

APRIL, 1970

**Tennessee**  
MAGAZINE

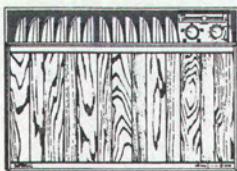
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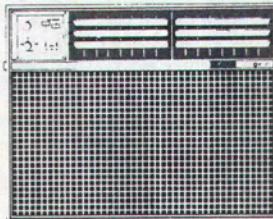
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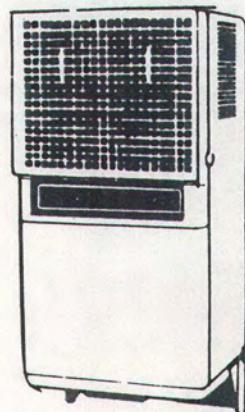
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# Tennessee MAGAZINE

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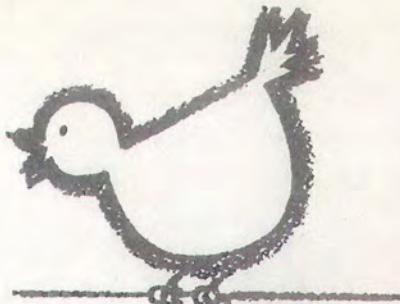


ON THE COVER

Tennessee is unsurpassed in scenic  
beauty and history. These two meet in  
Cumberland Gap in this picture of an  
old iron furnace dating back to Civil  
War days surrounded by the greenery  
of spring.

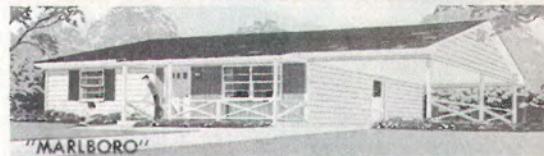
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# Volunteer Views

by **J. C. Hundley**

Executive Manager, TECA

The widely circulated statistic that 70% of all Americans live in only 1% of our total land space leads to the basically correct assumption that our nation is rapidly approaching a status of top-heavy urbanization. Seven out of ten of our citizens now live in big cities, suburbs of big cities, or in places other than rural and small town areas.

This condition is cause for more concern than pride. It is, as a matter of fact, one of the greatest problems faced by our nation. Not only does the crowding of existing cities create new and boundless problems for the cities themselves, but much of this overcrowding is brought about by the migration to cities of rural and small town residents who should not be leaving these less populated places of their births and rearings in the first place. True, the rate of migration from rural to urban is slowing, but it's still far from a breakeven point.

For some unexplained reason, many people seem to think that America has always been basically urban, yet only about one in twenty Americans more than 30 years of age can trace his ancestry back more than two generations without finding that his forebears were rural and small town dwellers, and that most of them had from a partial to a complete interest in farming or agriculturally related vocations.

The principles upon which our great nation was founded and still, for the most part, operates were born in the minds of rural people. When the Constitution of the United States was framed at Philadelphia in 1787, all but one or two of the signers were rural people. When the Constitution became effective on March 4, 1789, there were just under 4,000,000 persons in the United States. The overwhelming majority was rural and agrarian.

One of the greatest of our rural heritages which has carried forward from our earliest history is that of cooperation, without which our early settlers might not have survived and without which our rural and small town areas—as we now know them—might not exist today.

In the olden days, men, women and children "pitched in" to build homes, barns, churches and schools and to harvest crops as a matter of individual cooperation—and survival.

Today, rural and small town people have pooled many of their individual needs and desires into incorporated cooperatives, a virtual necessity in today's business world.

There are many fine cooperatives in existence today, but we think that none is more vital, more exemplary—especially insofar as our rural and small town areas are concerned—than America's electric cooperatives. The availability of electricity, while providing all the known conveniences of living to our rural areas without the overcrowding and turmoil of our cities, hasn't yet provided quite enough jobs to keep all of our folks (particularly our younger people) gainfully employed at home. But great strides are being made in this and other areas of living and working. Every American farmer is now faced with the task of raising food and fiber to feed and clothe 40 persons and that number is steadily increasing. More and more industries and factories are locating in the "wide open spaces" served by electric cooperatives.

In so many ways, our rural and small town areas have been, and will always be, the heart of America. Your electric co-ops are happy and privileged to be an important factor in helping that heart beat loud and clear—and for a long time to come.

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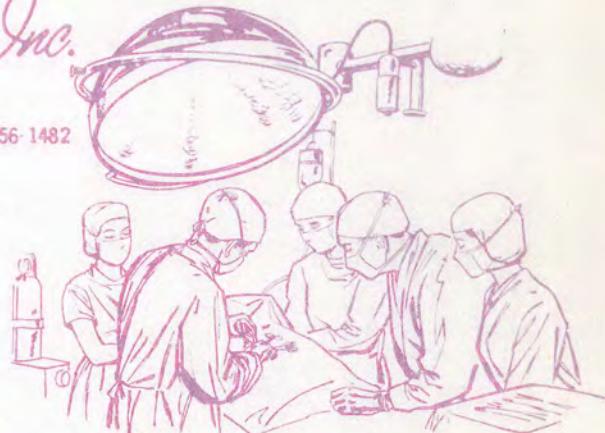
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Queen Janet: "Miss Rural Electrification U.S.A."



In February of 1951, the first contest to select Miss Rural Electrification U.S.A. was held in Cleveland, Ohio.

On February 10, 1951, there was born to the Wayne H. Porter family of Route 2, Humboldt, Tennessee (Crockett County) a third child and only daughter, Janet Marie.

Nineteen years and the same number of contests later, these two events were destined to coincide in Las Vegas, Nevada as Janet Porter became the 20th winner of the Miss Rural Electrification U.S.A. Beauty Contest, an event which has grown from an humble beginning in 1951 to one which receives nation-wide recognition and considerable monetary rewards to the winner.

Pictured at left is Queen Janet soon after she was crowned to reign over all Rural Electrification for one year. And immediately above are six full-color highlights of her trip to Las Vegas, her victory and ultimate recognitions.

At top left Janet is shown in the pilot's seat of the big American Airlines jet plane, one of two

charter planes which carried most of the Tennessee delegation to Las Vegas for the 28th Annual Meeting of the National Rural Electric Cooperative Association. At right is her chaperon, Mrs. Robbie Nowell, home economist of Gibson County EMC. At top right, Janet meets with REA Administrator David Hamil and Carmen Burton, state winner of the Tennessee Electric Cooperative Association's Essay Contest, who also received an expense-paid trip to the NRECA Annual Meeting. The picture at center left shows THE MOMENT when Janet was announced as winner of the contest. At center right, Janet tapes one of several television interviews, this one for a Chicago station. At bottom left, Janet is presented to and honored by the House of Representatives in the Tennessee General Assembly. At bottom right, she is received and given a citation by Governor Buford Ellington.

All Tennesseans can be justly proud of their national winner. In beauty, in graciousness, in talent, in character and in all other important ways — she is truly a queen.



# Adequate Wiring - Key To Mobile Home Living

By NATHAN PHIPPS, JR.  
Power Use Advisor  
Duck River Electric Membership Corporation

Have you noticed the increase in the number of mobile homes that you see around the countryside these days? The mobile homes industry has aroused widespread interest among home buyers and investors. Last year, over 90% of all single-family homes under \$15,000 purchased in the United States were mobile homes.

Most mobile homes are permanent dwellings, usually occupied by homeowners who feel they can't afford the current typical cost of \$13 to \$18 per square foot of living area. Mobile homes cost about \$8 to \$9 per square foot depending upon equipment and furnishings.

Mobile homes are usually set up on privately-owned sites, but many new mobile home parks are opening each year. Wiring in some of the older parks is inadequate and unsafe. One good way to serve a mobile home park is the wiring arrangement of an installation in Summitville, Tennessee. The primary electric line is on the edge of the street in the mobile home park where it is easy for the Co-op to maintain. A service drop is run between two mobile homes to the back of the park to a meter pole. Some type of gang metering arrangement is mounted on this pole. Direct burial conductor or approved conductor in rigid conduit is then run to each mobile home.

The arrangement of the mobile homes together with the number and sizes of the switches is used to determine the size of the conductors and conduit to be mounted on the pole. In some parks where the lots are big, a gang metering arrangement similar to *Figure 1* with only four meters is practical. All switches in *Figure 1* are 60 amp., but a different size switch could be substituted for one or two of the 60 amp. switches.

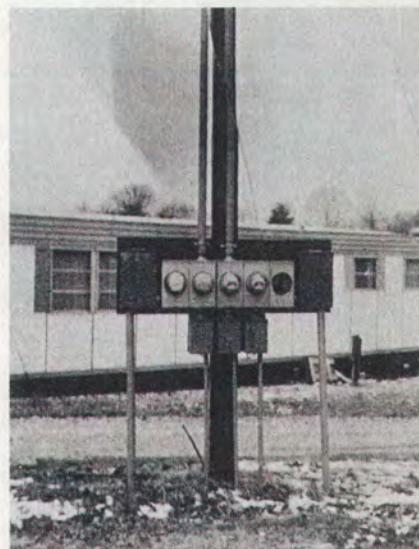
If the mobile homes are closer together, then the meter pole in *Figure 2* may be the best arrangement. The park owner might wish to use all 60 amp. instead of the arrangement in *Figure 2* which will accommodate two all electric mobile homes. When a mobile home park is served underground, conductors do not run across one mobile home in order to serve another mobile home.

The meter pole arrangement as shown in *Figure 3* is adequate for serving a single mobile home. The service equipment shall be located adjacent to the mobile home and not mounted in or on the mobile home according to Section 550-3 of the 1968 National Electrical Code.

The power supply to a mobile home is a feeder circuit. The permanent feeder wiring or the supply cord for a three-wire service shall have four conductors—a neutral, two ungrounded conductors,



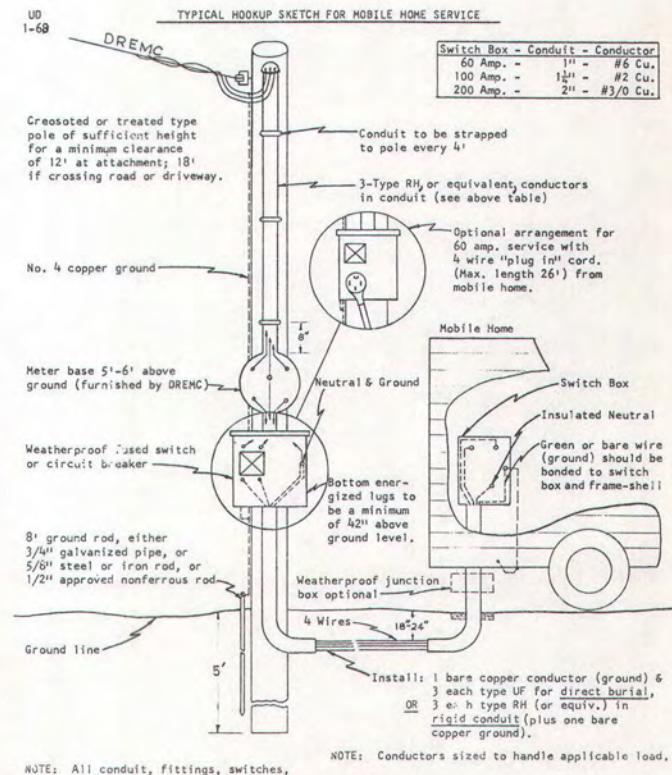
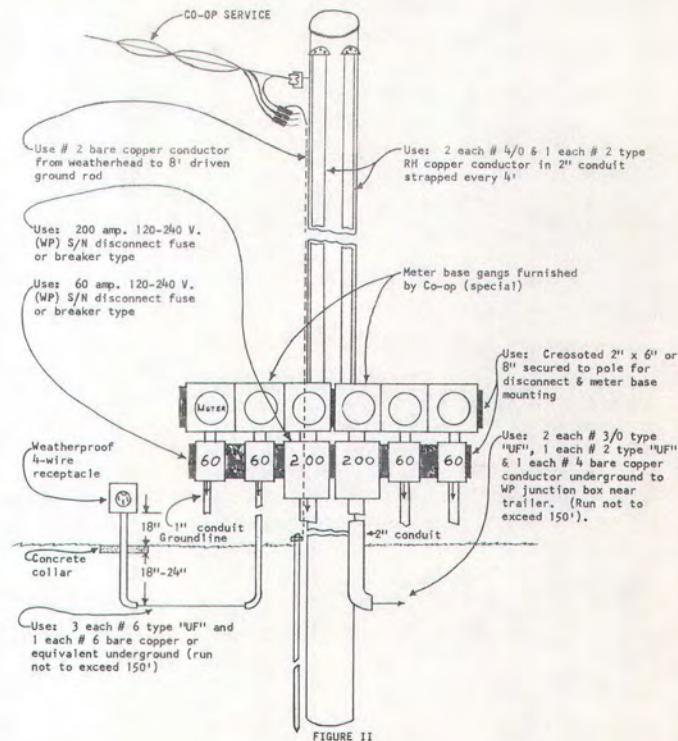
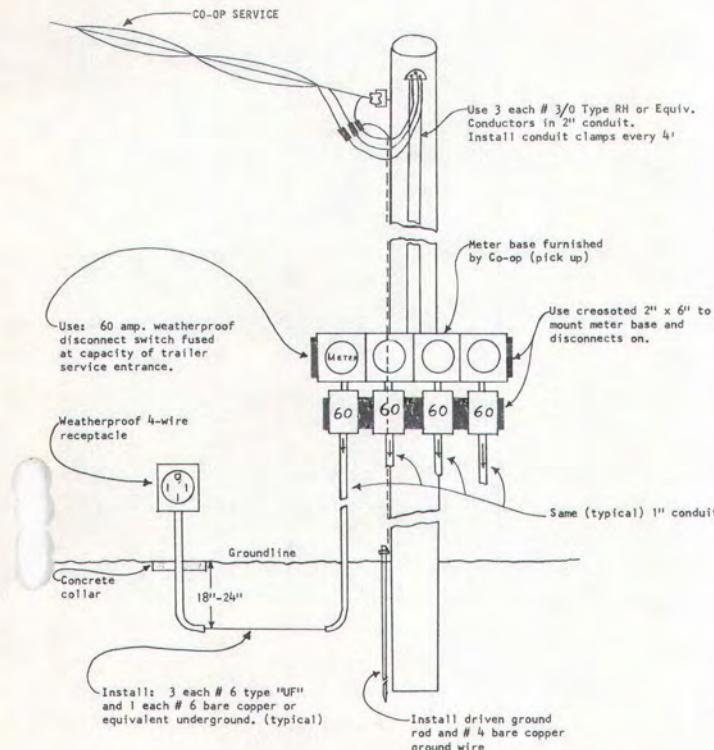
Shown above is a typical meter pole arrangement with underground service to each mobile home. It includes three 60-amp. and two 200-amp. weatherproof disconnect switches. A 200-amp. service will accommodate an all-electric mobile home.

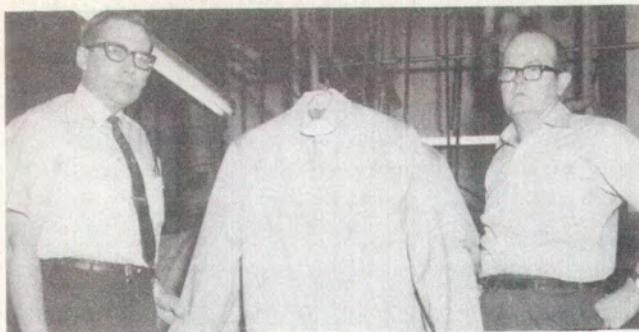


This mobile home park is located at Summitville, Tennessee. It features a complete underground electric service from the meter pole to each mobile home.

and a grounding conductor. Neither the frame of the mobile home nor the frame of any appliance may be connected to the neutral conductor in the mobile home.

The green-colored grounding wire shall be connected to the grounding bus in the panel. All exposed metal parts in the electrical system, the chassis, and all major exposed parts that may become energized shall be effectively bonded to the grounding terminal or enclosure of the distribution panel. All metal parts in and on a mobile home must be kept at ground potential. This is pointed out in Section 550-9 of the 1968 National Electrical Code.

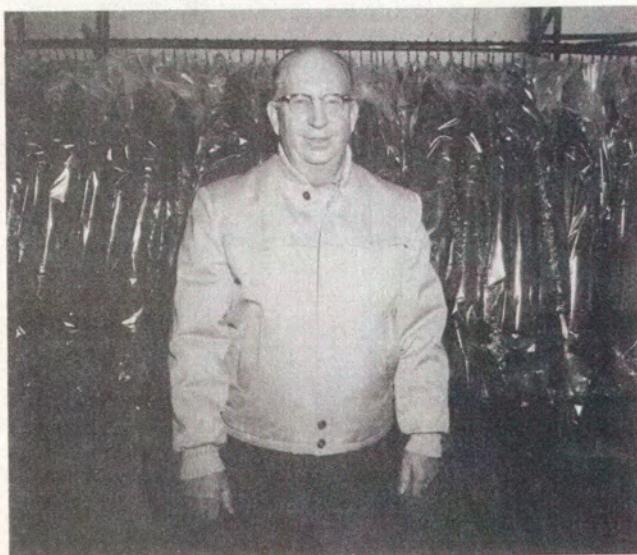




Mr. Joe Bone, plant engineer, and Mr. J. B. Bell, supervisor of the finishing department of the Kellwood Company, Rutherford Division, inspect one of the permanent press jackets prior to its going into the oven.



Permanent press jackets are put into the oven where the chemicals in the fabric react to the heat, forming bonds which shape the garment permanently. The temperature of this oven is 325° to 335° F.



Mr. Vernon Tosh, presser at the Kellwood Company, Rutherford Division, models a finished jacket made in the Rutherford plant.

## Automatic Laundry Equipment +

### Permanent Press = Carefree Garment Care

*By: ROBBYE NOWELL  
Home Economist, Gibson County EMC*



Mrs. Ann Fairless, home economics instructor at Peabody High School, looks on as students Emily Hopper, Jane Thompson, and Pam Campbell learn carefree garment care with automatic electric laundry equipment and permanent press.



Miss Diane Hall, student teacher at Peabody High School, with students Beth McConnell and Karen Chapman take a permanent press tablecloth from the electric dryer.

Often we have heard or been told "not to judge a book by its cover"—yet how often are we occupied in thought and conversation about what our friends, family, and we ourselves wear. Clothing has become very important in our lives.

Few are Cinderellas as far as having a fairy godmother to wave a magic wand which transforms unbecoming clothes into fashionable and attractive ones. Yet today, each may be a Cinderella—not by living in a dream world as she did, but by selecting and properly caring for smart, well-designed clothes which are most becoming.

The latest development in the textile industry is Permanent Press—an iron-free, wrinkle-free treatment developed specifically for washable clothes.

Permanent press garments are made from chemically treated fabrics which are made of a blend of synthetic fiber and a natural fiber. The fabrics are pressed and "cured" at high temperatures by one of two methods. In one, the "post-cure," the treated fabric after being dried cut, sewn, and pressed is put into an oven where the chemicals in the fabric react with the heat forming bonds which shape the garment. In the other method, the "pre-cure," the uncut fabric is cured first in high-powered presses. It is then washed, cut, sewn, and pressed. Both methods result in garments which, so to speak, have a "memory" of the shape of the finished garment. They can be worn, washed, and worn again without ironing provided they are laundered properly.

We all marvel at performances of concert pianists, gridiron stars, or even trapeze artists, but without instructions and practice none of these could perform as they do. So it is with these miracle garments. They will not perform as they should if proper laundering instructions are not practiced. It is important to remember that the permanent press "cure" and its care are compatible processes which work together to assure memory-retaining shape.

Washing machine and dryer manufacturers have kept right in step with miracle fabric advances and their new products are the only way to achieve really wrinkle-free results. Automatic electric washers and dryers with special cycles provide correct, controlled, cool-down temperatures, slow speeds, and tumble drying which is vital to the long life and "just new" look.

Permanent press garments should be laundered frequently to avoid stain setting. Heavily soiled articles, spots and stains should be pretreated with a concentrated soap or detergent solution before laundering. Sort clothes by color, fabric, construction, and degree of soil and wash with like articles. The wash load should be smaller than normal since crowding can cause unnecessary wrinkles. Turn pleated and creased garments inside out to prevent wear along creased lines.

Instructions for washing permanent press usually recommend cold or warm water for less wrinkling. However, heavily soiled articles may require hot water for thorough cleaning. The wash water should be cooled down gradually before the spinning action begins. This should be followed by a cool rinse and a gentle spin speed to minimize wrinkles. Fabric softener added to the last rinse



Oh! for this wonderful world of permanent press fabrics. Present day Cinderellas such as Mrs. Ann Fairless, Karen Chapman, Jane Thompson, and Pam Campbell have no need for a fairy godmother with a magic wand. They wear permanent press dresses which are given loving care in automatic washers and dryers.

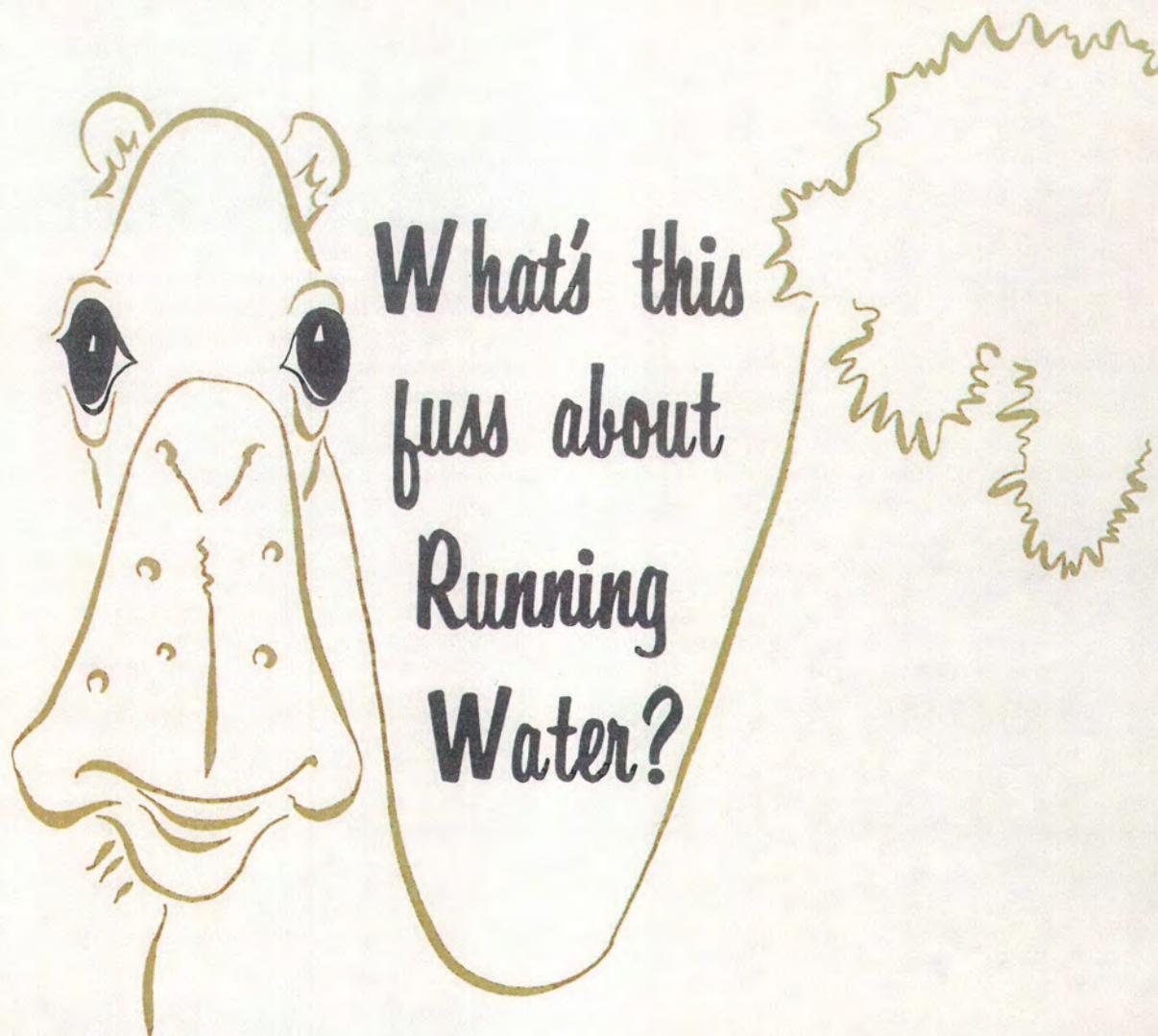
makes them soft and removes static electricity.

Automatic electric dryers with time and temperature controls are best for these miracle fabrics. The heat of the dryer relaxes the fibers and the tumbling action smooths out wrinkles that may be present. To avoid the nasty little wrinkles that occasionally appear in permanent press, the garments must be removed immediately from the dryer when the cycle is completed and should be placed directly on hangers or folded.

Permanent press fabrics are truly the now era of effortless elegance. They are putting American women on the threshold of a new way of life when irons may soon be put upon a shelf and ironing boards may be regarded as relics of the "good old days." But remember, to have everything look band-box fresh and live a long, useful life—you'll need a modern automatic electric washer and dryer.



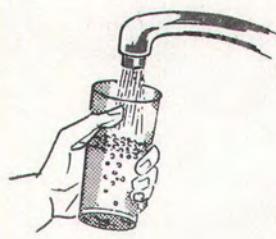
Away with the old (iron that is). In with the new (permanent press). The time may not be too far away when the iron will be put on the shelf as Miss Hall is doing while Beth McConnell and Emily Hopper remove permanent press dresses from the dryer and put them on hangers.



Running water isn't the camel's concern. But it is yours—especially if your home is among the 17% in rural areas with no running water.

Do you still carry all the water you need—for drinking, for washing clothes and dishes and for personal use? If so, your home is not modern.

Running water is more than a convenience—it is a necessity. It's no accident that the highest degree of general health among rural and suburban families across the country is



ELECTRICITY—the heart of modern living

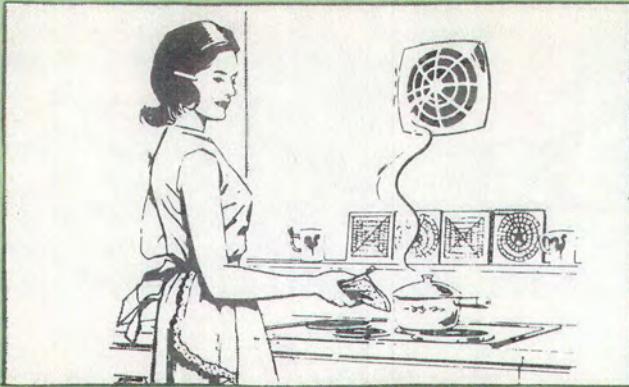
found where the most use is made of pressure water systems. An automatic water system is indispensable to almost all modern comforts and necessities.

It makes possible easier food preparation, garbage disposal, up-to-date sanitary facilities and automatic dishwashing and laundering.

Give your family a break! Don't deny them the benefits of an automatic water system. Ask your rural electric for professional help in planning an electric water system today.



© NRECA



□ Clean



□ Modern



□ Safe



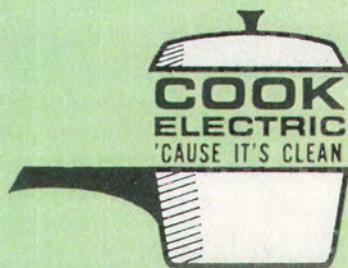
□ Cool

# CLEAN- Because It's Electric!

● There's a new twist to old-fashion cooking—a modern, electric range. It's so clean because it's flameless. No fumes to dirty your kitchen; no odor to spoil your meals. An electric range is child-safe, too—safe as a light bulb.

● An electric range makes cooking and baking easier and surer. You select the best temperature for every dish. Once you've established a superior recipe, you can repeat it time after time. Many models feature automatic timing devices which "watch" the meal while you are doing other things for your family.

● Visit your favorite appliance dealer to see the wonderful new electric ranges. Many feature self-cleaning ovens to save you that messy, troublesome job. You're sure to find an electric range that's just right for your family!



# 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.



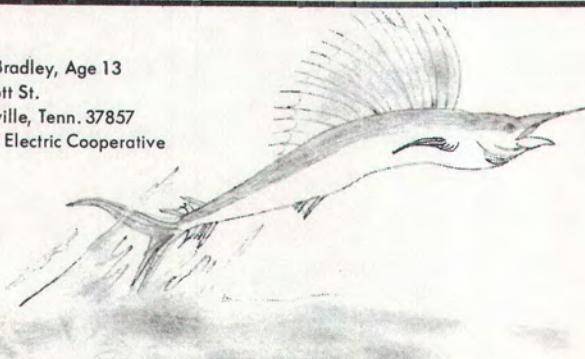
Judy Little, Age 17  
383 High St.  
Dyer, Tenn. 38330  
Gibson County EMC



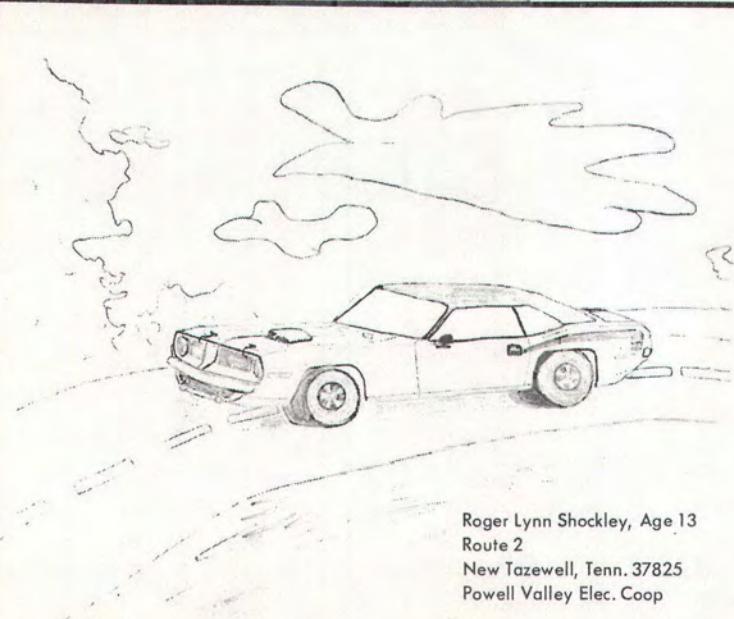
Harold Qualls, Age 14  
Cookeville, Tenn. 38501  
Upper Cumberland EMC



Steven Ozzie Bush, Age 13  
Tenn. Ridge, Tenn. 37178  
Meriwether Lewis E. C.



Henry Bradley, Age 13  
608 Scott St.  
Rogersville, Tenn. 37857  
Holston Electric Cooperative



Roger Lynn Shockley, Age 13  
Route 2  
New Tazewell, Tenn. 37825  
Powell Valley Elec. Coop.



Don Campbell, Age 13  
Route 2  
Ripley, Tenn. 38063  
Forked Deer Elec. Coop.

# Timely Topics

## GARDENERS, REMEMBER THE FROST-FREE DATE

If you are one of the many gardeners who always try to plant vegetables on Good Friday, your frost-susceptible varieties are likely to be killed this year.

This word of caution comes from Robert D. Freeland, University of Tennessee Extension assistant horticulturist, who says that the average frost-free date is April 15 for most areas of Tennessee. Good Friday is March 27 this year, quite a bit earlier than the average frost-free date. The average frost-free date is selected by taking the last date killing frosts have occurred in the spring over a period of 30 to 50 years.

"Average means that half the time the plants will get some frost and half the time they won't if planted on April 15," Freeland explains. "The chance of damage if planted on Good Friday this year is almost a sure thing."

The horticulturist advises gardeners to be patient. Plant vegetables such as snap beans, sweet corn, okra and tomatoes after the danger of frost. Favorable planting dates are listed in publication 447, "Vegetable Garden Guide," available from your county extension office.

## GIVE YEARLING BULL GOOD CARE

Yearling beef herd bulls need proper feeding and care for best performance and long life in the herd.

"Proper care is a must in order to get a high calf crop percentage and to return the most profit to the herd owner," advises Haley M. Jamison, University of Tennessee Extension associate animal husbandman.

During the next few weeks, many beef bulls will be placed in cow herds to sire calves that will be born next January, February and March. Many of these will be young bulls—12 to 15 months old—and will include those sold in the Tennessee Superior Tested Bull Sale at Ellington Agricultural Center on March 18.

"Your newly-purchased yearling bull should be acclimated to his new home and properly conditioned for several weeks before you place him in the cow herd," recommends Jamison. "Keep him in a small pasture for proper exercise and feed him similar to the feeding at his previous home so he will continue growing."

Six to eight parts of crushed corn to one part protein supplement, fed at the rate of one to one and one-half pounds per 100 pounds of live weight, is a good ration when good hay and a mineral mixture are provided.

Limit the yearling bull to 10 to 12 cows for a period of 90 days, cautions the animal husbandman. During the breeding season, feed a concentrate ration at the rate of one pound per 100 pounds of body weight. Good pasture will not supply sufficient nutrients to a yearling bull running with the cow herd.

After the breeding season, put the bull on full feed for two or three months. Use a good concentrate and hay to keep him growing. As the bull matures, grain fed in proportion to live weight can be reduced. Excessive feed produces fat on a mature bull.

## COTTON SEEDLING DISEASES SHOULD BE CONTROLLED

The most critical disease problem facing cotton producers in Tennessee is that of seedling diseases. Poor stands, re-planting and late cotton can be avoided by taking adequate measures to control seedling diseases.

Charles Hadden, University of Tennessee Extension assistant plant pathologist, says that the first step to a good stand of cotton is good seed. Plant only high quality seed with a germination of 80 percent or higher. Don't plant in cold, wet soil; wait until soil temperatures are suitable for seed germination—above 70 degrees.

"Be sure your cotton seed is treated with a protectant fungicide," Hadden suggests. "Usually this is done at the gin or by the seed dealer, but if not, you can do it yourself."

In fields where soil-incorporated, pre-plant herbicides or granular, systemic insecticides are used, be sure you use an in-furrow fungicide. In-furrow fungicides should also be used in fields with a history of seedling disease problems or where cotton is grown more than one year in succession.

"In-furrow fungicides can be applied as granules, dusts or sprays," Hadden says. "Both early-season insect and seedling disease control can be obtained by using granules containing a fungicide-insecticide combination at planting."

Contact your county extension office for additional information on cotton seedling disease control.

## GET HIGHER YIELDS BY PLANTING EARLY

Corn that is planted by May 1 will give you more corn at harvest than corn that is planted later, states Joe D. Burns, University of Tennessee Extension associate agronomist.

"The southwestern corn borer has reduced yields as much as 50 percent for corn planted June 1 compared to corn planted by May 1," he adds.

Corn stunt disease (maize dwarf mosaic) is also more severe on late planted corn. If you have had some corn stunt problem, be sure to select varieties of corn which have some resistance to the disease.

Remember that moisture in the soil is an important factor. Early plantings have produced higher average yields of corn because of an adequate water supply.

Burns gives these additional suggestions for producing high corn yields:

- Lime and fertilize by soil test recommendations.
- Use varieties which have been tested and proved in Tennessee.
- Control weeds, especially johnsongrass, by chemicals or cultivation or both.
- Use enough seed for a 12,000 to 18,000 stalks per acre stand (8 to 12 inches apart for 42 inch rows, 10 to 15 inches in 36 inch rows).



Henry Phillips spends many hours on wood crafts in his basement hobby room.



An attractive family room can be the focal point in a remodeled basement.

## Need More Home Living Area? Finish Your Basement!

By **ELMO LUNN**, Electrification Advisor  
Meriwether Lewis Electric Co-op



Family recreation is provided in a finished basement.



A finished basement is a perfect place for group entertainment.



Mrs. Henry Phillips of Linden enjoys the sewing and laundry room in their basement.



Youngsters have a nice place to get together in the basement of the Arland Turnbow home in Linden.

Would you like a home twice as large as the one in which you live—for only a fraction of the constructed cost of the house? Then you should think about finishing the basement for living.

As a homeowner, consider these advantages:

(1) A comfortable basement adds greatly to the overall size of the house. In many cases, living area is doubled. A basement becomes a lower living level for recreation, child's play, entertaining, a workshop, or the laundry.

(2) The additional living area is achieved at only slightly additional cost. The structure already exists.

(3) First floor rooms are more comfortable when the basement beneath them is heated. Floors are warmer.

(4) A house with heated basement living area is worth more. It has greater re-sale value.

(5) With living space on different levels, household activities can more easily be isolated from each other. Privacy is greater.

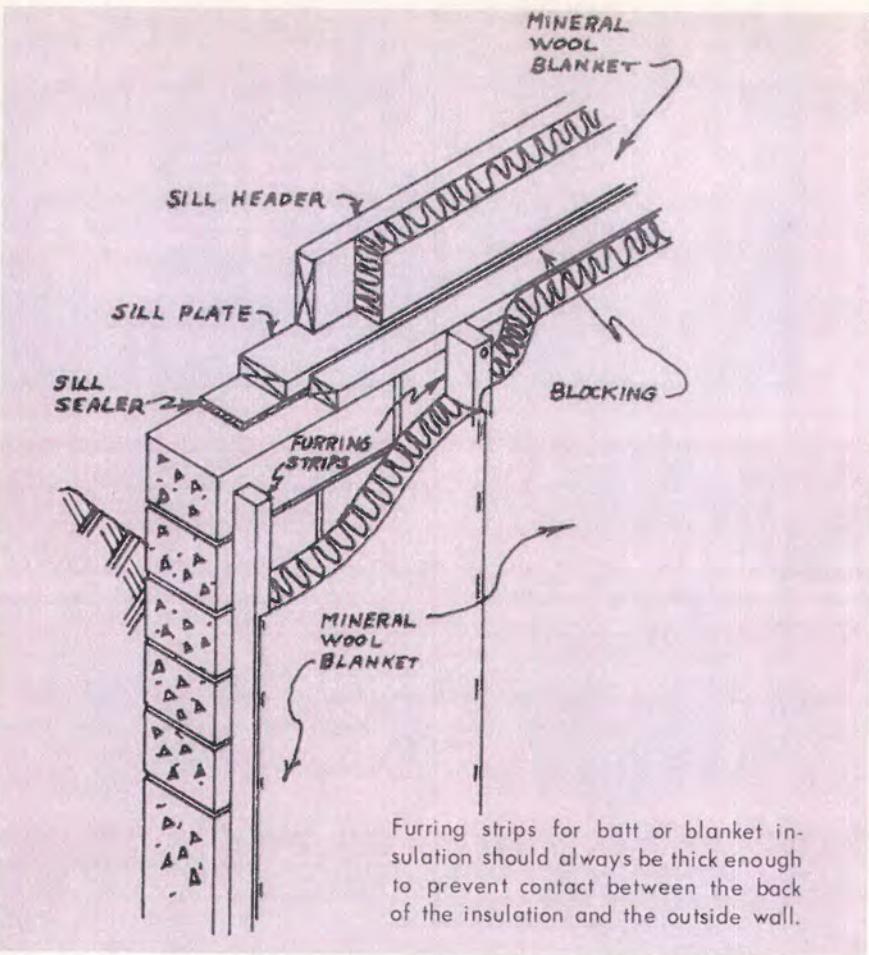
(6) Insulated properly, a basement is more comfortable in the summer.

### HOW MUCH DOES IT COST?

One builder gave this analysis of the cost of finishing the basement in a typical house:

Floor area of house—1000 sq. ft.

Floor area of basement—1000 sq. ft.



#### Construction Cost:

Furring strips.....	\$60
Mineral wool blankets .....	\$50
Labor for insulating.....	\$100
Installed Cost, insulation.....	\$210
Heating, wiring, lighting...	\$480
Finishing Costs (including materials, labor, wall finish, partitions, floor tile, ceiling tile) .....	\$800 to \$1000
Total Builder Costs.....	\$1490 to \$1690
Builder's overhead and profit .....	\$400
Cost to Homeowner ...	\$1890 to \$2090
Cost per Square Foot.....	\$1.89 to \$2.09

This builder figures he has three big sales advantages:

(1) The value to the owner in terms of low cost for the added space; (2) he offers a big house at a bargain; and (3) more profit for the builder.

selected, should always create an air space sufficient to prevent any contact between the insulation and the outside wall.

Along the sides of spaces being insulated, both batts and blankets should be stapled to the faces of the framing members.

Acoustical tile may be installed to reduce the transmission of noise from basement activity areas to other parts of the house.

#### HEATING THE BASEMENT

Electric heaters are especially convenient for basements because they serve equally well as a part or full time heat source in either partially or completely finished basements.

In selecting your heaters you should keep in mind the size and intended occupancy of the basement, design requirements, family needs, and decorations. Baseboard heaters are generally considered the most attractive type of heating unit. Possessing a high heating capacity and offering quick pick-up, they are particularly good heat sources for basements in which it is desired to set the thermostat down when basement living areas are not in use.

For only a few dollars more, you can get a beautiful electric fireplace with fan-forced heaters to look and feel like a real wood-burning fireplace. And they come color-styled, too.

An average basement in this area, properly insulated, can be electrically heated for about \$30 to \$40 for an entire winter.

That's a lot of living for your money!

\* \* \* \* \*

Seen the new electric patio grill? All you do to use it is turn the thermostat to the exact heat you want for baking, broiling, or barbecue. You get that great charcoal flavor — without the mess.

\* \* \* \* \*

Last year more electric ranges were bought than ever before. Self-cleaning ovens and surface units are two of the reasons. Another is the exact heat control you get with every model.

\* \* \* \* \*

## PUZZLE CORNER

The March puzzle didn't prove too difficult for more than 1,000 reader-solvers. The winners listed below were chosen by lot from among the many correct answers.

The man who had a fox, a goose and a sack of corn to transport by boat from his home to an island across a lake did so by first taking the goose across to the island. He then came back and got the fox, taking it to the island and bringing the goose back to the mainland on the return trip. He then took the corn across to the island, then came back and got the goose on the final trip.

Our winner for the March contest, and recipient of \$10 first prize, is Mrs. Paul Haase of Bowen Heights, Waverly, Tennessee, a member of Meriwether Lewis Electric Co-op, Centerville.

Second and third place prizes of \$5 each go to Mrs. J. R. Kelly, Rt. 1, Box 382, Whitwell, Tennessee, a member of Sequachee Valley Electric Co-op, South Pittsburg, Tennessee and to Mr. Jim Buckner of Rt. 2, Halls, Tennessee, a member of Forked Deer Electric Co-op of Halls.

And here is the puzzle for April: A shelf is exactly filled with books of equal thickness. If the books were one (1) inch thinner, the shelf could accommodate six (6) more books, but if the books were one (1) inch thicker, there would be no room for three (3) books. How many inches long is the shelf?

Send answers, with your name, address and name of your electric co-op to:

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

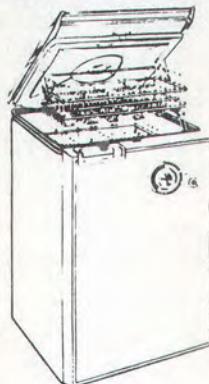
\*\*\*\*\*

Most fashion models look like the location where a woman might be built, now that the scaffolding is up.

\*\*\*\*\*

# MOTHER'S HANDIEST KITCHEN HELPER

## A DISHWASHER FROM HOTPOINT



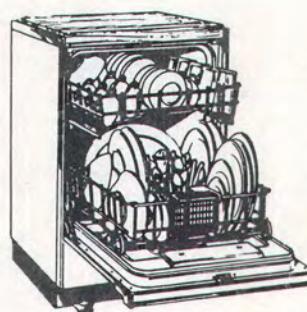
### HOTPOINT PORTABLE DISHWASHER

- Three-level washing action with Jet Swirl Shower assures thorough cleaning
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- Self-cleaning action — Rinse-Away drain and soft-food disposer
- Cushion-coated racks hold 14 full table settings



### HOTPOINT BUILT-IN DISHWASHER

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- Three-level washing action with Jet Spray Shower virtually ends hand pre-rinsing
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- Random-loading racks



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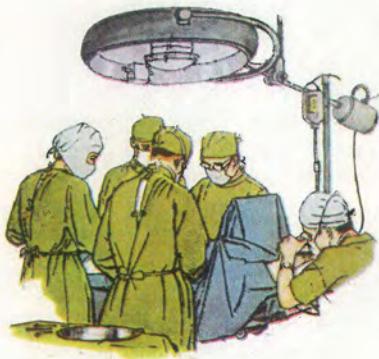
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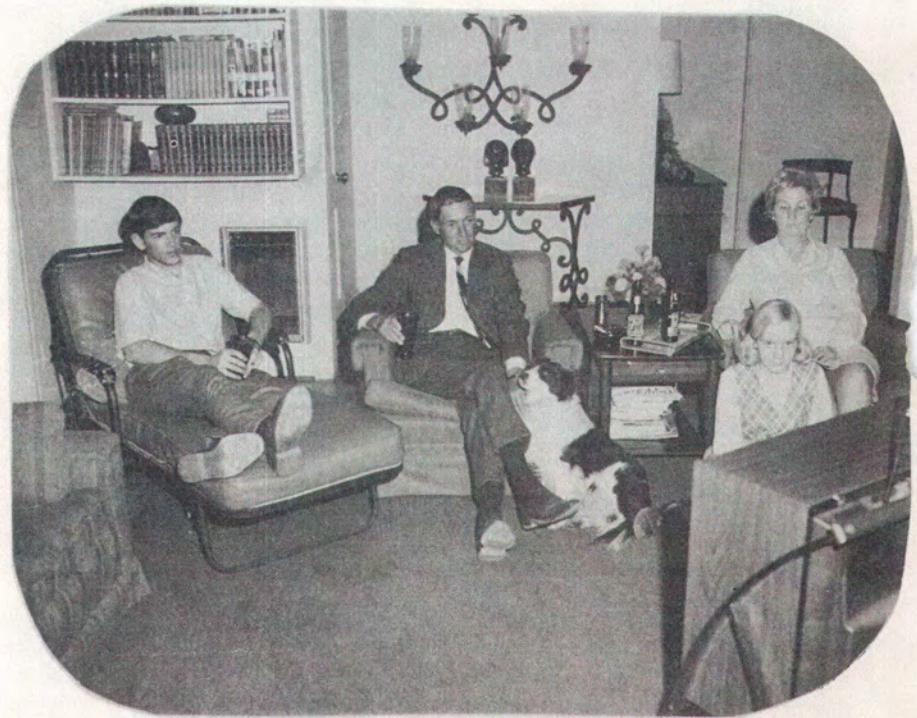
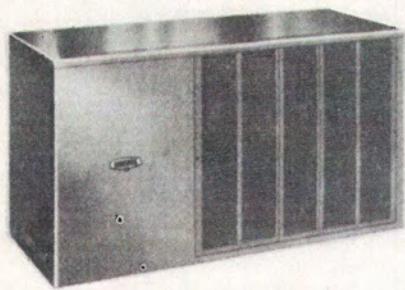
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## CORN—A \$60 MILLION CROP IN TENNESSEE

By Joe D. Burns  
Associate Agronomist  
University of Tennessee Extension

Corn is still an important crop in Tennessee even though the acreage dropped to about 750,000 in 1968. Approximately 650,000 acres were grown for grain. This acreage produced 30 million bushels of corn. When valued at \$1 per bushel, this equals 30 million dollars income from grain corn. In some areas of the state farmers are receiving a premium price for white corn, due to its use as hominy and corn meal.

Corn grown for grain uses the largest acreage, but the corn acreage used for silage is increasing. One hundred thousand acres were harvested for silage in 1968. Approximately 1.1 million tons of silage were produced with a value of \$10 per ton. The total value of corn used as silage in the state is about 11 million dollars. When the total value of both the corn silage and grain is calculated, we see a 40 million dollar crop. Where is the other part, or 20 million dollars, which corn is responsible for in Tennessee? It is the Feed Grain Program payments to farmers which have been approximately 20 million dollars for each of 1967 and 1968.

Some of the other industries besides agriculture who are vitally concerned with corn production are the seed corn dealers, fertilizer, insecticide and herbicide dealers, machinery dealers and money-lending establishments.

To plant 750,000 acres requires at least 125,000 bushels of seed corn, which at \$10 per bushel means a \$1,250,000 industry per year. The fertilizer industry will generally sell about \$10 worth of fertilizer per acre for corn and on the 750,000 acres this is \$7,500,000.

From a survey made by county agents, it is estimated that about 400,000 acres of corn were treated with weed control chemicals (herbicides) in 1968. The average cost of herbicides is calculated to be about \$6 per acre, or for the 400,000 acres treated, a \$2,400,000 sale for the herbicide industry.

The machinery dealers will

realize about \$8 per acre sale of machinery which when multiplied by 750,000 acres is about \$6,000,000.

Even the gasoline dealers share in corn production to the tune of about \$4 per acre or \$3,000,000.

Corn production is important to many people in Tennessee other than the farmers who produce it and other farmers who feed it to livestock.

Even though there are some

new problems such as corn stunt disease (Maize Dwarf Mosaic) and some old ones such as Johnsongrass, progress is being made to keep corn production in Tennessee on an efficient economical basis. The plant breeders are developing new varieties which have better resistance to corn stunt disease, and there are new chemicals which show promise of helping control Johnsongrass in corn fields.

## The Chairman of the Board of INTERTHERM, Inc. answers some commonly asked questions about its famous HOT WATER HEAT WITHOUT PLUMBING



Sidney J. Heiman

### HOT WATER HEAT WITHOUT PLUMBING

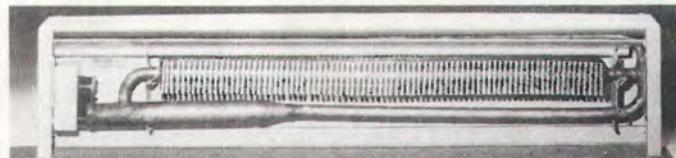
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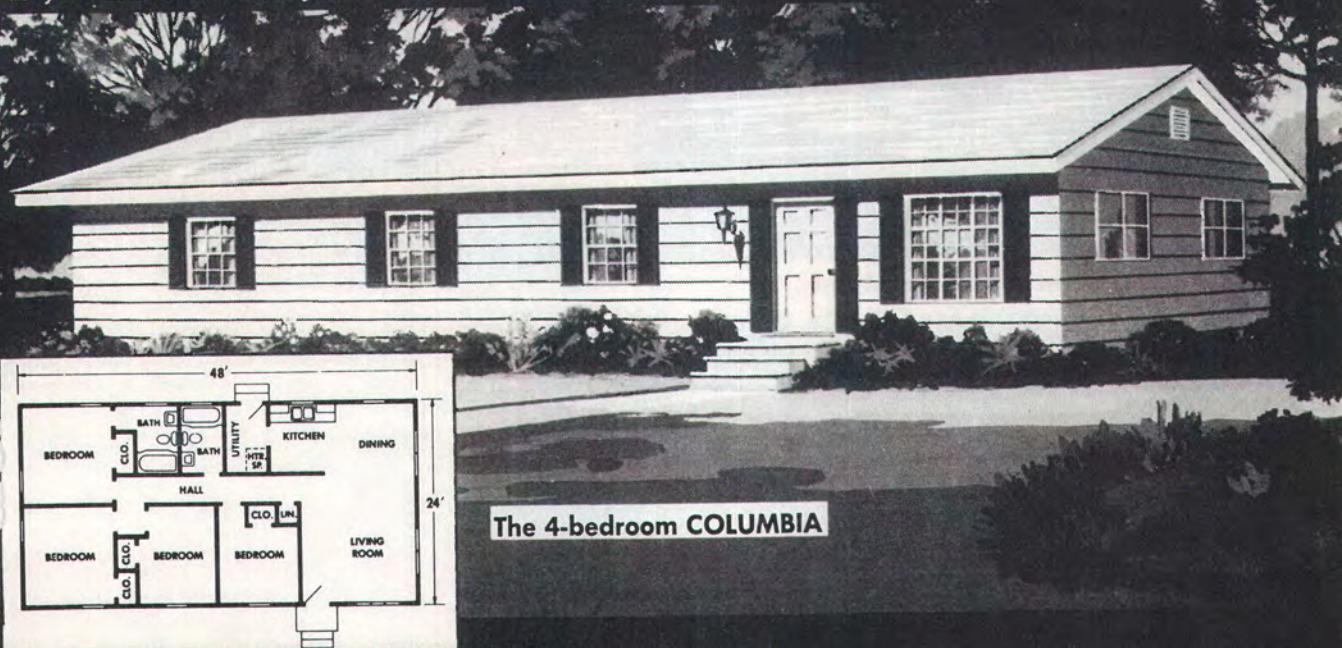
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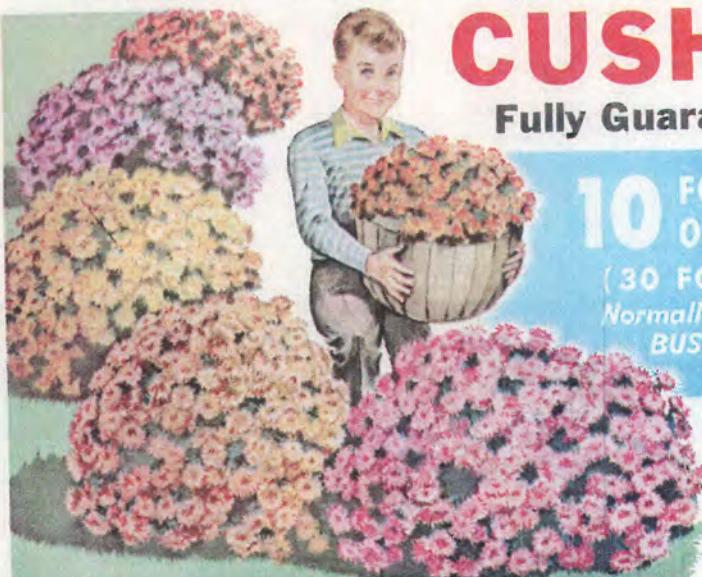
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**OUTDOOR GARDEN POOL**  
 Complete \$3.98 2 for \$7.65

Beautify your garden, lawns, cottage grounds and at the same time give your landscape new dimensions with this new, ready-to-install sunken garden pool. Artistically shaped, ideal garden size (3' 5" x 2' 3" x 8" deep at ground level), has recessed water lily pot to hold up to 3 bulbs. Molded of one water tight piece of aqua colored Polypropylene. Easily installed, needs no plumbing. This lightweight, portable pool is sensational when surrounded by flowers, shrubs or garden plants and is ideal for sparkling goldfish and exotic, colorful water lilies. Check coupon and mail today!

For Spring Planting  
**CREEPING PHLOX**  
 (Phlox Subulata)  
 6 for \$1 18 for  
 only \$2.89

Michigan Nursery Grown Perennials  
 Creeping Phlox spreads 12 inches in diameter when mature. Clusters of flowers in spring each brilliant bloom about an inch across. Lovely foliage carpets ground and stays green almost all year. Valuable for borders, boundaries, banks, bare spots. Healthy, hardy perennial plants one year old. Ass'ted colors: Red, Rose-purple, White, Blue, Pink, as available. Order now for spring planting at our low price. Check coupon and mail today.

## 50 GLADIOLUS

Imported from  
 Holland  
**\$1.69**

These medium blooming size Glad Bulbs are already 2 1/2" to 3 inches circumference and will produce a rainbow of blooms in a mix of reds, yellow, purple, white, crimson, violet, multi-color, etc. as available. Order now for spring delivery. Check coupon.

**MICHIGAN BULB COMPANY**  
 Dept. CV 1581  
 Grand Rapids, Mich. 49502

**DAHLIAS**  
 8 for \$1.99

How freely they bloom with rich autumn flowers! Assorted giant decorative and double ball type. Beautiful reds, yellows, lavender, pink, bronze etc. as available. Check coupon for Spring planting delivery and mail today. Every Dahlia guaranteed!

Exquisite  
**BEGONIAS**  
 From Belgium  
 8 Bulbs only \$1.99

Unsurpassed for camellia-like beauty! These medium size tubers produce shapely low growing plants with large leaves and large blooms continuously mid-summer to frost. Bargain offer brings vivid color mixture of red, yellow, white, pink, orange, scarlet, salmon etc. as available. Sensational! Use coupon and mail order now.

**PEONY SPECIAL**  
 83¢ Each  
 (Minimum 3 for \$2.49)

Hardy, lifetime peonies, large showy blooms on stems 2 to 3 feet tall. Bloom second growing season after planting and each spring without replanting. We ship 3 sturdy 2 to 3 eye planting stock root divisions for only \$2.49 . . . 3 colors . . . one each of pink, white and red. (6 for \$4.75) Check coupon.

MAY 15th  
 Deadline Date for  
 FREE TUBEROSE  
 BONUS

All orders mailed before May 15th receive bonus of #3 size Tuberose Tuber (U.S.A. grown). Single Mexican variety blooms with fragrant waxy white flowers, this summer, on stems up to 3 1/2 feet tall. Don't wait. Now, today, mail the coupon.

**FREE**  
 of Extra Cost

With Orders Totaling  
 \$3 or More—A Giant  
 Hibiscus (Hibiscus  
 mixed hybrid  
 variety)

If your bargain order for spring delivery totals \$3 or more you get a Giant Hibiscus perennial root without extra charge. Blooms with large flowers in late summer on stems up to 7 feet tall. Delicate colors as available range from white and pink to darkest crimson. Planting stock we give is nursery grown from seed, 1 or 2 years old, never transplanted. Check coupon . . . mail today.

1 HIBISCUS PLUS  
 12 Dutch Anemone  
 Bulbs with \$6 Orders

Anemones (Poppy Anemone) have richly colored, exotic blooms. Colors range from violet, blue, red to pink. When your bargain order totals \$6.00 or more you get the Hibiscus plus 12 Imported Holland Anemones (2-3 cm. size). Plan ahead. Order our fully guaranteed flower garden planting stock now by checking coupon. Do it today. Blooms illustrated are reasonably accurate as to shape of varieties named although colors may vary because nature often turns out tints, shades and shapes found nowhere else. Any stock not blooming to your satisfaction replaced free, (5 year limit).

These gorgeous CUSHION MUMS will be delivered this spring at half our catalog price in order to get new customers. Any spring planted Cushion Mum not producing a large number of blooms the fall after planting replaced free! Each plant normally develops to bushel-basket size when mature . . . covered with myriads of dazzling flowers each flower 1 to 2 inches diameter . . . a giant ball of color. Hardy, assorted colors . . . red, yellow, bronze, pink, white, etc. as available. You get Chrysanthemum Root divisions from nursery grown proven blooming stock. Root and top growth may be already started when shipped this spring. If not satisfied on delivery at spring planting time return within 10 days for purchase price refund. If you order now you get 10 Mums for only \$1 . . . or really save and order 30 for just \$2.50 or 100 for \$7.95. This bargain offer also makes available the popular flower garden plants and bulbs at sensational savings . . . plus valuable bonuses free of extra cost. And for promptness there's another big bonus. For mailing the coupon before May 15 you get Free of extra cost a valuable Tuberose Root For Spring Planting. Plan ahead . . . order your spring plantings now . . . and save big money.

**SEND NO MONEY . . . ORDER NOW!**

Pay Later When Your Order Arrives  
 For Spring Planting

Just fill in coupon to get your choice of these amazing, money-saving bargain offers. When your order is delivered in time for spring planting pay thru postman plus C.O.D. postage. If you prefer to send remittance with order to save C.O.D. charges, add 60¢ and we will ship postage paid, including FREE a valuable CANDLES-OF-HEAVEN Plant (our \$1.00 value). All bonuses to which you are entitled come this spring with your order. You take no chances because if you aren't satisfied on inspection, return within 10 days and we refund purchase price. Don't wait. Mail order today.

## MAIL MONEY-SAVING COUPON NOW

**MICHIGAN BULB CO., Dept. CV 1581 Grand Rapids, Mich. 49502**

Please send me items checked below in time for regular spring planting. I will pay postman on arrival the amount of order plus C.O.D. postage on the understanding every item is guaranteed to satisfy or I may return within 10 days for purchase price refund.

Cash orders add 60¢ and we ship postage paid.

- 10 Cushion Mums (Chrysanthemums) Ass'ted Colors . . . \$1.00
- 30 Cushion Mums . . . \$2.50
- 100 Cushion Mums . . . \$7.95
- 6 Creeping Phlox (Mixed Colors) . . . \$1.00
- 18 Creeping Phlox . . . \$2.89
- 3 Peonies (Pink, White and Red) . . . \$2.49
- 6 Peonies (2 each color) . . . \$4.75
- Garden Pool (plus Free Water Lily Bulb) . . . \$3.98
- 2 Garden Pools (plus 2 Water Lily Bulbs) . . . \$7.65
- 8 Begonias—Imported from Belgium . . . \$1.99
- 50 Gladiolus—Med. size Imported from Holland . . . \$1.69
- 8 Dahlia Roots—Assorted Colors . . . \$1.99

TOTAL AMOUNT OF ORDER

- Order Totals \$3.00 or more. Send Giant Hibiscus without extra charge.
- Order totals \$6.00 or more. Send Giant Hibiscus plus 12 Imported Holland Anemones without extra charge.
- This Order is mailed before May 15. Include Tuberose without extra charge.  Send C.O.D. plus postage.
- Send Remittance plus 60¢ and we will send order postpaid including CANDLES-OF-HEAVEN Plant FREE.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP \_\_\_\_\_