the one for Farm News!
the one for Gospel Music!

COUNTRY JOURNAL GIVES YOU FARM NEWS EACH MORNING AT 5:45 A.M.

If you’re a farmer or have an interest in farm problems, you’ll have a viewing date every day on Channel 5 at 5:45 A.M. with COUNTRY JOURNAL, Channel 5’s Farm Director, and each morning presents 15 minutes of the latest farm news, together with a concise and accurate compilation of information calculated to help you make farming pay off.

Hank is a graduate of the University of Tennessee School of Agriculture. Has taught agriculture at Goodletsville High School and was Manager of the Davidson County Farmers’ Cooperative. His current position as microbiologist with U.S.D.A. especially qualifies him as one of today’s foremost farm authorities. He is able to recognize vital information as it is gathered throughout the South, assemble it and present it so you can make the best use of it, regardless of the size of your operation.

Hank’s guest list, a vital part of the program, includes home economists to help the farm wife, young people who are important in the field of 4-H and Future Farmers. If your problems involve the farm, help solve them with regular viewing of COUNTRY JOURNAL, each weekday morning at 5:45 on Channel 5.

**COMPLETE JANUARY SCHEDULE WLAC-TV NASHVILLE**

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**JANUARY SPECIALS:**

- **Tournament of Roses** — Monday, Jan. 2, 1967 (Color)
- **Cinderella** — Wednesday, Jan. 18, 1967 (Color)
- **Emlen Williams “Charles Dickens”** — Sunday, Jan. 22, 1967
- **The New York Philharmonic Young People’s Concert with Leonard Bernstein** (Color) — Friday, Jan. 27, 1967 — 6:30-7:30 PM

**TIME SCHEDULE**

- **EVENING**
  - 6:00-7:00 PM: Scottie Jenkins
  - 7:00-8:00 PM: Chuck Wagon Gang
  - 8:00-9:00 PM: Scottie Jenkins
  - 9:00-10:00 PM: Chuck Wagon Gang
  - 10:00-11:00 PM: Scottie Jenkins
  - 11:00-12:00 AM: Chuck Wagon Gang
  - 12:00-1:00 AM: Scottie Jenkins
  - 1:00-2:00 AM: Chuck Wagon Gang
  - 2:00-3:00 AM: Scottie Jenkins
  - 3:00-4:00 AM: Chuck Wagon Gang
  - 4:00-5:00 AM: Scottie Jenkins
  - 5:00-6:00 AM: Chuck Wagon Gang

**RONNIE PAGE IS GENIAL HOST ON FIVE’S TOP GOSPEL MUSIC SHOWS**

As Emcee for “Old Time Singing Convention” and “Heaven’s Jubilee,” Ronnie Page brings an inspirational respite from the cares and worries of the day. He accomplishes this through a subtle weaving of song moods and singing talents. The continued growth of his audiences over the past five years is convincing proof of the appeal of good gospel music.

Ronnie’s experience as a singer and Emcee with several of the top gospel groups, including the current “Chuck Wagon Gang,” gives a feel for music that is sincerely appreciated by both the live audiences and the TV viewers of his programs. “The Old Time Singing Convention” is seen Monday through Friday at 12:05 P.M. “Heaven’s Jubilee” is a Sunday presentation of Channel 5 that can be seen from 8 to 9:30 A.M.

If you have gotten into the habit of your regular viewing habits are bound to include these two programs, if you’re not already an enthusiast!

NASHVILLE'S NO. 1 TV STATION

WLAC-TV Channel 5

NASHVILLE, TENNESSEE
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State
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check here [] and attach directions.

[] I own a lot  [] I can get a lot
[] Please send floor plan and prices on all Jones Homes

HENDERSONVILLE, TENNESSEE
One of the many pleasing features of cooperative rural electrification is that it has been a bi-partisan program from its very inception and only as political as required for survival and progress.

Through the years Tennessee has been particularly blessed by election to high office of men who have been willing to stand up and be counted as far as our rural electrification program is concerned. That is why, at this time and in these spaces, it is our privilege to congratulate and wish sincere success to a Democrat and to a Republican who were elected to two of our State’s highest offices of trust and responsibility in the General Elections in November.

Featured on our cover this month is Governor Buford Ellington, whose selection as Tennessee’s Chief Executive was one of the most overwhelmingly impressive of any ever recorded in the history of the Volunteer State. Few, if any, men in Tennessee history have experienced the common touch with more of their electorate in all walks of life than has Buford Ellington. He has walked many paths, and he knows them all—from the ones made of the good earth which lead to the barns of farmers to the ones made of thick carpeting which lead to the private offices of the President of the United States, with whom he was closely associated while serving as Director of the Office of Emergency Planning.

Mr. Ellington served as Governor of the State of Tennessee from 1959-1963. He is generally credited with a highly successful administration during those four years and with leaving office in a high state of popularity, which is more of a political exception than the rule of our Chief Executives.

Governor Ellington has a proven record of support for our rural electric co-ops, as a Governor and as a member.

We wish him continued success in his second 4-year term as Governor of the State of Tennessee.

Becoming the first Republican elected to the United States Senate from Tennessee, at least since Reconstruction days, was Howard Baker, Jr. of Huntsville, Tennessee, near Knoxville, where he has had a highly successful law practice for the past several years. Relatively speaking, Mr. Baker is personally a political newcomer, although his father, Howard Baker, Sr., as Second District Congressman for many years, was one of the most able Representatives ever elected to Congress by Tennesseans, as well as one of rural electrification’s greatest friends and supporters. In only his second race for high office (he was barely defeated by Senator Ross Bass in 1964 for the 2-year unexpired term of the late Senator Estes Kefauver) Howard Baker defeated his Democratic opponent, Governor Frank Clement, for a full 6-year seat in the U.S. Senate. His margin of some 100,000 votes spoke for itself that a new political star has, indeed, risen on the Tennessee horizon.

Senator Baker has gone on written and spoken record in support of our rural electrification program. We have every reason to believe that this intelligent, able young man will attain a degree of accomplishment of the goals to which he devotes his boundless energies. And to these ends we wish him the greatest of success.
IF YOU ARE OVER 65, YOU NEED MORE THAN MEDICARE.

YOU NEED A MEDICARE SUPPLEMENT
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LOW, LOW, GROUP RATES
THE PIPE DREAM THAT CAME TRUE

By Ernest H. Whitaker
Soil Conservation Service

My phone had an urgent sound as it rang at 6:00 o’clock one frosty spring morning in 1965. "Whitaker," a familiar voice said, "I dreamed last night that I had water running out in my barn lot, and with your help we’re going to make that dream come true. Can you come down here first thing this morning?"

The spokesman was Carl Plank, a dairymen of the Goodfield Community of Meigs County, Tennessee. Samuel Coleridge might well have been thinking of Plank when he wrote, “Water, water, everywhere, and not a drop to drink.” This was just the situation that Carl was in. Every surrounding farm seemed to have water, but not his. It was hard enough trying to run a small dairy farm in Appalachia without this extra burden.

Year after year, when milk prices were at their highest, Carl’s production went down due to the low supply of water. The small amount of water that was on the farm was concentrated at one location. This resulted in poor utilization of his best pasture by his livestock.

Plank’s neighbor, Luther Roberts, had three springs that emptied on Plank’s property, but after about 100 yards the water disappeared into crevices. Carl spent many long hours trying to fill these holes, but with no success.

Plank then turned for help on his water problem to the Meigs County Soil Conservation District. He had been a cooperator with the District since April of 1952 and had called on the District technicians many times. They had helped Plank establish a mile of the best-maintained terraces in the county, 2,200 feet of diversions, three acres of grassed waterways and sixty-two acres of pasture.

Because of the cavernous nature of the soil, only one pond site could be found, and even a small dam there would back water onto neighbor Robert’s land. This problem was easily solved by Plank and Roberts filing a request with the local Agricultural Stabilization and Conservation Service Office for cost-sharing on a group practice. Construction of the pond was completed in the spring of 1964.

The pond, though greatly appreciated, was still not the answer to Carl’s prayers. Its out-of-the-way
location served but a few acres of the rolling pasture land. He needed water in several locations and ponds were just not the answer.

On the day after Plank’s dream, an elevation survey was made from the pond to the barn lot. 3,150 feet to the west. The survey revealed that there was an overall fall of seven feet. The first 2,000 feet, however, had a fall of 31 feet with the last 1,000 foot link having a rise of 24 feet. The possibility of an air-lock at the bottom of the valley loomed as a major drawback to the project. Plans were made to install one of seven faucets there to bleed the line in case this problem did indeed arise.

Only 1,000 feet of the 1½ inch plastic pipeline was installed in 1965. This line was left open to test the flow of the ponds “feeder” springs. The pipe bypassed the sink holes and supplied urgently needed water to some of the pastures below.

And as Plank says, “I guess I stopped here for a while too, because...” I wasn’t so sure that the water was going to go over that hill. It sure looked mighty steep to me.”

In June of 1966, Plank decided to install the other 2,000 feet of line. As he carefully cut the last few feet of trench into the barn lot, he had to take a lot of ribbing from his neighbors. The betting odds were running pretty high that the water would never go over the hill. A. E. Denton, farmer and sessions judge, who lives nearby jokingly stated that, “Plank and Whitaker should spend a few days in his jail and cool off a little. That hot sun has got them thinking that they can run water up hill.”

As the hour approached to turn the water on, a few neighbors began to gather to watch the fun. The last joint was tightened and starting at the pond end of the line, the taps were turned on and out poured the water. The faucet in the ravine was bled of air with a whooshing sound. Plank let out a big yell and sent his straw hat sailing in the air as the water rushed from the faucet on the barn end of the line. The water was “over the hill.”

Many people have estimated that Plank’s water system has raised the value of his farm by as much as $8,000. It has already helped pay for itself in supplying gravity irrigation water to three-tenths acre of tobacco located near the barn lot. When he gets the seven planned water troughs installed, he will have an abundance of water for his dairy herd. The troughs will be controlled with automatic cut off valves.

In addition to the technical aid furnished by the Soil Conservation Service, the Agricultural Conservation Program shared in the cost of the pipeline.

You can’t get many of the Goodfield farmers to admit that they bet the wrong way, but Carl has been seen smoking some mighty good cigars lately. He just grins and says, “I knew the water would come, I dreamed it would.”
Up to $5200 paid direct to you (not to hospital)

NEW PLAN FOR WHOLE FAMILY
PAYS YOU $100 A WEEK
for up to 52 weeks of Hospitalization

Specially developed to cover what Medicare leaves out

WE INVITE YOU TO COMPARE RATES
We pass savings on to you. The new Buckingham Family Hospitalization Plan saves you money in lower rates 2 ways: (1) Salesmen’s charges and physical examinations are omitted. (2) Costly one, two and three day claims are omitted. Your benefits start with the fourth day of hospitalization in case of sickness. NOTE, however, that benefits begin the first day in case of injury.

COMPARE BENEFITS—ESPECIALLY WITH MEDICARE
1. Our Plan covers everyone in family, old and young. This is a Plan that helps free you from worry about your entire family. We send $100 TAX-FREE CASH direct to you every week—up to 52 weeks ($5200)—of hospitalization for each covered member of your family over 18 paying full rates. Half rates and half benefits apply to family members under 18.

So our Plan fills the big gap in Medicare which provides only for the elderly.

2. We cover both sickness and injury. Our Plan covers hospitalization for every conceivable kind of accident and sickness except: pregnancy, childbirth or complications of either; pre-existing conditions; intoxication (of a covered person); unauthorized use of narcotic drugs; mental conditions; injury or sickness due to war or any act incident to war. Hernia is considered a sickness, not an injury. Confinement in a government hospital is not covered, nor is any person covered while in armed services of any country (but in such cases, a pro-rata refund of the premium would be made).

3. We pay $5000 auto accident death benefit. If you die within 60 days as the result of an accident to any automobile, in which you are riding or driving, we pay $5000 to your beneficiary.
DO THIS TODAY!
(Don't delay. 50,000 people enter hospitals daily.)
Start your protection immediately. Fill out application below. (Make close
comparison of these amazingly low rates.) Then mail application right away.
Upon approval, your policy will be promptly mailed. Coverage begins at
noon on effective date of your policy. No salesman will call. No physical
examination needed for this plan, you will be paid $14.28 a day.

IF YOU PAY PREMIUMS IN ADVANCE FOR 11 MONTHS,
YOU GET THE 12th FREE!

PAY MONTHLY PAY YEARLY
Each Adult 18 to 65 $2.40 $26.40
Each Adult 65 to 75 4.15 45.60
Each Child 17 and under 1.15 12.60

HERE ARE TYPICAL FAMILY COMBINATIONS:
Man and Wife 18 to 65 4.80 52.80
Man and Wife 65 to 75 8.30 91.80
Man and Wife 18 to 65
and 1 Child 5.95 65.45
Man and Wife 18 to 65
and 2 Children 7.10 78.30
Either Parent 18 to 65
and 1 Child 3.55 38.05

NOTE: For children under 18, you pay half rates—and get half benefits. When
they reach 18, simply write us to change to full rates and full benefits that
apply for conditions contracted after that time.

25c is all you send
with application below
for first 30 days coverage

APPLICATION FOR HOSPITAL INCOME
for family or individual—covering hospitalization from sickness or injury with $5000 auto accident death benefit

BUCKINGHAM LIFE INSURANCE COMPANY, Executive Offices: Libertyville, Illinois

30 DAYS COVERAGE ONLY 25c

I'm enclosing 25c in coin. Please send me your Hospital Income Policy in force for 30 days—just as soon as my application is approved

Tearing out and mail today before it's too late

BUCKINGHAM LIFE INSURANCE COMPANY, 1008 No. Milwaukee Ave., Libertyville, Illinois
Storage is a place for everything to have a place

By Elizabeth Kendall
Home Economist
Southwest Tennessee E.M.C.

There are many features which develop a house into a home, one is sufficient storage. Thoughtful, careful planning can create in all the rooms in the house usable storage spaces which will make the four walls into a home of convenience. Each room has individual purposes and uses. The tasks to be done and the individuals who will be occupying and using the room most should be considered in planning the storage.

Storage should be planned to make for good organization of all the contents. For example, a bedroom closet needs to be of sufficient size to allow for storage of out-of-season clothes, preferably in garment bags, as well as, having good room for storage of the clothes which are being used. Two

Mr. Ray Wells, Beech Bluff, Route 6, Jackson, is opening their table top cabinet, which they find to be a great convenience when the family is small in numbers, for their everyday meals. Too, this table top gives a fine work surface when more space is needed for meal preparations near the kitchen.

Mrs. Wayne Monk, Route 5, Jackson, planned for a series of divided sections to hold cookie sheets, pie pans, and cake pans as part of her kitchen utensils storage area. This arrangement makes them readily accessible.

Levels of clothes' rods are most desirable for men's, women's, and children's closets. Such arrangement makes it possible to hang skirts, shirts, blouses, and such short items in one area, and hang longer clothing on higher rods.

Shoe storage, luggage, hats, and other personal attire need sufficient room, planned.

Storage for camera and all of the supplies, along with projector, screen, and picture albums need plenty of shelves and drawers for placing. Often record players with albums can be shared in their storage, out of view and the collecting of dust when not in use.

A planning desk area with a telephone near the kitchen is a grand place for the storage of recipe books, family bills, and files in the deep designed drawers.

Adjustable shelves in closets and pantries often help provide extra storage space; also, these help to make cleaning easier.

Drawers constructed under built-in ovens can be adjusted to depth which will store tall and unusually sized pieces of cooking equipment as stemmed cake pans, roasters, deep cooking vessels.

Mrs. Jerol Hopkins and daughter, Vicki, Route 4, Covington, are finding the deep sectioned drawer under the oven in their new home very useful and valuable.

Mr. Hollis Matlock, Route 2, Beech Bluff, Tennessee, has built storage shelves and a drawer in the corner of his kitchen cabinets. These conveniently open on the family room side of the area.

Mrs. Charles McKay, Route 3, Bells, used the cabinet space around her standard drop-in-range, for pull-out racks to suspend on hooks varied pieces of cooking and mixing pieces. The electric range door is removable and makes oven cleaning much easier. Beneath the drop-in-oven Mrs. McKay has pull-out drawer for ready storage of her cooking utensils.

10

TENNESSEE MAGAZINE
A double convenience outlet located at the end of the pass-through cabinets is a great help to Mrs. C. H. Stuart, Stanton. The graduated sizes of drawers were planned for the varied types of materials which will be stored inside.

Adjustable shelves in a food storage pantry are most satisfactory and economical for space in the kitchen area of Mrs. C. H. Stuart, Stanton, Tennessee.

A storage closet near the back door’s entrance is a great time saver. In such a closet Mrs. Charles McKay, Route 3, Bells, hangs rough weather coats, jackets, yard shoes, and brooms. This location makes these things accessible for either leaving or entering the house.

Mr. and Mrs. Ray Wells are seated at the opened table as it is used for their meals, when they are not using their dining room.

Mr. and Mrs. Jimmie Tyson, Route 1, Denmark, did many hours of detailed planning for the many convenient storage areas in their new home. In their master bedroom, the closet used by Mrs. Tyson has rods located at different heights in order to have shirts, jackets, and such short wearing apparel separated from a rod which holds larger things as robes, top coats, etc.

Recipe to Help Yourself-Stew

These techniques if followed for six months will make you and everyone around you miserable:
1. Always put yourself first and continue to talk about what "I" did;
2. Continually talk about your aches, pains, and the many troubles you have;
3. Keep remembering the wrongs done to you;
4. Never smile and see the bright side in any subject; and
5. Pick your friends and neighbors to pieces.

Such actions can cause a strong person to become weak, uninteresting, and boring.

Recipe for Christian Living
Blend 1 cup of Love with ½ cup of Kindness;
Alternately add in small portions:
1 cup of Appreciation and 3 cups of Pleasant companionship
into which has been sifted 2 heaping tablespoons of Deserving Praise.

Flavor with 1 teaspoon of Carefully chosen Advice. Lightly fold in 1 generous cup of Cheerfulness, to which has been added a pinch of Sorrow; Four with Tender Care into Clean Hearts, and let bake until well matured. Turn out on the Surface of Society; Humbly invoke God’s Blessing, and it will Serve All Mankind.

Anonymous
DEEP DISH
CRANBERRY CHICKEN PIE
1 cup fresh cranberries
2 cups chicken stock or bouillon
1 medium-sized onion, chopped
2 cups light cream
1/4 cup butter
1/4 cup flour
2 teaspoons gravy coloring
Salt and pepper to taste
4 cups diced, cooked chicken or turkey
1 package (10 ounces) frozen peas, thawed
1 cup cooked sliced carrots
1 can (1 pound) whole onions, drained
1 can (4 ounces) sliced mushrooms, drained
1 package pie crust mix

Combine cranberries, chicken stock and chopped onion in a saucepan. Bring to a boil, reduce heat and simmer for 10 minutes, stirring occasionally. Remove from heat and press through a sieve. Stir in cream. Melt butter and blend in flour. Gradually stir in strained cranberry mixture. Add gravy coloring. Cook over low heat, stirring constantly, until mixture boils and thickens. Season with salt and pepper. Combine remaining ingredients except pie crust in a shallow 3-quart casserole. Prepare pie crust mix according to package directions. Roll out on a lightly floured surface into a circle that is about 1-inch larger than the top of the casserole. Place pastry over filling, sealing crust to edge of casserole. Cut a few slashes in the top to allow steam to escape. Bake in a hot oven (400° F.) for 35 to 40 minutes, or until crust is golden brown. Makes eight to ten servings.

CRANBERRY-VEGETABLE LAYER SALAD
2 cups fresh cranberries, coarsely ground
2/3 cup sugar
2 cups boiling water
1 teaspoon salt
2 packages (3 ounces each) celery-flavored gelatin
1-3/4 cups cold water
4 teaspoons vinegar
1-1/2 cups chopped celery
1/4 teaspoon monosodium glutamate
1/4 cup chopped green onion
3/4 cup coarsely chopped water cress or spinach

Combine cranberries and sugar; let stand until sugar is dissolved. Add boiling water and salt to gelatin and stir until gelatin is dissolved. Stir in cold water and vinegar. Chill until thickened. Divide thickened mixture into three parts. Add cranberry mixture to one part and pour into a 2-quart mold or a 9 x 5 x 3-inch loaf pan. Chill until set. Fold celery and monosodium glutamate into second part of gelatin mixture and pour into mold over set cranberry mixture. Chill until celery layer has set, then fold water cress and green onion into final 1/3 of gelatin mixture. Pour over set celery layer. Chill entire salad until firm. Makes eight servings.

Cranberry Chicken Pie
Good winter ventilation of livestock buildings can mean increased profits. Well ventilated livestock quarters reduce sickness and provide greater feed efficiency. The buildings and equipment last longer too because less moisture in the air causes rust and rot.

Good winter ventilation maintains a suitable temperature, removes excess moisture and provides sufficient fresh air for health. That's a big job when you consider that 1,000 hens release about 30 gallons of moisture daily and that one 1,400-pound Holstein cow gives off 3,500 British thermal units (BTU) of heat an hour.

Ventilation needs vary with the type and age of the animals and with the seasons. Many authorities advise that winter ventilation should be about half that of summer. But it must be better planned and controlled.

Insulation is important. It keeps animal heat in the building so that incoming cold outdoor air will not need artificial heat. "We insulate to hold heat—so we can ventilate" is the way one researcher puts it. An accepted standard is an R factor of 10 for the walls and 15 for the ceiling. These can be achieved with two-inch blankets in the walls and four-inch batts or six to eight inches of loose insulation in the ceiling.

Air movement is also important, regardless of the temperature. That's why many farmers use a combination of time-switches and thermostats to control their fans. During moderate weather, the thermostats turn the fans on and off to maintain the desired temperature. In weather too cold to trip the thermostats, the time-switches will take over and operate the fans for a short time every few minutes to keep fresh air in the building.

One of the secrets of success in winter ventilation is placing the fans on the downwind side of the building so they do not blow against the prevailing winds. Another secret is selecting fans of the right size for the number of animals in the building. Sows with litters should have 8.5 to 9.5 cubic feet per minute (CFM) of air while a 200-pound hog needs 10 to 11 CFM, according to one authority. For poultry one cubic foot per minute per pound of bird is sufficient.

If the fan motors do not have built-in overload protection, proper fusing must be used. Totally enclosed motors are more costly than open-frame motors but their construction protects the starting mechanism and windings from corrosion by the moisture and fumes in the air. If maintenance is likely to be neglected, sealed ball bearing motors are worth their extra cost. Motors of one-half horsepower or larger should be operated on 230 volts.

Self-closing shutters are a must to prevent unwanted drafts when the fans are not running. Fans used only in summer should have winter covers that seal tightly.
MY DOG AND I

My dog and I are the best of friends
We play from early morning
Until the daylight ends.
When I come into the house and take a seat,
He comes in too
And lays down at my feet.
Some people may say he isn't worth his keep,
All he wants to do is play and sleep
But I don't care what people say
I love a dog that loves to play.
When his life is over, I guess I will cry,
Because we are the best of friends
My dog and I.

Eddie McCullar
120 Baker Road
Selmer, Tennessee
Pickwick Electric Coop

HOLIDAY PRAYER

This Holiday, I ask you, God
For all the aid we need—
That we might practice safety first
In every thought and deed—
To cherish and protect us all
And give us help to know,
The safest way to have our fun
Wherever we may go.
Bestow Your blessing on us all,
And keep us in Your care
And let our Holidays each year
Become another prayer.

Elaine Pearson
Route 6
Rogersville, Tennessee
Holston Electric Coop

Cindy Smith
Route 4
Henderson, Tennessee
Age: 13
Southwest Tenn. Elec. Memb.

Wayne Odum
Route 1, Box 103-D
Hohenwald, Tennessee
Age: 17
Duck River Elec. Memb., Corp.

Loanna Davis
Route 2
Maryville, Tennessee
Age: 16
Tipton-Lavoloum Electric Coop

Wade Ervin
Route 1
Smithville, Tennessee
Age: 17
Caney Fork Electric Coop

Send all items to:
UNCLE JOHN, The Tennessee Magazine
710 Spence Lane, Nashville 10, Tenn.
SHOULD CROPS BE FERTILIZED IN FALL OR SPRING?

Should farmers apply fertilizers to spring-seeded row crops in the fall instead of waiting until spring, as has been the usual practice?

"Research indicates that phosphorus and potassium can generally be applied in the fall without appreciable losses or reduction of crop yields," says Donald D. Howard, University of Tennessee Extension assistant agronomist. "However, nitrogen applied in the spring has been found to be more efficient for crop production than when applied in the fall."

University of Tennessee research has shown that applying the entire nitrogen recommendation in the fall did not significantly increase wheat yields over non-nitrogen fertilized plots. Three-year results indicate that fall-applied nitrogen is about 40 per cent as effective as spring applications of nitrogen.

"However, there is some indication that split applications of nitrogen on small grains (one-fourth to one-third applied in the fall and the remainder in the spring) have approximately the same effect on yield as applying it all in the spring," he points out. "Other research in the South has shown that fall-applied nitrogen, regardless of source, is approximately half as effective as spring-applied nitrogen for corn production."

Fall applications of nitrogen should be used only under conditions where over-winter losses are small, suggests Howard. This would be generally in the northern areas where the soil remains frozen during the greater part of the winter. In warmer temperatures, as found in Tennessee, nitrogen is converted to the nitrate form by soil micro-organisms and is subject to leaching from the soil.

The principal sources of nitrogen losses are generally thought to be from water runoff, water leaching, and losses as a gas caused from soil micro-organism activity during periods of warm weather.

DON'T GRIND HAY FOR DAIRY COWS

Grinding does not increase the digestibility of hay for dairy cows, says Ray Spann, University of Tennessee Extension assistant dairy husbandman.

"Several feeding trials show that cows will not get the nutrients from ground hay that they will from long hay of the same quality and quantity," he adds.

The cow will digest seven per cent more of the dry matter in long hay than she will in the same hay if it has been ground, according to studies, he points out. She will also digest 33 per cent more of the fiber in long hay than if it is ground.

"There is good reason for this difference in digestibility," explains Spann. "Ground hay passes through the rumen twice as fast as long hay. Therefore, the rumen organisms do not have as much time to break down the smaller particles of ground hay into simple nutrients."

Dairymen do not like to see the butterfat test on their herd go down, he observes. More than one study has shown that the butterfat test will be lower if a large part of the forage ration is ground hay.

The actual cost of grinding hay for dairy cows is increased by $4 to $5 per ton, he says. This does not include the cost of the labor and transportation if the hay is hauled to a mill.

FARM BRIEFS

Forest tree seedlings are now available from the Tennessee Division of Forestry Nursery, says a University of Tennessee Extension forester. Orders should be placed now to assure delivery when the trees are needed.

Burley tobacco growers should display their tobacco on the sales floor in the most attractive manner possible, advises a University of Tennessee Extension agronomist. The first impression the buyers get of a basket usually provides the basis of their bidding.
Hello! I’m Miss Dem O’Cracy. One day not long ago I was looking into my crystal ball and saw two men whose conversation was very disturbing to me. These men were discussing electric cooperatives.

Mr. In Thedark stated dogmatically, “Well, I think they should go out of business. I mean, after all, they have served their purpose. They were organized to get electricity to the people in rural America. I haven’t seen anybody lately who doesn’t have electricity.”

“You mean you think democracy has served its purpose and should go out of business?” asked Mr. All Cluedin, a dear friend of mine.

“Who said anything about democracy?” asked Mr. In Thedark. “I was talking about electric cooperatives.”

“So was I,” answered my informed friend.

“How?” wondered Mr. In Thedark.

Electric cooperatives were, indeed, started to get electricity to rural America at reasonable rates. It is true, too, that nearly every American who wants electricity can get it. But is it not also true that America is constantly growing? It is estimated that the amount of electricity needed in America will more than double by 1970. Because of this enormous increase in the power needed, the cooperatives will have to build new lines, heavy-up present lines, add new equipment, and increase employment. In expanding their own operations to supply the needed power, they are contributing indirectly by creating more jobs in the equipment and appliance factories and by increasing the employment in the cooperatives themselves. How could democracy be more in action than through the cooperative effort of the people in satisfying their needs.

“Since their organization in the early 1900’s, the cooperatives have been owned and directed by the people who use the power. Each person who pays for electricity furnished by a cooperative owns membership in the organization and receives the benefit of the best possible service at the lowest possible price. Every individual member possesses one vote which he should cast at each annual meeting. At this meeting, a Board of Trustees is elected. The trustees then hire a manager for the local cooperative, and together they carry on this big business. Thus, in the same way that the American people elect government officials to represent them in the operation of their country, the members of an electric cooperative elect their officials to represent them in the operation of their cooperative. This is obvious that rural electric cooperatives are Democracy in Action.

“Democracy has not stopped with the building of America, and neither have the electric cooperatives stopped with the electrification of rural America. Wherever democracy goes, electric cooperatives are close at her heels—from the Andes Mountains of Latin America to the jungles of South Vietnam. As long as there are people who are in need and are willing to work in order to help themselves, there will be a place for electric cooperatives.”

While I watched my crystal ball, I observed there was no longer a Mr. In Thedark, but now there were two Misters All Cluedin. I breathed a “Thank you” to my friend. He had proved to Mr. In Thedark and to all of us that electric cooperatives are Democracy in Action! A happy Barbara Hinton receives a letter of certification from TECA President William Towers verifying that she is the Essay Contest winner for 1966 and that she will receive a $500 scholarship payment from the organization as soon as she is officially enrolled in the college of her choice.
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SEARS CATALOG SALES OFFICE
Volunteer Views
by J. C. Hundley
Executive Manager, TECA

The Tennessee General Assembly, which convenes the first week of this month, will have hundreds of bills introduced for its consideration and, in turn, passage or rejection. And insofar as you, as a member of an electric co-op, are concerned none will be more important than three which are proposed by the Tennessee Electric Cooperative Association, your State Association of Electric Cooperatives.

Let’s take a quick look at the three and what they mean to you and your neighbors.

The first proposal is one which, if enacted into law, will permit electric co-ops to continue electric service to areas which have been annexed by municipalities. We certainly have no arguments against the rights of existing towns and cities to extend their corporate limits so long as this action is taken as much for the benefit of the people as it is for the municipalities’ tax coffers. But we do have numerous arguments if favor of permitting the cooperatives to continue service to the same areas and to the same members to whom they brought electricity in the first place. The availability of this electricity outside the city limits has been largely responsible for the residential build-up which some municipalities have annexing, and which others would like to do. TECA’s legislative proposal will not oppose annexation, but it will insist on continued electric service by co-ops to the areas which they have electrically developed and historically served. With the municipalities constructing and/or providing such new services as water, sewerage, police and fire protection, most will have about all the financial outlay that they can afford and should welcome the long-established and splendid electric service being provided by the electric co-ops to the areas to be annexed. In reality, the proposed legislation opens new avenues of cooperation between the electric co-ops and municipal systems in providing our people with the best possible service of ALL types.

A second bill proposed by TECA will make it mandatory for all mobile homes brought into Tennessee for residential purposes to have a high degree of electrical excellence in construction OR to pass a rigid inspection before they can receive electric service in Tennessee. The reason for this proposal is that most mobile homes are built in areas where electric rates are high and, because of this fact, the mobile homes are constructed for low usage of electricity. When such a lightly-wired home is brought into Tennessee, our low electric rates makes the owner want to run everything electrically. Unfortunately, all homes aren’t wired for such heavy duty electrical usage. Any legislation, needless to say, which saves lives and property is good.

The third bill to be proposed by TECA will make it mandatory for all mobile homes brought into Tennessee for residential purposes to have a high degree of electrical excellence in construction OR to pass a rigid inspection before they can receive electric service in Tennessee. The reason for this proposal is that most mobile homes are built in areas where electric rates are high and, because of this fact, the mobile homes are constructed for low usage of electricity. When such a lightly-wired home is brought into Tennessee, our low electric rates makes the owner want to run everything electrically. Unfortunately, all homes aren’t wired for such heavy duty electrical usage. Any legislation, needless to say, which saves lives and property is good.

The third bill to be proposed by your Statewide organization is aimed at putting more teeth into existing laws against those who steal—and those who knowingly buy from the thieves—copper wire stolen from electric distribution systems. The theft of copper distribution wire is costing your systems—and you as members, whether or not you feel it directly—many thousands of dollars. And stealing copper wire, which can cost the thief his life if energized, is little if any worse than buying copper wire which the purchaser knows has been stolen. The TECA proposal would firm up the joint criminal liabilities of both the thief and the buyer of stolen copper wire, placing both actions under the category of larceny.

Your Statewide organization and your local electric co-ops deeply feel the worth and need for these proposals to be enacted into law in your best interests as co-op members. We earnestly solicit your cooperation in contacting and urging your State Senators and Representatives to work for the passage of these three legislative proposals.
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Saluting Morton Dorset, one of the six men from the Volunteer State who have been permanently enshrined in the Tennessee Agricultural Hall of Fame

A Staff Report

The Tennessee Agricultural Hall of Fame has for its purpose the bestowal of lasting honor to Tennesseans who have "rendered distinguished service in the science and art of Agriculture."

This recognition is in the form of bronze plaques which were unveiled and placed in the State Capitol, Nashville, and in the College of Agriculture at the University of Tennessee, Knoxville on June 12, 1951.

Six Tennesseans have been honored thus far in the history of the Agricultural Hall of Fame.

This is the story of Marion Dorset, one of these distinguished men.

The wording on one set of these bronze plaques in the Hall of Fame gives us a quick prophesy of Dorset's vital statistics:

1872—Born Columbia, Tennessee
1894-1898 Expert Assistant Chemist, USDA
1898-1904 Assistant Chief, Biochemical Division, USDA
1904-1935 Chief, Biochemical Division, USDA
1935—Died, Washington, D.C.

Marion Dorset was the discoverer of the virus origin of hog cholera serum, which saved the swine industry from twenty million to seventy-five million dollars annually. He also developed tuberculin for bovine tuberculosis and perfected the control methods for poultry pullorum. Any one of his many accomplishments in his chosen field could have secured a lasting place for him in the Tennessee Agricultural Hall of Fame. But the one achievement for which Dorset is best remembered is his conquest of hog cholera, and now we come to the meat (or pork) of the story.

In order for us to know more about the man and the research which resulted in the discovery and development of the serum for hog cholera, we must journey back in time...back more than three quarters of a century...

The year was 1887. More than six million American hogs were dead of cholera—135 out of every 1,000—and the disease threatened to destroy the entire swine industry. Losses were estimated at 75 million dollars in that single year.

In those days Governments—National or State—did not usually concern itself with individual predicaments, but those alarming figures changed all that and demanded that the United States Department of Agriculture turn its full attention to hog cholera.

The nation was awake and clamoring for an answer. Cholera had crippled the hog industry and breeders were frantic. Losses were too great for a breeder to risk raising hogs. There was no apparent way to eliminate cholera and the chances of making a profit breeding hogs were slim and none. Hogs were too important to the economy for the Government to ignore the national losses caused by the ravages of hog cholera. Farmers were thinking of literally giving up hog breeding when the U.S. Department of Agriculture acted.

The USDA Secretary, J. Sterling Morton, called upon Dr. Charles W. Dabney, who was then President of the University of Tennessee and Dabney in turn called upon an obscure Tennessean who was then a medical student at the University of Pennsylvania. The med student's name was Marion Dorset of Maury County, Tennessee.

Dorset was of medium height and stockily built and he was quite the scholar. In fact, it was his academic accomplishments rather than his physical attributes which led to his selection as the man for the job.

He was quickly briefed on the critical situation. He learned that the Department of Agriculture had already given much thought, money and experimentation to get to the facts of hog cholera and Dorset at once agreed to join the fight against the dread disease. His terms with hog cholera were simple: unconditional surrender. He began...

It was to be a long struggle from the discovery of the filterable virus which was the true causative agent of hog cholera to the discovery of the now widely used preventive serum, but Dorset began with a resolve to emerge victorious and soon his great goal was accomplished. Innumerable experiments, tests, checks and cross-checks were made, and from them a number of conclusions were drawn. One of these was that "when hogs immune from hog cholera are injected with suitable amounts of virulent blood taken from hogs sick of hog cholera, the blood serum of the immune acquires the power to protect non-immune hogs from an otherwise fatal dose of disease-producing blood administered simultaneously with the serum."

This conclusion was but one step from the successful end of the study made by Dorset and his associates which established the Virus Origin of Hog Cholera and forever buried Bacillus Cholerae Suis. Cholera was used to protect hogs against cholera, as the germ itself, when injected, served as a pre-requisite to permanent immunity.

Dorset's experiments had proven successful and the 75 million dollar problem was solved—and with a mere fifty thousand dollar research budget. The Anti-Hog-Cholera-Serum was perfected and patented and given freely to the public. The desired end had been reached by an inquiring, hard-headed Tennessean named Marion Dorset. Hog cholera had been conquered.

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By Erma Angevine,
Coordinator of Women's Activities, NRECA

Two Denver supermarkets lowered prices and increased sales in mid-October because of a threatened boycott from women organized as Housewives for Lower Food Prices.

The women threatened to boycott five supermarkets and urged other women to join them in a drive to get food costs down. One supermarket met the threat with a 10% cut in everything except cigarettes and beer.

Officials of another Colorado chain of supermarkets voiced surprise that women were concerned with prices. The vice president told newsmen, "We interviewed several hundred women and found that 86% of them favored lower prices." The 43 stores in the chain were closed the first day of the boycott and 2,000 employees began marking 6,000 items down 10 to 20%.

Meanwhile, shoppers in Carlsbad, New Mexico, announced plans to form a price-busting group and to urge others to do the same all over the land.

In Little Silver, New Jersey, women set up HELP—Housewives Expect Lower Prices. They organized letter-writing campaigns to the President, Senators, Congressmen, and Federal and state agencies, seeking a Federal investigation of rising food costs.

In Portland, Oregon, some 30 stores fought a price war touched off by consumer pressure. In some instances, milk sold for 18¢ a gallon, bread for 8¢ a loaf, and bacon for 68 cents a pound.

Shoppers in Phoenix announced they had forced down bread prices with their boycott. They also began a campaign against sales gimmicks like trading stamps, bingo, and other games, which they claim raise food prices as much as 3%.

Spurred on by these and other consumer boycotts, Esther Peterson, Assistant Secretary of Labor and Special Assistant to the President on Consumer Affairs, asked the Federal Trade Commission to investigate selling gimmicks. "I want to know how much we are paying for extras," she told Paul Rand Dixon, FTC Chairman.

Boycotting consumers tell newsmen they are not opposed to supermarkets making a profit. They also know they put more than food in their shopping carts. One Denver woman said, "Supermarkets got our business because they're one-stop markets. We know that. We can go back to buying food from the corner grocer."

According to one Colorado State Representative, she's right. "The Denver housewives are boycotting the right people," John Baer said. He cited the National Commission on Food Marketing hearings showing that chain stores try to eliminate competition, resulting in high food prices and high chain store profits. He said the major chains hold down prices to the farmer-producer and raise prices to the retail buyer. He called for a Congressional investigation of trade practices of food chains. When consumer boycotts get Congress to act, he said, "The farmer, the processor, the transporter, and the public will benefit."

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