacturer. However, in September, 1968, he awoke one day to the realization that his employer had gone out of business and he was out of a job.

This would shake most anyone, but Thomas is not one to let "grass grow under his feet" so he began planning for the future. He is a good machinist and had a few tools for this business, but his area has several nice shops around which would make breaking into this business quite difficult.

He remembered a friend over in Arkansas who was in the business of making cultured marble. He had seen quite a lot of this marble for sale in the stores and decided to look further into it. At first he tried to buy his friend's business but finding it not for sale, he did the next best thing and got the information needed to set up his own company.

The Travis Company began operating in a 30ft x 30ft building to which is joined a very necessary 10ft x 20ft machine shop. A man out of a job doesn't run out and buy a lot of new equipment, so being a good machinist he set to work making what he needed. Thomas has built a mixer, a shaker table, a dryer oven, and two curing tables. His home built mixer is mounted on a hoist and trolley to eliminate carrying the heavy



"Marmor" cultured marble begins at The Travis Company as ground marble dust. Mr. Travis is showing Floyd Roberts, Electrification Adviser for Gibson Co. E. M. C. how he loads the materials in a mixer which he made.

mix from place to place. He also makes his own molds which begin as a wood and glass model that is covered with fiberglass or a rubber compound to form the finished product. These are coated and can be used over and over.

"Marmor", which is the trade name Mr. Travis gave his cultured marble begins by mixing two different types of ground marble with resin for a holding agent. To this mixture a catalyst is added to speed the setup and a colored compound is stirred in for design. The mixture is then poured into molds which are vibrating so as to remove all air bubbles and after five minutes of agitation they are taken to a perfectly level curing table. The curing process takes only about two hours and the product comes out of the molds looking like highly polished marble. Only a small amount of buffing is necessary to remove small burrs around some edges.

The Travis Company's principal products at present are small end tables of various design, but when this reporter visited him he was making a fiberglass mold for an 18in x 54in coffee table.

Mr. Travis also molds the pedestals for his tables from another substance. He is at present ne-

gotiating with a sales representative for his plants' total output, which could reach 400 a month in his present facilities.

We were encouraged by this

(Continued on Page 18)



Thomas Travis holds a fiberglass mold for a square cultured marble table top. This mold is treated to give the marble a slick polished finish. The heat lamps aid the curing process.

Service For Future Generations

By John Stanford

More than 300 Trustees, Managers, key employees and friends of Tennessee's rural electric co-ops met in Nashville in late October to take a brief glance at the past, to bench-mark the present and to take a hard, objective, forward look at how best to provide "Service For Future Generations."

This was the theme, and the basic contents, of the 28th Annual Meeting of the Tennessee Electric Cooperative Association.

From the opening invocation the first morning until the approval of resolutions at noon the following day, the meeting was filled with outstanding speeches, timely reports and a sprinkling of participation by teen-agers who will be a part of the next Future Generation of co-op members mentioned in the Meeting theme.

Following first morning reports by TECA Secretary-Treasurer Thomas Hutchinson, President John Dolinger and Executive Manager J. C. Hundley, the afternoon session was devoted to addresses by 8th District Congressman Ed Jones and Bill Wade, a Nashville banking executive and former professional football star. Following these talks was a panel on "Technical Training for Employees" which was moderated by Holston Electric Co-op Manager William Towers. Members of the panel were Charles Grissom, Engineer for Duck River E.M.C.; Frank McGregor, Director of Employee and Public Relations for Cumberland E.M.C.; Fred Key, Assistant Manager of Middle Tennessee E.M.C.; and T. O. Walker, Director of Public Relations for the Tennessee Electric Cooperative Association.

Immediately following the afternoon General Session, a re-organization meeting of the State-wide (T.E.C.A.) Board of Trustees resulted in the election of Thomas Hutchinson, a Trustee of Middle Tennessee E.M.C., to the Presidency of the Tennessee Electric Cooperative Association. Hutchinson is the son of the late Knox Hutchinson, a pioneering

giant in rural electrification in Tennessee who was instrumental in organizing Middle Tennessee E.M.C. and what is now the Tennessee Electric Cooperative Association. The younger Hutchinson succeeds John R. Dolinger, Manager of Cumberland E.M.C., who concluded a highly successful three years as President of T.E.C.A. and who remains on the Statewide organization's Board of Trustees.

Other T.E.C.A. Directors for 1969-70 include Vice President James Milton, Manager of Gibson County E.M.C.; Secretary-Treasurer Lester Hamm, President of the Board of Trustees of Pickwick Electric Co-op; Kenneth Broyles, President of the Board of Trustees of Caney Fork Electric Co-op; Beecher Lawson, President of the Board of Trustees of Volunteer Electric Co-op; and William Towers, Manager of Holston Electric Co-op.

The Third (Evening) Session of the Annual Meeting featured, for the most part, an attractive segment of our Future Generation.

Carmen Burton, 17-year-old daughter of Mr. and Mrs. Roy Burton of Route 8, Clarksville, read her Statewide-winning essay to approximately 300 persons attending the Annual Banquet. Carmen, whose parents are members of Cumberland Electric Membership Corporation, was presented a \$500 scholarship check for her winning essay which was entitled: "C.E.M.C.—A Partner In Progress."

Following the banquet session, nine of Tennessee's loveliest young ladies, all daughters of members of electric co-ops serving in the Volunteer State, competed for the title of "Miss Tennessee Electric Co-op 1969."

Winner of the Contest, which carries the further privilege of competing in the national "Miss Rural Electrification" contest in Las Vegas, Nevada, next February, was Janet Marie Porter, an 18-year-old college student from Rt. 2, Humboldt, who entered the contest as Miss Gibson County E. M. C. In addition to her expenses-paid trip to Las Vegas,

Miss Porter received a cash award of \$150 and an engraved silver tray.

Runner-up in the contest was Delta Joan Herndon of Rt. 2, Clarksville, who competed as Miss Cumberland E.M.C. Miss Herndon, 20, received a \$100 cash prize and an engraved chip-and-dip dish.

Second runner-up was 18-year-old Elizabeth Ann Yancey of Oakland, Tennessee, who represented Chickasaw Electric Co-op in the contest. She received a \$50 cash prize and an engraved silver shell dish.

Winner of the coveted "Miss Congeniality" award was Sandra Carroll of Stantonville, Tennessee, who competed as Miss Pickwick Electric Co-op. Sandra received an engraved silver bowl.

Other contestants, by co-op, were Freida Stewart—Miss Duck River; Bridget Ann Ryan—Miss Holston; Sandra Kay Bush—Miss Middle Tennessee; Deborah Ann Wills—Miss Mountain; and Kathy Anderson—Miss Tri-State. All of the contestants in this group received silver oval trays.

The second morning—and final—business session presented three large helpings of food for thought and action.

Retiring President John Dolinger, speaking on the newly-organized Cooperative Finance corporation, warned co-op leader-delegates that their jobs "may become more difficult in the future," and that funds for the necessary expansion of services "are increasingly difficult to obtain." Dolinger, recently elected to represent Tennessee on the Board of Directors of the National Rural Electric Cooperative Association, said that the Cooperative Finance Corporation offered a partial and needed alternative to what is rapidly becoming a real void of expansion funds.

In a speech less than one hour later, REA Administrator David Hamil warned the delegates that the waiting list of loan applications to his Federal agency will reach \$600-million by January first of 1970, this against a Con-

(Continued on Page 17)



TECA Secretary-Treasurer Thomas Hutchinson, who later was elected President of the organization, gives his report during the 1st Session of the 28th Annual Meeting of the Statewide organization. At left John Dolinger, retiring President, readies notes for his report as does TECA Executive Manager J. C. Hundley at right.



Judges of the 11th Annual "Miss Tennessee Electric Co-op 1969" beauty contest were, left to right, Frank Gorrell, Lieutenant Governor of Tennessee; Mrs. Carolyn Wallace, a former "Miss Nashville" who is now a Sheraton Nashville Motor Inn sales executive; and Jack Pirrie, Vice President for Corporate Development of Performance Systems, Inc.



Chances are that football is the subject here in a between-sessions chat between H. G. Gangwer, Sr., (left), Manager of Fort Loudoun Electric Co-op, a University of Tennessee "ex" and still-enthusiast, and Bill Wade, who played professional football after becoming a Vanderbilt "ex." Wade, now a banking executive in Nashville, addressed one session of the TECA Annual Meeting.

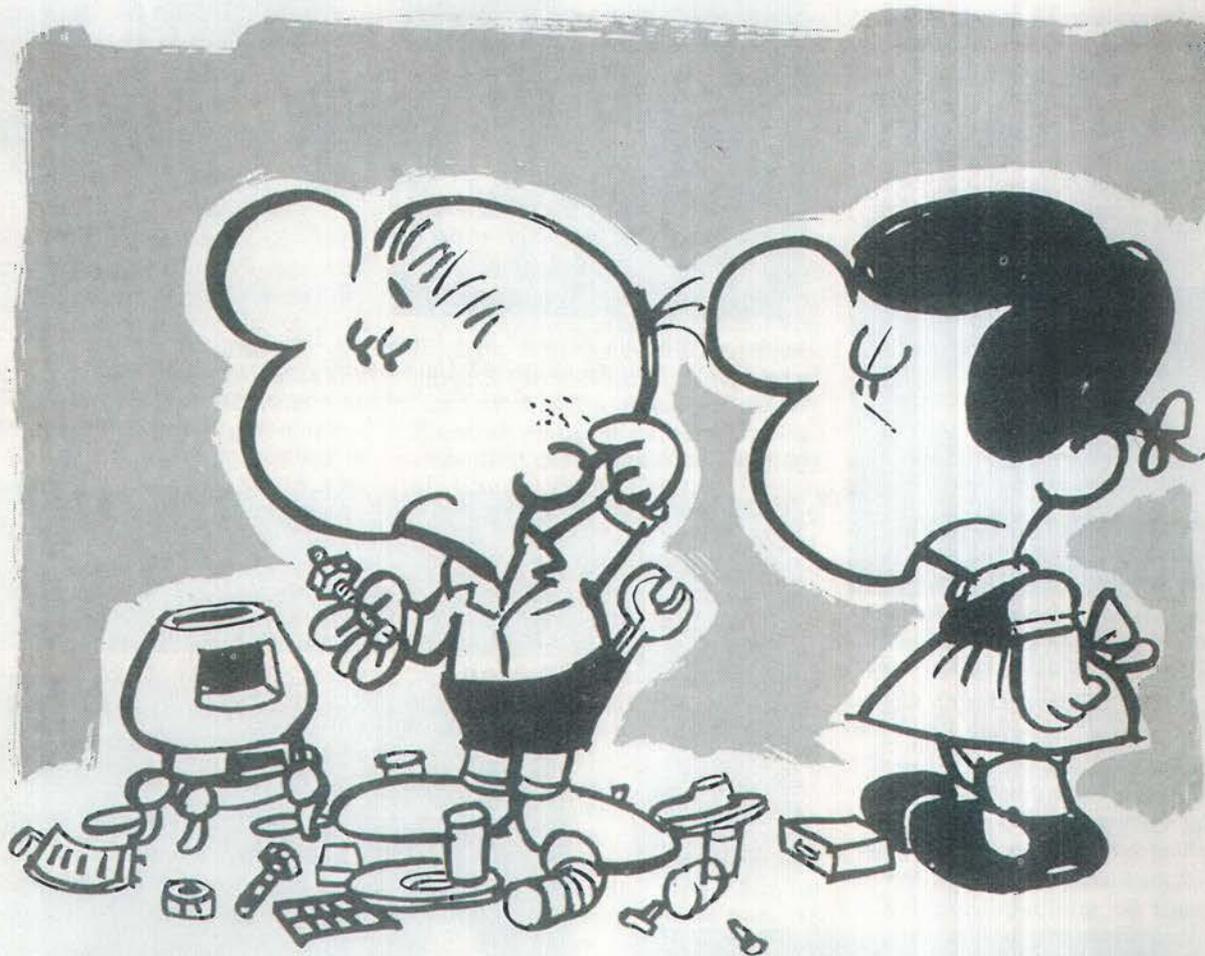


REA Administrator David Hamel addressed an attentive audience on the second morning of the meeting. On platform, left to right, are John Dolinger, who presided over this session, Paul Tidwell, who gave his report as retiring Tennessee Director on the Board of the National Rural Electric Cooperative Association, and TVA Board Chairman Aubrey Wagner, who followed Hamel as program speaker.



The ladies had their program, too, highlighted by this Annual Luncheon. At the head table, left to right, were Mrs. Libba Morris, Home Economist for Chickasaw Electric Co-op and Chairman of the Ladies' Program; Fred Luther, Jr., lineman for Middle Tennessee EMC who gave a color slide presentation on Hurricane Camille, damaged electric lines from which he helped restore in Mississippi; Mrs. Luther; Mrs. J. C. Hundley, Committee Woman for Tennessee on the Task Force "Committee on Concerns," which seeks to aid victims of Hurricane Camille; Mrs. Charles McNamee, wife of the Manager of Chickasaw Electric Co-op; Mrs. C. E. Wright, wife of UCEMC Director; and (back to camera), Mrs. Robert Herbert, Jr., who gave talk on "History and Restoration of Traveler's Rest."

Try ELECTRIC HEAT ... It's Trouble-Free



If the purpose of a heating system is to heat your home, isn't it logical to install trouble-free Electric Heat?

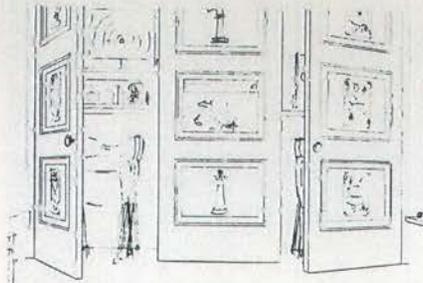
With few moving parts, Electric Heat is practically maintenance free. No fuel to order or store; nothing to clean; no ashes to carry. It's extra clean because it's flameless . . . no smoke, soot or oily films to dirty your home.

Electric Heat means extra comfort, too. Ceiling-to-floor comfort with the temperature you enjoy most. Just set the thermostat and forget about heating your home. Low-cost rural electric power does the job for you.

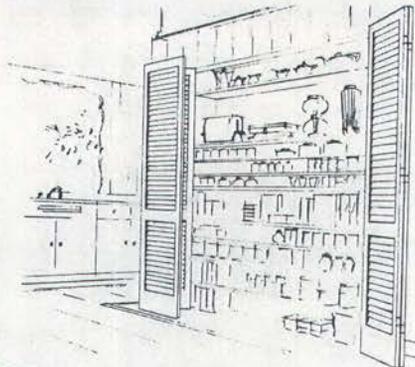
Yet Electric Heat costs less than most old-fashion systems which only half heat your home. Ask your rural electric system for free information about installing low-cost Electric Heat in your home.



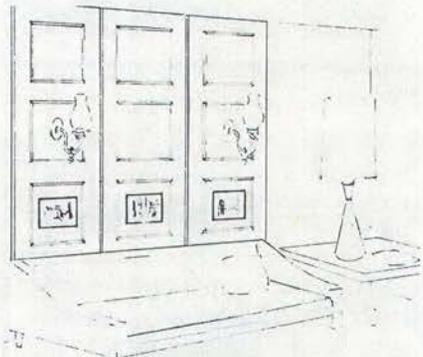
Tennessee's Electric Cooperatives



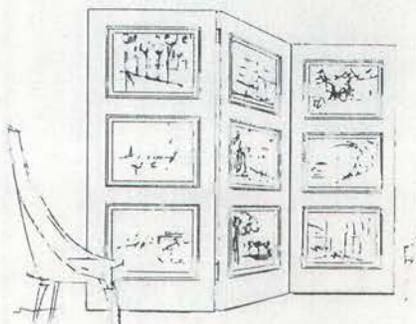
Disguised storage wall—Storage wall at end of recreation room to house games, folding table and chairs, sports and other equipment is enclosed with three panel doors. The center door is fixed and the middle panel cut out for TV or an aquarium. Panels can be decorated with jumbo cards or chess pieces.



Utility closet—Need more storage space for small appliances, china, glassware, canned goods? Build a shallow closet with folding louver doors between dining room and kitchen, in a hallway or wall.



Focal point of interest—Panel wall behind sofa, made with three doors mounted floor to ceiling or midway between ceiling and floor, will highlight room. To add more interest, accent the moulding on the doors with color, add a pair of hurricane lamps and pictures.



Picture screen—If you lack proper wall space for pictures, hinge three panel doors together to make a screen. Stain or paint them and mount pictures within the moulding of each panel which acts as a frame—brings drama into your room.

■ Doors don't always have to open into or out of a room to be useful. They can be used as an easy, ingenious and inexpensive way to decorate a room, to create a focal point in an otherwise uninteresting area.

They can provide extra storage space, needed wall space for mounting pictures, a new look for a plain wall, or can be made into an unusual room divider. Hinged together, they make a screen to close off a foyer, hide an architectural eyesore, ward off a draft, hide a water heater or washer-dryer.

They can be used as handsome wainscoting, to broaden or diminish door openings, replace a swinging kitchen door or house a Murphy bed.

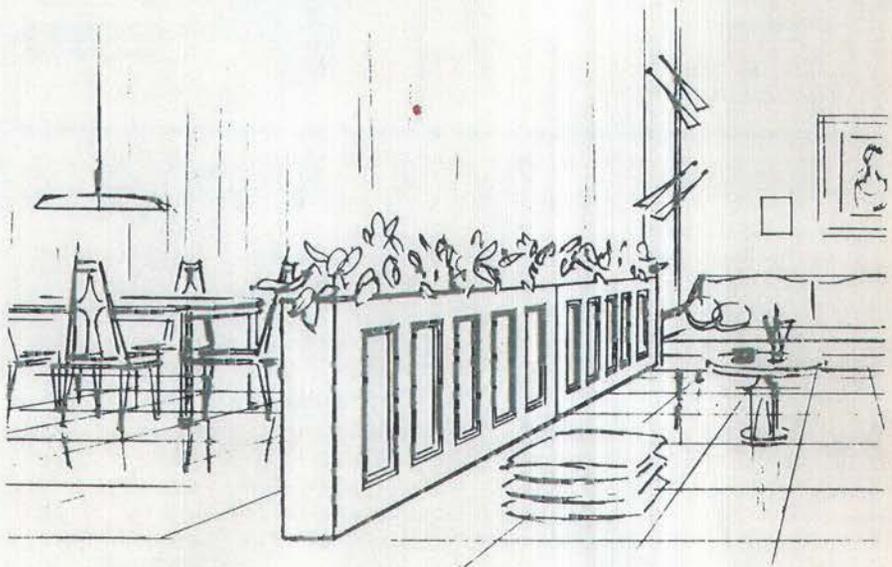
They can serve as king-size headboards for Hollywood twin beds. Single panel doors, with a mirror between, can be mounted on the wall behind each bed and "tied" together at the top with a cornice or canopy.

Panel or louver doors of smooth pine can be used in the natural wood finish, stained or painted in colors to brighten and lighten your room.

Whether you are building a new home, remodeling or just searching for unusual, inexpensive decorating ideas to give your rooms a new look, consider the small investment you'd make in using stock doors and the big return you get in decorating and living pleasure. Carefully selected woodwork adds a special warmth and richness to any room.

The five "door ideas" shown here can help you solve some of your decorating problems. These panel, louver and folding door styles, along with a wide choice of other designs, are available at your local lumber dealer. Chances are your own imagination, applied to your particular problem, will inspire you to create other clever ideas for the use of doors in interior decorating.

Doors-- Not just for closing



Unusual room divider—To suggest a foyer where none exists, here's a room divider with personality. It can block a draft from an entrance door, separate a living from a dining room area, or create architectural interest where needed. To enhance it with planters, use four double-paneled doors, two laid lengthwise at each side. Keep sides far enough apart so lips of planter boxes will rest on door edges. Fasten doors to floor with angle cleats—two to a door. Cover open end with pine board.

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

Send all items to:

UNCLE JOHN, The Tennessee Magazine
710 Spence Lane, Nashville 10, Tenn.

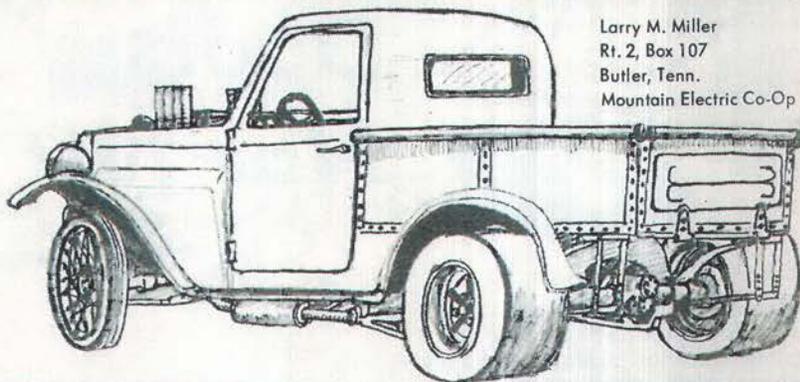


Clyde E. Walker, Age 14
Rt. 3, Box 215
Brownsville, Tenn. 38012
Southwest Tennessee EMC

Linda Elliott, Age 13
Rt. 3
Cowan, Tenn. 37318
Duck River EMC



Dana Ferguson
Rt. 2
Newbern, Tenn. 38059
Gibson County EMC



Larry M. Miller
Rt. 2, Box 107
Butler, Tenn.
Mountain Electric Co-Op

Bruce Nunley, Age 15
Rt. 5
McMinnville, Tenn. 37110
Caney Fork Electric Co-Op



Michael J. Baker, Age 18
Rt. 2
Mooresburg, Tenn.
Holston Electric Co-Op

Timely Topics

LIVESTOCK LOSSES CAN BE STOPPED

We hear a lot about conservation these days, but how many of us understand the meaning of livestock conservation?

Fred C. Powell, University of Tennessee Extension assistant animal husbandman says that this term simply means good management for livestock.

"Conservation begins with the breeding season," he continues. "Conservation increases in importance in loss potential just before, during and immediately after an animal's birth. It becomes more noticeable during growing, finishing and marketing periods because losses are more apparent; and conservation does not end until the meat animal arrives at its ultimate goal—the butcher's block."

The prevention of livestock losses is the aim of livestock conservation at all levels of production. These losses appear to be small on an individual animal basis or to an individual livestock owner. However, loss totals are rather staggering on a national basis when expressed in terms of several million dollars annually. For example, a reduction of 20 percent in present livestock losses for one year would provide enough extra livestock and livestock products to feed our annual population growth for that year.

There is no magic formula for increasing the rate of livestock conservation or for reducing the present loss rate," Powell states. "The timely application of proven livestock management practices and closer supervision of all phases of production and marketing can reduce losses and increase conservation of livestock at all levels."

Recommended management practices vary with different species of livestock, but certain general practices can be adapted to all species. These practices are directed toward obtaining maximum growth and a minimum mortality or loss rate.

Powell gives the following guide lines for holding down livestock losses:

- For successful breeding programs—use only healthy, vigorous sires and dams; do not breed animals too young; take care of animals during pregnancy.
- At time of birth—careful handling of dams during last three of four weeks of pregnancy; provide clean, dry, well-bedded and well-ventilated facilities; make frequent observations and provide help when needed; apply recommended disinfectant to navel stumps of new-born young animals; provide proper feed and water for dams.
- Managing young animals—castrate and dock animals at a young age (2 to 4 weeks); use disinfectant on open wounds and equipment; develop and follow internal and external parasite and disease control programs; avoid sudden changes in feeding programs.
- Handling and hauling—handle quietly and avoid sudden movements; do not feed grain just before or after hauling; do not overload animals when hauling—a common mistake that can be costly; watch newly transported young animals closely for scours, bloat and respiratory ailments.

SOYBEAN HARVEST SPEEDERS WILL PAY BIG FINES

Do you know how big your fine will be if you go five miles per hour in a two and one-half mile per hour soybean harvest speed zone?

The penalty paid for such speeding at today's prices will be about \$5 per acre, according to Albert J. Swearingen, associate agricultural engineer with the University of Tennessee Agricultural Extension Service. Increased field losses due to the speed change from two and one-half to five miles per hour will frequently be two and one-third bushels per acre. With beans selling at \$2.25 per bushel, this amounts to \$5.25 per acre.

Why does the extra speed cause such extra heavy loss?

At the higher speed it is very difficult for the combine operator to keep the header low enough to cut under the lowest beans, the engineer explains. This means the knife will be cutting into bean pods which causes excessive shattering. The high knife cutting position will also leave some pods on the resulting high stubble. The fast ground speed does not give the knife time to cut the plants before they are pushed forward. As the knife pushes the plants over, it slides up the plants, stripping off pods as it slides. As the plants are pushed over, they rub against each other causing a threshing process to occur between the plants.

It is this combination of events caused by excessive ground speed that brings on excessive shatter losses, excessive stubble losses, and sometimes excessive stalk losses.

Abide by the traffic rules of your soybean field and harvest combine. Avoid paying such a heavy speeding ticket.

FARM BRIEFS

Wide variations in silage grown on the farm make it necessary for farmers to have their corn silage analyzed so they will know the feed value of this forage.

* * * * *

Make a compost heap from those leaves that are covering your lawn this time of year.

* * * * *

The dairyman must know the feeding value of his forage and feed his concentrates based on this value if he is to get maximum milk production.

* * * * *

Give your vegetables and flowers a head start next spring by destroying the winter homes for disease-causing organisms.

* * * * *

Hunters wearing clothes colored "blaze orange" are not likely to be mistaken for game by other hunters.

The Housing Need in Rural America

By Phil Sawicki
Statewide Correspondent

Twenty years ago, in the Housing Act of 1949, Congress set these goals for the nation: "A decent home and a suitable living environment for every American family."

As everyone knows, neither of those targets has been reached yet. Not so well-known is the fact that the United States has moved a good deal closer to them during the last twenty years.

What follows is a brief account of the nation's housing achievement so far and what remains to be done, particularly in rural America.

The Achievement

In 1950, according to the U.S. Census Bureau, there were 42.8-million homes and apartments in the nation. Of those, some 11.3-million lacked adequate plumbing facilities, such as hot and cold running water and inside toilets. Another 3.9-million were "dilapidated", or in other words, in such terrible condition they weren't even worth trying to fix up.

Altogether, the country two decades ago had 15.2-million homes and apartments that in one way or another were "substandard."

In 1970, the Census Bureau estimates, the total number of homes and apartments will exceed 62.4-million. The number of

those expected to be classed as substandard will have decreased to 5.9-million.

What, in particular, bothers rural-oriented organizations is that 4.2-million of those 5.9-million substandard units exist in rural areas. Only 1.7-million are located in the cities and suburbs.

Those who have seen the slums of big cities may find these statistics hard to believe. One reason is that much housing in the cities, although it now meets standards, is overcrowded and deteriorating. But the fact is that more than half the nation's worst housing will be found down dusty country roads and in hollows on the other side of the mountain.

This is not to say that housing conditions have not gotten better in rural areas. They have. Compared to the 12.8-million substandard homes and housing units in rural areas twenty years ago, the current 4.2-million is an improvement.

But those who are concerned about rural America see bad signs. They know that during the last decades the lion's share of Federal housing assistance has benefitted primarily middle-class people in the cities and suburbs. They fear that the riots and publicity that have drawn new attention to urban problems may result in even less attention being paid to the larger, but less spectacular, housing problems in the countryside.

Federal Assistance to Housing

Federal assistance to housing comes in a wide variety of shapes and sizes through a number of agencies. The largest and best-known are:

- The Federal Housing Administration (FHA), which insures housing loans made by private lenders to home buyers and apartment builders;
- The Veterans Administration (VA), which guarantees repayment of housing loans made to former members of the military services by private lenders;
- The Federal Home Loan Bank System, whose twelve Federal Home Loan Banks are a prime source of capital for savings and loan associations, such capital being secured by first mortgages.

Also involved in home financing is the Federal National Mortgage Association (FNMA, or "Fanny Mae"), which buys and sells FHA and VA mortgages and thus becomes a secondary source of credit. Until September, 1968, FNMA was a Federal agency. Congressional legislation transformed it into a private corporation.

Since its creation in 1934, FHA has written a total of \$131-billion in mortgage insurance. Of that, \$96-billion has gone to insure home mortgages. Since the VA began guaranteeing repayment on housing loans to veterans following World War II, the



A fine view of one of Washington state's mountains near Granger, Wash., is one of the few advantages held by the people who dwell in these humble rural homes.



Rural workers at a do-it-yourself housing effort near Barranquitas, Puerto Rico, strain to move a cement mixer up a muddy hill.

agency has assisted \$74-billion in home loans. As of 1967, the twelve Home Loan Banks had resources of \$9.6-billion.

Most of that money—about 80 per cent—has assisted housing in the cities and the suburbs for the simple reason that cities and suburbs are where most of the lenders, builders and customers are. And also because the impact of Federal assistance is much more visible there.

Helping Rural Areas

NRECA, the national association of rural electric cooperatives, believes that one of the best ways to attack the rural housing problem is to strengthen and expand the programs of the Farmers Home Administration.

Originally established to assist farm families build new homes or improve their existing ones, Farmers Home was not given authority to assist rural people who weren't farmers with their housing needs until 1961.

Four years later, Congress gave the agency permission to finance its housing program by selling notes on its insured loans to private lenders. By this means, Farmers Home was able to assist many more rural homeowners than it had before.

The agency's statistics on its rural housing loans reveal just how great the need is for mortgage credit outside urban areas.

In 1960 Farmers Home made \$40-million in rural housing loans. By 1968 that figure had increased to \$494-million.

Large as that second figure may be, however, it was only enough to permit Farmers Home to assist about 50,000 rural families. At that pace it will take many years to eliminate the present 4.2-million substandard homes in rural America.

When Congress returned to Washington after its summer recess, NRECA representatives and others from rural-oriented organizations resumed their efforts to persuade the legislators to make Farmers Home an even more effective agency in assisting rural housing.

Late in September the Senate voted to set a new ceiling of \$350-million—instead of the old \$100-million—on the revolving fund operated by Farmers Home. Also approved was an amendment that would enable the



(Location unknown.) Three members of a poor rural family look out on the world from the doorway of one of rural America's 4.2-million substandard dwellings.

agency to raise funds more quickly on the private investment market.

If these two amendments or similar ones win passage through the House, FmHA may be able to assist in financing as many as 300,000 rural homes each year.

Another vital provision is contained in housing legislation amendments approved so far only by the House Banking and Currency Committee. It would permit Farmers Home to make a commitment in advance to a builder that the homes he is going to build can be financed with FmHA assistance.

These amendments, and others to broaden Federal assistance to rural housing, are not yet law. It is important that they become so, and the sooner the better.

William E. Murray, NRECA legislative representative, has pointed out that decent housing is one of the basic factors "that will encourage people to stay in rural America."

Without it, the young and the poor from rural areas will continue to stream to the cities, which already have enough problems.

Future Service

(Continued from Page 10)

gressional appropriation of slightly more than one-half that amount. Hamil interpreted this as meaning that unless electric co-ops throughout the nation soon activate their own national central bank for financing at least a portion of their own expansions, such as the CFC, then they simply will have to refuse adequate services to present members.



Carmen Burton, 17-year-old senior at Clarksville High School and \$500 first place winner of the Youth Essay Contest sponsored by Tennessee Electric Cooperative Association, recites her winning essay to the 300 persons attending the Annual Banquet.

In the other major speech of the final session, T.V.A. Board Chairman Aubrey Wagner told the representatives of Tennessee's 22 rural electric systems that during the past three years, nearly 90% of the new factory jobs in the Tennessee Valley have been created outside its metropolitan areas. He said that most of the new factories are being built in corn fields or pastures and that, while the new population is not rushing to the strictly defined rural areas, it is swamping the small towns of 5,000 and up.

"Most of our small towns," said Wagner, "are growing and will continue to grow. But most of them were built to meet the needs of a different day—as mining communities or as agricultural market centers. Today's needs are quite different and as these communities grow, they must be re-shaped to meet the changed needs."

Adoption of resolutions concluded the 28th Annual Meeting which was held, for the first time, in the splendid facilities of the Sheraton Nashville Motor Inn.



"Marmor," the finished product of The Travis Company, makes a beautiful piece of furniture which will retail for about \$39.95 up.

(Continued from Page 9)

young man's initiative and predict that some day The Travis Company may be one of the thriving industries served by the Gibson Co. Electric Membership Corp.



When Thomas Travis needs equipment for his young industry he makes it. He points here to an electric heater which supplies hot air to a curing cabinet for his pedestals.

USDA Warns Against Use Of Pesticide

By R. P. Mullett
Entomologist—UT Extension

The U.S. Department of Agriculture has reissued a warning against the use of thallium sulfate pesticides in the home.

The compounds have been marketed as poison baits for controlling certain insects and rodents but have proven to be too hazardous for ordinary household use.

Thallium sulfate looks like table salt and is frequently mixed with cereals and sweeteners as bait for pests. The mixture is attractive to children. Thallium sulfate poisoning causes vomiting, abdominal pains, diarrhea, and may lead to nerve damage and death. A delay in appearance of symptoms may make diagnosis difficult.

Federal registration for the use of thallium sulfate in homes was canceled by USDA's Agricultural Research Service in 1965 after a number of accidental poisonings of children showed that cautions

in label instructions were not being followed.

The action banned the interstate marketing of thallium products labeled for this use. However, products manufactured and distributed before the cancellation date may still be on store shelves or in the hands of consumers.

The ARS Pesticides Regulation Division advises consumers not to use thallium products in the home. Persons who may have already purchased such products can dispose of them by (1) burying the products at least three feet deep in a level, isolated place where they will not contaminate water supplies, or (2) wrapping them in heavy layers of newspapers and putting them in the trash can for disposal at dumps or incinerators.

The Department urges dealers to remove thallium home products from their shelves and to use either of the individual methods of disposal or to arrange for the original distributors to

dispose of the product with their factory wastes.

USDA's 1965 action (1) limits interstate sale of thallium sulfate to government agencies and licensed pest control operators, thereby taking these products out of retail trade; (2) requires that labels have a prominent warning against home use by consumers; and (3) bans all use in the home except by qualified personnel of a Federal, State or local government.

USDA's original ban on the home use of thallium sulfate involved the cancellation of 54 separate product registrations. Four products — Glove Brand Thallium Sulfate, Thallium Sulfate Powder, Certox Code R-2 Thallium Canary (grass) Seed, and Certox Thallium Sulfate — are currently registered for agricultural, industrial, or commercial use only. Thallium sulfate products, both manufactured and sold within a state, do not come under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act.

AS SEASONS CHANGE SO DO DRIVING HAZARDS

By GREG O'REAR, Commissioner
Tennessee Dept. of Safety

The diminishing hours of daylight that accompany the approach of winter affects you and your driving. Completing your day's driving schedule or driving home at dusk in the usual rush-hour traffic, you undoubtedly miss the daylight that made driving less difficult all summer.

Adding to the hazard of darkness in fall driving is wet pavement, booby-trapped with patches of soggy leaves that could send an auto into a spin. Such hazards that might be noticed in daylight are less visible at dusk.

Dusk is an especially hazardous time for driving because of a tricky visual change apparent only to an alert driver. Although the sky may still be bright, objects at ground level on the road ahead are not delineated sharply as in daylight. Their dark outlines tend to fade into the darkening area around them.

Nighttime accidents are almost double the rate of daytime accidents. Without the overhead glare of the sun lighting the entire picture ahead and around the driver, night driving is limited to the narrow path illuminated by headlights and sparse lighting from other sources. Night lighting is not sufficient to permit the same kind of driving as in daylight.

To see everything that can be seen in such poor lighting, no factor within the driver's control should be permitted to limit his vision. Windshields must be clean inside and out. Headlights must be clean and properly adjusted. And, since you must be seen by other drivers, all lights must be in good condition.

Here are some tips for safer night driving. Turn on your headlights . . . not parking lights . . . at dusk. Be sure to dim your lights for approaching drivers and when following closely behind another vehicle. Your high beam could blind the driver ahead through his rear-view mirror.

When the high beam of an approaching vehicle bothers you, notify the driver by flicking your

headlights to high beam and back to low. Be sure to leave yours on low.

Control of your speed is more important at night than at any other time. With good headlights, you can see the road ahead about 300 feet . . . at best. If you should drive more than 62 miles per hour you cannot stop in time to avoid an object on the road that comes into your farthest range of vision.

When leaving a brightly lighted place, give your eyes a chance to get used to the darkness

before starting to drive at night. Drive more slowly during the transition from brightly lighted areas to the dark road.

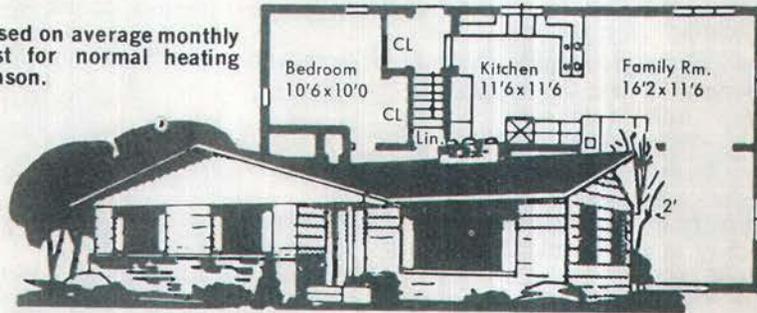
Relax the eye muscles by looking around as much as safe driving permits. Never stare for long at the same region.

Protect the eyes from glare.

Remember that, in night driving, one must see and be seen. Seeing is not adequate unless the hazards seen are understood.

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POTENTIAL HIGH FOR SHEEP INDUSTRY IN TENNESSEE

By Fred C. Powell
Assistant Animal Husbandman

Lamb and wool production in Tennessee is at an all-time low. The number of breeding ewes in 1958 was 238,000 as compared to 47,000 in 1968, a reduction of 80.5 percent in the 10 year period. The value of sheep and wool production during this same period has declined from slightly less than five million dollars to slightly less than one million dollars.

The 1968 value of sheep and wool production was about three-tenths of one percent of the total livestock income of the state. This is slightly over one-tenth of one percent of the cash receipts from farming.

Sheep in Tennessee are kept primarily for spring lamb production and most of the lambs are shipped to lamb consuming centers in the Northeastern states. Lambs account for about 85 percent of the income in the industry and wool for the remaining 15 percent. The bulk of the lambs go to market between mid-April and mid-July as Tennessee Spring Lamb. Most of the wool crop is marketed during the month of May.

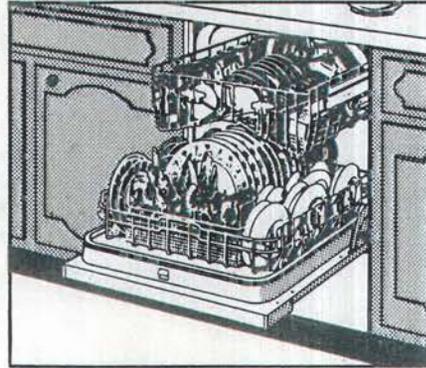
Even though sheep production has declined steadily for the past ten years, the industry still provides an income equivalent to 200 people working in industry at a \$2 per hour rate on an annual basis.

Sheep production has an excellent potential in Tennessee. The state is well adapted to pasture and forage production and some 90 to 95 percent of feed requirements for sheep come from these sources. An additional advantage is that the greatest seasonal need for feed in sheep production is during the spring when pasture growth is at its peak.

Tennessee is fortunate in having one of the two lamb slaughter plants in the Southeast located in Nashville. The lack of volume of both lambs and wool has created a marketing problem in recent years but this problem can be readily solved by increasing numbers.

(Continued on Next Page)

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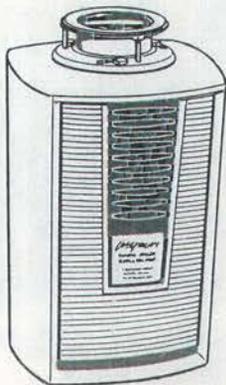
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(Continued from Preceding Page)

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These recent research results support the above potentials: (1) 2.5 lambs marketed annually per ewe, (2) 449 pounds of lamb produced from one ewe in one year, (3) five lamb crops produced in

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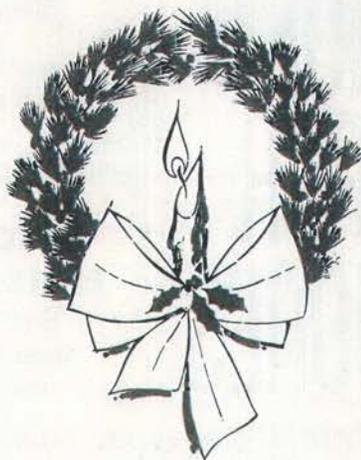
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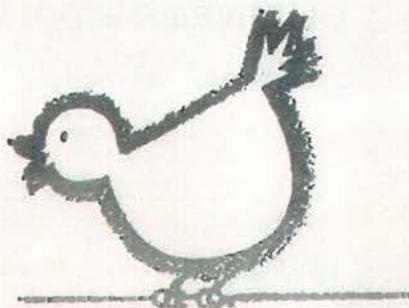


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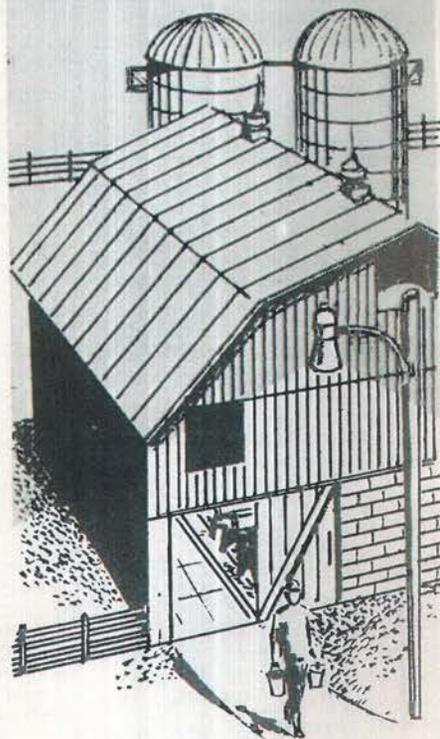
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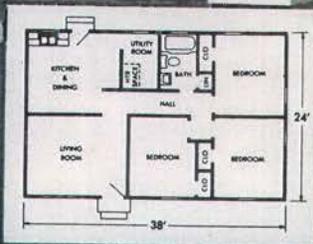
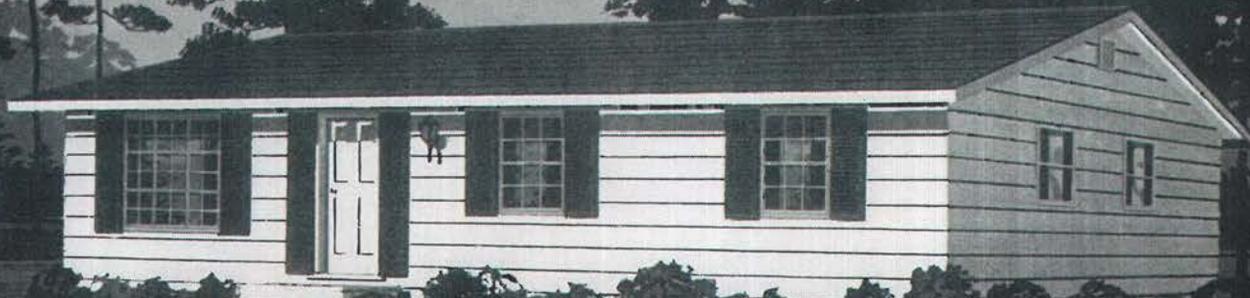
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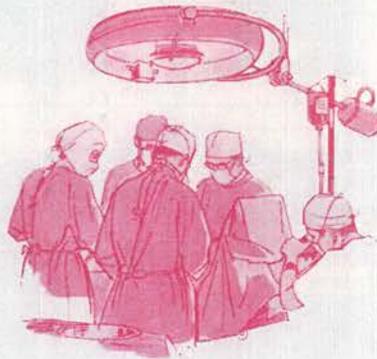
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