

Tennessee

July, 1971

M A G A Z I N E

Dedicated to Better Living



The Heart of A Lot
(See Page 10)

Tennessee MAGAZINE

Official Publication of the

**TENNESSEE ELECTRIC
COOPERATIVE ASSOCIATION**

**Executive, editorial and
advertising offices:**

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J. C. Hundley, Executive Manager

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ON THE COVER

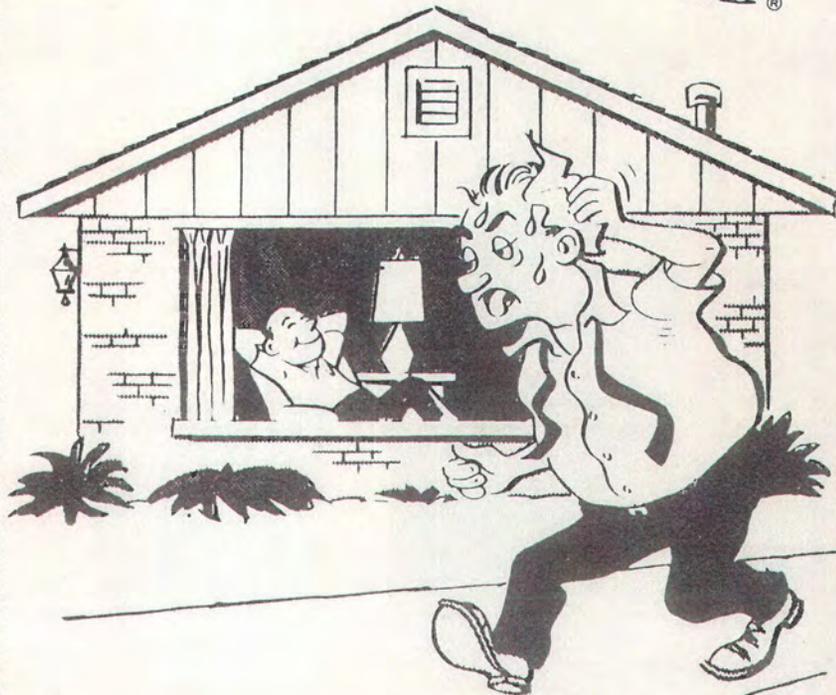
The heart of a feed lot is the factory which prepares the feed. Our cover this month shows such a factory for what is, or will be, the largest feed lot operation in Tennessee. See story starting on Page 10.

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Install electric air conditioning now

The "dog days" of July and August are coming. If you don't already have air conditioning, you and your family are in for some hot, sticky days and some pretty miserable nights.

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TENNESSEE'S 22 Electric Cooperatives

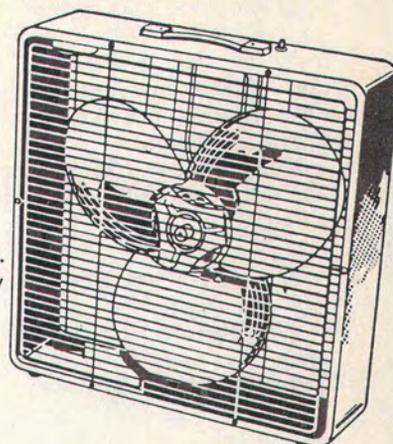
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S & T will help you beat the heat this summer with the latest in fans and air conditioners. You can depend on S & T.

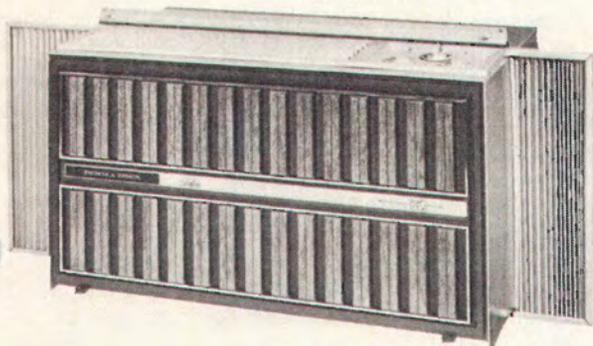
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Volunteer Views

By J. C. Hundley
Executive Manager, TECA

One entire day last month was "Rural Electrification Day" in the U. S. House of Representatives, when Congressmen of both parties explored the progress, problems and potential of the rural electric program. By no means do all Congressmen support Rural Electrification, although we are happy to say that Tennessee's Congressional Delegation has one of the finest records of support of any state in the Nation. And we are also happy to say that one of the supporters of the program chosen to "speak out" in behalf of Rural Electrification on this day was Tennessee's own Ed Jones, the very able Representative from the Volunteer State's Eighth District.

Here is what Congressman Jones had to say, as duly recorded in the CONGRESSIONAL RECORD:

Mr. JONES of Tennessee. Mr. Speaker, I thank the gentleman for yielding.

Mr. Speaker, already we are hearing pleas that we use less electric energy during the coming summer months. It is obvious from these pleas that power shortages are anticipated. Unfortunately, we cannot correct the power shortage problem by asking people not to use their electric air conditioners when the weather is hot.

If the power crisis is to be met and conquered, we must do something, and that usually means using money. In this case, however, it means investing money. It means providing the Rural Electrification Administration with a more realistic funding level. I think it is unwise to continue funding an agency's loan budget at the same level year after year, knowing full well that simple inflation will erode it, and knowing that there are many other factors that make construction and maintenance more costly today than they were even a year ago.

Rural electric cooperatives in Tennessee are having it rough these days, just as other co-ops around the country are. For example, the TVA has recently increased wholesale power rates by 24 percent. Other costs are going up. New customers must be served. Old customers demand more electricity. Systems must be strengthened and generally modernized.

Although Tennessee co-ops have continued to borrow money from REA, they had a backlog at the end of 1970 of some \$4 million in unfilled REA loan requests. These co-ops have indicated that between January 1 of this year and the end of June of next year, 1972, they would be submitting loan applications in the amount of nearly \$13 million.

How much of that money requested will they eventually receive? Not enough, I am sorry to say. In November of last year, one of our cooperatives in Tennessee applied for a loan of \$797,000 for 118 miles of distribution line to serve 1,400 consumers. On February 18, they

received \$350,000—less than half of the amount needed to do the job.

In December of last year, another Tennessee co-op applied for a loan of approximately \$2 million for distribution line and equipment, but it received only \$791,000.

I want to make two points here. First, these loan requests were not based on guesswork. Each request is the result of a lot of hard technical work by engineers, lawyers, and other professionals. Secondly, when a request is funded by less than half, the remainder does not stay on REA records as an unmet loan amount, as a part of the backlog. Instead, the sheet is wiped clean. If that co-op wants to get the remainder of its loan request, it must file and submit again, from the beginning.

In this manner, REA appears that it is not actually as far behind as it is, but REA is behind, far behind. Typical remarks which appear on the loan application of those Tennessee co-ops which received reduced loans are: "Limited REA funds available" and "Lack of REA funds."

A half-dozen co-ops in the State of Tennessee need additional REA financing, but have delayed application because their general funds are in excess of REA's new limitation. In many cases, if they have general funds equal to 8 percent of their plant investment, they cannot get loans; they cannot even get loan funds previously committed.

Eight percent—and REA has held the line well below 8 percent in some cases—will not leave these co-ops much flexibility in their ability to cope with unexpected problems. In fact, some are unexpected problems. In fact, some are having difficulty getting enough cash for their regular operations.

Presently, REA does not have enough money to go around, and so REA is pinching, and the co-ops are feeling the pinch.

The Rural Electrification Administration has borrowers and potential borrowers in 46 States. These are electric power cooperatives in rural areas, ready to help relieve the Nation's power shortage problems, and ready to help relieve the population pressure on our cities if they can simply get the funds necessary to provide adequate power to meet the needs of agriculture and rural industry. These co-ops look to REA for their loans. For a change, let us provide REA with adequate loan funding. At least \$555 million is required if REA is to do an adequate job of meeting the needs.

Both the rural and the urban areas in America are in the same boat as far as the energy crisis is concerned. If the stress on either is relieved even slightly, then the whole country benefits. If we are truly interested in overcoming the energy crisis, a perfect opportunity for taking constructive action lies in the funding of REA at a level high enough to meet its demands.

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JULY, 1971

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HISTORY OF OUR FLAG

1777-1971

The United States Flag is the third oldest of the National Standards of the world; older than the Union Jack of Britain or the Tricolor of France.

The flag was first authorized by Congress June 14, 1777. This date is now observed as Flag Day throughout America.

The flag was first flown from Fort Stanwix, on the site of the present city of Rome, New York, on August 3, 1777. It was first under fire three days later in the Battle of Oriskany, August 6, 1777.

It was first decreed that there should be a star and a stripe for each state, making thirteen of both; for the states at that time had just been erected from the original thirteen colonies.

The colors of the Flag may be thus explained: The red is for valor, zeal and fervency; the white for hope, purity, cleanliness of life, and rectitude of conduct; the blue, the color of heaven, for reverence to God, loyalty, sincerity, justice and truth.

The star (an ancient symbol of India, Persia and Egypt) symbolizes dominion and sovereignty, as well as lofty aspirations. The constellation of the stars within the union, one star for each state, is emblematic of our Federal Constitution, which reserves to the States their individual sovereignty except as to rights delegated by them to the Federal Government.

The symbolism of the Flag was thus interpreted by Washington: "We take the stars from Heaven, the red from our mother country, separating it by white stripes, thus showing that we have separated from her, and the white stripes shall go down to posterity representing Liberty."

In 1791, Vermont, and in 1792, Kentucky, were admitted to the Union and the number of stars and stripes was raised to fifteen in correspondence. As other states came into the Union it became evident there would be too many stripes. So in 1818 Congress enacted that the number of stripes be reduced and restricted henceforth to thirteen, representing the thirteen original states; while a star should be added for each succeeding state. That law is the law of today.

The name "Old Glory" was given to our National Flag August 10, 1831, by Captain William Driver of the brig Charles Doggett.

The flag was first carried in battle at the Brandywine, September 11, 1777. It first flew over foreign territory January 28, 1778, at Nassau, Bahama Islands, Fort Nassau having been captured by the Americans in the course of the war for independence. The first foreign salute to the flag was rendered by the French admiral LaMotte Piquet, off Quiberon Bay, February 13, 1778.

The United States Flag is unique in the deep and noble significance of its message to the entire world, a message of national independence, of individual liberty, of idealism, of patriotism.

It symbolizes national independence and popular sovereignty. It is not the Flag of a reigning family or royal house, but of more than 200-million free people welded into a Nation, one and inseparable, united not only by community of interest, but by vital unity of sentiment and purpose; a Nation distinguished for the clear individual conception of its citizens alike of their duties and their privileges, their obligations and their rights.

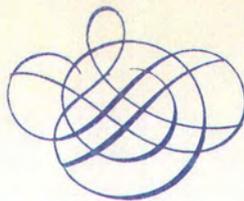
It incarnates for all mankind the spirit of Liberty and the glorious ideal of human Freedom; not the freedom of unrestraint or the Liberty of license, but a unique ideal of equal opportunity for life, liberty and the pursuit of happiness, safeguarded by the stern and lofty principles of duty, of righteousness and of justice, and attainable by obedience to self-imposed laws.

Floating from the lofty pinnacle of American idealism, it is a beacon of enduring hope, like the famous Bartholdi Statue of Liberty Enlightening the World to the oppressed of all lands. It floats over a wondrous assemblage of people from every racial stock of the earth whose united hearts constitute an indivisible and invincible force for the defense and succor of the downtrodden.

It embodies the essence of patriotism. Its spirit is the spirit of the American nation. Its history is the history of the American people. Emblazoned upon its folds in letters of living light are the names and fame of our heroic dead, the Fathers of the Republic who devoted upon its altars their lives, their fortunes and their sacred honor. Twice told tales of National honor and glory cluster thickly about it. Ever victorious, it has emerged triumphant from eight great National conflicts. It flew at Saratoga, at Yorktown, at Palo Alto, at Gettysburg, at Manila Bay, at Chateau-Thierry, at Iwo Jima. It bears witness to the immense expansion of our national boundaries, the development of our national resources, and the splendid structure of our civilization. It prophesies the triumph of popular government, of civic and religious liberty and of national righteousness throughout the world.

The flag first rose over thirteen states along the Atlantic seaboard, with a population of some three million people. Today it flies over fifty states, extending across the continent, and over great islands of the two oceans; and more than two hundred million owe it allegiance. It has been brought to this proud position by love and sacrifice. Citizens have advanced it and heroes have died for it. It is the sign made visible of the strong spirit that has brought liberty and prosperity to the people of America.

IT IS THE FLAG OF ALL OF US ALIKE. LET US ACCORD IT HONOR AND LOYALTY.



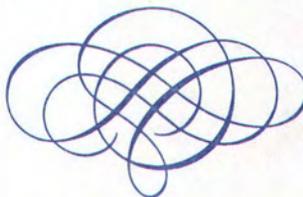
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Residence Address _____ City _____

State _____ Zip _____ Total Premium _____

PLAN DESIRED CHECK ONE ONLY. Individual Only Entire Family Please Bill Me
 Check Enclosed
REPRESENTATION AND AGREEMENT OF POLICYHOLDER: I hereby represent that to the best of my knowledge and belief that no person to be insured under this policy has now or has ever had cancer in any form, except _____ who is to be excluded from the coverage of the policy. I understand my Policy becomes effective when issued and premium is received.

Applicant's Signature _____ Date _____

I would like information on CANCER INSURANCE coverage for my employees.

I have a friend who would be interested in this cancer policy, please forward information and application to the name below.

Name of Company _____ Address _____ City _____ State _____ Zip _____
Approximate number of employees _____

Name _____ Address _____ City _____ State _____ Zip _____
City _____ State _____ Zip _____

SPECIAL OFFER TO ALL READERS OF "TENNESSEE MAGAZINE"

Cancer insurance costs a lot less than cancer.

Medical expense can wipe out a lifetime's savings!

The American Cancer Society reports that according to present rates:

- Cancer will strike 1 out of 4 people
- 940,000 Americans will be under hospital care for cancer
- Approximately \$660,000,000 will be spent for hospital care of cancer patients this year

WHAT OUR POLICY PAYS:

CANCER(full coverage up to \$2,000.00)

8 OTHER DREAD DISEASES . . . Poliomylitis, Leukemia, Scarlet Fever, Diphtheria, Small Pox, Spinal or Cerebral Meningitis, Encephalitis, or Rabies full coverage up to \$5,000.00.

PAYS IN ADDITION TO ANY OTHER INSURANCE YOU MAY HAVE. . . .

Pays directly to you.

WHAT OUR POLICY OFFERS:

GUARANTEED RENEWABLE FOR LIFE . . . (Subject to Premium Change by Class)

SCHEDULE OF BENEFITS . . . (full coverage up to \$2,000.00)

INDIVIDUAL COVERAGE . . . (from 1 month old to 56 years inclusive) \$10. annually

FAMILY COVERAGE . . . (all dependents to age 21) \$24. annually

COMPANY COVERAGE (five employees or more)

Internal Cancer (\$2,000.00 if incurred prior to age 60) - (\$1,000.00 if incurred after age 60)

WHAT OUR POLICY COVERS:

MEDICAL TREATMENT: This plan pays for the services of one or more legally qualified physicians

HOSPITAL CARE: Pays for hospital room and board, and all services of regular hospital attendants, and any hospital apparatus or medicine used in treatment.

SPECIAL NURSE: Pays for the services of a registered graduate nurse or nurses (excluding any relative by blood or marriage).

PHYSIOTHERAPY: Pays for the services of a legally qualified Physiotherapist (excluding any relative by blood or marriage).

AMBULANCE: Pays for transportation to or from a hospital in an ambulance, but no more than \$50.00 altogether for any one sickness.

X-RAY: Pays for x-rays required for diagnosis and treatment.

BLOOD TRANSFUSIONS: Pays for such services.

DRUGS & MEDICINES: Pays for all drugs and medicines used in the treatment.

IRON LUNG: Pays for the rental of an iron lung or similar mechanical apparatus.

BRACES, CRUTCHES, AND CORRECTIVE SHOES: Pays for these items if considered necessary in the treatment by the attending physician.

EMERGENCY TRANSPORTATION: Pays the cost of transportation by airplane or railroad to a hospital or other institution qualified to provide special treatment authorized by the attending physician, but no more than the charge for one round trip for any one sickness.

EXCEPTIONS: No benefits payable for losses which are: (1) incurred during foreign travel after six months departure from the United States, (2) covered by compensation laws, (3) incurred in the Armed Forces, (4) provided for or paid by government hospitals.

***DEFINITION:** "Covered Sickness" means definitely diagnosed Internal Cancer, Poliomylitis, Leukemia, Scarlet Fever, Diphtheria, Smallpox, Spinal or Cerebral Meningitis, Encephalitis or Rabies (including inoculations for suspected Rabies) contracted more than 30 days after the Policy Date and while the policy is in force.



If you are not completely satisfied, return your policy within 10 days and your money will be refunded. Cancer can happen to anyone, anywhere, without warning. So act today, Send us the application form attached to the left of this ad with all necessary information. No salesman will call. No one will bother you. In fact, we're able to offer you this insurance at such a low cost precisely because we are offering it directly.

CANCER INCIDENCE BY SITE & SEX

A chart showing where Cancer is most likely to strike YOU as based on 1970 estimates made by the AMERICAN CANCER SOCIETY.

SKIN	Female	13%	Male	23%
ORAL	Female	1%	Male	3%
BREAST	Female	23%	Male	3%
RESPIRATORY	Female	4%	Male	20%
COLON	Female	10%	Male	8%
DIGESTIVE	Female	11%	Male	13%
GENITAL	Female	20%	Male	11%
URINARY	Female	3%	Male	7%
LEUKEMIA	Female	3%	Male	3%
OTHER	Female	12%	Male	12%

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Reelfoot: A Lot of Lot

By John Stanford

Over a period of years, a few cattle-wise Tennesseans have gone on record as believing that the Volunteer State could and should be on the top plateau of all cattle-producing states in the nation. Some of the reasons given are climate, central location, good soil for growing feed and pasture, and plenty of inexpensive electricity for such chores and necessities as feed grinding, silo operation, feed distribution and pumping water supply.

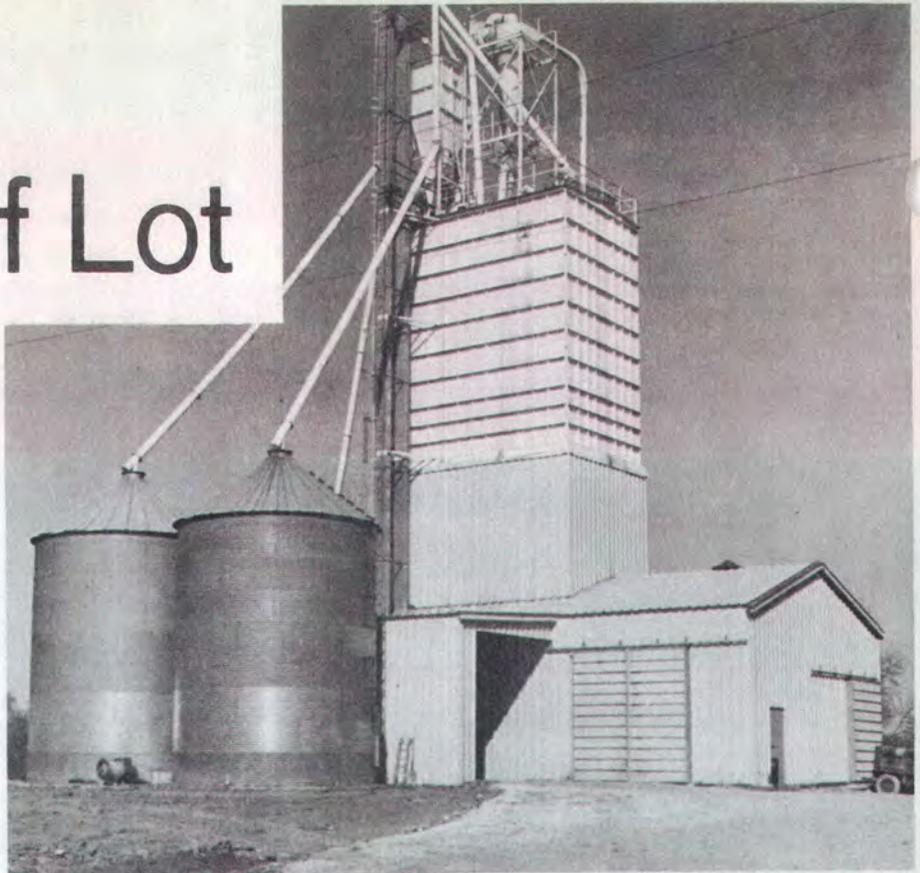
To our knowledge, however, it wasn't until the Reelfoot Feed Lot Division of Reelfoot Packing Company began its plans for a 20,000-head feed lot about 12 miles west of Union City that an operation of anywhere near this magnitude existed in Tennessee.

As a matter of fact, the Reelfoot Feed Lot has been in actual operation just a bit longer than one year, and it's only one-fifth of its way to a 20,000 head population, but don't bet it won't attain its goal right on schedule, and in the not-too-distant future.

The Reelfoot Feed Lot came into being as a means of making a good, steady supply of quality cattle available throughout the year, including extras during holiday seasons when many farmers appear reluctant to market their cattle. It is to even out such supply that the Reelfoot Feed Lot came into existence.

Says Manager Larry Gidcumb, a graduate in Animal Nutrition who has 12 years of experience in feed lot operations, three of them with his present company: "The Reelfoot Feed Lot isn't planned, operated or managed to supply the packing company with economical cattle. We expect to operate at a profit and get market prices for our stock. Under no circumstances will the lot be used to cut prices that local farmers expect and are due."

Approximately 90% of all cattle



Farm feed factory supplies feed lot with fresh, properly blended rations. All movement, handling, processing and mixing is done by electric powered equipment.

in the lot comes from local area stocker farms.

A 3-man crew can handle about 150 incoming cattle per hour. As soon as the cattle are unloaded, they are taken to 50-by-200 foot receiving pens capable of accommodating 65 head each. They are immediately put on the same feeding formula which they will later get as the first of three or four different formulas in the finishing pens.

Within 24 hours after arrival all cattle are taken to the processing floor where they are vaccinated against all known feed lot diseases and injected with 1-million units of Vitamin A, 250-thousand units of Vitamin D and 5-thousand units of Vitamin E. Vitamin A in the amount of 30-thousand units is added to the daily feed intake of each animal. After initial vaccinations, injections and inspections, the new arrivals are transferred to finishing pens which are 100-by-200 in size and capable of holding 130 animals each. Here the cattle, which generally have been bought at a weight of 600 to 700 pounds, will be fed out

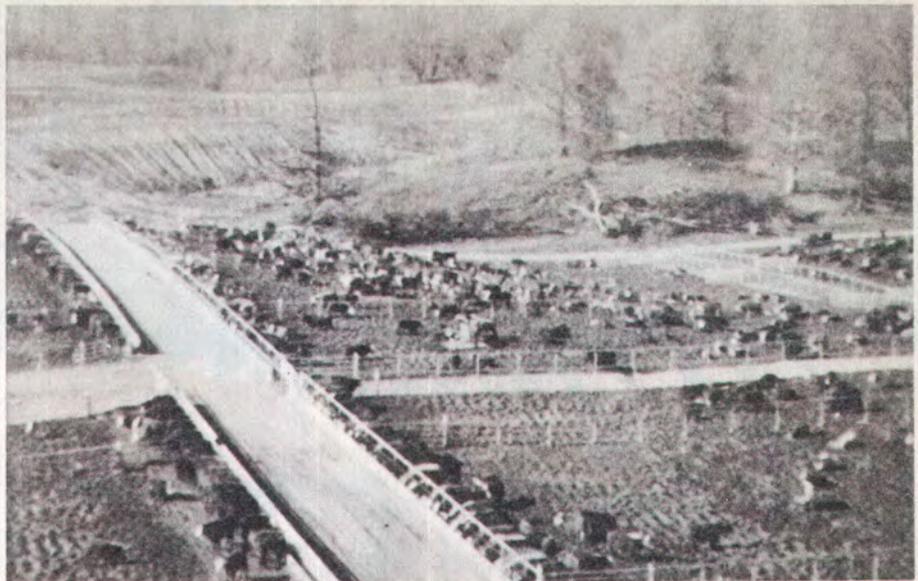
for a period of approximately 120 to 150 days.

The receiving and finishing pens are a part of a well-planned feed lot complex now contained within 40 acres at Reelfoot Feed Lot. All 37 lots in the system are made of oil field pipe and cable. All lanes, gates and movement areas are built without sharp corners for, as Manager Gidcumb says, "Cattle move freely if they can't see a gate or corner ahead of them. The lots were built by experienced cattlemen so animals can be processed, handled or moved without excitement."

Since feed is obviously the key to every feeding operation, planning and execution in this area have been more than extensive at Reelfoot Feed Lot. As mentioned earlier, formulas are generally changed several times for every pen that goes through the lot, but all formulas have several things in common. Either milo or corn are used in most feeding combinations, as are silage, supplements, vitamins and black strap molasses. All ingredients are weighed before going into the



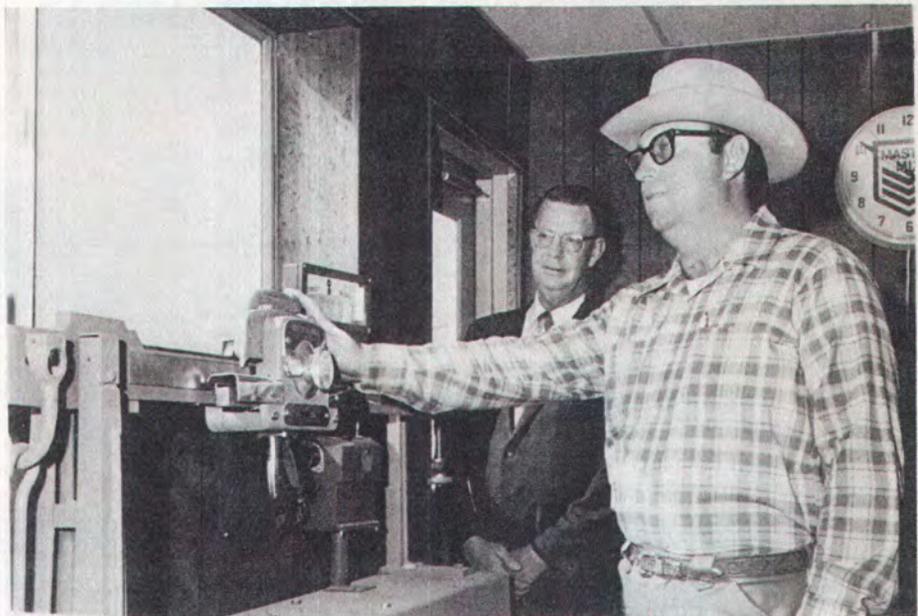
Control panel for the feed mill motors is well-designed and marked for convenience. Floyd Roberts of Gibson Co. Electric (left) and Gidcumb discuss the neat wiring job.



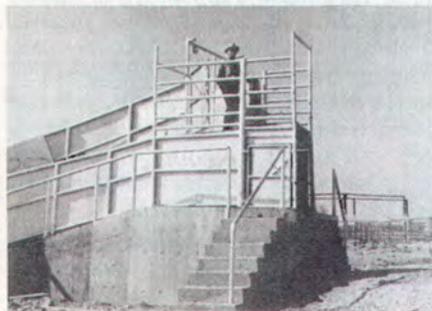
Well-lighted, properly laid out feeding pens are part of Reelfoot's management practices. Mercury vapor units are at opposite end of pens from feed bunks.



Scales are also the secret to blending perfect rations. Every ingredient is weighed as it enters the mixer-blender. Gidcumb watches as feed mill manager, Woodrew Williams, goes about his job of preparing cattle feed.



Cattle coming to and from the feedlot pass over these scales so Larry Gidcumb can keep records of their progress. Floyd Roberts, Gibson County Electric Co-op's Electrification advisor, watches the proceedings.



Loading chutes are built for easy loading of double-deck trucks. Cattle can be routed either level by just opening or closing a couple of gates.

mixing mill and all mixtures are weighed as they are delivered to the feed bunks. All grains are cleaned and put through a 210-degree steam chamber and roller mill (to add moisture content and roll into flakes) before they are combined with the other ingredients.

With the present population of some 4,000 head, it takes about eight hours to process enough grain (1,200 bushels) to go into the completed formula and about 2½ hours to deliver it to the feed bunks on twice-a-day feedings.

The lot isn't interested in partic-

ular breeds of cattle as long as they are of beef type. Says Gidcumb: "We aren't interested in breeds, just putting on pounds. Also, the lot isn't for final finishing but for feeding animals to their potential. We try to buy and feed steers that will grade about 70% choice."

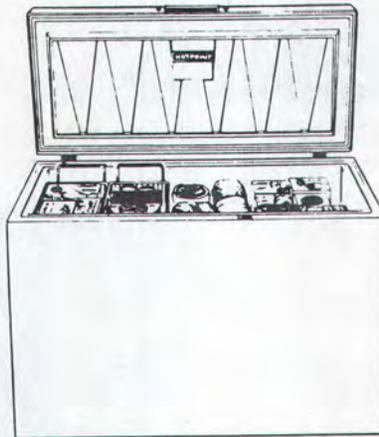
All cattle from the feed lot are sold by carcass grade. Explains Manager Gidcumb: "This is best for buyer and seller. There is never a dispute over what's being sold. A Government inspector determines the grade and you are paid

(Continued on Page 25)

Hotpoint SUMMER BONUS BUYS

HOTPOINT 20 CU. FT. FAMILY-SIZE FREEZER

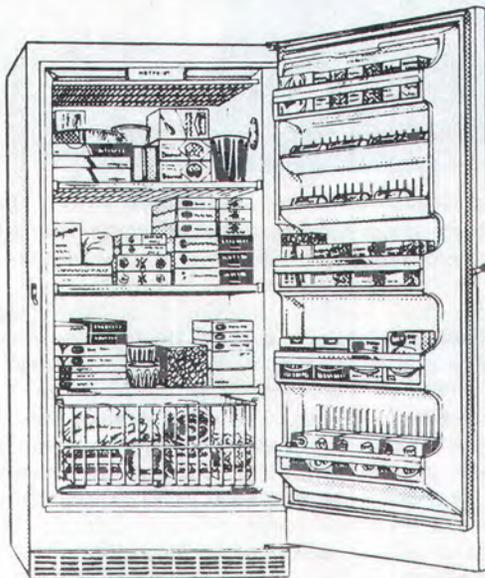
- 700-lbs. storage capacity
- Two handy lift-out baskets
- Power-off warning light
- Automatic interior light
- Front defrost-water drain
- Counterbalanced lid
- Built-in lid lock



Three-year food-spoilage warranty (up to \$200 total)

MODEL FH20C

518 LB. FOOD FREEZER ON WHEELS



MODEL FV15C

Three-year food-spoilage warranty (up to \$150 total)

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- Built-in door lock
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- Top cold plate
- Four door shelves
- Two juice-can shelves in door
- Defrost water drain

SEE YOUR LOCAL HOTPOINT DEALER

PUZZLE CORNER

George Bernard Shaw once said that "No question is so difficult to answer as that to which the answer is obvious." However, the June puzzle must have been an easy one! We received over 500 replies and most of them were correct.

Here is the way the problem went:

A man left a legacy of \$1,000 to three relatives and their wives. The wives received together \$396. Jane received \$10 more than Catherine and Mary \$10 more than Jane. John Smith received the same amount as his wife, Henry Snooks got half as much again as his wife, and Tom Crowe received twice as much as his wife. What was the Christian name of each man's wife?

The answer:

Catherine—John Smith's wife

Jane—Henry Snook's wife

Mary—Tom Crowe's wife

The winner of the June puzzle and a check for \$10 from The Tennessee Magazine is Mrs. Geneva Anderson, c/o General Delivery, Sneedville, Tenn. 37869, a member of Powell Valley Electric Cooperative in Jonesville, Va.

Second and third place winners of \$5 each are Mrs. W. L. Greer, Route 5, Jackson, Tenn, a member of Southwest Tennessee E.M.C. and Susan A. Scott, 196 Mark Circle, Gallatin, Tenn., a member of Cumberland Elec. Memb. Corp.

And here is the puzzle for July:

The Bryan's had contrived that their tour should include a certain place where there was good fishing, as Uncle Henry was a good angler and they wished to give him a day's sport. It was a charming spot, and they made a picnic of the occasion. When their uncle landed a fine salmon trout there was some discussion as to its weight. The children's father put it into the form of a puzzle, saying: "Let us suppose the tail weighs nine ounces, the head as much as the tail and half the body, and the body weighs as much as the head and tail together. Now, if this were so, what would be the weight of the fish?"

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

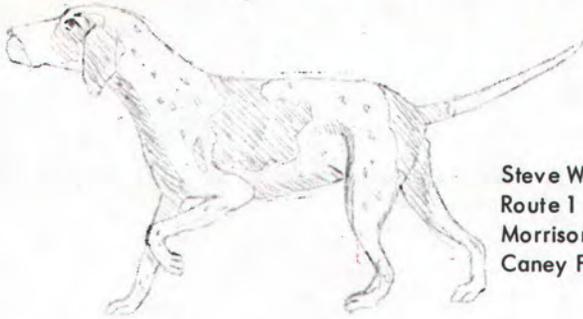
PUZZLE CORNER
THE TENNESSEE MAGAZINE
P. O. Box 7232
Nashville, Tennessee 37210

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.



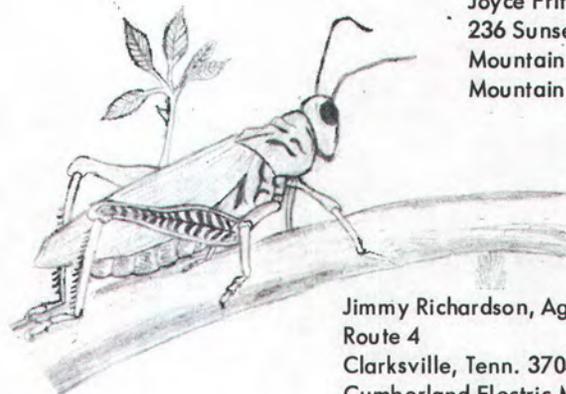
Steve Wright, Age 14
Route 1
Morrison, Tenn.
Caney Fork Electric Cooperative



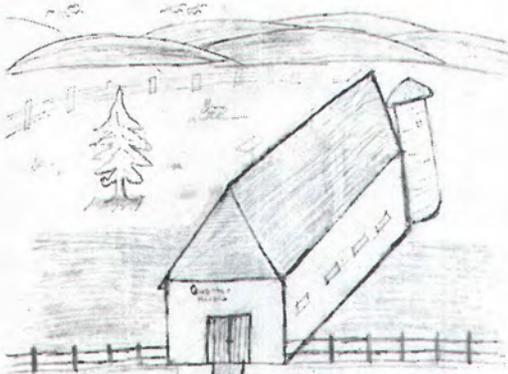
Joyce Fritts
236 Sunset Drive
Mountain City, Tenn. 37683
Mountain Electric Cooperative



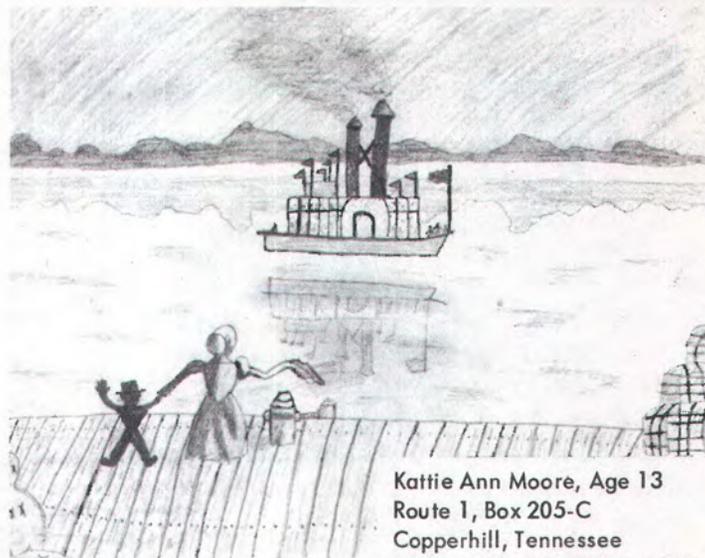
Geneva Horde
1027 East High St.
Union City, Tenn. 38261
Gibson County Electric Memb. Corp.



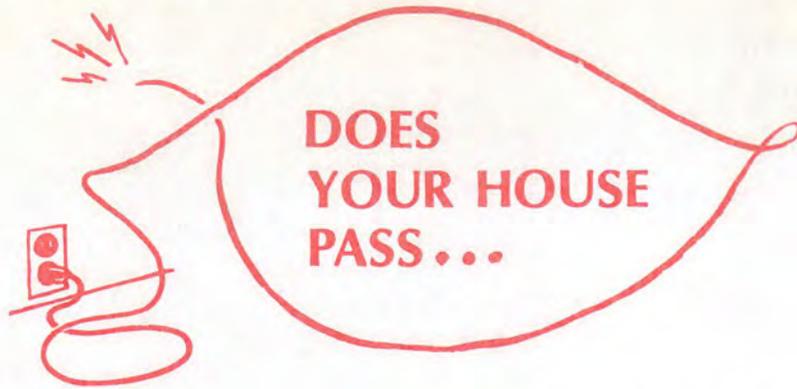
Jimmy Richardson, Age 14
Route 4
Clarksville, Tenn. 37040
Cumberland Electric Memb. Corp.



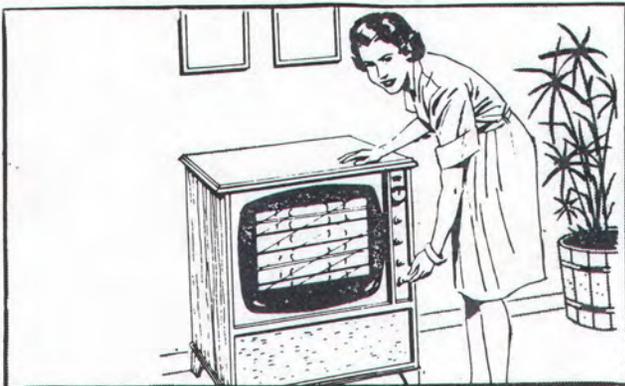
Mike Young, Age 12
Route 2
Pinson, Tenn. 38366
Southwest Tenn. E. M. C.



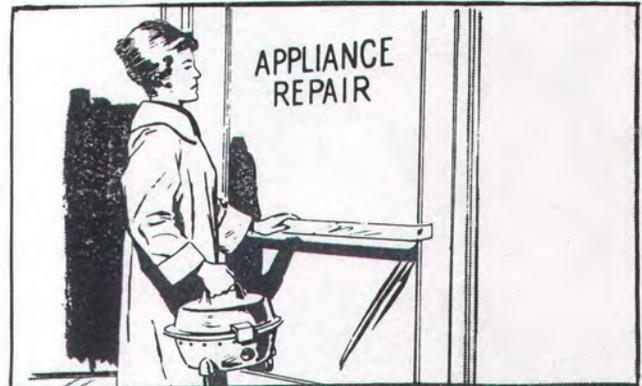
Kattie Ann Moore, Age 13
Route 1, Box 205-C
Copperhill, Tennessee
Tri-State Electric Cooperative



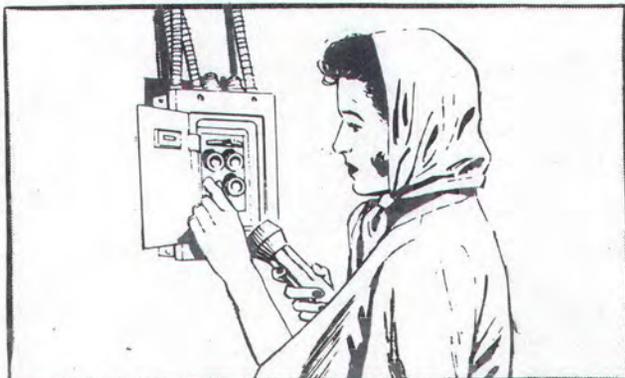
this wiring check? If you checked one or more of these symptoms of inadequate wiring, you probably need larger entrance equipment (fuse box) for your home. ■ Here's why. When your house was originally wired for electricity, you needed only a fraction of the power you presently use. As the years passed, you've added more and more of those labor-saving appliances (the typical family more than doubles its use of electricity every 10 years). Yet your wiring system must carry the increased flow of electricity without increased wiring capacity. ■ Larger entrance equipment (fuse box) is usually all that's needed to solve this problem. To get maximum performance from your appliances and for safety's sake, have your wiring checked. Your rural electric will be glad to give you free, expert advice.



Picture Distorted



Appliance Trouble?



Fuses Blown Frequently?



Too Few Outlets?

Running Water is a BIG Step to Modern Living...and More Income

An electric water system does much more than bring running water into your home. It also opens a new, wonderful way of life for you and your family.

It should, because a modern water system saves the rural family tremendous work. The typical farm wife, without an electric water system, walks an estimated 70 miles a year between the hand pump and the house (carrying over 70 tons of water). The average family spends nearly 40 minutes a day carrying water by hand.

What a difference when you have all the water you need just as close as the water tap! Dishwashing



is no longer a major chore. Running water greatly reduces the time required for so many household jobs.

Water is very important to your family's health, too. A modern water system encourages proper hygienic practices. It'll cut hours of hard work from wash day.



An electric system can help you earn money, too. Livestock and poultry production is substantially increased. Tests show an increase from 10 to 22 percent in milk production; 10 to 20 for egg production when water is made readily available. Running water also helps you meet Health Department requirements so you can up-grade your dairy and earn more on every hundredweight.

Yet a modern electric water system need not be expensive. Many families do much of the work themselves. See your rural electric cooperative for free information. They have lots of experience helping others plan for their electric water system. They'll be glad to make practical suggestions that can save you money and effort.



Timely Topics

SMALL GRAIN CAN SUBSTITUTE FOR CORN FOR SWINE

Corn is still king, but a University of Tennessee livestock specialist believes that small grains such as wheat and barley have a definite place in swine finishing rations.

"Lately, due to lower corn yields, the southern corn blight and other diseases, price margins between corn and wheat have narrowed considerably," says W. P. Tyrrell, professor with U-T's Agricultural Extension Service. "Producers are now taking a new look at wheat to determine its place and value in growing and finishing rations for hogs. Wheat is higher in protein than corn and has about the same energy value."

Tyrrell reports that research with soft red winter wheat replacing corn, pound for pound, in swine rations was recently completed in Arkansas. Conclusions drawn from this work were that if the price of wheat is three percent less per pound than corn, one-half the corn can be replaced by ground wheat. Similarly, if wheat is priced at least six percent less than corn, then all the corn in a finishing ration can be replaced with wheat.

"Barley as a feed is superior to corn in gross energy and crude protein," Tyrrell continues. "However, it is lower in total digestible nutrients, higher in fiber, and somewhat less palatable than corn."

Tennessee research has shown that ground barley can be used for all or part of the grain in a finishing ration for hogs, Tyrrell says. However, feeding barley resulted in lower feed efficiency than corn.

ALFALFA RETURNING NOW TO TENNESSEE

Since alfalfa can be used for hay, silage, greenchop or pasture, it is still the queen of forage crops, believes a University of Tennessee agronomist.

"Alfalfa is a high yielding, high quality crop which holds a good stand for a number of years when recommended practices are followed," says Joe D. Burns, associate professor with the U-T Agricultural Extension Service. "The alfalfa weevil is being controlled by a timely spray program."

In comparing alfalfa with red clover, Burns points out that the average yield for alfalfa is 3.1 tons per acre, while red clover averages 2.5 tons per acre. The average crude protein is about 14 percent for alfalfa and 12 percent for red clover, while the average digestible protein is about 10 percent for alfalfa and seven percent for red clover.

"When the larger yield and higher digestible protein content are considered, the total digestible protein per acre is 620 pounds for alfalfa and only 350 pounds for red clover," Burns explains.

The agronomist points out that this difference equals 270 pounds of digestible protein per acre, worth about \$29.70. The extra six-tenths ton of hay would provide about 600 pounds of total digestible nutrients and another \$18 per acre.

"The total difference would be \$47.70 per acre in favor of alfalfa," says Burns in citing some of the reasons alfalfa is returning to Tennessee.

AGRICULTURE IS BALANCE WHEEL OF FOREIGN TRADE

B. H. Pentecost, a University of Tennessee agricultural economist, says that agriculture continues to increase in importance and serves a "balance wheel" in our total foreign trade.

"Recently released figures from the U. S. Department of Agriculture further reflect the importance of agricultural exports to the U. S. economy," adds Pentecost, assistant professor with U-T's Agricultural Extension Service. "Although the U. S. payments deficit has risen to a record \$5.51 billion, during the first three quarters of the 1971 marketing year we had a positive trade balance."

He adds that this is primarily a result of our agricultural exports. A favorable balance of \$1.6 billion in agricultural exports more than offsets the balance of trade deficit in non-agricultural products of over \$200 million. Thus the United States was able to show an overall \$1.4 billion favorable balance of trade for that period.

"Total agricultural exports increased by 18 percent over the same period last year," Pentecost says. "While most agricultural products experienced gains, most of the increase came from oil seeds and grains."

The European economic community countries were the most important recipients of our products, he explains. With expected continued economic gains in the European community, Japan, Canada and other major purchasers of our agricultural products, as well as substantial growth in many of the developing countries, the role of agriculture in our total foreign trade will likely continue to increase in importance in the future.

WEEDY PASTURE NEEDS MOWING

Mow those weedy pastures to prevent or slow down weed seed production, advises a University of Tennessee agronomist. You'll also remove mature forage so the plants can produce new tender regrowth.

"Weeds use up water and fertilizer which are needed by the pasture plants," explains Joe D. Burns, associate professor with U-T's Agricultural Extension Service. "The weeds also shade the pasture plants, which slows growth. Some of the weeds, such as thistles, also prevent the cattle from grazing large areas because of their spiny stickers."

Many of the spring and early summer weeds are now in bloom and are producing large numbers of seeds. Thistles, for instance, are usually not killed by mowing, but the seed production can be greatly reduced.

"Fescue and orchardgrass pastures are producing seed heads which should be mowed," Burns says. "Try mowing one-half of your pasture acreage first, and then in about a week to ten days, mow the other half."

Where possible, save the excess spring growth for hay, he suggests. Some farmers get enough hay from their pastures to winter their cows. This way, all the feed produced can be used by the animals either as grazing or hay.



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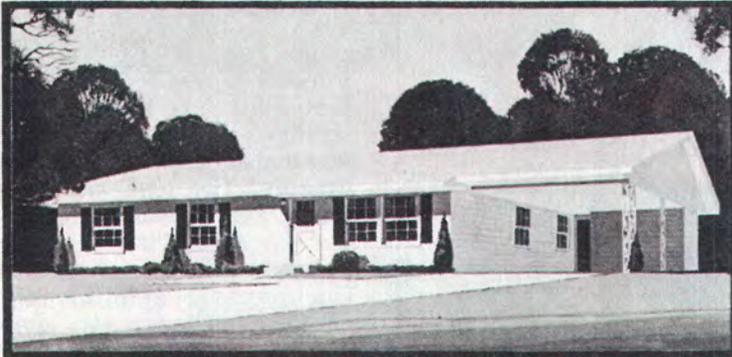
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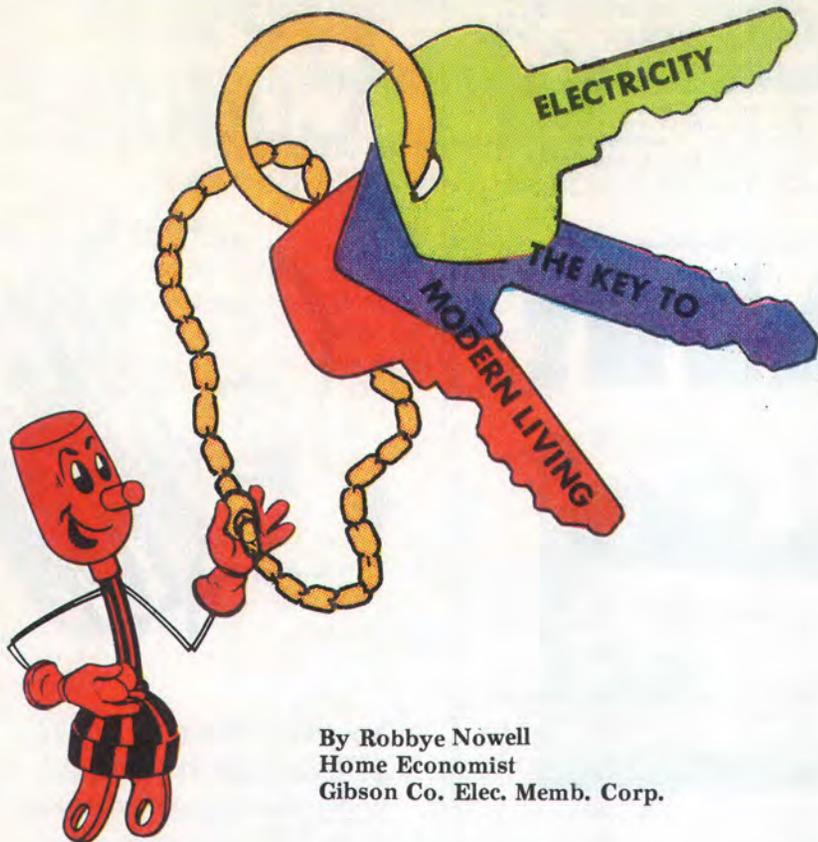
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By Robbye Nowell
Home Economist
Gibson Co. Elec. Memb. Corp.

You can't see it—though it's constantly at your finger tips.

You can't hear it—though it makes things hum.

Electricity—that is—is the key that opens the door to modern living which today's world is continually reaching and grasping for.

Total electric living is for those who want their homes, regardless of style or price range, to provide more than shelter. It has no limits and offers the ultimate in comfort, convenience, cleanliness, and safety. Electrical living is adaptable to every need, every desire, and every improvement the family might wish for—today, tomorrow, or even next year.

The truly modern home equipped for today's living has, first of all, lots of wiring inside its walls. In other words, it is adequately wired to provide electrical power for the present electrical needs as well as the growing needs of the family. Electricity travels through wires like water through pipes. Therefore, there is a 3-wire service entrance which carries power to a main panel of at least 100 amps needed for a carefully planned electrical "highway" system over which the electrical energy travels. These "highways" are called circuits. There are enough circuits to

supply sufficient power to each room every time it is called on to do a job. In the rooms are convenient outlets and switches to take care of the electric servants without long extension cords or "octopus" outlets.

The total electric home quite naturally has year-round comfort conditioning. Certainly you can not turn on the sun and turn off the snow, but you will with the key to modern living—electrically select the just right temperature. Never again will you in the comfort—conditioned home experience icy weather nipping at your finger tips and nose during the winter or energy-robbing, appetite-starving, hot, sticky days in summer.

Well-planned lighting opens up space, adding immeasurable splendor and graciousness to the modern home. It adds depth and dimension by bringing out the beauty of fine furnishings, the richness of woods, the glitter of crystal and silver, and the sparkle of treasured china—as it highlights objects of art and imparts charm and decorative appeal to every room. Also well-designed lighting with silent switch control gives the desired level of light needed for work, study, or play.

The kitchen—the heart of the home—is sheer pleasure, thanks to the smartly styled electrical appliances which eliminate disliked, time-consuming chores. Meals are no longer difficult to prepare with ranges that have pushbutton controls and temperatures that remain constant for perfect roasting and baking. Then nothing beats the convenience of electric self-cleaning ovens. Just set the dial and oven-scrubbing days are over. Microwave ranges are a wonder—they cook in seconds and minutes rather than hours—the food comes out piping hot on plates and utensils which remain cool—as does the range itself. No-frost refrigerator-freezers provide the ultimate in temperature control for ideal food storage and at the same time have eliminated the messy chore of defrosting. The food waste disposer and trash masher are jewels in the kitchen. With the flick of a switch, each performs beautifully, the disposer sending left-over scraps, peelings, etc. down the drain while the trash masher eliminates unsightly garbage stored in soggy paper bags. The dishpan is an antique and the time-honored phrase "your turn to do the dishes" is no longer heard for the automatic electric dishwasher has taken over this most hated housekeeping chore. Quick-recovery water heaters supply an abundance of hot water at all times. Portable appliances with signal lights that say "when" and temperatures that stay constant are electrical aids which are a must in the kitchen.

Cleaning the total electric home is even fun, especially with a central cleaning system which takes all the dust and dirt completely out of the house. This brings a world of sparkling cleanliness and freshness into the home.

Beautiful and charming brides do not become slaves as far as the laundry is concerned. Yes, the laundry is done electrically with the twist of a dial. Electric washers and dryers make for easier wash-days that are free of weather worries, keeping the clothes band-box fresh.

Electricity, the key to modern living, is the keynote to modern grooming. Each day will start right and bright as electrical appliances take over and do a far better job while they speed personal grooming. Some of these



Other ways electricity is the key to modern living in the McAdoo home is the all-electric laundry, the trash mashers, and the indoor grill.



The dishwasher, disposer, electronic oven, electric cleaning oven, and portables have taken over disliked, time-consuming chores in the modern kitchen.

aids are: hair dryers and curlers which hastily change sagging hair-do's, shavers for clean, fast, comfortable shaving, toothbrushes that keep teeth cleaner and gums healthier, manicure sets which help assure perfectly groomed nails, massage-vibrators for relaxing massages, and sun lamps which rid one of that ashed-out winter look. These electric grooming aids, along with others, help boost the ego with perfect grooming from head to toe. The sights and sounds of the



world are at your finger tips with diversified entertainment to match your mood in the total electric home. Entertainment may be from stereo, television, radio, home movies, or electrical musical instruments just with the twist of a dial or the push of a button.

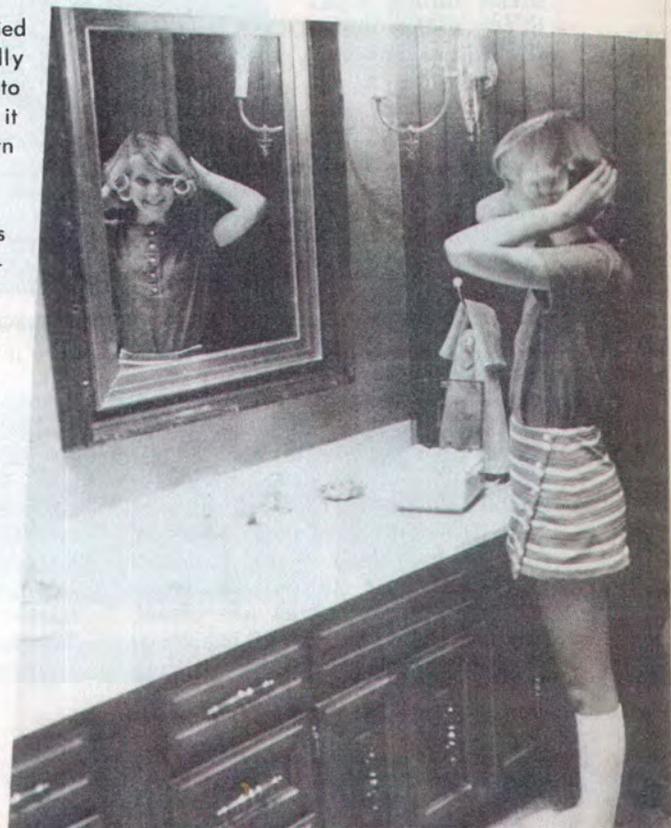
Remember, you can't see it—you can't hear it—yet it's always there—that is—tomorrow's world of conveniences and modern living are yours through total electric living.



(Above) Electric power is carried from these panels over carefully planned electrical highways to areas in the home where it opens the doors to modern living.

(Left) Mrs. McAdoo admires musical chimes on the upstairs balcony. Well-planned lighting in this area extends the hours of outdoor enjoyment and gracious living after the sun has faded from sight.

(Right) Sarah McAdoo shows another aspect of total electric living in the McAdoo home. Yes, she has her hair rolled on electric curlers, a most important grooming aid for today's teen-age lasses.



It wasn't on a race track, but years ago . . .

Incline "Rail Birds" Rode Mile-A-Minute "Horses"

By Art Edmister, Electrification Advisor
Sequachee Valley Electric Cooperative

In this age of "speed" we often think of our grandfathers as being rather slow. For example, it was an all-day trip to deliver a load of produce from Gruetli to Tracy City and return — a distance of about 14 miles one way. Or a trip from Whitwell to Nashville by railroad would consume the best part of a day. We are always in a hurry to "get from where we are to where we ain't." It would seem that our grandfathers knew nothing of "speed." This is not so! Have you ever heard of an "incline horse"?

An "incline horse" was a small homemade device used by the coal miners to get down the incline railroad after a day's work in the coal mines. The coal mines are near the top of the valley wall at approximately 1800 feet elevation. A good many of the miners working these mines lived in the valley below the mines. Today, safety rules would surely outlaw the use of "incline horses," but in the early days each man was pretty much a law unto himself when it came to safety.

In the coal fields, coal lies in seams ranging from a few inches to several feet thick. Some seams are close to the earth's surface and are mined with big shovels and draglines which remove the dirt and the rock from the seams of coal. The coal is then loaded with smaller shovels. This is called "strip mining." Other mines are classified as "drift" mines, still others as "slope" mines and "shaft" mines.

Most coal in Tennessee is mined from "strip" mines or "drift" mines.

A story written by Paul M. Dykes appeared in the October, 1951 issue of "Tennessee Topics," a magazine which was published monthly by Tennessee Products & Chemical Corporation, Nashville, Tennessee and says: "Whitwell coal mined from the famous Sewanee

Victoria of England) by the old English Coal Company. Even then, its cooking qualities were recognized and a battery of open type (bee hive) coke ovens were built at the foot of the incline.

"In 1881 Dave and Frye Nunnley sank picks into the first Whitwell opening, which later became known as Whitwell No. 1 mine, but it was not until October 1, 1886 that the Whitwell incline, which exceeds the well known Lookout Mountain Incline in length, was completed and railroad facilities made available for movement of rail shipments to a ready market. The Whitwell Mines of which No. 1 and No. 9 produced the major portion were in almost continuous operation from that time until early in 1949."

Incline railroads similar to the one at Whitwell and Lookout Mountain were also used at coal mines at Orme, Morgantown, Cartwright, Daus, Dunlap, and "At Pontley" (now known as Lusk), and it was on these incline railroads that the "incline horses" were used.

An "incline horse" was a home-made contraption

which served as a seat on which to ride down the mountain on the incline rail. A board measuring 6 inches by 7 inches served as the seat. Cleats were fastened along the front and the back edge to keep the rider from sliding off. On the underside to the front of the seat was a horseshoe shaped piece of metal which straddled the



This picture of the Whitwell Incline appeared on the front cover of the Tennessee Products News in 1943. The Whitwell Incline was still in use at that time.

seam has played a leading role in the economic and industrial life of the Tennessee Valley for more than three-quarters of a century.

"The first development of this vast and seemingly inexhaustible seam of superior quality domestic, industrial and cooking coal was first begun at Victoria, Tennessee (named after Her Majesty, Queen

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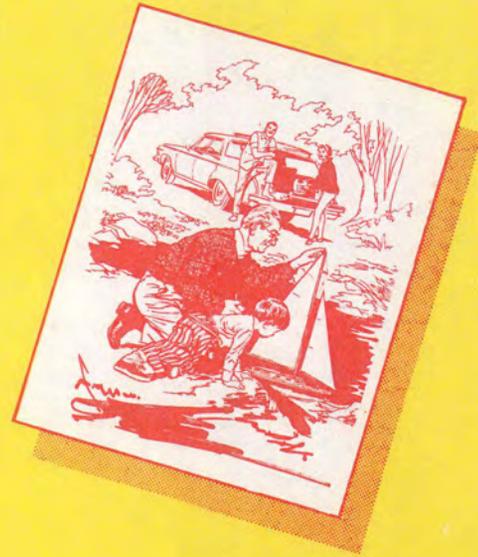
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8 EXPOSURE	.90	1.30
12 EXPOSURE	1.20	1.70
20 EXPOSURE	1.80	2.50
36 EXPOSURE	2.60	3.50

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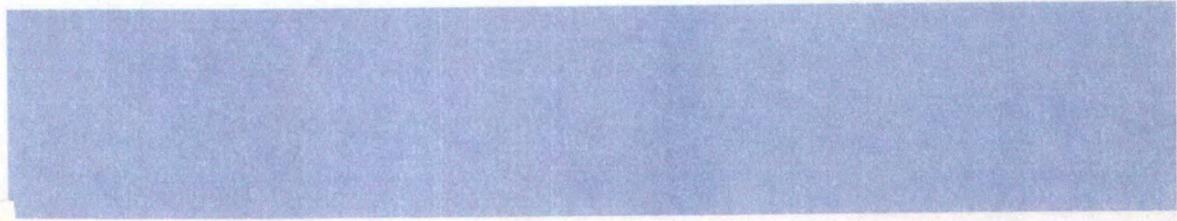
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Mr. John Prigmore demonstrates how the coal miners would sit to ride their incline horses to the bottom of the incline. Mr. John Prigmore is now 78 years old and still lives in Whitwell. Mr. Prigmore has been clocked with a stop watch riding the one mile of the Whitwell Incline on his "incline horse" in 59 seconds. What was his top speed considering that he started from a stopped position and came to a stop at the bottom of the incline — one mile in 59 seconds?

rail and served as a guide to hold the "incline horse" on the track. also could serve as a brake to slow the speed of the more timid riders. On the back of the underside of the 6" x 7" seat behind the horseshoe shaped metal was a steel roller about 1¼ inches in diameter and measuring about 2½ inches long. This roller rolled on the rail. The rider of the incline horse would place the "horse" on the rail, then seat himself on the "horse." He would hold his lunch pail in his teeth. Placing his feet — one on each side of the rail to guide him — and using a stick in each hand to balance himself, he would roll down the incline. If he leaned forward, he would put weight on the horseshoe shaped metal which served as a brake, but if he wished to go faster, he would lean back on the roller, permitting the "incline horse" to obtain top speed. At high speed, this roller would make a shrill whinnying noise. The next morning when the miner went to work, he would hook his "incline horse" to his belt and carry it back up the mountain to be used again that evening.

Some of the fastest and most daring of the riders were Hugh Rankin, Joe and Bob Creek, Earl

Houts, Walter and John Prigmore and A. Eugene Hooper. Mr. Hugh Rankin and Mr. John Prigmore and Mr. Eugene Hooper still live in Whitwell. They still have the "incline horse" which they used to ride and the old timers still talk about the speed and daring of these men. Mr. Rankin is now 85 years old, Mr. Prigmore is 78 years old and Mr. Hooper is 78 years old.

Mr. John Prigmore has been timed with a stop watch riding the one mile of the incline on his "incline horse" in 59 seconds. I am not able to calculate his top

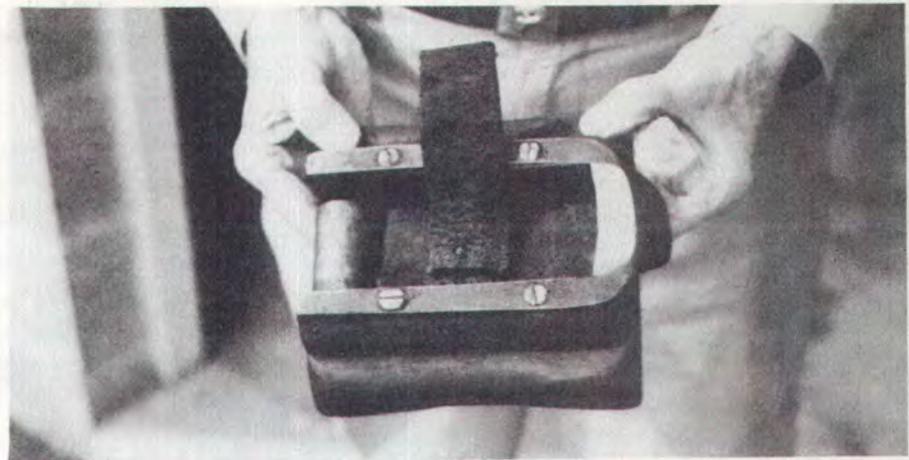
speed when I consider that he started the mile at the top from a stopped position, accelerated to his top speed, then slowed himself to a stop at the bottom — one mile in 59 seconds. It is my conviction that we "youngsters" know very little of the thrills of speed and daring.

The coal moving inclines are a thing of the past, and only the old grades remain.

The next time that you have an opportunity to visit and ride the famous Lookout Mountain Incline, think of these daring men and their "incline horses."



An "incline horse" measures 6 inches wide and 7 inches long. The underside was fitted with a piece of steel shaped like a horseshoe to guide the "incline horse" on the rail. When the rider leaned forward this also served as a brake. On the back of the "incline horse" was a steel roller, when the rider leaned back on this roller, he would obtain top speed. A beveled cleat of wood on the front and back of the seat helped keep the rider from slipping off the "incline horse". The "incline horse" on the left and the two sticks are the ones that Mr. John Prigmore used. The incline horse on the right belonged to John's brother, Walter Prigmore.



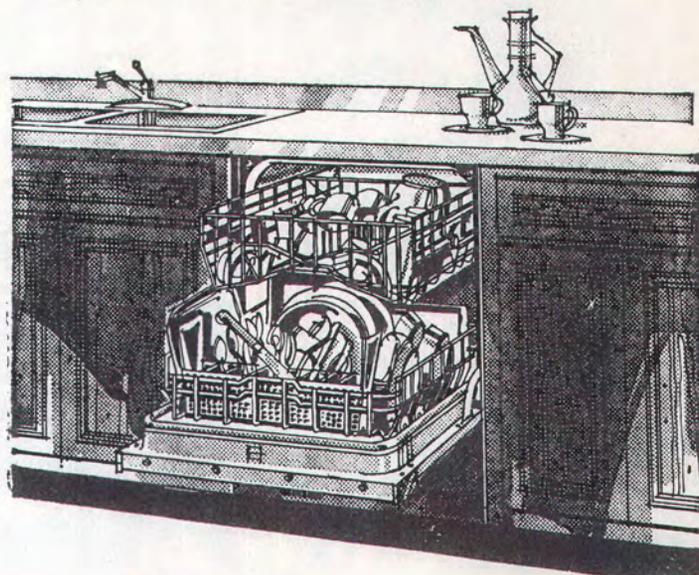
Notice the leather strap on John Prigmore's "incline horse". If the rail was wet or frosty, John would place the leather strap over the roller to slow him down. Ordinarily the leather strap would be tucked under the horseshoe shaped steel.

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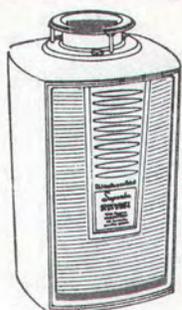
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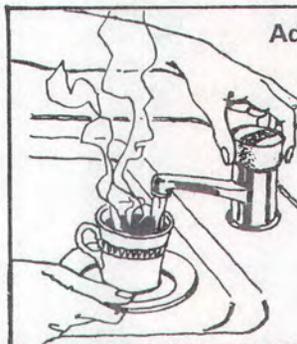
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Add a KitchenAid Hot-water Dispenser. It's like a "Built-In Teakettle."

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JULY, 1971

A LOT of LOT (Continued)

nates any buyer or seller trying to outguess the other."

Vital to the Reelfoot Feed Lot operation is the adequate and dependable supply of electricity provided by Gibson County Electric Membership Corporation. The steam process chamber requires a 150-horsepower boiler, a 75-HP roller flakes the grain content of the finished feed formula, a 50-HP motor provides an air lift from the roller mill to a storage bin, the mix mill operates with a 20-HP motor, legs in the mill house require 15-HP operation while augers and other electrically driven equipment are driven by motors ranging from 3 to 10 horsepower. An electric pump continuously circulates clean, 65-degree water to every pen in the system and through a unique cleansing method returns pure water back to the original well.

Another, but very important, use to which Reelfoot Feed Lot puts electricity to work is with lighting. Ten 1,000-watt mercury vapor lights are installed at the back of the pens and away from the feed bunks. The lights keep the cattle calm and enable them to eat at night during hot days. With the light at the back of the pens, the cattle move away from their shadows and toward the feed bunks. The lights also provide security and enable workers to move about the pens at night.

With all these uses of electricity in the pen areas, plus smaller but a number of uses within the new office building, it is reasonable to estimate that this feeding installation averages a use of from 150 to 200 horsepower at any given time, quite a lot when it is remembered that one horsepower equals 746 watts of electricity.

With the present population of 4,000 cattle on feed, the expected turnover in a given year will be approximately 9,000 head. When the planned maximum of 20,000 head is reached, the turnover per year will be 45,000.

In addition to this obvious economic impact of buying, selling and feeding this number of cattle, Reelfoot Feed Lot employs eight persons now and will employ more than twice that number at planned capacity.

Any way you look at it, the Reelfoot operation is a lot of lot.



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Tree Planting Program Means Cleaner Water For Franklin

By Dalton Rushing
Soil Conservation Service

Residents of Franklin, Tennessee, a Central Basin town of 8,000 served electrically by Middle Tennessee Electric Membership Corporation, is assured a cleaner water supply thanks to a tree planting program sponsored by the Williamson County Soil Conservation District.

The city long ago gave up on expensive and often inadequate wells, choosing instead, to rely on springs. A water line from 52 springs in the Highland Rim section carries a daily flow of 225,000 gallons of water to a modern treatment plant and then to customers along the route.

In recent years future production of the springs had become a little uncertain due to sediment from eroding open lands above the springs. H. C. Meacham, a long time District Supervisor, suggested a tree planting program on all open land in the watershed area.

After discussing the problem with city officials and Soil Conservation Service technicians, a program was started to reforest the land around the springs. To date, 70,000 loblolly pine seedlings have been planted. Every acre around the springs is now covered by pines or native hardwood trees.

The main waterline, which extends for some 15 miles, was first installed in 1910. At first the flow was by gravity but as water demands increased, pumps were installed to speed up the flow.

The first city reservoir was built in 1910 with a capacity of 850,000 gallons. Storage capacity was increased in 1963 with the installation of a one million gallon metal tank.

W. A. Whidby, Water Plant Superintendent, is confident that the 52 springs nestled in the hardwood and pine covered hills will continue to provide water for a thriving community.



H. A. Whidby, Water Plant Superintendent, observes growth of Loblolly Pine set near the springs that supply water for the town of Franklin.



First grade students at Hillsboro School line up for a cool drink of water.

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