

Tennessee

October, 1971

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Public Announcement

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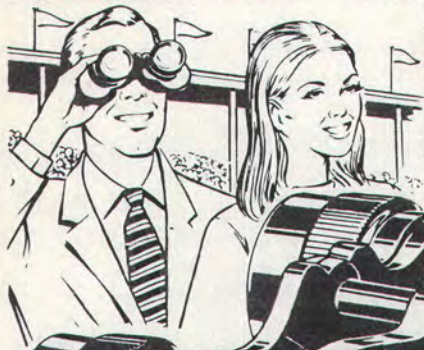
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ON THE COVER

Football is in the air, from the Junior Pro games, one of which is featured on our cover, on through high school, college and big professionals. We salute the Fall season's greatest sport.



Volunteer Views

By J. C. Hundley
Executive Manager, TECA

"Cooperation" may be among the dozen most important and relevant words in our English language. Cooperatives are the organizations through which cooperation is channeled as people seek a better way of life for themselves and for their friends and neighbors.

Once each year in these United States we observe Cooperative Month, in October. The 1971 theme is "Cooperatives Care", which they do, a fact which sets them apart from many other types of businesses. They care for the well being of great numbers of people rather than the profit interests of a relatively few investors in stock corporations.

Cooperatives care about their communities, their country, their people, environment, and helping their members make a better living and build better lives for themselves and others. Cooperatives care to the point of great concern that 70% of all Americans live in one or two percent of our total land spaces, this when so much land is available away from the giant, overcrowded cities . . . in rural co-op country.

It probably comes as no sur-

prise that our favorite of the many hundreds of different types of cooperatives is the rural electric cooperative, of which there are 22 serving in Tennessee. We are proud to have been a part of their program for more than 25 years and an employee for more than 20 years, for to us the rural electrification program is one of mankind's greatest achievements through cooperation. It is significant that in one-third of a century many groups of rural and small town people throughout our nation, deprived of the blessings of electricity, pooled a little money with a lot of driving spirit and cooperation from the Federal Government to establish what is now almost 1,000 electric cooperatives serving about 10% of our Nation's entire population over approximately 50% of all the electrical distribution lines in the United States.

Along with the many and various types of cooperatives, rural electrics are much more than desks and chairs and poles and transformers and dollars of profit. Rural electric cooperatives are people—and only people can care.

Cooperatives do care!

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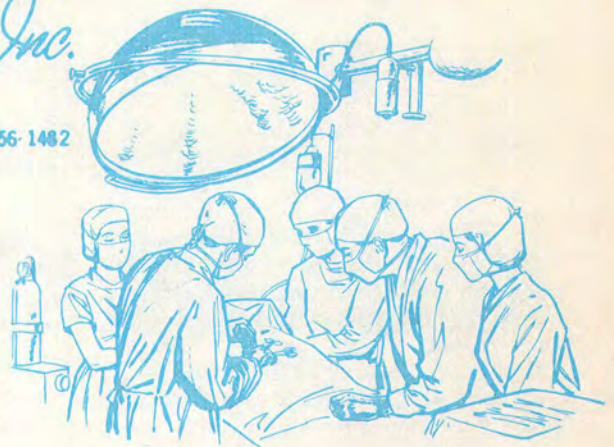
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CUT OUT ALONG DOTTED LINE AND MAIL

Dedicated Is The Word For Extension Leaders

By John Stanford

Chances are that when you hear a person say "Gee" in Gibson County, Tennessee, one of three things is happening: 1) a mild "slang" word is being used, 2) a farm animal under drive is being ordered to turn right or, most probably 3) the Gibson County Extension Service Leader, first name Ted, is being called by almost anyone in the county for one or more of his many and varied services.

Ted Gee is the Gibson County Agent (now refined in title to Gibson County Extension Leader), has been for 17 years following nine years as Assistant Agent, and he's proud of it.

"If you love and want to help people to a better way of life, which I do, it's the best and most rewarding job in the world," says 55-year-old Gee, who has spent all but a couple of years in Extension work since receiving graduate and post-graduate degrees from the University of Tennessee's College of Agriculture.

And while this story details a particular man from among the approximately 100 who serve throughout Tennessee under the same title, we hope that it is accepted as a general tribute to all Extension Leaders in Tennessee, the majority of whom are among our most dedicated citizens.

Ted Gee is only the fourth County Agent that Gibson County has had since 1920. This West Tennessee county had a part time County Agent in 1911, three years before Congress passed legislation in 1914 establishing the Agricultural Extension Service. One of Gee's predecessors, Tom Wingo, was highly instrumental in bringing the Gibson County Electric Membership Corporation into being, beginning soon after the passage of the TVA Act in 1933. It was Mr. Wingo who threw the switch in the South end of Gibson County that "turned on the lights" for the first 86 farm families connected to the co-op's line.

The extreme cooperation between the county Extension



Gibson County Extension Leader Ted Gee, right, explains to Floyd Roberts, Electrification Advisor of Gibson County Electric Membership Corporation, the mural which he bought to fill wall immediately behind desk and chairs given to him by local friends.

office and Gibson County E.M.C. which was begun with Mr. Wingo's tenure has been continued by Ted Gee who says, "Next to religion and family, nothing is more important to the well being of our people than electricity, and so far as our county is concerned, Gibson County Electric has done nothing but a great job in every way."

But working with Gibson County Electric in numerous ways is only one phase of Ted Gee's many responsibilities. In addition to the many calls that he gets for help on and off county farms, Gee directly supervises the activities of five Extension Agents and Assistant Agents, and three secretaries, and is responsible for the activities of 20 part time assistants in a Nutritional Program for which Gibson County became a pilot project two years ago.

Additionally, he works with various other agricultural organizations and committees, three Chambers of Commerce and the local County Fair Board. Somehow he finds time to participate in Elks Club, Rotary Club and the First Baptist Church of Trenton, whose lawn he recently finished landscaping.

Although County Agents consider themselves "general practitioners" rather than "specialists", Gee says that a County Agent—or Extension Leader, if you wish—must have more than passing knowledge as a chemist, entomologist, agronomist (crop phases),

agricultural engineer, bookkeeper, tax consultant, marketing specialist, pathologist, horticulturist, soil scientist and rural sociologist if he is to contribute fully to the development of human resources in the area of his services.

In an era when the numbers of farms and farm workers are steadily decreasing, Gee sees a constant increase in the needs for Extension services: "While there are fewer farmers today than ever, the average size of farms is increasing. Today's farmers must have more varied knowledge and skills than in the old days. He has a vast investment in equipment to cover many more acres of productive land. In turn, the Extension Service has far more knowledge than ever before to transfer to farmers as they are pressured for more and more efficiency in order to reduce the costs of production.



Beaver-board office partitions, drop cord lights, a steel roof and exposed steam pipes were prevalent in most of the Extension area in the Gibson County Court House basement prior to the renovation.



Office renovation included this radio broadcasting studio from which Gee appears on a regular schedule.

"Extension Service is an educational service and we need to constantly expand our educational programs, not only to bring about higher quality and quantity production but also to make living in rural areas more enticing to all those people who have migrated or who are thinking of migrating to over-populated cities where all too often they run into disastrous situations. A good education program can go a long ways in helping solve this substantial problem."

Some indication of what the folks in Gibson County think of Ted Gee and his capable, hard-working staff might be gained from their office spaces. In virtually every County Extension program, it is the responsibility of the individual county to provide office space and for the Extension Service to provide the personnel. In the vast majority of cases, the county provides office space in the Court House, usually in the basement. Such has been the case in Gibson County for most of the past 57 years. At least since the late 1920's, and until 1970, the Extension offices in the Gibson County Court House in Trenton were painfully typical of many such county offices—concrete floored offices with beaver-board partitions, steel roofed with exposed steam pipes, poorly lighted, generally uncomfortable in extreme weather conditions.

In 1969, however, when a considerable amount of the upstairs spaces of the Court House was

under renovation, several County Magistrates began showing their concern about the less-than-good condition of the Extension office in the basement. On one occasion, when the Court House Repairs Committee was making a progress report on the upstairs renovations, one Magistrate spoke out: "All this upstairs is well and good. In fact we're quite proud of it. But now, I want to know something. When are we going to spend some money on those folks who work all the time downstairs (the Extension staff) trying to keep folks from getting in these upstairs court-rooms?"

Results were not long in coming. With an appropriation of some \$28,000.00 some 3,375 square feet of basement space has been renovated for use by the Extension staff. Included are six private offices with panelled walls, a reception area for the secretaries, an entrance corridor, a bulletin display room, one small and one large conference room, a work room, radio room, rest and storage rooms. All office areas are carpeted and have dropped acoustical tile ceilings, recessed ceiling lights, and central heat and air conditioning.

When new office furniture, which is routinely replaced through direction of Extension Service headquarters at the University of Tennessee, began arriving after the basement renovation was completed last year, Ted Gee noticed but didn't question that his own office furniture was not being replaced.



Cooperators in many projects of progress are Ted Gee, right, and Gibson County Judge Walter Hunt. They chatted in this Gibson County Electric booth at the local County Fair following dedication of new building which both were instrumental in securing.

But what could have been questioned by some not "in" on a big surprise was not long in making itself known. A number of Gee's many friends had banded together and had bought, at their own personal expense, an extremely handsome set of furniture whose chairs are upholstered in U. T.'s Big Orange colored leather, with a telephone of the same tint.

Gee!



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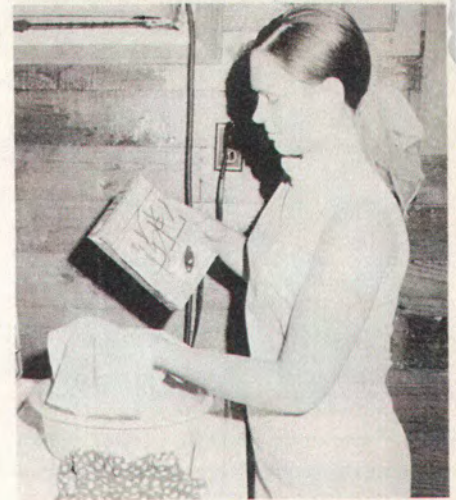
Is It Washable?



Mrs. Nellie Jackson, Hartsville Pike, Lebanon, is shown here emptying the lint trap from the dryer. This is the best way to be certain the dryer will function at its greatest efficiency. Note Mrs. Jackson has storage space over her washer and dryer for her laundry aids. This saves lots of steps.

What Does the Hangtag Say?

By Mrs. Patsy Myers, Home Economist
Middle Tennessee Electric Membership Corporation



There are two ways you can pre-soak with an enzyme: In the automatic soak cycle; or, in a pan. Since Mrs. Evelyn Reese, Sunset Drive, Lebanon, had only 2 items to pre-soak, she is shown here preparing the process by the latter method. This frees the washer to wash other loads during the pre-soaking time.



Mrs. Odell Tomlinson, Route 3, Lebanon, is shown here checking the hangtag before she washes her husband's permanent-press trousers. It is always wise to check the hangtag several times to be sure she is using the method to keep the trousers looking their best.

That all-important hangtag, or label, on the garments and materials you buy, makes a lot of difference in the cost of keeping the garment clean. It may well be the deciding factor in whether you buy it or not, especially if you own, or use, electric laundry equipment.

Be it a nurse's uniform, a dressy dress, a pantsuit, or any other of a hundred garments bought or worn, from infant's clothing to adult's, from a handkerchief to a tablecloth, it's easier to keep clean, if it's washable. And it's even better, if it's permanent-press. Especially is this true of children's playclothes, but it is delightfully true of more and more of the garments in the whole family's wardrobe.

Many of the hangtags give the fiber content of the fabric used in the garment, plus the instructions for its care; some of them give only the fiber content, leaving it to your discretion as to how to care for it. You need to keep the information from this hangtag in a file near your laundry equipment



Mrs. Evie Carnes, Castle Heights Ave., Lebanon, measures her detergent before she puts it into the washer. This is a good habit to use. It makes sure she uses enough detergent, a practice which helps assure her she will get the clothes clean.

for easy reference. No elaborate filing system is necessary, but identifying the tags as they are acquired is important.

In any event, with today's washers and dryers with their new flexible cycles, spin speeds, bleach and fabric softener dispensers, and sensing devices, it is more nearly an automatic operation than it has been since the first washer and dryer began using the *automatic* name.

How long has it been since you reviewed the INSTRUCTION BOOK that came with your automatic washer? Do you make regular use of every good feature your washer has? Your instruction book covers such information as size of loads recommended, and proper settings for the kind of clothes you are washing. There is a section in it giving specific directions for unusual loads, like feather pillows, electric blankets. Also, stain re-



Mrs. Lounette Tomlinson, Hartsville Pike, Lebanon, shows the mini-basket and lint trap in the General Electric automatic washer. The use of the mini-basket and the mini-wash cycle allows her to wash very small loads (about 2½ lbs.) in a very short time. This is a convenience feature which many homemakers could use to advantage.

moval recommendations are included.

Review with me the six steps in doing the family wash:

1. SORT CLOTHES as to color, fabric, and soil, putting clothes and linens of like materials together, and separating whites from light colored and dark-colored fabrics.

2. GET RID OF TROUBLE-MAKERS. Empty pockets of crayons, lipsticks, chewing gum and facial tissues; close zippers; mend rips and tears; place delicate or hard-to-handle items in nylon meshbag (nylon hose should be placed in a nylon meshbag with zipper closure).

3. PRETREAT STAINS AND BADLY-SOILED AREAS. Use stain removal chart as guide, and remove stains before laundering. Pretreat badly-soiled areas, such as collars and cuffs with paste made of detergent and water, applied with a soft brush.

4. SELECT PROPER LAUNDRY AIDS.

- All-purpose detergent is satisfactory for most of your family wash. Measure it accurately according to amounts given on the box.

- Bleach (chlorine-type) may be needed in loads of household linens. Use only according to directions. Oxygen-type bleaches may be used where needed with other loads.

- Fabric Softener, added to the last rinse water, makes clothes come out softer, reduces wrinkling and static cling.

5. SELECT WATER TEMPERATURE for washing and rinsing. Remember a cold rinse minimizes wrinkling of permanent-press garments.

6. SELECT SPIN SPEED. Normal is used for most loads, but if

you have a choice with your washer, use gentle for delicate fabrics or articles often labeled "Hand Wash."

The Automatic Dryer does a good job of drying the family wash, but is an absolute necessity for tumbling permanent-press clothes. In fact, if you will read your INSTRUCTION BOOK and follow it, you will find the dryer will almost do away with ironing. To do this, you will need to follow such rules as:

1. Load dryer with same size load that came out of washer. Be sure not to overload.

2. Check the lint trap. It should be emptied after each load.

3. Set the controls for type load you are drying — time, temperature and signal. Don't over dry.

4. Remove clothes as soon as dryer stops, to reduce wrinkles.

5. Fold or hang on hangers right out of the dryer. This eliminates ironing.

Additional Hints:

- Size the load of permanent-press clothes in the washer and in the dryer, to allow for free movement during the operation.

- If a garment has buttons or trim that needs gentle treatment, button or zip it up, and turn inside-out to wash.

- If you have bought a washer which takes care of a very small load, use it when you need a fresh tablecloth, or to wash that one garment that says "Hand Wash" on the label. You have paid extra for this convenience. Use it.

- Enzyme pre-soak for 30 minutes or overnight is very effective for removing unknown stains or deep soil.

- Clothes washed and dried automatically are cleaner and more sanitary than those laundered any other way.



Recipe of the Month

Beef Stroganoff (serves 4)

- 1 lb. top round steak or sirloin
- 3 tbsp. flour
- 1½ tsp. salt
- 1/4 tsp. pepper
- 3-4 tbsp. salad oil
- 1 large onion, chopped
- 3 oz. can mushrooms
- 3/4 cup water
- 1/3 cup tomato juice
- 1 beef bouillon cube
- 1/4 cup sour cream
- Hot parsley rice or buttered noodles

Combine flour, salt and pepper and pound into both sides of steak. Cut steak into very thin slivers. In the electric fry pan, heat salad oil and brown meat on all sides. Add onions and mushrooms and brown. Turn heat down and add water, tomato juice and bouillon cube. Mix well. Simmer, covered, about 1 hour or until meat is tender.

About 15 minutes before serving, add sour cream and blend well. Heat again and serve over rice or noodles. (My fry pan recommends 350° and 240° for these 2 settings.)

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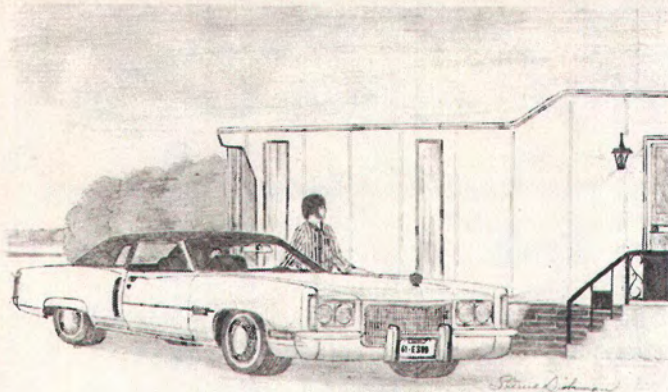
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Uncle John's Page

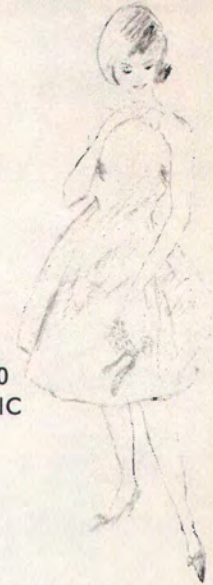
This page is reserved for the young folks. We will pay one dollar for each poem or drawing published. ALL WORK MUST BE ORIGINAL. Drawings should be in black, and drawn on white, unlined paper. Tell us your age, address, and Electric Co-op, and

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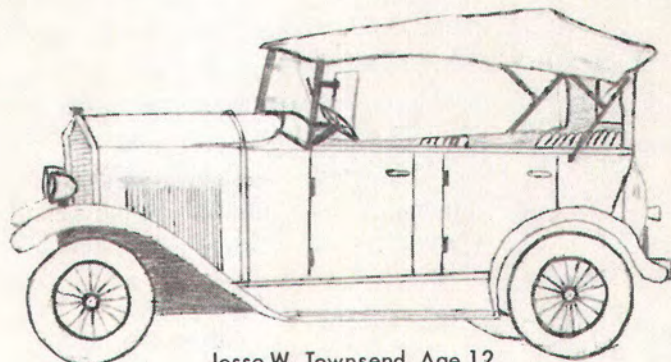
James Lewis, Age 15
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Sequachee Valley Electric Cooperative



Michael Stephen Taylor
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McMinnville, Tenn. 37110
Caney Fork Electric Cooperative



Ronnie Wainwright, Age 17
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Mason, Tennessee 38049
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Jesse W. Townsend, Age 12
Banner Elk, North Carolina 28604
Mountain Electric Cooperative

America Can't Afford To Lose The Energy Race

In cities, suburbs, small towns and rural areas . . . all across the land . . . our nation is in a desperate race against an ever-mounting shortage of electric energy.

It's a race we must win.

Right now we're losing. Recent Federal Power Commission figures show that only one region of our country can maintain the recommended level of power reserves during this summer's peak periods—and then only if nothing unexpected happens. More and more frequent brownouts in more and more areas are in the picture . . . with the grave likelihood of blackouts if a prolonged heat wave tips the precarious supply-demand balance.

As a small but integral part of the nation's power industry, we of America's rural electric systems are deeply concerned. We know our country cannot afford a cascading power failure situation.

As consumer-owned groups reflecting only the viewpoint of the people we serve, we believe we must, as a nation, take these steps—NOW:

- Develop a comprehensive *national* policy on resources and energy, which will ensure for all Americans—rural and urban alike—an adequate, dependable supply of electric power within a clean environment . . . and at reasonable rates.
- Launch a broad national research program for developing sources of electric energy to provide the reserve margins required . . . without exhausting fuel resources and without further damage to the climate in which we live.

We believe that, to achieve this full utilization of our energy resources for the benefit of all the people, national considerations must take precedence over local arrangements or desire for private gain.

And we believe that our national power policy must give positive recognition to America's consumer-owned electric systems as a vital part of our country's total resources . . . and that the potentials of these systems must be counted as an important item in our national inventory of assets.

More than a generation ago, rural leaders mobilized their will and their skill to create electric cooperatives in response to America's need for light and power in her rural vastnesses.

Today's unfilled power needs can be met in the same way—through a mobilization of the will and the skill of leaders at all levels . . . through total commitment to service in the national interest.

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Timely Topics

TREAT TOBACCO SEEDBEDS NOW FOR 1972 CROP

Now is an ideal time for treating tobacco beds with chemicals for weed seed control, according to a University of Tennessee agronomist.

"Research shows that chemicals are more effective when used at this time of year than when used in the spring prior to seeding the bed," says Gilbert N. Rhodes, professor and leader with the U-T Agricultural Extension Service.

Treatments should be made by October 15 before soils get too cool for best results, he adds.

Rhodes notes that methyl bromide is probably the best chemical and is the one most widely used by Tennessee tobacco producers. However, there are several chemicals that will do a good job if properly used.

The agronomist says that regardless of the chemical selected, the application should be preceded by careful selection of the plant bed location and thorough preparation of the soil.

For complete information on the use of chemicals for weed seed control in tobacco plant beds, check with your county Extension office.

PROTECT YOUR STORED CORN FROM INSECTS

Since corn harvest will soon be in "high gear," farmers need to take steps now to protect corn while it is in storage.

R. P. Mullett, a University of Tennessee entomologist, advises farmers to clean up storage areas first, and then treat the grain as it goes into the bin.

"Feed out or move the old crop to get rid of grain pests present and thoroughly sweep out and clean the storage area," says Mullett, associate professor with U-T's Agricultural Extension Service. "Then spray the walls and floors of the area with an insecticide."

He suggests you use 2.5 percent premium-grade malathion. Make this by mixing one-third pint 57 percent premium-grade malathion emulsifiable concentrate per gallon of water. This is mainly for clean-up. Or, you may use 2.5 percent methoxy-chlor made by mixing three-fourth pint 25 percent methoxy-chlor emulsifiable concentrate per gallon of water.

Mullett says the corn should be further protected by treating it directly with premium-grade malathion or pyrenone insecticides as it is stored. These direct grain treatments in no way affect the quality or usage of the grain.

"Five gallons of spray mix treat 1,000 bushels of grain," he says. "Use one pint of 50 percent malathion or one and one-third pints of six percent pyrethrum liquid emulsions with each five gallons of spray water. Apply the sprays with a garden or other sprayer as the grain is elevated into the bin or as it comes out of the picker-sheller. The corn must be shucked or shelled and well sprayed for the sprays to be most effective. This protection lasts for one season."

If you use fumigation of grain for insect control, storage areas must be nearly airtight for the fumigation to be effective.

OAT VARIETIES ARE NAMED FOR FALL SEEDING

A University of Tennessee agronomist reminds farmers that oat grain and forage yields can probably be increased by planting high quality seed of the best adapted varieties.

R. E. Cobble, associate professor with U-T Agricultural Extension Service, says that oats are grown successfully all across the state and can be used for grain, pasture, hay or silage.

"The use of certified seed not only assures varietal purity, but it is also a practical means for controlling smut," he says.

Cobble adds that the recommended oat varieties for fall seeding are Blount and Coker 66-22.

"You should consider Blount variety if you have experienced losses due to lodging," he says. "In addition to being high yielding with good winter-hardiness, Blount has good resistance to lodging because of its large, stiff straw."

Coker 66-22 is slightly higher yielding and a few days earlier than Blount. It has weak straw and lodges more than Blount. Since Coker 66-22 has this tendency to lodge, it may be better suited to forage than for grain production.

Cobble points out that oats should be planted not later than October 1 because they are not as winter-hardy as the other small grains.

RENOVATE ALL-GRASS PASTURES

Many fescue, orchardgrass, bermudagrass and bluegrass pastures can be successfully renovated until about October 15, according to a University of Tennessee agronomist.

"Renovation means putting clovers in grass pastures to improve quality and increase production," says Joe D. Burns, associate professor with the U-T Agricultural Extension Service. "Renovated pastures, as compared to non-renovated pastures, have produced 100 pounds more beef per acre for cow-calf operation, and five to six pounds more milk per cow daily in a dairy operation."

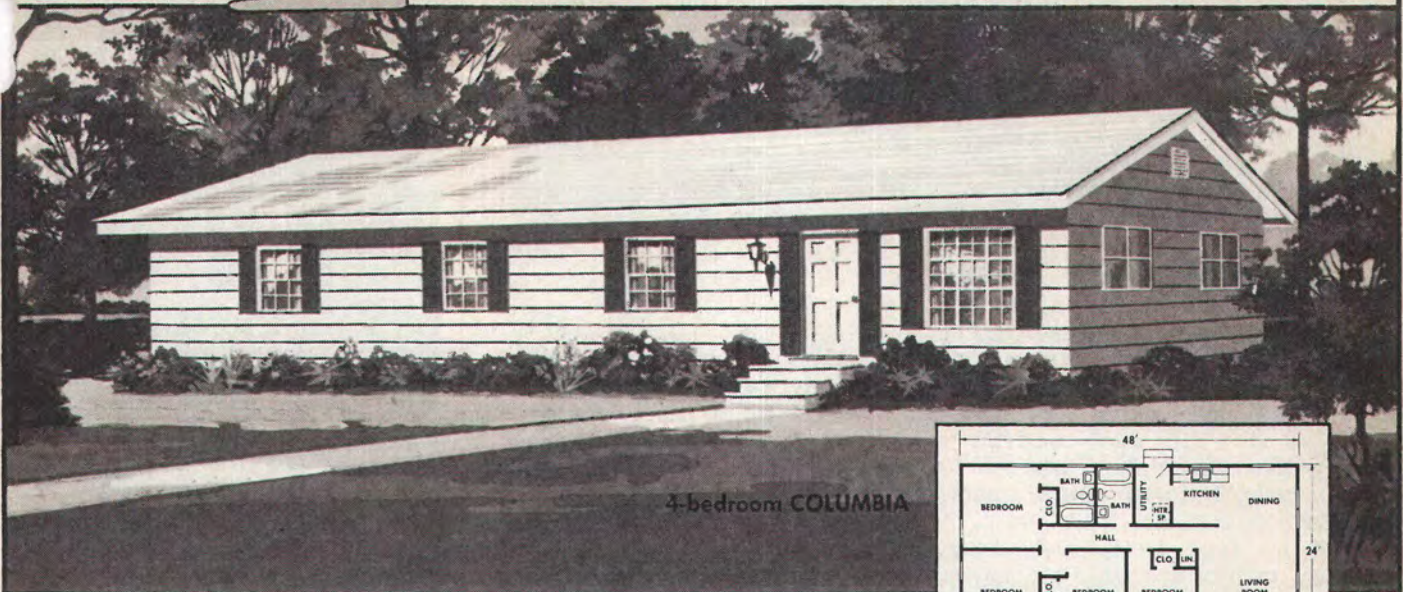
Burns says that the first step for renovating pastures is to take a soil sample and have it tested. Then, graze the pasture close before disking.

After close grazing, disk to kill cool season grasses back to a 50 percent stand. For bermudagrass, disk lightly to scratch the entire soil surface.

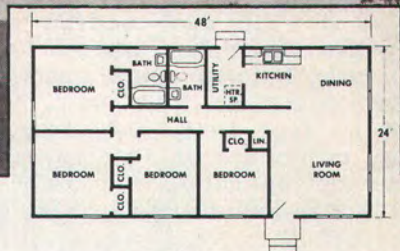
Lime and fertilize by soil test recommendations. If soil test information isn't available, use about 60 pounds of phosphate (P_2O_5) and 60 pounds of potash (K_2O) per acre, and two tons of lime if the pasture hasn't been limed in the last three to four years.

"Broadcast or drill two pounds of inoculated Ladino, Regal or Tillman white clover and four pounds of Kenland red clover per acre," Burns says. "Don't graze the pasture for four to six weeks after seeding."

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Fertilizer that Fits the Farmers' Needs



By Hubert H. Williams
Manager, Power Use Department
Southwest Tenn. Elec. Memb. Corp.

The Tennessee Farmers Cooperative has dedicated itself to giving service to its members in manufacturing plant food at a reasonable cost. A milestone in its fertilizer business is the new modern highly—automated plant food factory located between Bells and Jackson, Tennessee. This plant, opened in July 1968, has the capacity to produce 100,000 tons per year of plant analysis, such as, 6-12-12; 8-24-24; 10-20-20; 12-24-24; 0-20-20; and others. Mr. Fay Finley, Plant Manager and a veteran fertilizer manufacturing specialist, stated that the plant has two lines that could bag between twenty-five to twenty-eight fifty-pound bags or approximately one-half a ton on each line per minute.

The West Tennessee fertilizer plant is the third constructed outright by the Tennessee Farmers Cooperative. It was designed and engineered to operate as a model in producing plant food for the modern farmer. The raw materials are chemically mixed in a homogeneous material with each particle containing all of the elements. Once mixed, there is no separation when the farmer spreads the materials on his fields.

Raw Materials

The basic raw materials in our modern plant food are nitrogen, potash, and phosphate. Forms of these and other chemicals and acids make up the popular analysis of fertilizer needed for the crops. The Jackson plant has storage capacity for these raw materials and has facilities for producing its own super-phosphate. It has ammoniating solution storage for two carloads and two tanks for sulfuric acid, holding two tank cars each. There is silo storage for 300 tons of phosphate rock.

The mixing process runs continuously at rates, depending on grades, of up to thirty tons per hour of mixed granular fertilizer. The dry materials are weighed and dumped into a holding hopper where it is mixed with the liquids. This is where the dry and liquid materials are granulated into little prills at a flow of one and one-half tons every three minutes. There is a continuous flow of materials into the furnace where it is dried, cooled, and sized. Over and under sized prills are returned to the granulator for reprocessing. Huge furnaces with temperatures up to 210° dry the finished fertilizer before it is cooled and conveyed to the bagging and shipping area. In the granulation section, the building is three stories high.

Jim Holland acts as Office Manager and is in charge of weighing. The plant has a full time electrician, welder, and millwright.



Mr. Jim Holland, Office Manager, is in charge of all materials being weighed in and those shipped out.

The plant has three shipping facilities—one exclusively for bulk loading for trucks; another for bagged materials for trucks or railroad cars; and one for bagging or bulk for trucks. Plant food can be shipped at the rate of eighty tons per hour bulk, while shipping twenty-five tons per hour in bags or fifty tons per hour in bags and forty tons per hour bulk.

Over 25,000 tons of finished plant fertilizer can be stored in the 600 foot building. This means that the plant can adequately supply the needed analysis of fertilizer the year round.

Office and Shop Facilities

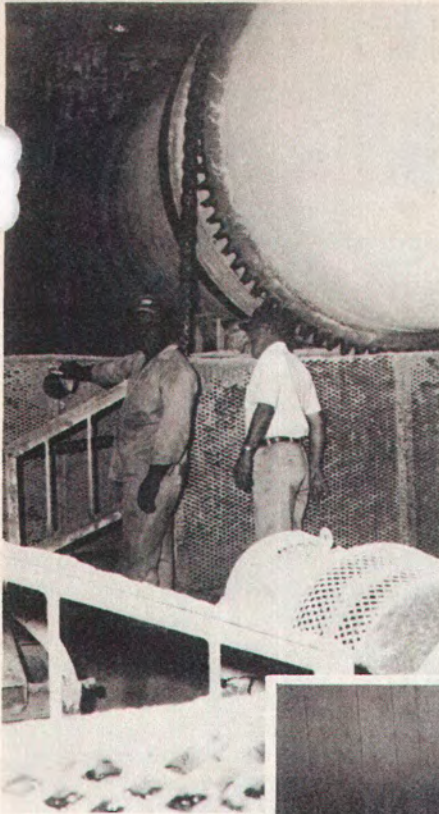
The office building contains a work office, a spare office for conferences, a shower room, and a dining room with a kitchen for the employees. A set of platform scales, 100,000 pounds capacity, is near the office to weigh incoming and all out-going trucks. The shop building has a maintenance area, spare parts storage, welding area, and equipment storage.

The plant employs a minimum of forty-five during January through May. Mr. Tom Ellis, General Foreman, has two Mixing Foremen, Mr. Sylvester Ward and Mr. Joe Ellington. Mr. Ernest Connell is Bagging Foreman. Mr. Jim Holland acts as Office Manager and is in charge of weighing. The plant has a full time electrician, welder, and millwright.

Motors and Equipment

Electric motors run in sizes from two horsepower to one hundred horsepower. The large one hundred horsepower motors pull huge fans in the cooling process. All wiring is done in steel coated PVC conduit. There are three switch

(Continued on Page 19)



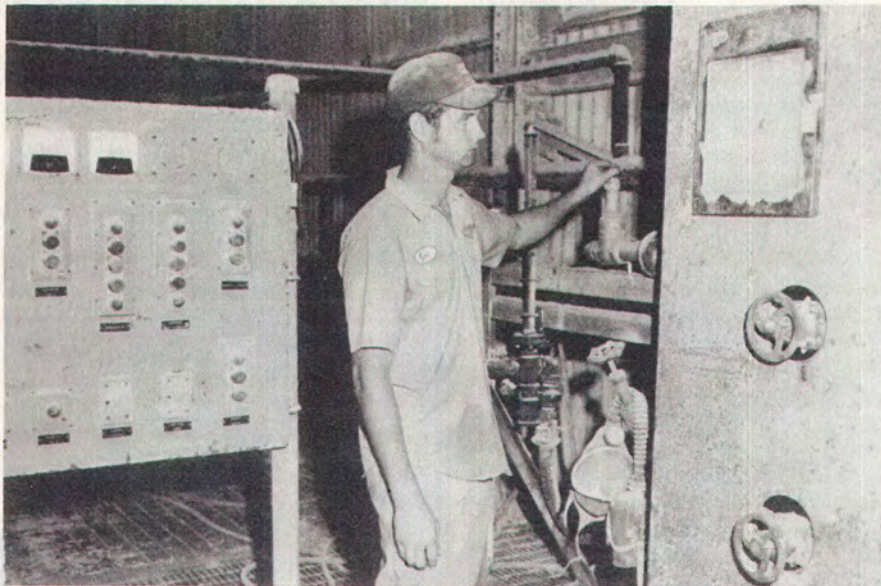
The granulation section of the 600 foot building is shown in the left side of this picture.

Below, in the center of the page is Mr. Fay Finley, Plant Manager, a native of Finley, Tennessee, has been one of TFC's Plant Managers since 1956.

Above, Mr. Fay Finley and Foreman Sylvester Ward oil the big chain that turns the huge drum overhead in which the fertilizer is being dried.



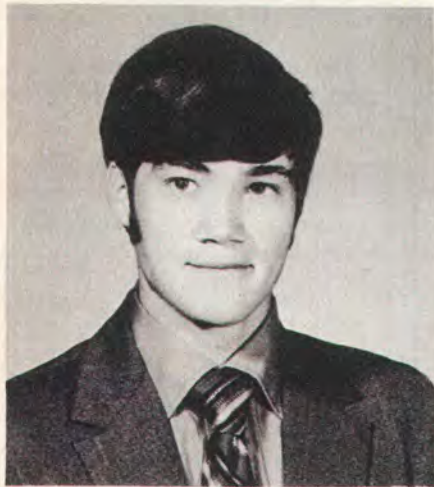
Below, Mr. Fay Finley inspects the sizing of granulated fertilizer before it goes in to the final drying process.



Mr. Joe Ellington, Mixing Foreman, checks his gauges and temperature charts.



Meriwether Lewis Electric Cooperative -- Democracy In Action



By Steven J. Cross
Lewis County High School
State Winner
Rural Electric Youth Essay Contest

Editor's Note: For winning the 1971 Rural Electric Youth Essay Contest, Steven Cross will receive a \$500 scholarship from the Tennessee Electric Cooperative Association, co-sponsor of the contest with participating local electric cooperatives, along with an expenses paid trip to the annual meeting of the National Rural Electric Cooperative Association in Las Vegas, Nevada next February.

Some say the electric cooperative is not democratic. Nonsense! Our electric cooperatives are one of the finest examples of democracy to be found in this or any other country. The cooperative was founded on the very principles of democracy. Today the cooperative is truly a democracy in action.

The democracy of the cooperative is evident in its very foundation. It was formed by men who shared a common need, available electric power. No private company was willing to supply this need. Therefore, the only alternatives were to either do without this vital electrical energy or to band together to acquire it. This is parallel to the banding together of the pilgrims to acquire religious freedom. It also parallels the banding together of the American

colonists to defend the right of free government. Just as Americans united to form a nation, these men united to form a cooperative.

The purpose of this cooperative is to provide electrical power at the lowest possible rate for all who desire it. The only requirements are payment of a nominal membership fee, obedience to the regulations of the cooperative, and, of course, payment of a monthly bill. The proceeds go to paying for the wholesale electricity and to expanding and improving the services provided the cooperative members. This parallels the payment of taxes to finance the services provided by the federal, state and county governments. It also parallels the democratic government in that it is non-profit except for the profits used to repay the loans necessary to the continuance of the cooperative. Since its foundation the electric cooperative has provided electrical power and services at the lowest rate possible.

The electric cooperative provides a service not only to its members but also to people all over the country who are not members. The cooperative's low rates induce private electric companies to lower rates in order to compete with the cooperatives thus insuring lower and stable rates for all. They also help everyone by providing the government with revenue in the form of repaid federal loans with interest amounting to billions of dollars. In addition, the electric cooperative is one of the country's leading taxpayers. It is evident that the electric cooperative is democratic in that it is based on the democratic principles of free enterprise. Also, it is democratic in that it is beneficial to all.

The electric cooperative is democratic in its form of government. Since so many decisions must be made every day to insure the smooth operation of the cooperative, its members must elect representatives to carry out their wishes. Each member has an equal voice in the election of these representatives. This method of self-government is parallel to that

of any democratic government.

Today, however, the electric cooperatives are under attack by private companies and corporations which want to abolish them. These companies have said that the electric cooperative is neither necessary to the well-being of the people nor democratic in its actions. To answer these accusations it is necessary to ask only one question, "Where would we be without the electric cooperative?" Without electric cooperatives we would be forced either to do without electrical power or to buy it from the very companies that had earlier refused to supply this power. We would have no voice in the policies of the company and no control over the rates paid. The company would be concerned only in making the greatest profit. The ones receiving the profit would be the company and its stockholders—not the consumer. This surely is not in keeping with the democratic principles of free choice and majority rule.

The people have chosen the cooperative because it provides the greatest benefit for the greatest number of people. The attacks on the cooperative resemble those made by revolutionaries and communists on our own democratic government.

The electric cooperative parallels the democratic government in its foundation, its purpose, its financing, and its government. The electric cooperative is truly a democracy in action.

ARTHRITIS

True Life Story

Paul McCoy was an arthritic during his lifetime. This condition also struck his two sisters and his son. They tried so many things. Then one day a friend in pharmaceutical circles told him about a wonderful medicine. He was so grateful he wanted to tell everyone about Norkon, the wonderful medicine for temporary relief in easing the minor pains and aches of arthritis, rheumatism, sciatica, neuralgia, neuritis, lumbago or bursitis.

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Fertilizer

(Continued)

gear rooms sealed off from the process plant.

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TFC Built for Service

The Tennessee Farmers Cooperative is in the fertilizer business to provide a service for the community at an economical cost. It is a costly operation but one that can save thousands of dollars when you hold the profits to a minimum. Mr. Fay Finley with over twenty-three years service in producing plant food said, "The Jackson plant is one of the best plants of its kind for giving the farmer what he needs."

Southwest is proud to have a part in providing electric power for such a modern plant so vital to our area.

Holston Electric Cooperative Wins "Silver Switch Award"



The "Silver Switch Award" is given each year to the electric cooperative by the Farm Electrification Council for the most effective marketing program that has resulted in fuller utilization of electricity in agriculture, such as dairying, cattle feeding, crop drying and many other uses on the modern "Electro Farm". The Holston Electric Cooperative has won this coveted award in competition with more than 1,000 electric cooperatives throughout the Nation and marks the first time a Tennessee cooperative has won this honor.

In Tulsa, Oklahoma recently to receive the award were General Manager William D. Towers and Noah D. Britton, Jr., Member Service Director. The Award was presented to Mr. Britton (left) by "Miss Rural Electrification," Miss Sherry McHeeters of Arizona.

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Spiraea—Variegated or Pink, 1 to 2 ft. 29 ea.											
Spiraea Van Houttei—White, 1 to 2 ft. 19 ea.											
Althea—Red, Purple, or White, 1 to 2 ft. 19 ea.											
Forsythia—Yellow, 1 to 2 ft. 35 ea.											
Pink Spirea, 1 to 2 ft. 29 ea.											
Pink Flowering Almond, 1 to 2 ft. 59 ea.											
Tamarix—Pink Flowers, 1 to 2 ft. 29 ea.											
Bush Honeyuckle—Red or Pink, 1 to 2 ft. 19 ea.											
Red Flowering Quince, 1 to 2 ft. 29 ea.											
Persian Lilac—Purple, 1 to 2 ft. 39 ea.											
Old Fashion Lilac, 1 to 2 ft. 49 ea.											
Bridal Wreath Spirea, 1 to 2 ft. 49 ea.											
Hydrangea P.G., 1 to 2 ft. 29 ea.											
Deutzia—White, 1 to 2 ft. 19 ea.											
Mockorange—White, 1 to 2 ft. 19 ea.											
Sweet Shrub, 1 to 2 ft. 19 ea.											
Rose of Sharon—Mixed Colors, 1 to 2 ft. 29 ea.											
Red Ozier Dogwood, 1 to 2 ft. 29 ea.											
Pussy Willow, 1 to 2 ft. 29 ea.											
Russian Olive, 1 to 2 ft. 39 ea.											
Red Barberry, 1 to 2 ft. 49 ea.											
Japanese Snowball, 1 to 2 ft. 49 ea.											
Snowberry—Red or White, 1 to 2 ft. 29 ea.											
French Lilac—Red, White, Purple, 1 to 2 ft. 98 ea.											
Spiraea Anthony Waterer—Red, 1/2 to 1 ft. 39 ea.											
Scotch Broom, 1 to 2 ft. 29 ea.											
Hypericum—Yellow Collected, 1 to 2 ft. 29 ea.											
Spice Bush, 1 to 2 ft. 29 ea.											
Butterfly Bush—Purple or Pink, 1 to 2 ft. 49 ea.											
Vice—Purple, 1/2 to 1 ft. 29 ea.											
Green Barberry, 1 to 2 ft. 29 ea.											
Azalea—Red, White, or Pink, 1/2 to 1 ft. 59 ea.											
Witch Hazel, 1 to 2 ft. 39 ea.											
Burning Bush, 1 ft. 98 ea.											
FLOWERING TREES—1 or 2 years Old											
Magnolia Grandiflora, 1/2-1' 59 ea.											
Magnolia Niagara, 1 to 2 ft. 139 ea.											
Mimosa—Pink, 3 to 4 ft., 49 ea.; 4 to 6 ft., 89 ea.											
American Red Bud, 2-3 ft., 29 ea.; 4-6 ft., 79 ea.											
White Flower Dogwood, 2-3 ft., 29 ea.; 4-6 ft., 129 ea.											
Pink Flowering Dogwood, 2 to 3 ft., 3-5 ft., 3-6 ft., 3-8 ft., 3-9 ft., 3-10 ft., 3-11 ft., 3-12 ft., 3-13 ft., 3-14 ft., 3-15 ft., 3-16 ft., 3-17 ft., 3-18 ft., 3-19 ft., 3-20 ft., 3-21 ft., 3-22 ft., 3-23 ft., 3-24 ft., 3-25 ft., 3-26 ft., 3-27 ft., 3-28 ft., 3-29 ft., 3-30 ft., 3-31 ft., 3-32 ft., 3-33 ft., 3-34 ft., 3-35 ft., 3-36 ft., 3-37 ft., 3-38 ft., 3-39 ft., 3-40 ft., 3-41 ft., 3-42 ft., 3-43 ft., 3-44 ft., 3-45 ft., 3-46 ft., 3-47 ft., 3-48 ft., 3-49 ft., 3-50 ft., 3-51 ft., 3-52 ft., 3-53 ft., 3-54 ft., 3-55 ft., 3-56 ft., 3-57 ft., 3-58 ft., 3-59 ft., 3-60 ft., 3-61 ft., 3-62 ft., 3-63 ft., 3-64 ft., 3-65 ft., 3-66 ft., 3-67 ft., 3-68 ft., 3-69 ft., 3-70 ft., 3-71 ft., 3-72 ft., 3-73 ft., 3-74 ft., 3-75 ft., 3-76 ft., 3-77 ft., 3-78 ft., 3-79 ft., 3-80 ft., 3-81 ft., 3-82 ft., 3-83 ft., 3-84 ft., 3-85 ft., 3-86 ft., 3-87 ft., 3-88 ft., 3-89 ft., 3-90 ft., 3-91 ft., 3-92 ft., 3-93 ft., 3-94 ft., 3-95 ft., 3-96 ft., 3-97 ft., 3-98 ft., 3-99 ft., 3-100 ft., 3-101 ft., 3-102 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Number Please? It's 27

For Telephone Companies In Tennessee

By Sam Gamble, Electrification Advisor
Middle Tennessee Elec. Memb. Corp.

If you asked the average telephone user what companies provide telephone service in Tennessee, in all likelihood his answer would be Bell. Contrary to this common conception, there are some 27 different independent telephone systems in Tennessee. Among this number is the Tennessee Telephone Company, with its state headquarters in Mt. Juliet, Tennessee.

The Tennessee Telephone Company is a fully owned subsidiary of the Continental System which operates in 44 states, Canada, and the Carribean area. The state headquarters for the Tennessee system was moved from Parsons to Mt. Juliet in 1967, a short time after the company acquired the Mt. Juliet system.

Since that time the company has spent approximately \$1,100,000 on system improvements in the Mt. Juliet area alone. Mt. Juliet subscribers now have access to approximately 200,000 Nashville area phones without long distance rates.

On a statewide basis the Tennessee Telephone Company has spent more than \$7,000,000 on their system in the past five years updating and improving the service to their more than 17,000 customers. These customers are served from 14 different exchanges located at Cornersville, Lobelville, Linden, Scotts Hill, Darden, Parsons, Decaturville, Sardis, LaVergne, Clifton, Waynesboro, Collinwood, Halls Crossroads and Mt. Juliet.

According to General Manager Arnold Adkins the company employs about 70 people, 36 of which work in the Mt. Juliet area where all the state records are maintained. New office and warehouse buildings have been erected in the last five years, both of which are



Cashier Sherry Bilbrey, standing, and Dixie Hunt, Commercial Representative, are shown here in the Local section of the office building in Mt. Juliet.

served by the Middle Tennessee Electric Membership Corporation. They are modern, excellently equipped, and efficient in all respects.

The service is on a par with any telephone system anywhere, due mainly, according to manager Adkins, to the dedication and caliber of the employees, and to the sound planning that goes into the operation. The use of modern, up-to-date equipment and techniques also adds to the total efficiency.

The people of Mt. Juliet are fortunate to have a fine system like the Tennessee Telephone Company based in, and serving their area, as are the other exchanges over the state that are served by the Tennessee Telephone Company. A soundly operated, dependable telephone system is a great boon, and an asset to any area.



Ronnie Fisher, District Manager, right, and Marvin Watkins, Senior Plant Engineer, go over a construction plan in front of the new Plant Department and warehouse building in the background.

Linda Burgess, Commercial Supervisor, right, and Lanova McClusky go over a problem in the state office section of the Tennessee Telephone Co.



Commercial Manager Richard Bennett points out one of the 26 independent telephone companies in the state to General Manager Arnold Adkins.

It's Only Human to Care...



... about the well-being and future of family and friends, community and country.

Cooperatives are human—made up of people who, together, can do what one person cannot do alone.

There are big co-ops and little ones; marketing, purchasing and service co-ops. Co-ops that ship high-quality foodstuffs all over the world, co-ops that provide rural areas with electric power and telephone service, co-ops that furnish health care, credit, insurance, consumer goods and housing. All it takes to get a co-op going is a common need and a united determination to meet it.

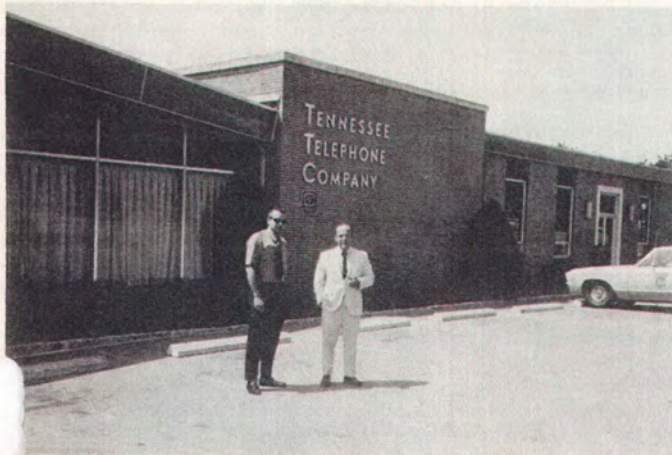
Cooperatives look outward too; they're involved in community development, improving the environment, broadening the base of opportunity for young and old...

... because cooperatives are human; they're people—who care.

Tennessee's
Electric
Cooperatives



Install-Repairman James McFarland prepares to install another telephone, making the total number served out of the Mount Juliet exchange 3,335.



General Manager Arnold Adkins, left, and Commercial Manager Richard Bennett are shown here in front of the new state office building of the Mt. Juliet based Tennessee Telephone Company.

MARKETPLACE

TREMENDOUS OPPORTUNITY!! Work from your own home any hours you wish, full or spare time. Pleasant, easy work anyone can do. Rush stamped, self-addressed envelope and 25¢ handling to: Robert Marsh Direct Sales Enterprises, 1-04TM, Astoria Blvd., Suite 3A, Long Island City, New York 11102.

Learn Auctioneering. World's Largest School. Free catalog. Term Opens Soon. REISCH AUCTION COLLEGE, DEPT. K, Mason City, Iowa 50401.

TEN COLOR BILLFOLD Photos only \$1.60. From your favorite color photo or negative. Twenty for \$2.98. Your photo or negative returned unharmed. Black and White Billfolds, 20 for \$1.25.—Color negative reprints 6 for \$1.00 (17¢ each). Service takes four days in our plant. P.D.Q. Photofinishers Photo-finishers) Lock Box 15050-19 St. Louis, Missouri 63110.

Wanted Wild Ginseng—Miscellaneous Roots and Furs Please write to the Asa Fur Co., Canalou, Mo. 63828.

AGENTS WANTED: Sell lifetime metal social security plates. Good Profits. Free sample. B & L Enterprises, 406 West Main, Waverly, Tennessee 37185.

GINSENG, MAYAPPLE, other roots, free list, special price on traps and supplies. SOUTHEASTERN FUR CO. Rt. No. 4, Sumner, Ill. 62466.

AGENTS WANTED: SELL LIFETIME, Metal, Social Security Plates. Big Profits! Sample and Sales Kit Free. Russell, Box 286 RECP, Pulaski, Tennessee 38478.

SOUTHERN CHANNEL CATFISH. Fastest growing gamefish, gain 4 lbs. yearly. 7"-10", 15¢ each. Larger sizes available. Large orders free delivery. Special prices—5,000 or more. Live delivery guaranteed. Sulik, Route 3, Shelbyville, Ky. 40065. Phone 502-633-1800.

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OPERATE PROFITABLE HOME BUSINESS!! Fabulous Book "Dollar Maker Tips" contains over 1,000 valuable Dollar-Making, Dollar-Saving "Tips". Make the money you have always wanted. Others Have Made as Much as \$40,000 yearly. Everything explained. Only \$3.00 postpaid. Satisfaction Guaranteed. FARRELL, 1B Robinson Drive, Baldwinsville, New York 13027.

END YOUR WEIGHT PROBLEMS FOREVER! No Pill or gimmicks. Details and recipe, 25¢. Leman's, Box 394-T, Wheatridge, Colorado 80033.

GUARANTEED OPPORTUNITY for Homeworkers, Addressers. Pleasant, Easy Work. Rush stamped, self-addressed envelope and 25¢ handling to: McBrearty, Box 11217, Tampa, Florida 33610.

MONEYMAKING OPPORTUNITIES for Sincere Homeworkers!! Addressers, Compilers, Mailers all needed now and foreseeable future. Rush self-addressed envelope and 25¢ handling fee. C. Meekins, Box 388, New York, New York 10457.

ADDRESSERS NEEDED AT ONCE! Full details for self-addressed stamped envelope and 25¢ Postage and Handling Fee. Mrs. Gertrude Kessler, 170 East 96th, Brooklyn, New York 11212.

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FOR SALE — Registered Angus Bulls, Bred Heifers 18 months old . . . 37 Years of Selective Breeding. Write Carman Maynard, Baxter, Tennessee 38544. Telephone 858-4597.

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PUZZLE CORNER

Replies fell back to the 600 mark for our September puzzle. (I hope the farmer had better luck figuring out how many bushels he had in each bin than we did!)

We were told that the farmer had three grain bins that held a total of 6,084 bushels. Bin No. 1 held 71 bushels less than bin No. 3. Bin No. 2 held 19 bushels more than bin No. 1. The number held in each bin was our question.

The answer: Bin No. 1 held 1,998
Bin No. 2 held 2,017
Bin No. 3 held 2,069

Making a total of: . . . 6,084

Our winner for September is Beverly McMahon, Route 2, Vonore, Tennessee 37885, of Fort Loudoun Electric Cooperative, who will receive \$10 from The Tennessee Magazine for her correct answer.

The second and third place winners of \$5 each are Mrs. Ella M. Jackson, Route 2, Humboldt, Tennessee 38343, a member of Gibson County Electric Membership Corp., and Mrs. Martha Bromley, Route 1, Box 25, Flatwood, Tennessee 38458, of Meriwether Lewis Electric Cooperative.

Our puzzle for October will concern Unrewarded labor."

A man persuaded Tommy, with some difficulty, to try to work on a job for thirty days at eight dollars a day, on the condition that he would forfeit ten dollars a day for every day that he idled. At the end of the month neither owed the other anything, which entirely convinced Tommy of the folly of labor. Can you tell just how many days' work he put in and on how many days he idled?

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

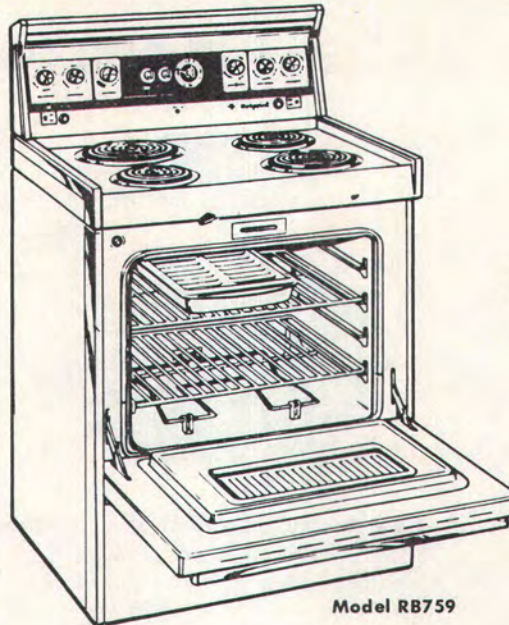
PUZZLE CORNER
The Tennessee Magazine
P. O. Box 7232
Nashville, Tennessee 37210



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ON ALL

Hotpoint Self-Cleaning RANGES



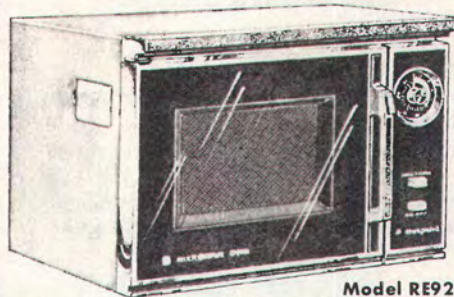
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30 inch
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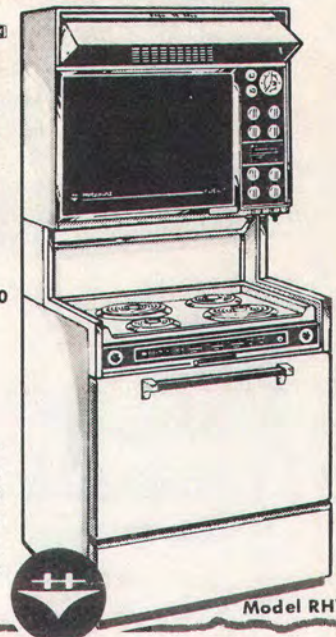
Complete Line of ELECTRIC RANGES



Model RE920

Hotpoint's Microwave Oven turns "Your" hours of cooking time into minutes by cooking with microwave energy. (Imagine meat loaf in 18 minutes) Oven interior remains cool and uses regular 115 volt wiring.

This one has everything—Microwave Oven on top — Self cleaning Oven below and all the up to the minute features packed in less than 30" of width. It cooks electronically & conventionally at the same time and then cleans itself.



Model RHV886

See Your
Hotpoint DEALER

New plan from Mutual of Omaha for Tennessee Magazine readers provides bigger benefits to help meet mounting costs

"WIDE-RANGE" HEALTH INSURANCE

THAT COVERS YOU BOTH IN AND OUT OF THE HOSPITAL

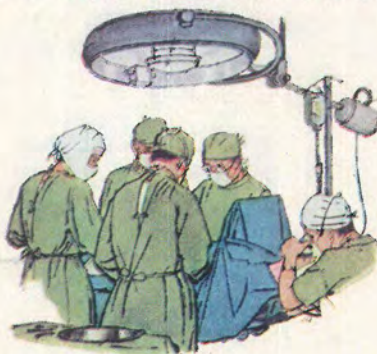
UP TO **\$5,000.00**

for
doctor calls
and home
care



Doctor Calls and Home Care—Pays up to \$5,000.00 on a scheduled basis for out-of-hospital doctor bills, drugs, medicines, X-rays and lab tests, private duty nursing care, plus much, much more. Even includes benefits for charges made by a hospital for a planned program of continued home care following confinement. Covers the whole family.

PLUS UP TO **\$15,000.00**
for in-hospital surgical-medical bills



Hospital-Surgical-Medical—Pays up to \$15,000.00 on a scheduled basis for in-hospital doctor calls, medicines, drugs, lab tests, operating room costs, surgical fees and much, much more. In addition, pays from \$10.00 to \$60.00 a day (depending on the plan you qualify for) for hospital room and board... pays **DOUBLE** the daily benefit selected when confined in an intensive care unit.

PLUS UP TO **\$1,200.00**
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