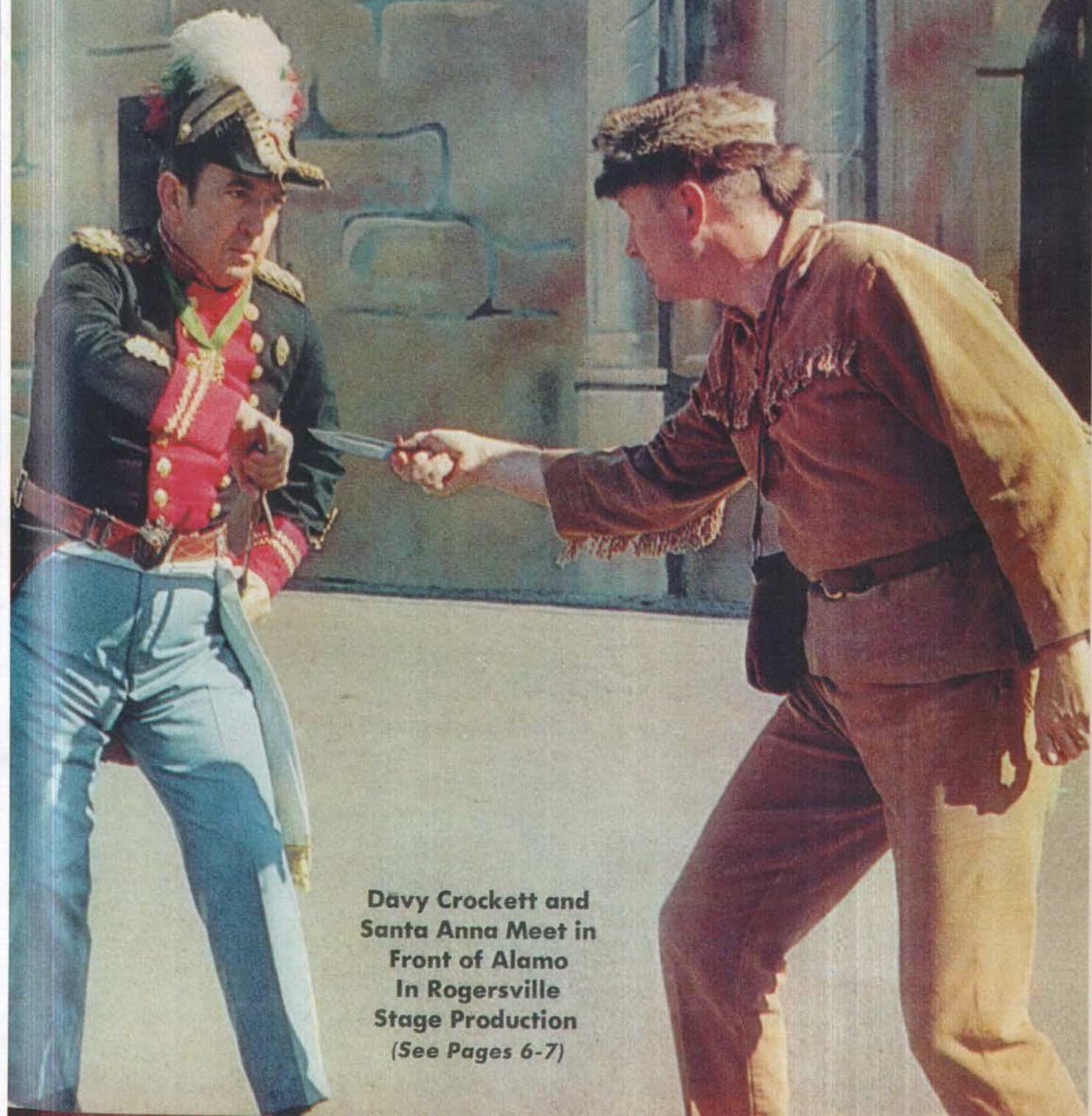


Tennessee

JULY, 1969

MAGAZINE

Dedicated to Better Living



**Davy Crockett and
Santa Anna Meet in
Front of Alamo
In Rogersville
Stage Production
(See Pages 6-7)**



A CBS AFFILIATE

THE FAMILY STATION

COMPLETE JULY SCHEDULE—WLAC-TV, NASHVILLE

JULY SPECIALS

TUES., JULY 1—WOODS 'N WATERS JULY SPECIAL (C) 9:00-9:30 PM
 SAT., JULY 5—BUICK OPEN GOLF TOURNAMENT (C) 4:00-5:00 PM
 SUN., JULY 6—BUICK OPEN GOLF TOURNAMENT (C) 3:30-5:00 PM
 SAT., JULY 19—MISS UNIVERSE BEAUTY PAGEANT (C) 9:00-10:30 PM
 SAT., JULY 26—AMERICAN GOLF CLASSIC (C) 4:00-5:00 PM
 SUN., JULY 27—AMERICAN GOLF CLASSIC (C) 3:30-5:00 PM
 SAT., JULY 26—MISS KENTUCKY STATE PAGEANT (C) 8:00-9:30 PM
 MON., JULY 28—HARLEN CULTURAL FESTIVAL (C) 9:00-10:00 PM



CHRIS CLARK
 CHANNEL 5 NEWS
 6:00 P.M.
 MON. THRU FRI.

DAYTIME

| | |
|----------------|--|
| 5:45-6:00 AM | Farm News—Mon. thru Fri. (c) |
| 6:00-6:30 AM | CBS Morn. News |
| 6:30-7:55 AM | Country Junction—Mon. thru Fri. (c) |
| 6:00-7:00 AM | Black Heritage—Sunday (c) |
| 6:00-7:00 AM | Black Heritage—Saturday (c) |
| 7:00-7:30 AM | Go, Go Gopher—Saturday (c) |
| 7:00-8:00 AM | Tom & Jerry/Aquaman—Sunday (c) |
| 7:30-8:00 AM | Bugs Bunny—Saturday (c) |
| 7:55-8:00 AM | Channel 5 Weather—Mon. thru Fri. (c) |
| 8:00-9:00 AM | Captain Kangaroo—Mon. thru Fri. (c) |
| 8:00-8:30 AM | Read Runner—Saturday (c) |
| 8:00-9:00 AM | Heaven's Jubilee—Sunday (c) |
| 8:30-9:00 AM | Wacky Races—Saturday (c) |
| 9:00-10:00 AM | Mike Douglas Show—Mon. thru Fri. (c) |
| 9:00-9:30 AM | Carl Tipton—Sunday (c) |
| 9:00-9:30 AM | Archie Show—Saturday (c) |
| 9:30-10:30 AM | Batman-Superman Hour—Saturday (c) |
| 9:30-10:00 AM | Look Up and Live—Sunday (c) |
| 10:00-10:30 AM | Andy of Mayberry—Mon. thru Fri. |
| 10:00-10:30 AM | Faith For Today—Sunday (c) |
| 10:30-11:00 AM | Dick Van Dyke—Mon. thru Fri. |
| 10:30-11:00 AM | Herculeoids—Saturday (c) |
| 10:30-11:30 AM | Black Heritage—Sunday (c) |
| 11:00-11:25 AM | Love of Life—Mon. thru Fri. (c) |
| 11:00-11:30 AM | Shazzan—Saturday (c) |
| 11:25-11:30 AM | CBS News—Mon. thru Fri. (c) |
| 11:30-12:00 N | Face the Nation—Sunday (c) |
| 11:30-12:00 N | Search for Tomorrow—Mon. thru Fri. (c) |
| 11:30-12:00 N | Popeye Show—Saturday |
| 12:00-12:05 PM | Channel 5 News—Mon. thru Fri. (c) |
| 12:00-12:30 PM | Moby Dick & The Mighty Mightors—Saturday (c) |
| 12:00-1:00 PM | Hollywood Spectacular—Sunday (B/W) |
| 12:05-12:30 PM | Singing Convention—Mon. thru Fri. (c) |
| 12:30-1:00 PM | As The World Turns—Mon. thru Fri. (c) |
| 12:30-1:00 PM | Lone Ranger—Saturday (c) |
| 1:00-1:30 PM | Love Is a Many Splendered Thing—Mon. thru Fri. (c) |
| 1:00-1:30 PM | The Jetsons—Sunday (c) |
| 1:00-1:30 PM | Jonny Quest—Saturday (c) |
| 1:30-2:00 PM | Skippy—Saturday (c) |
| 1:30-2:00 PM | The Guiding Light—Mon. thru Fri. (c) |
| 2:00-2:30 PM | Secret Storm—Mon. thru Fri. (c) |
| 2:00-4:00 PM | Adventure / Action Movie—Saturday (B/W) |
| 2:30-3:00 PM | The Edge of Night—Mon. thru Fri. (c) |
| 2:30-3:30 PM | AAU Field and Track—Sunday (c) |
| 3:00-3:30 PM | Linkletter Show—Mon. thru Fri. (c) |
| 3:30-4:00 PM | Gilligan's Island—Mon. thru Fri. (c) |
| 4:00-4:30 PM | Sparring Life—Saturday (c) |
| 4:30-5:00 PM | Hugh X. Lewis Show—Saturday (c) |
| 4:00-5:30 PM | Big Show—Mon. thru Fri. |
| 5:00-5:30 PM | All American College Show—Saturday (c) |

EVENING

| | SUN. | MON. | TUES. | WED. | THURS. | FRI. | SAT. |
|-------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|
| 5:30 | Stan Hitchcock Show (c) | CBS Evening News (c) W. Cronkite | CBS Evening News (c) W. Cronkite | CBS Evening News (c) W. Cronkite | CBS Evening News (c) W. Cronkite | CBS Evening News (c) W. Cronkite | Roger Mudd News |
| 6 | Lassie (c) | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Weekend Report News Weather Sports |
| 6:30 | Gentle Ben (c) | Gunsmoke (c) | Lancer (c) | Tarzan (c) | Animal World (c) | The Wild, Wild West (c) | Jackie Gleason Show (c) |
| 7 | Ed Sullivan Show (c) | Here's Lucy (c) | Liberate Sts. 7/13 | The Good Guys | The Prisoner (c) | Gomer Pyle (c) | My 3 Sons (c) |
| 7:30 | | Mayberry R.F.D. (c) | | Beverly Hillsbillies (c) | | | Hogan's Heroes (c) |
| 8 | See How (c) | Family Affair (c) | Doris Day Show (c) | Green Acres (c) | Thursday Night Movie (Most in color) | CBS Friday Night Movie (c) | Petticoat Junction (c) |
| 8:30 | | | | | | | DEATH Valley Days (c) |
| 9 | Mission Impossible (c) | Jimmy Rogers Show (c) | CBS News Broadcasts | Hawaii Five-O (c) | | | Channel 5 News Weather Sports |
| 9:30 | | | | | | | |
| 10 | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Channel 5 News Weather Sports | Mannix (c) |
| 10:30 | | | | | | | |
| 11 | Perry Mason | Perry Mason | Perry Mason | Perry Mason | MILLION 3 MOVIES | Roy Anthony Snow (c) | Films of the 50's |
| 11:30 | | | | | | | |
| 12 | Marshal Dillon | Marshal Dillon | Marshal Dillon | Marshal Dillon | | Films of the 50's | |



A CBS AFFILIATE

NASHVILLE, TENNESSEE

Tennessee MAGAZINE

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

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J. C. Hundley, Executive Manager

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ON THE COVER



Our full color cover picture, and those with story on Pages 6-7, are from the play "Davy Crockett" which the citizens of Rogersville are staging every Friday and Saturday night between Independence Day and Labor Day. Story gives details.

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Volunteer Views

by J. C. Hundley
Executive Manager, TECA

The REA-financed rural electrification program, by almost any set of standards, is large, dynamic, of vital service to millions of Americans, and still growing in each of these aspects.

A calendar year-end report by the Rural Electrification Administration bears out this statement with these interesting statistics:

- A total of 180,000 member-consumers were added to distributor (mostly electric co-op) lines during the year, bringing to more than 6-million the number of consumers receiving services through REA-financed systems. (Who said the job of serving all who want and need electricity is completed?)

- Rural residential consumers used an average of 590 kilowatt hours of electricity per month, about double the amount used just ten years ago. Tennessee's electric co-op members now average about 1,000 KWH per month.

- As of January 1, 1969, there were 1,101 REA electric borrowers. Of this total, 987 are cooperatives, 55 are public power districts and 25 are power companies. (REA funds have been available to the power companies since this Government agency came into being but only a handful of the private utilities have made loans because, 33 years ago, they didn't think providing electric services to rural areas was profitable enough to get involved—this among other reasons which many of the power companies have lived to regret.)

- REA borrowers had more than 4-million kilowatts of generating capacity at the end of the year, which represents about 1.5% of the nation's installed capacity. Borrowers generate about 22.4% of the power they distribute and buy about 77.6%.

- Net worth of borrowers at the end of the year was a fraction over 27% of total assets, or about \$1.5-billion.

- Of the 1,653,656 miles of line financed by REA to date, 1,628,000 miles have been placed in service. Average number of consumers per mile across the nation is 3.7.

Average in Tennessee is about twice that number.

- Borrowers have paid more than \$1-billion in interest since the inception of REA, and more than \$2-billion in principal. (What other program do you know about which paid Uncle Sam more than one billion dollars in interest?)

Despite this outstanding record, rural electric cooperatives, because of tremendously increasing demands for more and more power, find themselves somewhat between financial rocks and hard spots.

As of the last day of this past June, there were expected to be some \$521-million in loan applications on file with REA with only \$80-million available to REA for lending. Assuming that REA loaned all \$80-million, there would be a carry-over of some \$441-million to the fiscal year which began the first day of this month.

A survey conducted by the National Rural Electric Cooperative Association indicates that co-ops are expected to file some \$273-million in new loan applications this fiscal year which, added to the backlog of \$441-million from last year, means that some \$714-million is going to have to be found somewhere this year if the co-ops are to keep up with the electrical demands being made on them by their memberships.

Against this \$714-million total, Congress is still discussing an appropriation of only \$345-million, less than one-half the amount needed.

This is no criticism of Congress, which may well be doing the best that it can in these critical times. But it does point up the obvious fact that our electric co-ops are going to have to find a source of financing *in addition to* the funds available through REA if they are to continue doing the great services to their areas, states and nation that they have been rendering for almost one-third of a century.

The past is prologue. The future is a challenge we *all* must meet.

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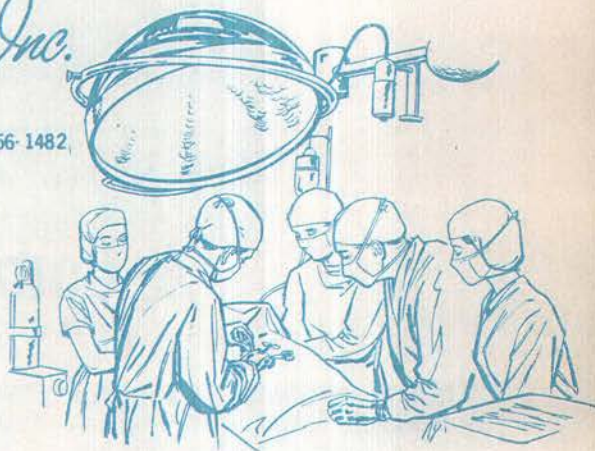
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Pioneers gather by covered wagon for songfest.

DAVY CROCKETT DRAMA: A Community At Work

By Noah Britton, Jr.
Holston Electric Co-op

Just about sunset on a Friday or Saturday evening in Rogersville, a tourist driving through Tennessee's second oldest town might wonder at the buck-skin clad fellow hurrying down Main Street with a hog rifle over his shoulder.

Or should he see a "granny woman" followed by a bevy of tots in calico and sunbonnets, he might wonder if progress will ever catch up with these East Tennessee "hillbillies".

What has really happened in Rogersville is "Show Biz", and the entire community has been caught up in the grease paint and applause addition when they go on stage in "Davy Crockett," Rogersville's outdoor drama.

For the third year, the curtain

will go up when the sun goes down on July 5 at the Davy Crockett Theatre in Rogersville. On one of the nation's largest outdoor stages with East Tennessee hills as a backdrop, the citizens of Rogersville will again depict the story of one of America's most gallant heroes.

Rogersville's claim to Davy Crockett lies in a little graveyard beside Crockett's Creek close to the center of town. Here lie the remains of the first David Crockett and his wife, the grandparents of the famed Alamo defender.

The first Davy and his family — all but the father of the famous "Davy" — were massacred by Indians in the late 1700s at their cabin somewhere near the present graveyard.

Centuries after the fatal scalping and burning of the Crocketts, their story lives again and is woven into other episodes which made history in the life of their grandson.

From his wedding at Morris-town to the lovely Polly Finley, to his finish at the Alamo in Texas, the story of Davy Crockett has become a part of the American folk-lore and legend.

It was Earl Hobson Smith of Lincoln Memorial University who penned the lines of the brave Tennessee frontiersman — much of the drama based on Crockett's autobiography.

And along with descendants of the founders of Rogersville (and latter-generation Crocketts, too) the people of one of the state's most historic towns have poured



Andrew Jackson meets Davy's bride, Polly.



Davy chats with Andy Jackson on steps of Rogersville Presbyterian Church.



Davy returns for wedding to Polly.

their time and talents into the drama production.

The construction of a new bypass around Rogersville was the spur that prompted three local women to put their dream into reality—an outdoor drama for a town that is steeped in history.

In an effort to attract the thousands of tourists who were bypassing their town, the idea of a drama was met with enthusiasm and determination to succeed by the town's citizens.

While local businesses and citizens contributed dollars—it was their time, talent and just hard labor that has built the 100-foot wide stage, sewed the costumes and most important — participated in the actual production of "Davy Crockett."

The "Davy" who laments his

loss of Polly on stage is in real life the director of the local high school band or a minister of one of Rogersville's churches.

"Polly" is a real-life housewife and playing the part of "Old Hickory" in his ups and downs with Davy over the Indian treaty and an army for Texas is a local attorney.

Davy's mother-in-law, Mother Findley, whose growl was worse than that of any bear ole Davy ever met, is a doctor's wife who brings her four children to participate as extras in the wedding scene. Ministers, pharmacists, doctors, lawyers, school teachers, merchants, librarians, electricians, are but a few occupations represented behind the stage make-up.

It was Holston Electric Co-

operative's machinery and technical know-how that installed the intricate wiring for the theatre and behind the scenes you'll find Holston Electric Cooperative's member services director manning the lights.

That fellow with the fiddle is a Holston Electric Cooperative engineer and the pretty gal in calico is the engineer's wife in real life.

"Davy Crockett" is indeed a family affair. While mother and dad dance at Davy's wedding or die a bloody death at the Alamo, the kids are on stage, too—playing their parts as extras, singing and dancing to a fiddler's tune.

"Davy Crockett" is a community affair — with citizens from all walks of life contributing their time and talents to make Rogersville's "greatest show" a success.



Davy tells Polly that he is leaving for the Alamo.



History is relived in Battle of the Alamo.

ESSENTIALS FOR A GOLD MEDALLION HOME

By Robbye Nowell
Home Economist
Gibson County Elec. Memb. Corp.



Mr. and Mrs. Jim Brasfield are enjoying their Gold Medallion home and all of the benefits and pleasures which such a home affords.

The Gold Medallion is an award given to a home because of its electrical excellence. This includes an all-electric kitchen and laundry, modern light for living, adequate wiring, and electric heating and cooling. The Gold Medallion signifies the most modern living available.

In today's space-age world, people are wanting homes which have features that insure more comfort and more convenience. The Gold Medallion home fulfills this demand and is synonymous with modern space-age living. It can be any home anywhere, whether small or large, traditional or modern, new or remodeled, so long as it meets certain requirements that make it a home of excellence and safety.

The Gold Medallion Award is not one which is given lightly. It, as other awards, must be earned by adhering to definite standards. Homes which have earned the award wear the emblem with pride. The emblem has important significance for it identifies the home as one in which electricity is the sole source of energy for light, heat, and power. It is a home that is designed and equipped so those living in the home will enjoy "total electric living" and all the benefits and pleasures which it can afford.

One of the strict requirements a home must meet if it is to wear the Gold Medallion emblem is full housepower wiring. The wiring system must provide ample electric capacity for present needs as well as capacity for the growing needs of today's modern families. The entrance service will never be less than 200 amperes and the wiring must conform to minimum standards of the National Electrical Code, State Code, and Local Code. This is important in any home but especially so in homes

dedicated to the joys of total electric living.

In each Gold Medallion there will be a well-organized electric heating and air conditioning system. Electric heating and cooling is quiet, draftless, clean as an electric light, and easily controlled. It goes hand in hand to give the home true year-round comfort conditioning with even temperature inside no matter what the weather outside. There is cool comfort for hot summer days as well as even heat on the coldest winter morning.

Another requirement which makes a Gold Medallion home one of excellence is the all-electric kitchen and laundry. In the home is a staff of electrical servants ready and waiting to help with the work. The kitchen is equipped with electric appliances which every homemaker yearns for. They include the range, refrigerator, and dishwasher. Also an exhaust fan, properly vented and of adequate capacity over the range, is required. These assure the homemaker of a kitchen that's a pleasure to use and easy to keep clean. In the laundry there is to be an automatic washer and an electric clothes dryer that make the laundry chore of yesterday a pleasure today. The electric water



To certify for the Gold Medallion Award, the home must have at least a 200 ampere service panel. Above Floyd Roberts, electrification advisor of Gibson Co. EMC, and Mrs. T. E. Hutchinson of Union City RFD examine the panels installed in the Hutchinson home with ample capacity for their present needs and open circuits for future use.

heater is another required appliance in the Gold Medallion home. Like the other electrical servants, it is ready and waiting to do its part in meeting the needs of the family. Its duty, of course, is to provide a constant supply of hot water when and where needed.

Planned lighting is another feature found in the Gold Medallion home. The lighting requirements have been set up by the American



The Ralph Mayberry family of Ridgely, Tennessee, enjoys year-round comfort in their electrically heated and cooled Gold Medallion home.

Home Lighting Institute and include provisions for general, functional, and decorative lighting. Functional or task lighting is needed in addition to general lighting where any visual task such as reading, sewing, studying, desk work, or food preparation



The lighting in a Gold Medallion home must meet "minimum light for living" standards as set up by the American Home Lighting Institute. This includes light for sight and beauty.

Well-designed lighting, such as cove lighting in the family room of the Brasfield home, will bring new dimensions to living since it opens up space and creates an atmosphere of one's own choosing.

takes place. Well-designed decorative lighting will glamorize and enhance the appearance of the home and its furnishings.

Thus, it can be seen a Gold Medallion home should be planned for; therefore it is important that the homeowner begin thinking and planning for such before the construction begins. The electrical development personnel of the electric cooperative which serves you will be happy to help with this planning. They will advise with the homeowner in the arrangement of equipment for most convenient and economical use, the necessary wiring for efficient operation of appliances and other equipment, the heating and cooling capacity needed, the amount of insulation needed for economical operation of the heating and cooling system, and lighting which will meet the Gold Medallion standards.

Members who are interested in qualifying their home for a Gold

Medallion should request assistance from the electric cooperative serving their location for plans and specifications so that their home can be certified where these plans have been followed.



Mrs. Ralph Mayberry has no unpleasant thoughts of mountains of dirty dishes and glasses. The automatic electric dishwasher takes care of this chore, giving her more time for recreation, to spend with the family, or to develop hobbies and other interests.

The task of doing the laundry is very simple and at the same time very easy for Mrs. Stanley Jones, thanks to electricity and the automatic electric washer and dryer. With only a touch of the button or the turn of a dial, the magic of converting unusable soiled clothes to usable items is a pleasure for anyone.



FAMILY OPERATION DEVELOPING INTO GOING BUSINESS.

By Donald McDonald
 Electrification Advisor
 Middle Tennessee Electric Membership Corp., Franklin

Marvin T. Naive Jr., of Brentwood, decided some four years ago to use some of his creativity and initiative in designing and constructing a home identification light for sale to electrical distributors. Working as a sales engineer in non-ferrous metals and with the combination of a business education major and industrial arts minor from Peabody College, Tom had the proper background to carry out his plans.

The Ident-o-lite sold well; therefore, the line of products was expanded to include post lanterns, post lanterns with Ident-o-lites and ornaments, a full line of decorative lanterns, and six models of electric grills in two voltages.



Tom Naive shows skill in electrically drilling a lantern frame.

With the increased product line and sales, more help was required to assemble and pack the merchandise. At this point the project became a family operation with each member performing a certain task. Mike and Tom started cleaning and drilling the castings, Dick started painting, and Tom Jr. supervised the operation. Tom Sr. served as the maintenance man, while Mrs. Naive performed the duties of the secretary and bookkeeper. All



Mr. & Mrs. Naive often discuss business. She is book keeper.

worked together when time came for assembling, packing and shipping.

Rapidly the business progressed to the point that now more space is necessary to meet the production that is needed to fill the orders. Naive Manufacturing Company has three sales representatives selling over the Midwest, South, and East.

Mr. Naive designs his own molds on the drawing board, has the pattern and molds made, and employs the foundry to pour his castings. The cost of this mold making is very expensive and has cost as much as \$1400 for one product. He states that even though the initial set-up is expensive, the cast aluminum lights and grills are very durable and will never rust like the sheet metal varieties. Each of the electrical components are U. L. approved and each of the products carries a liberal guarantee.

Knowing your product completely is Mr. Naive's first rule for selling and in order to obey this rule he experiments constantly with new dishes and methods of cooking on his grills. He is compiling his findings in a cookbook to be furnished shortly with the new grills.

His experimenting does not stop with food, but continues in better manufacturing processes and improved components to enable him to market a more attractive, durable, and functional product.



Mike Naive is shown working on a lantern.



Dick Naive electrically spray paints a lantern.

... INCLUDING ELECTRIC GRILLS, THE KEYS TO GOOD OUTDOOR LIVING

Today, with the emphasis being placed on outdoor living, the outdoor electric grill or cooker is rapidly becoming the "In Thing." The desire for a convenient, cleaner, and less expensive means of preparing outdoor meals has caused the popularity of the new flameless grill.

Many people remain with the charcoal grill because they believe that the distinctive flavor is obtained from hardwood charcoal, when in reality, the flavor is absorbed from the smoke produced by the burning fat drippings. Also, many of today's so-called charcoals are produced from scrap woods or, in some cases, compressed peanut hulls which could add no desirable flavor whatsoever. On the other hand, one must be very careful to avoid cooking over charcoal until the petroleum lighter has burned away, or the oily taste will be transferred to the food. This is also a complaint with the gas grill.

The lava rock used in the electric grill to radiate the heat uniformly may be washed, but better still, the grill has a self-cleaning process similar to that found on many of today's electric range ovens.

Even though the initial cost of the electric grill is more than the comparable charcoal grill, the low cost of operation of the electric unit will quickly make up the difference to say nothing of the convenience.

The electric grill can readily be compared with the indoor range because it can bake, broil, fry, roast, or bar-b-que, and in some cases, do it more efficiently.

There are many ways to cook an entire meal such as roast, corn-on-the-cob, baked potato, and cornbread all at the same time. This gives the cook a chance to perform completely out-of-doors for a change.

Roasting is almost an impossibility with charcoal or gas grills because of the necessity of oxygen for combustion; however, the electric grill cover may remain in place and very efficiently complete the job. If while roasting, the chef desires a different flavor, a few

hickory chips scattered on the heating source will produce a very desirable taste.

When a flame-up occurs while grilling with the charcoal grill, one has to splash water to temporarily extinguish it, also extinguishing part of the heat source. With gas, the meat must be removed until the flame dies out. Using the electric grill, one simply closes the vents for a few seconds and the fire goes out quickly.

When using charcoal or gas grills once the meat or vegetable is cooked to the desired state, it has to be removed to prevent over cooking. Should there be some delay before serving, this food has to be kept warm by some other means. On the other hand, the electric grill, with accurate heat control, may be turned down to a desirable warming temperature and the dish will remain hot, without drying out, until served.

The need for a rotisserie is eliminated by the design of the oven, which "rotates" the heat in order to cook the meat uniformly.

The safety and design of the

electric grill enables one to use it inside the home, which is a near impossibility with the other types unless they are vented to the outside.

All of these practical features, plus the low cost of operation, help to make the electric grill the grill of the future.

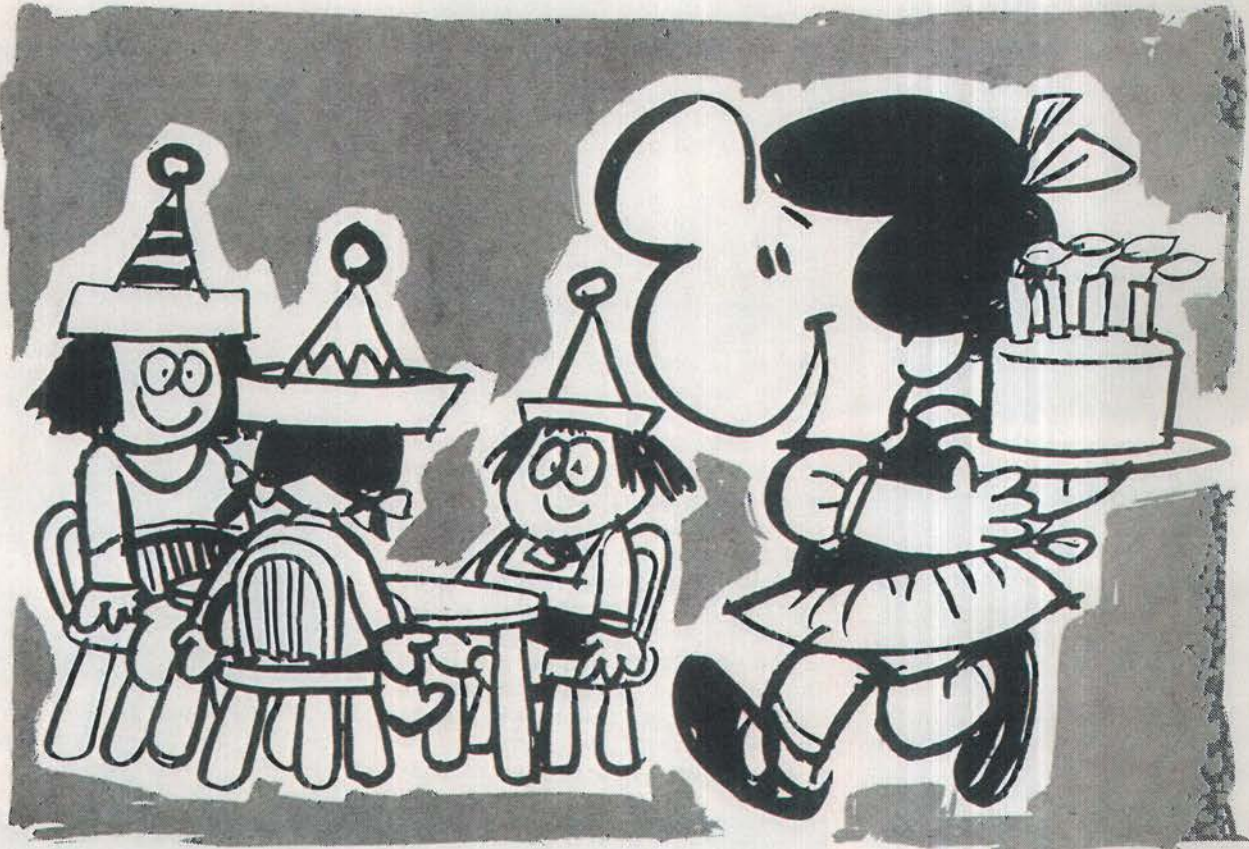


Marvin T. Naive, Jr. is shown with the grill which he invented and manufactures.



Luther Myers, Murfreesboro, uses grill on the patio of his home.

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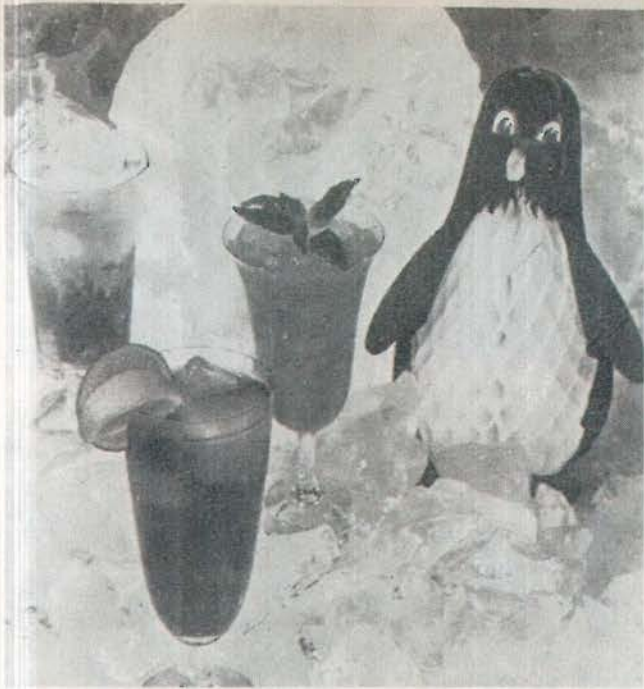
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TENNESSEE'S RURAL ELECTRIC COOPERATIVES



Cool Ideas For . . .

Cooling Off

Mulled Cranberry Drink

- 2 cups low-calorie cranberry juice cocktail
- 1½ cups water
- ½ cup unsweetened grapefruit juice
- 2 teaspoons low-calorie liquid sweetener
- ¼ teaspoon cinnamon
- ¼ teaspoon cloves
- ⅛ teaspoon allspice
- ⅛ teaspoon salt
- cinnamon sticks

Combine all ingredients except cinnamon sticks in saucepan. Heat to boiling. Pour into mugs; serve with cinnamon stick stirrers.

Sparkling Lime Punch

- 5 7-oz. bottles chilled 7-Up
- ½ pkg. (1½ oz.) lime-flavored gelatin
- 1½ cups pineapple juice
- ½ can (3 oz.) frozen lemonade concentrate

Pour 1 bottle 7-Up into ice cube tray. Freeze. Heat ½ cup pineapple juice to boiling. Dissolve gelatin in juice. Add remaining pineapple juice. Stir in lemonade. Cool. Just before serving, pour in punch bowl. Add remaining 7-Up and 7-Up ice cubes. Makes 10 (4 oz.) servings.

Queen Bee Soda

- 1 pint vanilla ice cream
- ½ cup honey
- 2 cups cranberry juice cocktail, chilled

Place a small scoop of ice cream in each glass and top each scoop with about 1 teaspoon honey. Add another small scoop of ice cream to each glass and top with remaining honey. Fill glasses with cranberry

juice and serve with straws and long spoons. Makes 3-4 servings.

Sparkling Lemonade

- 6-oz. can frozen lemonade concentrate
- 12-oz. can apricot nectar, chilled
- 12-oz. can unsweetened pineapple juice, chilled
- 1 small bottle ginger ale, chilled

Combine lemonade concentrate with 1 6-oz. can water. Add chilled apricot nectar and pineapple juice. Pour in chilled ginger ale. Serve in ice filled glasses.

Cranberry Spritz

- 2 cups cranberry juice cocktail, chilled
 - 2 cups ginger ale, chilled
- Combine equal parts of cranberry juice and ginger ale in tall glasses. Add ice and garnish with fresh fruit slices or wedges if desired.

Fruit Flip

- 2¼ cups water
- 2-3 mint leaves
- ¾ cup sugar
- 1 cup tea
- ½ cup orange juice
- ½ cup lemon juice
- ½ cup cherry juice
- ½ cup pineapple juice

Combine water and mint leaves. Simmer 5 minutes. Strain. Add sugar and cook 5 minutes. Cool. Combine syrup, tea and fruit juices. Mix thoroughly and allow to stand one hour. Chill. Serves 8.

Zesty Grape Punch

- 2 whole cloves
- ½ small stick cinnamon

- 3 tablespoons lemon juice
- 3 tablespoons sugar
- 1 quart grape juice
- 2 cups ginger ale, chilled

Tie spices in cheesecloth. Put spices, lemon juice, sugar and grape juice in saucepan and cook over low heat 15 minutes. Chill thoroughly. Just before serving, add ginger ale. Serve in ice filled glasses. Makes 6 servings.

Cranberry Banana Bounce

- 2 small bananas, mashed (about 1 cup)
- 1 pint lemon sherbet
- 2 cups cranberry juice cocktail, chilled

Combine bananas and sherbet; beat with rotary beater or blend in blender until mixture is smooth. Place mixture in 4 tall glasses and fill each with cranberry juice. Stir lightly. Serve garnished with banana slices and fresh or frozen cranberries arranged on toothpicks, if desired. Makes 4 servings.

Cold Punch

- ¼ teaspoon whole cloves
- 1 small stick cinnamon, broken into pieces
- ¾ cup sugar
- ¾ cup water
- juice of 3 lemons
- 18 oz. grape juice
- 7 oz. ginger ale
- water to suit taste

Boil cloves, cinnamon, sugar and water until the syrup tastes strongly of spices. Mix juice of lemons with grape juice and ginger ale. Add water to suit your taste after mixing in the syrup-spice mixture.

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:

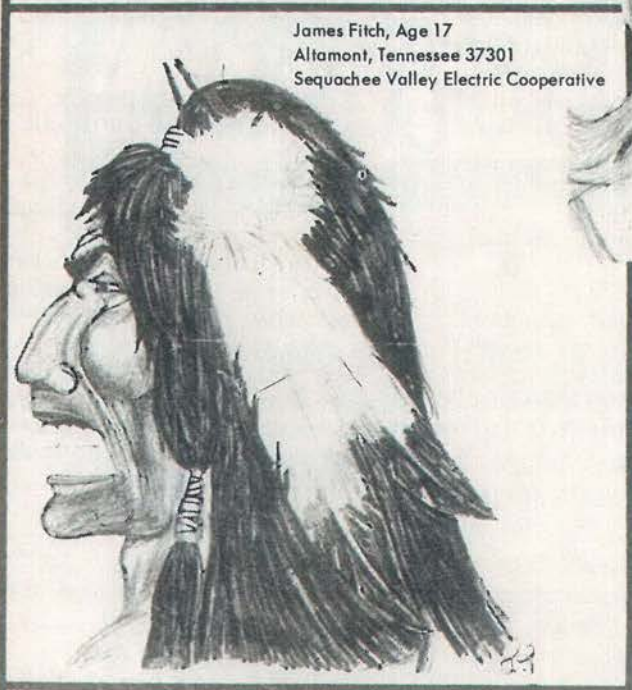
UNCLE JOHN, The Tennessee Magazine
710 Spence Lane, Nashville 10, Tenn.



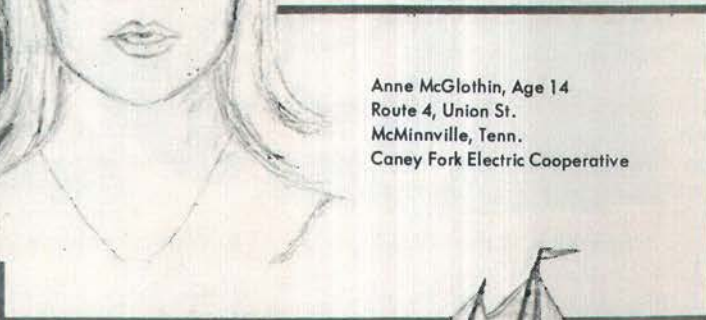
Larry Weaver, Age 15
Route 1, Box 270-A
Atoka, Tennessee
Southwest, Tenn. EMC



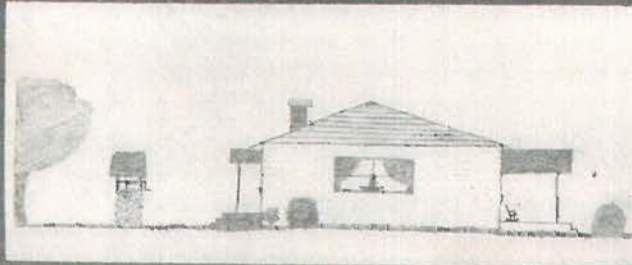
Eileen Hinkel, Age 13
216 Shady Street
Mountain City, Tenn. 37683
Mountain Electric Cooperative



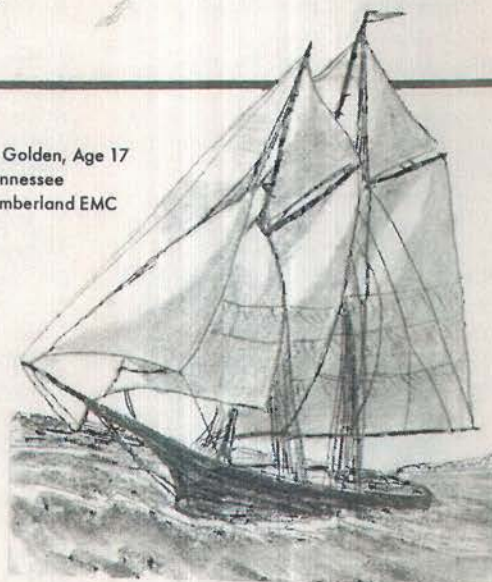
James Fitch, Age 17
Altamont, Tennessee 37301
Sequachee Valley Electric Cooperative



Anne McGlothlin, Age 14
Route 4, Union St.
McMinnville, Tenn.
Caney Fork Electric Cooperative



Paul Edwin Adams, Age 11
Route 2, Union City,
Tennessee 38261
Gibson County EMC



Charlotte Golden, Age 17
Allred, Tennessee
Upper Cumberland EMC

Timely Topics

WHAT TO EXPECT IN INTEREST RATES

High interest rates are a factor contributing greatly to high farm expenses, points out Eugene Gambill, University of Tennessee Extension associate agricultural economist.

"Part of this contribution is indirect," he continues. "This is because so many of the production items farmers buy are higher due to gains in interest rates paid by their manufacturers and distributors."

Although some decline in interest rates from recent high levels appear likely, it seems that interest rates will remain high as long as the economy continues to expand at the rapid rate of recent years. The majority of economists have predicted economic growth at high rates in the next decade.

Many Americans who consider themselves well-informed are inclined to underestimate the performance of the American economy in the last 12 years, Gambill states. In 1958 our annual production rate was \$447.3 billion. At the end of the first quarter of this year the rate of total annual output measured in 1958 prices was \$723.6 billion.

Thus, production of goods and services, measured in 1958 prices to avoid the influence of inflation, has gained more than 60 percent, or \$276.3 billion. Compared to any other period for any other country, this is an amazing performance.

Because of present high interest rates, it is important that farm operators exercise unusual care in contracting debts, Gambill advises. Long-term credit and high interest rates would be more dangerous than short-term credit. The history of farm credit is replete with instances of farm operators being financially ruined by using credit unwisely in the purchase of high-priced land. These instances could very well occur again unless transactions of this type are made only after careful appraisal of the personal situation of each individual.

WOOL SALES ARE HIGHER

Some 75 percent of the Tennessee wool crop has been sold at seven locations across the state, announces Fred C. Powell, University of Tennessee Extension assistant animal husbandman. The 186,200 pounds of wool sold for an average price of \$43.03 per hundred at Jackson, Shelbyville, Fayetteville, Columbia, Hartsville, Lebanon and Knoxville.

Medium or native wools ranged in price from \$42.50 to \$44.50 per hundred and averaged \$43.85 on the 144,000 pounds sold. One-half blood or western wool ranged from \$40.50 to \$44.00 per hundred for an average of \$42.48 on 23,000 pounds. Wool prices in general were slightly stronger than in 1968 with an average increase of \$2.64 per hundred.

Special wool sales have been conducted in Tennessee for 51 years. With more than 20 million pounds of wool marketed, wool growers who participated in this special marketing program have made an extra income of \$783,000.

EXPECT HIGH BURLEY PRICES

Unless a drastic change in smoker attitude causes a reduction in demand for cigarettes, Tennessee tobacco farmers can expect high prices for their crop next winter, says F. M. DeFriese, University of Tennessee Extension associate agricultural economist.

However, if a reduction in demand does occur, it is not likely to happen fast enough to reduce prices on the 1969 crop.

In forecasting the burley acreage for 1969, DeFriese says that the crop is projected to be approximately the same as 1968 when 237,500 acres were grown. However, the 1968 yield of 2,372 pounds per acre and the second highest yield on record will be hard to top.

"Of course, a very favorable season in 1969 could produce a yield that would compare favorably with the last three years," DeFriese adds. "The yields for 1966 and 1967 were 2,437 pounds and 2,274 pounds, respectively. It is too early to make yield predictions, but with price support set at 65.8 cents for burley it is reasonable to expect prices to be good for the 1969 crop."

While flue-cured tobacco is not grown in Tennessee, it is the major type used with burley in cigarettes and thus influences the price paid for burley, notes the economist. Indications are for a larger acreage of flue-cured tobacco this year due to the under-planting in 1968. A crop of about 585,000 acres is expected.

FARM BRIEFS

No doubt the dairyman can realize the greatest return per dollar spent from pasture fertilization than from any other investment on the dairy farm as far as forage production is concerned, states a University of Tennessee Extension dairy husbandman.

★ ★ ★ ★ ★ ★ ★

Pasture clipping is probably the one area most frequently overlooked in pasture management, notes a University of Tennessee Extension dairy husbandman.

★ ★ ★ ★ ★ ★ ★

Because of the many contributions made by soil organic matter to the productivity potential of soils, the inclusion of organic matter maintenance practices is important to a balanced soil management program, says a University of Tennessee Extension agronomist.

★ ★ ★ ★ ★ ★ ★

Soil samples from areas in Tennessee that are quarantined to prevent the spread of the soybean cyst nematode and the white-fringed beetle may still be mailed to the Soil Testing Laboratory, announces a University of Tennessee Extension agronomist.

Whether It's Plant, Services or Products. . . BIG IS THE WORD FOR VANGUARD

By John Stanford

When Vanguard Services, Incorporated, after eighteen years of successful operation in Minneapolis, Minnesota, realized that it must have considerably more plant space and easy access to more waterways, the company decided to move to either Kentucky or Tennessee.

As any Tennessean will tell you, Vanguard made a wise decision. It moved to Tennessee . . . on Kentucky Lake.

Vanguard, a wholly owned subsidiary of the Al Johnson Construction Company of Minneapolis, specializes in the repair of heavy construction equipment and in the fabrication of specialized equipment and barges. Its new Kentucky Lake site of 87 acres is located in Humphreys County about six miles from New Johnsonville.

The Vanguard plant building, which was placed into service in February of this year, has some 25,000 square feet under one roof, including office, construction and repair spaces. The company now has 31 employees and will eventually have more than 100 persons on its payroll. The company brought only three or four of its top executives from the Minneapolis operation. The remainder of the present employees are local people, mostly certified welders and mechanics.

Primarily, the type of equipment which Vanguard is equipped to repair is the ultra-heavy variety, such as the huge graders, haulers and bulldozers used in highway construction and other off-the-road projects.

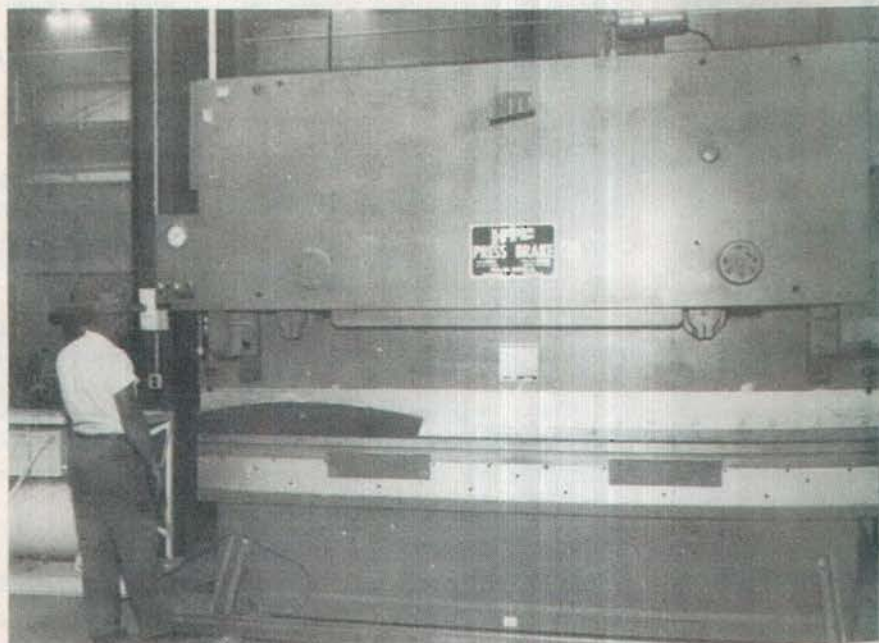
The largest "product" manufactured by Vanguard is a barge measuring 120 feet in length, 46 feet in width and eight feet in depth. Almost 450,000 pounds of steel alone go into each of these barges, all of which are either flat decked or crane mounted for use in construction work, as opposed to material hauling types of barges. In this, its first year of operation in Tennessee, Vanguard hopes to construct six barges and to add to that number in future



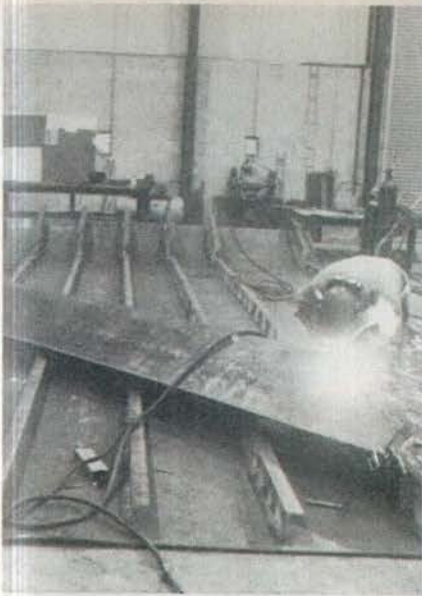
Vanguard's new 25,000-sq-ft building is located on an 87-acre site which is bordered in part by Kentucky Lake.



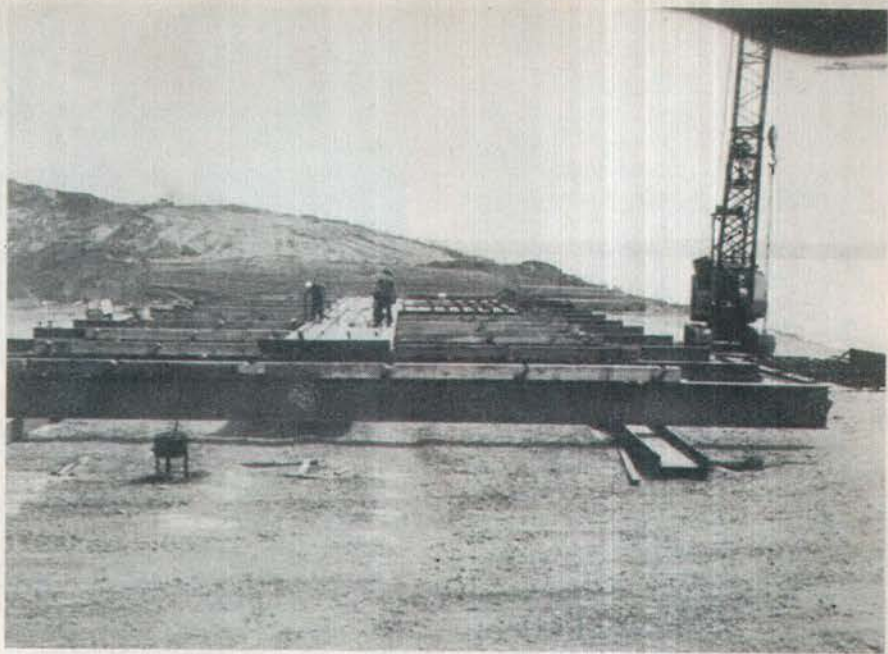
Office Administrator R. S. Charlton explains some of the fine points of this huge sheet metal roller to James Griffin, Electrification Advisor of Meriwether Lewis Electric Co-op, which serves Vanguard with sizeable power load.



This huge electric press brake can supply 3,000 pounds of pressure per square inch in bending thick steel at angles.



Barges weighing approximately one-half-million pounds when fully assembled are fabricated in sections within Vanguard plant. Electric welders are used in abundance in this operation.



After barge sections are fabricated inside plant, they are moved to this structure (way) near shoreline of Kentucky Lake for complete assembly. Lake is at right center of picture.

years. The barges are fabricated in sections in a huge construction area of the Vanguard plant, then moved down to an assembly way on the Kentucky Lake front for joining together, mostly by welding, of all sections into one huge barge.

All of the equipment in the Vanguard shop is electric and most of it is massive in size and capacity. One metal roller, for example, will roll a flat, 1/2-inch-thick steel plate into a cylinder measuring anywhere from ten inches to several feet in diameter. A metal brake applies 3,000 pounds of pressure per square inch in bending thick steel at highly accurate angles. An overhead crane is capable of raising and transporting 30,000 pounds of dead weight from one place to another within the shop. The entire plant is electrically air conditioned.

Vanguard is served electrically by Meriwether Lewis Electric Co-op with 2,400 volt service to a plant distribution point.

Top officials of the Vanguard Services, Incorporated are Vice President and General Manager W. L. Larson, Jr. and Office Administrator R. S. Charlton.

There are several places in Tennessee which repair heavy equipment and fewer which manufacture barges and other specialized equipment. There are very few places in the entire Southeast,



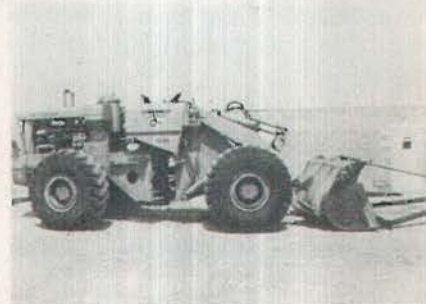
These air locks, sometimes called man locks, were rolled to this preliminary stage by Vanguard on its huge sheet metal roller. When completed, they will be used in underwater construction to get workers to underground work areas.

however, which do both—none that we know about in Tennessee and on Kentucky Lake.

Perhaps that is why Vanguard is so appropriately named and so cordially welcomed to the Volunteer State for, according to one dictionary definition, "vanguard"

means "the leading position in a movement."

This is one of the many types of heavy construction equipment which Vanguard has the facilities and know-how to repair.



PUZZLE CORNER

If number of entries is any indication, our first Puzzle Corner would have to be considered quite successful. At press deadline time, 110 persons, whose names appear at the end of this Puzzle Corner, had submitted correct answers which was:

The NORWEGIAN drinks the MILK
The IRISHMAN shoots the TEAL

For July, the Puzzle Corner will be conducted just a bit differently. Instead of printing all names of those who correctly solve the puzzle, all names of those who send in correct answers will be placed in a contest box and the winning name will be drawn from this box. This winner will receive a prize of \$10 in cash. Then another name will be drawn for a \$5 second prize, but with the understanding that he or she must be a member of an electric cooperative in or serving in a grand division of Tennessee other than the grand division in which the first place winner resides. Then the blind drawing will continue for the third place winner, who also will receive \$5 and who must be a member of an electric cooperative in a grand division other than the two grand divisions represented by the first and second place winners. In other words, each grand division of Tennessee will have one of the three winners each month in the Puzzle Corner contest, with first place winning \$10 and the other two places \$5 each.

July Puzzle

Here is the puzzle for July:
A designer regularly keeps six colored crayons in a box. The orange crayon is at the immediate left of the green. One crayon is yellow. There is an even number of crayons to the right of the black. The red crayon is between the blue and the green. What is the order of the colors from left to right?

Send answers to:

Puzzle Corner
The Tennessee Magazine
P. O. Box 7232
Nashville, Tenn. 37210

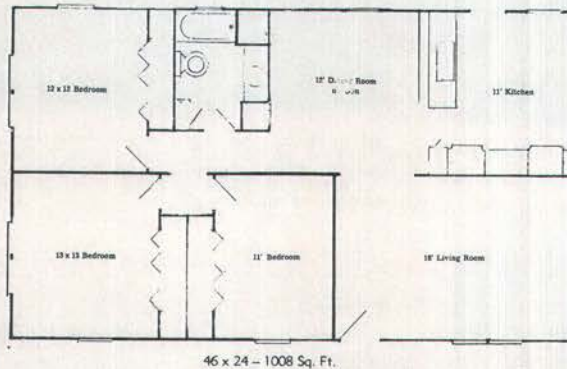
(Continued on Page 21)

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There Are No Last Frontiers For Rural Electric Co-ops

By Phil Sawicki

NRECA Statewide Correspondent

One of these days it will be necessary to electrify the moon—at least the dark side.

And since the moon, at that time, will have few permanent residents, it will probably be up to rural electric cooperatives to provide electricity. Investor-owned utilities don't like to serve where there aren't many people.

But until that time comes, rural electric cooperatives will continue to meet challenges right here on earth.

High on the list of present challenges is the bringing of electricity to remote native communities of Alaska, the largest and least-populated state in the union.

Twice as big as Texas but with a population of only 226,000 at the last (1960) census, Alaska has long been served by 12 rural electrics, ranging from Meklatla Power & Light Cooperative in the southernmost part to Kotzebue Electric Association, about 25 miles north of the Arctic Circle on the Chukchi Sea.

Two hundred miles farther north of the Arctic Circle lies the village of Kaktovik, on Barter Island in the Arctic Ocean just off the Alaskan mainland.

Kaktovik is one of the 59 villages inhabited by Indians, Eskimos or Aleuts that in 1967 became members of the state's youngest rural electric, Alaska Village EC.

Three of the energetic people who are guiding Alaska Village Electric in its first years spoke to the National Rural Electric Cooperative Assn. Annual Meeting in Atlantic City. With the help of a slide presentation, they vividly demonstrated the challenges involved in bringing electric service to villages that are hundreds—or thousands—of miles apart.

Challenges Nothing New

But challenges, as one might expect, are nothing new to William Hensley, president of the

cooperative, Mrs. Diana Carpenter, vice president, and Willard C. Rhodes, manager.

Hensley, only 28, already is serving his second two-year term in the Alaska House of Representatives. Born in Kotzebue (a village larger than most, with a population of about 2,000), Hensley is one of the relatively few Eskimos who have graduated from college.

As a boy Hensley went to schools operated by the Bureau of Indian Affairs and, he says, "reading about America then was like reading about a foreign country."

In 1960 he started his college studies at the University of Alaska as a business major. After two years there, however, he left to work and travel, and it was not until 1964 that he resumed his schooling, that time at George Washington University in Washington, D.C.

Completing the requirements for a degree in political science in 1966, Hensley was well equipped for his election to the Alaska House later that year. He represents an area of about 90,000 square miles where dog sleds, sno-cats and planes are the primary means of transportation. His district has no paved roads.



Family group in Alaskan village.

Housewife-of-All-Trades

Mrs. Carpenter, vice president of Alaska Village Electric, is a housewife-of-all-trades with five children ranging in age from 17 to 2.

With her husband, a dentist in private practice who also works under contract with the Alaska Native Health Service, Mrs. Carpenter settled in Alaska 15 years ago.

The seven Carpenters constitute a sizable proportion of the tiny settlement of Stony River (population, about 100) in the Kuskokwim Valley. There, on any given day, Mrs. Carpenter will be taking meteorological readings and reporting them to the central weather bureau, collecting and distributing mail (she also writes letters upon request), or making plans for the next project of the Kuskokwim Valley Development Committee.

The Committee, now three years old, is close to Mrs. Carpenter's heart. As one of its founders and past president, she has seen the group, made up of representatives from 15 villages, work effectively to get action on local problems from the governor, the state legislature or state agencies.

Rhodes, the manager of the cooperative, took that job in June of 1968, after having spent almost all his previous adult life working with rural electrics in one way or another.

Way back in 1936 he began staking electric lines with REA while taking night courses in engineering. By 1944 he had become manager of Kay Electric Cooperative in Blackwell, Okla., where, incidentally, he hired Louis B. Strong, now NRECA Secretary-Treasurer.

Moving to Ulysses, Kansas, in 1949, Rhodes served as manager of Pioneer Electric and Pioneer Telephone Cooperatives until 1952, when he joined Southwestern Public Service Company, a private firm, in Amarillo, Tex. He explains, however, that he remained very interested in rural electrics, since Southwestern Power provides service to rural systems at 110 geographical locations.

Thus, by the time he pulled up roots in Texas and moved to Alaska, Rhodes already had almost 30 years of rural electrification experience. Bringing electricity to remote Alaskan villages, he says, "probably has more challenges in it than all the

others put together."

Doing The Impossible

One reason is that it would be virtually impossible to obtain the loan capital to build the thousands of miles of distribution line that would be necessary if all the members of Alaska Village Electric were to be served from some centrally located generating plant.

Only seven of the cooperative's villages will be served in that standard method. Each of the other 52 villages will have its own generating station, operated by village residents now being trained in Anchorage.

Simply getting the generating stations to these remote villages and getting them assembled will be a considerable problem in logistics, since none of the villages is on a road or a railroad. Boats and planes will transport the equipment and the newly trained station operators.

Annual meetings of the co-op will be unusual too, since it will be impractical to invite members to a gathering that would be thousands of miles away for many of them. Instead, each village will hold its own meeting and elect a delegate to the cooperative's central annual meeting in Anchorage.

Right now only six of the villages have actually organized a local cooperative membership, and only three have village-wide electric systems in operation.

But thanks to an REA loan of \$5.2-million, under which funds have now begun to be advanced to Alaska Village Electric, it is hoped that about 30 of the villages will have service by the end of this year. The target date for serving the rest is 1970.

"Poorest of The Poor"

Describing these faraway areas in the northern-most part of the United States, an NRECA article noted that "Alaska natives are America's poorest of the poor. Theirs is a subsistence economy based primarily on hunting and fishing and supplemented by welfare from various sources. Unemployment averages in excess of 60 per cent. The infant mortality rate is the highest in the nation. Average life expectancy is a mere 34.4 years. Poverty, disease and illiteracy characterize the general harsh existence."

Thanks to rural electrics, that



REA Administrator David A. Hamil, right, said something that got a big smile from three leaders of Alaska Village Electric Cooperative who spoke to the NRECA Annual Meeting in Atlantic City. From left to right they are: Willard C. Rhodes, manager; Mrs. Diane Carpenter, vice president; and William Hensley, president. Note Mrs. Carpenter's Eskimo boots. Their electric co-op is Alaska's youngest.



Life is hard, at best, for Alaskans. But, thanks to Rural Electrification, scenes such as this will someday be a thing of the past.

harsh existence is beginning to be made easier at one of

America's—but not rural electrification's—last frontiers.

Puzzle Corner

(Continued from Page 18)

And now, here are the names of the folks who correctly solved our June Puzzle Corner:

Mr. and Mrs. Ronnie Wright, Route 5 - Shannon Road, Lebanon, Tenn. 37087; Miss Judy Drake, Route 3, Selmer, Tenn. 38375; Mr. A. J. Hines, Route 1, Selmer, Tenn. 38375; Wesley Agnew, Box 254, Alexandria, Tenn., 37012; Alfred Hancock, Jr., RR 1, Liberty, Tenn.; Dora Lee Swallows, 201 North Holly, Monterey, Tenn. 38574; Miss LuAnn Cope, Route 1, Calhoun, Tenn., 37309; Jan Hailey, Selmer, Tenn.; Jerry Cox, Bethel Springs, Tenn.; Debra Taylor, Route 4, Henderson, Tenn. 38340.

Sheila E. Smith, Age 13, Route 1, Tullahoma, Tenn., Mrs. James Mofett, Sardis, Tenn. 38371; Ann Cook, Montezuma, Tenn. 38360; Osa Lee Taylor, Henderson, Tenn. 38340; Elizabeth Marbry Bullock, Covington, Tenn. 38010 (1617 South College St.); Bill Sellers, Route 2, Lascassas, Tenn. 37085; J. T. Stewart, Route 1, Watertown, Tennessee 37184; Alice Williams, 531 Arlington, Jackson, Tenn. 38301; Carolyn P. Jackson, Route 4, Brownsville, Tenn. 38012; Mr. Calvin F. Morris, Route 2, Winchester, Tenn. 37398.

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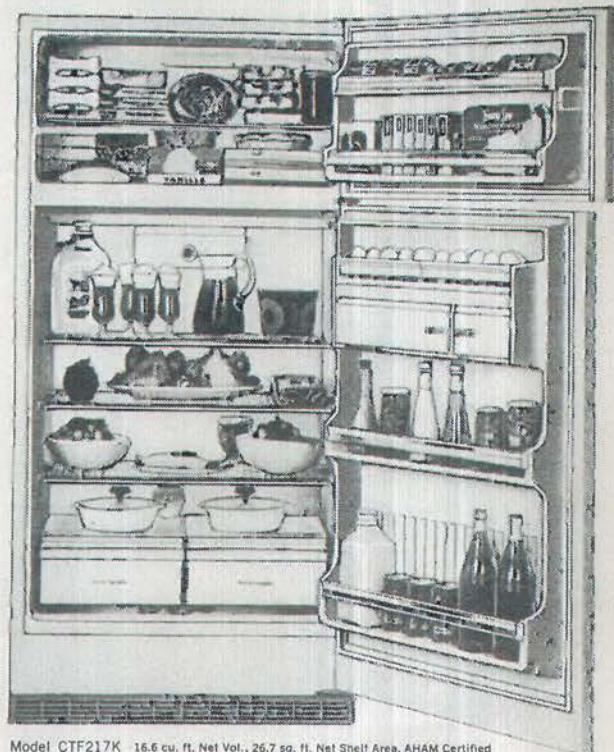
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