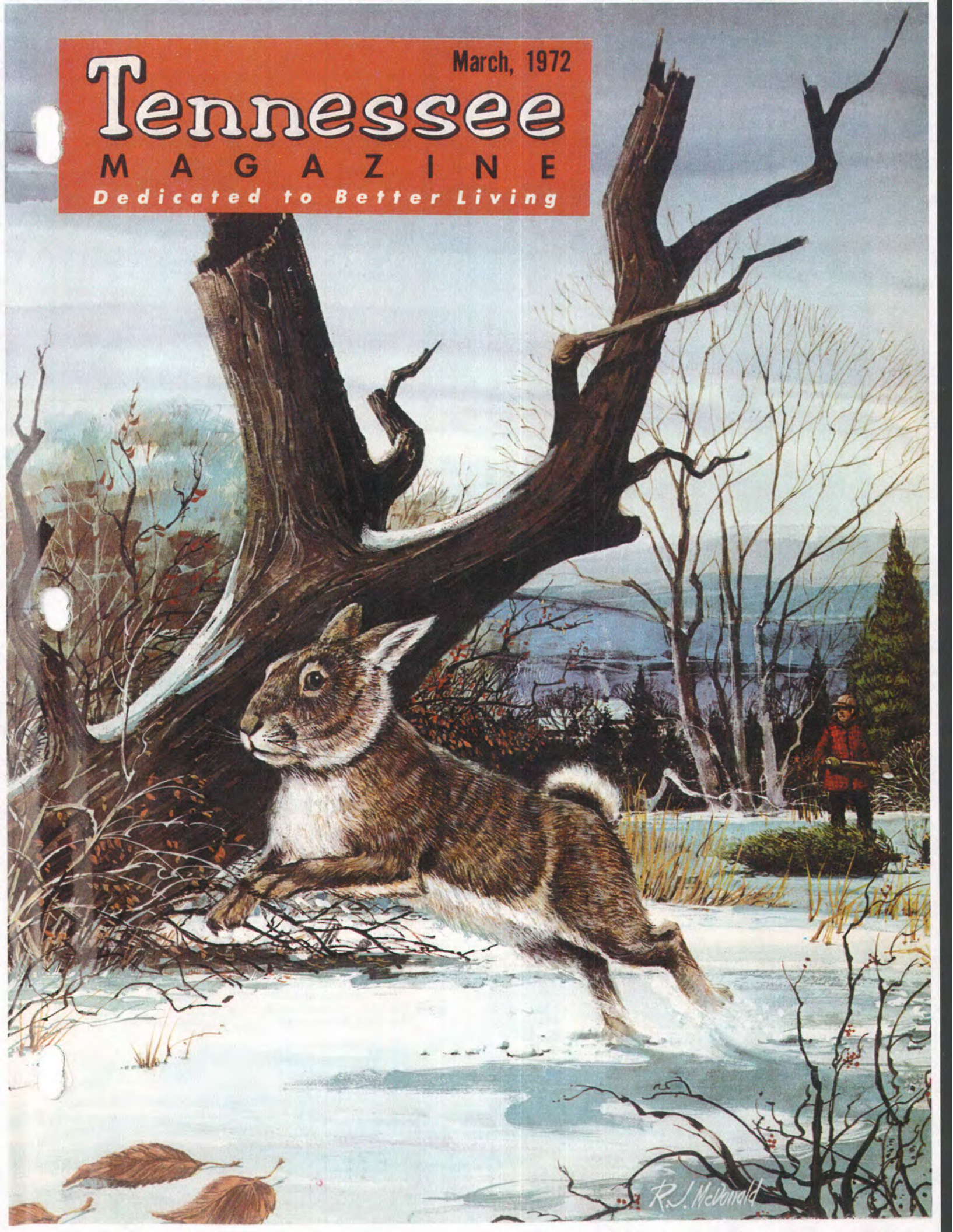


Tennessee

March, 1972

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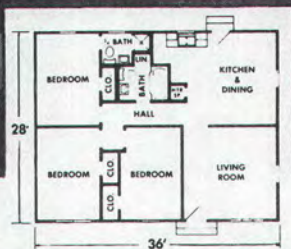
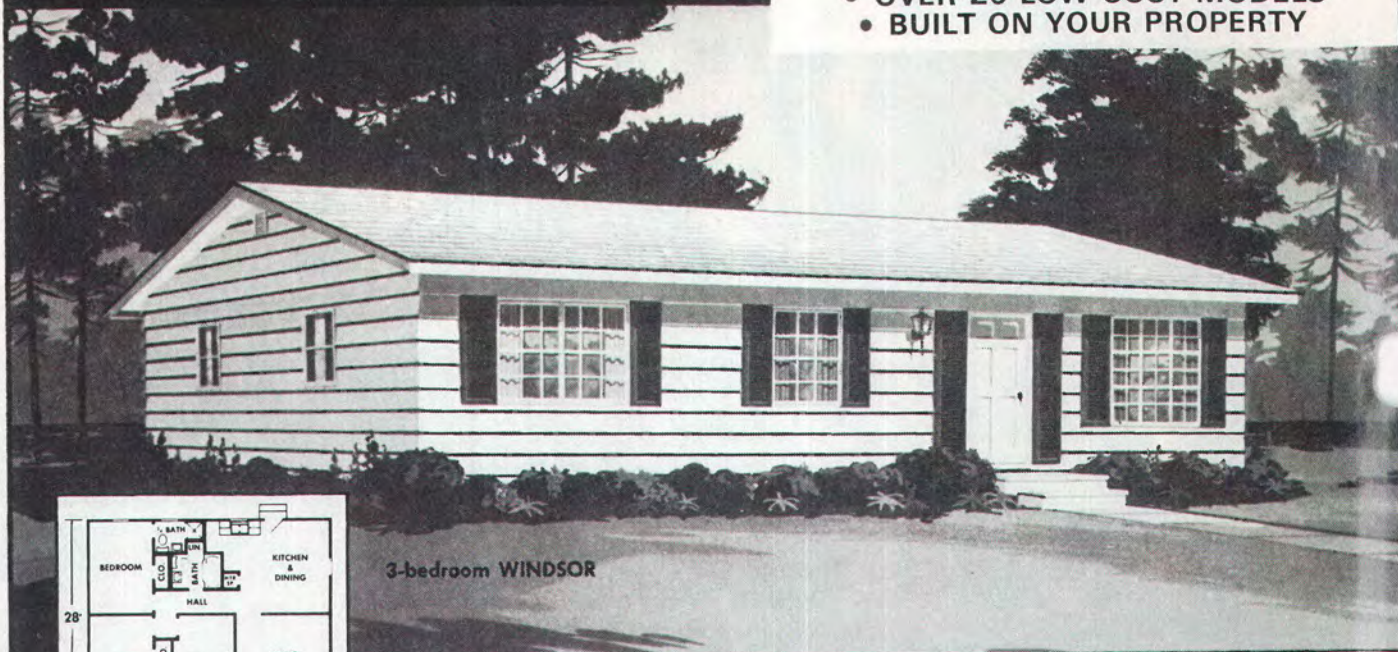
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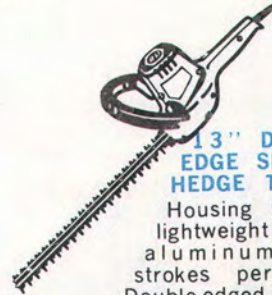


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ON THE COVER

For the second month in a row, our cover has been provided by Tennessee Wildlife Illustrator Ralph McDonald. Information on how to secure a lithographic print suitable for framing of this and/or last month's Deer cover may be found on Page 19.

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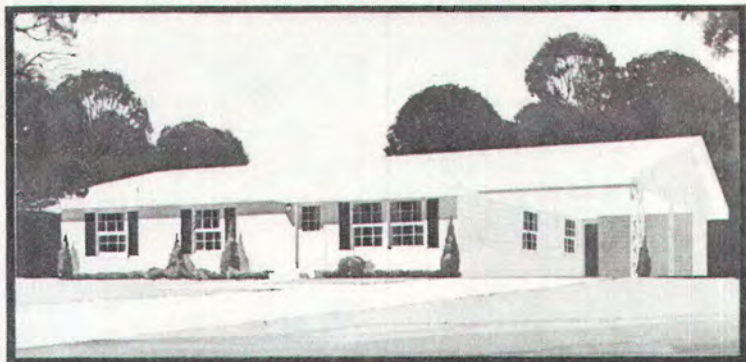
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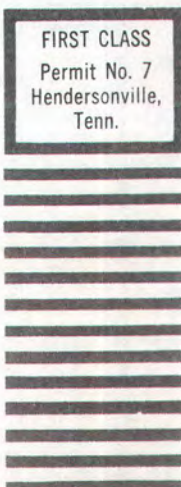
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To The Senior Citizen Addressed:

On January 1, 1972, certain changes were made concerning MEDICARE which you should know about as they personally affect you.

Many people do not fully understand what benefits are payable under MEDICARE and what expenses the Senior Citizen himself must pay.

MEDICARE was enacted to help our Senior Citizens pay the ever-rising cost of Hospital and Medical Services; however, MEDICARE does not pay the entire bill. As you know, some expense is left for you to pay in addition to MEDICARE. Now, with these new changes effective January 1, 1972, there are more expenses left for the Senior Citizen to pay.

As it is very important that you know about these changes, complete and mail the enclosed postage-free card immediately, so that we may rush you complete information concerning the new changes in MEDICARE.

Sincerely,

Dwight Bessin

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YES — I would like to have further information concerning the NEW Changes In Medicare.

Name _____
Address _____
City _____ State _____
Zip _____

NO — I understand all of the NEW Changes in MEDICARE and do not need further information.

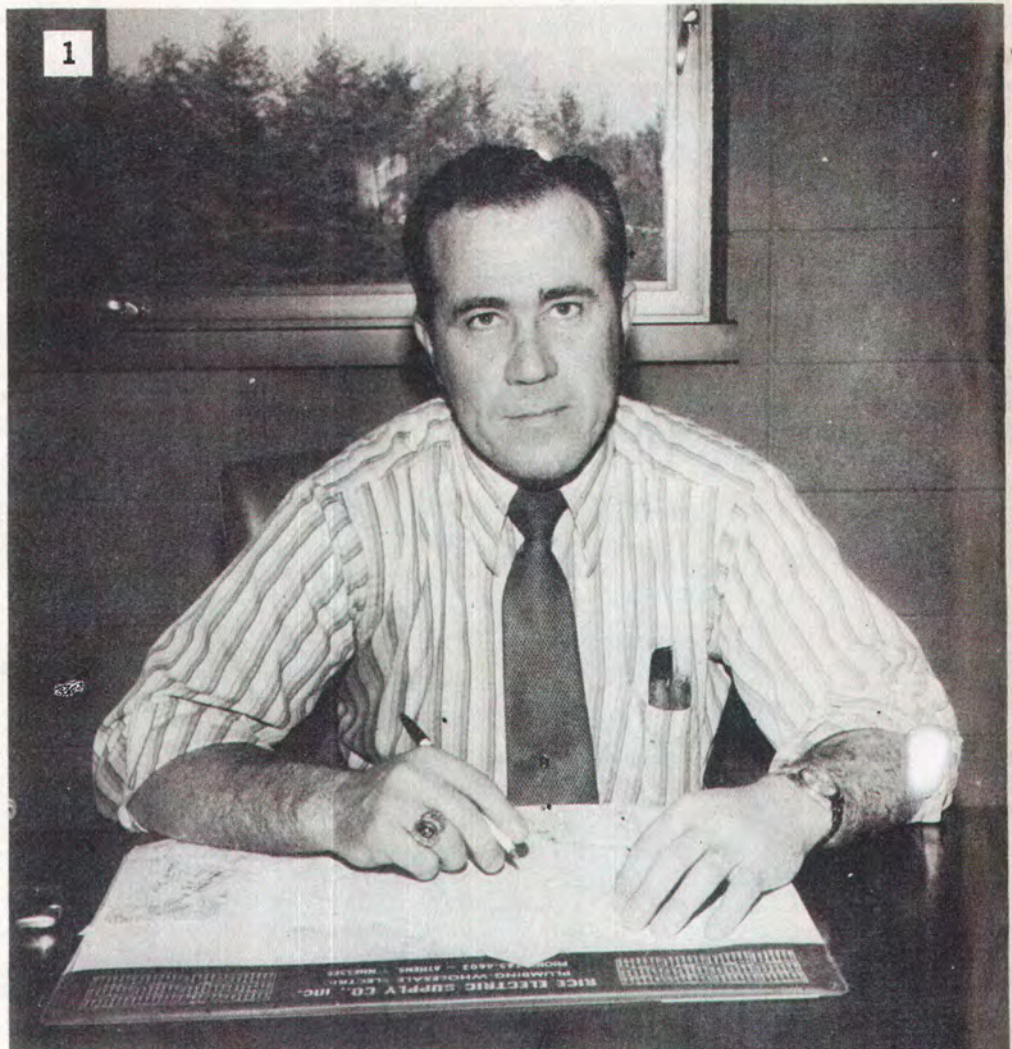
CUT OUT ALONG DOTTED LINE AND MAIL

A New Concept

Did you know that 70% of all jobs in the United States do not require a college education but do require some sort of vocational or technical training? It is predicted that in the near future only 15% of the available jobs will be filled with college graduates, whereas 85% will go to those with vocational and technical training. For this reason vocational and technical schools are being built all over the country. Students who once were unable to further their education because of rigid entrance requirements, financial difficulties, or other reasons are now able to further their education and remain at home.

A new concept in education is evolving in some parts of the country in the field of vocational and technical education. Educators, realizing the demands, present and future, which are being placed upon vocational and technical schools are working with the high schools and starting interested students at the beginning of the tenth grade. The vocational-technical people, realizing that the normal high school student does not know exactly what he wants to do at this early age, exposes him to several related courses in a wide field. An example of this is construction, in which the student would receive instruction in carpentry, cabinet making, painting, plumbing, and masonry. This is called the cluster concept.

The cluster concept is aimed at the preparation of tenth, eleventh, and twelfth grade youth for entry level capability in a variety of related, rather than specific occupations. The cluster concept is based on the assumption that most secondary school students have no realistic basis for decision making along the lines of selecting a specific trade. The cluster concept is designed to broaden the individual's potential employability by virtue of offering a wider range of employment skills across several occupational areas. It is believed that this type of training will enable the individual to move back and forth over several occupational areas, as well as vertically within the occupation.



In Education

By Robert Sosebee, Electrification Advisor
Tri-State Electric Cooperative



Realizing the need for such a program, the Fannin (Georgia) County Superintendent's office and the Board of Education initiated a program to have such a school in Fannin County. The planning for this school was started some four years ago, and in September of 1971 the first classes were held. In addition to the high school program conducted during the daytime, adult classes are conducted at night.

The plant itself was built and equipped with federal, state, and local funds. Federal funds consisted of approximately 60%, while state and local contributed 20% each.

The occupational clusters being offered at the Fannin Vocational School are:

(1) Construction Occupations—This course contains construction and practice in brick and block masonry, cement finishing, carpentry, cabinet making, and residential wiring.

(2) Transportation Occupations—This course includes study and practice in auto mechanics, small gas engine mechanics, diesel and tractor mechanics.

(3) Metal Working Occupations—This course contains the fundamentals of metal fabrication techniques found in today's industry which includes welding, basic machine shop operations, blue print reading and machine drafting.

(4) Para-Medical—This course is designed to assist students in performing basic health service skills in hospitals, medical laboratories and doctors' offices.

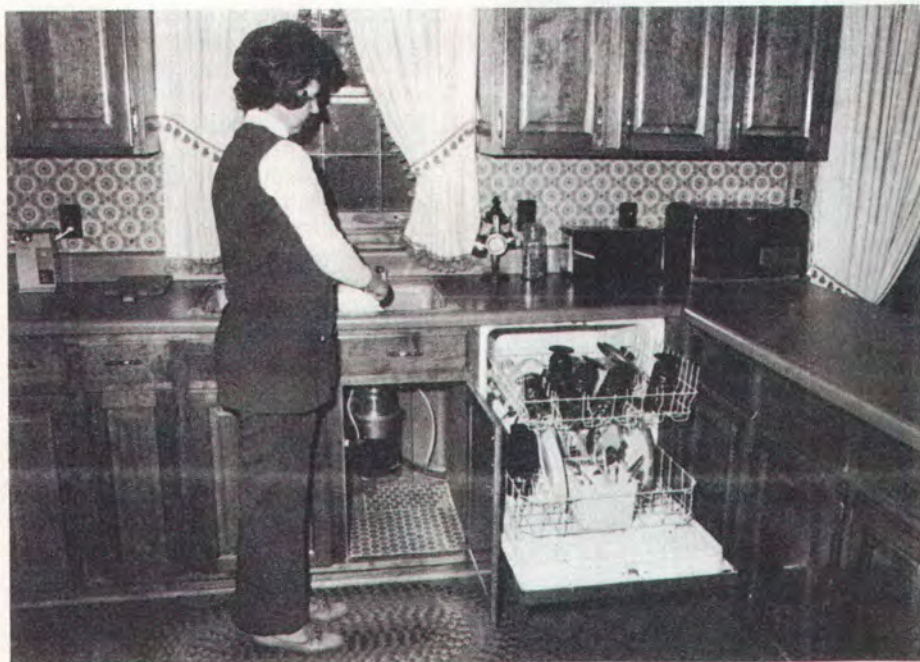
(5) Electro-Mechanical Occupations—This course is designed to give students an opportunity to learn skills needed to repair small and large appliances, domestic air conditioners, and electric motors.

(6) Cosmetology—This course gives the student an in-depth study of cosmetology.

1. Mr. Charles Smith, Supervisor, Fannin County Vocational School 2. Transportation Occupation 3. Electro-Mechanical Occupations 4. Construction Occupation 5. Metal Working Occupation 6. Para Medical 7. Cosmetology

HOME ECOLOGY: Electricity the Solution; Not the Problem

By: Ann Throneberry
Home Economist
Duck River Electric Membership Corporation



Mrs. Wilburn Moorehead, Chapel Hill, Marshall County, finds that the electric garbage disposal and electric dishwasher compose a useful clean-up team in the kitchen. Notice how Mrs. Moorehead can scrape large particles of food off the dishes into the garbage disposal as she loads the dishwasher.

Environment, ecology, and pollution are the "in" topics in our society today. From the sign-carrying slogans of students and the publicized accusations of Ralph Nader, environment control has come to be a very real problem that must be faced by us all.

People are beginning to ask what they as individuals can do to control their environment. And they are finding there are indeed many steps each person can take in his own home to solve many home pollution problems. Certain limitations do prevail in controlling world environment, but each individual can effectively change and improve his own Home Ecology.

Ecology is defined as the relationship of man to the world environment. *Home* is defined as a place of man's domestic affections.

Electricity is the cleanest source of energy available at its point of use. With these thoughts in mind,

notice how electricity is a logical solution to your home ecology problems.

Electricity as an energy source in the home is totally compatible with people and allows you homeowners to do much more than just control the temperature in your homes. With the help of electricity you can practice complete climate control, including heating, cooling, humidity control, air cleaning, odor control and noise control.

An indoor climate system is one that makes the home most comfortable for those who live there. Each individual has a different comfort level and should be able to control his indoor climate to suit that level. Such an indoor weather system is simple when electric comfort conditioning is used to take care of climate needs of all family members in the home.

Electric heat contributes to a cleaner home environment. The



Mrs. John Hannah, Manchester, enjoys the convenience of the central vacuum system installed in her home. Automatic on-off inlets located throughout the house eliminate the need for pulling a canister or tank vacuum from room to room.

absence of combustion within the home means the absence of products of combustion which will pollute not only the interior of the home, but the neighborhood where the home is located as well. Electrically cooled or warmed air is probably the major aim in maintaining a clean and healthful home environment, but climate control can include much more.

The electric heat pump is one of the most efficient units available for heating and cooling the home. It will maintain a high level of comfort in the home year-round and with proper use will provide years of comfort conditioning with a minimum of maintenance.

An electric heat pump not only provides year-round comfort, but also helps in controlling home pollution. It is completely automatic, changing over from heating to cooling and back again as the seasons and weather dictate. At the

same time it helps filter out dirt, pollen and other pollutants.

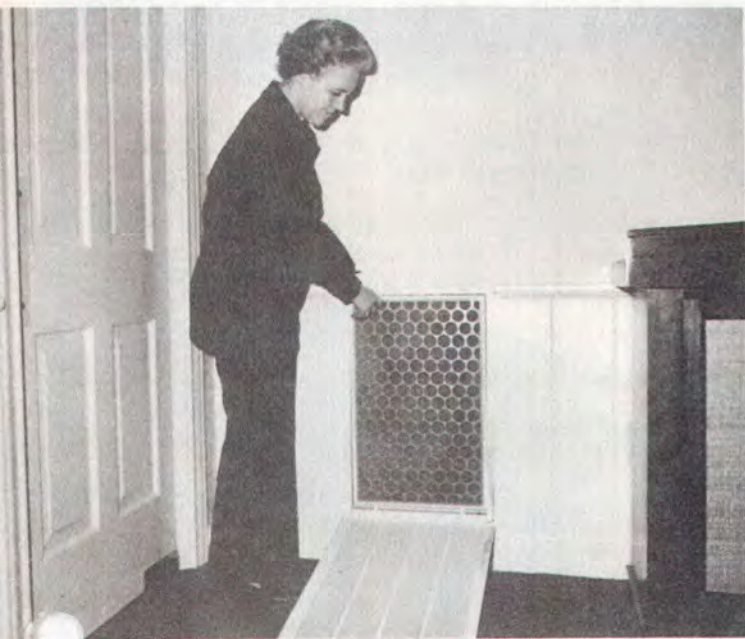
Many electrical appliances are available for the homeowner to make the home a place of complete comfort. The electronic air cleaner, central vacuum system, automatic dishwasher, garbage disposal and garbage compactor represent some of the newest electrical appliances

Automatic on-off inlets are located throughout the house which allow a 25-30 foot hose to be connected and operated in several rooms. A variety of cleaning tools are available for use with the central vacuum.

A garbage disposal will rid the home of another source of pollution—waste foodstuffs. It also

food, eliminating the need for rinsing or wiping out dishes. Adjustable or lift-out racks permit easy loading.

In general, newer models hold more dishes and have loading space for larger dishes and utensils. Capacities of these models vary in the number of place settings they will hold. (A place



Mrs. Edwin Allen of the Caney Springs Community, Marshall County, finds changing the filter of the electronic air cleaner a simple task. The automatic air cleaner was installed in the return duct of the central heating and cooling system to minimize the dusting and house cleaning chores for Mrs. Allen.



Dr. and Mrs. Dan Calhoun of Manchester recently purchased an electric garbage compactor to complement the electrical appliances in their home. Here, Mrs. Jennie Adams, housekeeper for the Calhouns, places a day's accumulation of paper, bottles and cans in the compactor.

available to assist in home ecology.

The electronic air cleaner can be installed as an integral part of a central heating and cooling system (or can be added later). Portable units are also available for use in various rooms throughout the home. The air cleaner helps maintain a healthful atmosphere in the home as it filters out dust, dirt, odors and other impurities. It also means a savings in window cleaning and dusting, and reduced painting and redecorating costs because the unit removes dusty, grimy particles that stick to walls, draperies and furniture.

A central vacuum system also helps in controlling home pollution. Such a system also eliminates recirculation of dust and removes noise from living areas. The central cleaning system consists of a deluxe power unit which can be located out-of-the-way in a garage, utility room, closet or basement.

serves as a sanitation measure. The disposal unit can be installed in any sink with a drain opening of three and a half to four inches. This appliance shreds and washes away most food wastes, but will not dispose of metals, glass, cardboard, seafood shells, string or similar items. Follow manufacturer's recommendations always.

The garbage disposal can be installed on a city sewage system or with a septic tank. When installed on a septic tank, the size of the septic tank should be increased by 25 percent over the size calculated by number of family members only.

The automatic dishwasher allows the homemaker to rid the kitchen and dining area of dirty dishes and enjoy more time with family members. The new models of dishwashers have more washing cycles, from pre-rinse-and-hold to gentle-action for fine china and crystal. Most models today dispose of soft

setting consists of 11 pieces of china, glassware, and silver.)

The garbage compactor, one of the newest electrical appliances on the market, compacts a week's accumulation of trash for the average family of four in a neat bag. At the end of a week the bag (approximately 16-by-16-by-9-inches) will contain the equivalent of about three 20-gallon trash cans.

Tin cans, glass bottles and paper products are compacted by a metal ram into a small neat package, which is sealed when full. Built in spray deodorizers eliminate odors.

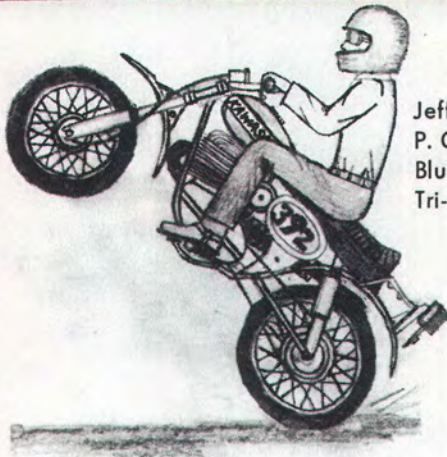
All of these electrical appliances represent steps you can take in your own home to improve your home ecology. Ranging in price and total effect on the environment there are ways in which you, with the help of electricity, can be the solution to our environment control and not the problem.

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.



Jeff Weir, Age 12
P. O. Box 915
Blue Ridge, Ga.
Tri-State E.C.



Cathy Faye Dyer, Age 14
Rt. 1
Murfreesboro, Tenn. 37130
Middle Tenn. E.M.C.

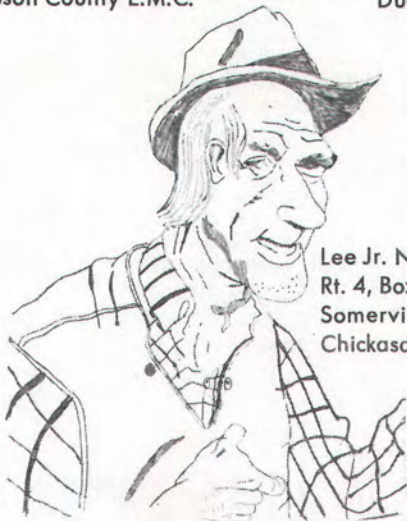


David Lee Oglesby
Rt. 1, Bells, Tenn. 38006
Gibson County E.M.C.



Mike Wright, Age 13
Route 3
Winchester, Tenn. 37398
Duck River E.M.C.

Larry Nelson, Age 13
Star Route
c/o Tom Rollins
So. Pittsburg, Tenn. 37380
Sequachee Valley E.C.



Lee Jr. Norment, Age 13
Rt. 4, Box 126-B
Somerville, Tenn.
Chickasaw Electric Cooperative



SOUND INVESTMENT

Garden irrigation

Few farm improvements offer a greater dollar return per dollar invested than a garden irrigation system. A small electric high pressure system, though inexpensive, offers immediate and almost immeasurable dividends in garden produce, landscaping effectiveness, farm chore assistance.

Large gardens are still the main fruit and vegetable source for some farm families. This is even more evident since the advent of the electric home freezer. Many a farm homemaker relies quite heavily on her garden to produce

the fruit and vegetables that will act as part of the staple family diet during the winter months.

But many times, due to inadequate summer rains, the family garden yield is low and the farm homemaker is faced with the problem of not enough fruit and vegetables either frozen or preserved to sustain the family over the winter.

A high pressure electric pump and two or three irrigation sprinklers would change this situation. It would substantially improve the quantity and quality of the vegetable and fruit crop.

Large lawns and shrubs also suffer during the dry spells. With a small irrigation system (the same one taking care of the garden) the lawns can be kept green and the flowers blooming during even the hottest weather.

Another problem is our uncertain and everchanging weather. Just when the tomatoes are beginning to ripen on the vine, there is announcement that below freezing or near freezing weather can be expected for that night.

What should the homemaker do? Preserve the green tomatoes? Wrap them in old newspapers and hope for the best that they don't all ripen at the same time. It's a problem alright.

With the small electric pump irrigation system the worry is minimized.

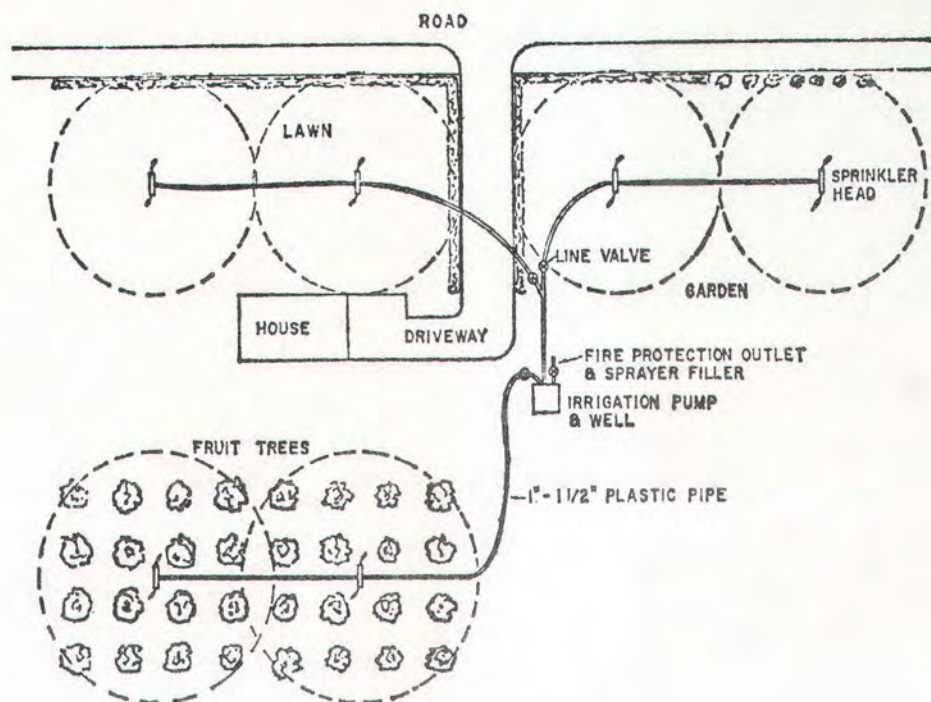
Tests carried out in California during severe frost threats showed that if the standard irrigation nozzles were changed for smaller nozzles, a fog or mist was produced. This fog or mist was allowed to spray over the gardens during the night. It was discovered that the garden temperature will remain above freezing even though the actual temperature has fallen as far below freezing as 24 degrees.

The small irrigation system, with a pressure of 80 gallons per minute, can be used very effectively to fill agricultural field sprayers. This means that the farmers would be able to spray crops an additional one to two hours more per day because of the reduced tank filling time.

Small electric irrigation pumps provide excellent fire protection. The only alteration necessary is to run a small pipe off the main irrigation line with a valve that will allow the water to be channeled into the fire hose should the need arise.

What farmer wouldn't sleep better knowing that should a fire break out, he has at least a chance to save some or all of his buildings from destruction?

Readers interested in such a system should contact a reliable irrigation dealer to get help in planning a system to meet their specific needs.



Simple layout for a small farmyard irrigation system. It makes water readily available for lawns, gardens, orchards, fire protection and tank-filling.

the facts of light

THE NEW LANGUAGE OF LIGHT BULBS

three little words...

There's a "new language" in lighting—and it's based on just three words. You already know some of them. But once you're familiar with all three and what they mean, you'll be able to "buy smarter" when you buy bulbs for your lamps and lighting fixtures at home.

The three words are used to *rate* your light bulbs—that is, to tell you how they will perform on the average and what you're getting for your money in the way of light.

where and why

Rating of bulbs is not new. What *is* new, however, is that the ratings will now appear on the paper "sleeves" or jackets in which your bulbs are packaged. If they are not on the package, they'll be on the bulbs themselves.

This labeling is now required (beginning January 25, 1971) by a new ruling of the Federal Trade Commission. It applies to all "general service incandescents"—the regular screw-in household bulbs you normally buy for home use, from 15 to 150 watts.

This booklet will tell you what the ratings are all about, to help you pick just the bulb you want for the purpose you want. That way, you'll be sure to get the best value for your money by "buying right" when you're buying light.

the labeling

The bulb jackets will be labeled with these three ratings:

1 WATTS Watts, of course, are familiar to you. Wattage is the basis we normally use for buying bulbs: "the higher the wattage, the brighter the bulb."

But that isn't really the right way to buy bulbs. For wattage only measures *the amount of electricity going into a bulb*, not the amount of light you get out of it.

Wattage for a light bulb is a little like gasoline for an automobile. It's the power you buy to make it work.

Many people think that all light bulbs using the same wattage produce the same amount of light. But this is not always true.

Think of automobiles again. As you know, not all cars that use the same amount of gasoline give you the same performance. It's the same

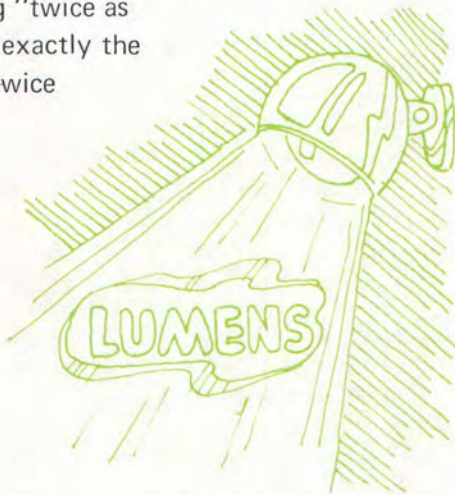


with light bulbs. Wattage only measures the *input*, not the *output*.

2 LUMENS Can we measure a bulb's "performance"? Yes—by *lumens*. This is a word which is probably new to you, and you'll be seeing it on the bulb sleeves. *Lumens measure the actual light output*—the brightness—produced by a bulb. It's the end product you actually get to use. Saying "twice as many lumens" is exactly the same as saying "twice as much light."

The brightness of your home bulbs will now be noted (on the paper sleeve) in terms of "average initial lumens."

This means the amount of real light output the bulb is designed to give you, on the average, when you buy it and begin using it.



3 BULB LIFE A bulb—or, more precisely, the filament inside it—will last just so long; then it burns out. Under the new FTC ruling, the bulb sleeve will now tell you how long the bulb is expected to last—its *life*. This will be expressed as "average laboratory life," and it means the number of hours of use you may expect to get from the bulb before it burns out. (The figure will be an *average*, based on certain approved laboratory tests. Some bulbs may last longer than the average, some less time.)

"longer life" bulbs: the long and short of it

You've probably seen bulbs sold as "longer life" or "extended service" bulbs. As their names indicate, they're designed specifically to last longer than "standard" bulbs. However, there's really no precise definition for the term "long life."

But there is one important rule of thumb to remember: For bulbs with the same wattage, *longer life means less light*. Here's why: A bulb has just so much "light life" in it—and no more. That's because the filament eventually burns out after a certain amount of use. "Long life" filaments are heavier than those for standard bulbs, so they last longer. But, by their nature, they don't give as much light.

a question of value

Which bulbs are the best buy for your money? There's really no single answer. It all depends on *you*, the customer. The purpose of printing the three ratings on the bulb sleeves is to give you more of the information you'll need for buying the right bulb for the purpose.

You'll find times when the brightness of a bulb is more important to you than its life—for example, for reading, studying or working. Then, of course, you want to get the most lumens for your wattage. In such a case, "standards" will give you the best value.

three-way bulbs

Three-way bulbs contain two filaments: one for low brightness and one for medium brightness. The two combined produce the high brightness. Three-way bulbs will be labeled the same way as regular bulbs; lumens, watts and hours of life.

For the bulb's life, however, the rating will be given for only *one* of the two filaments: the one shown by the manufacturer's laboratory tests to be the first to burn out, based on average use.

buyers' choice

The choice of bulbs is up to you. The new labeling—and this article—are designed to help you "buy bright" when you buy light bulbs for your home.

If you have any questions on the right bulbs to get, why not ask the people at your bulb or lamp store. We'll be glad to help you.



Better Light Better Sight Bureau
90 Park Avenue
New York, New York 10016

Timely Topics

PROVIDE CIRCUITS, PROTECT APPLIANCES

Good wiring prevents "electrical starvation" of appliances, says a University of Tennessee agricultural engineer.

Kenneth E. DeBusk, associate professor with the Agricultural Extension Service, points out that starved appliances have definite symptoms. The motor driven appliance may heat up excessively or turn sluggishly while the heating appliance may heat slowly.

"Providing enough circuits, properly fused, will help solve the problem," he says. "Remember that a 115 volt circuit should be protected by a fuse or circuit breaker not larger than 20 amperes."

Separate circuits for fixed equipment such as washer, dryer, range, water heater, freezer, room heaters, dishwasher and room air conditioners will lessen the chance of overloaded circuits.

A residential wiring system which has been installed more than ten years without additions is likely in need of updating, DeBusk adds. It is also possible that a new wiring system has become overloaded if major additions in electrical equipment have been made.

4-H EVENTS SCHEDULED

Anna Lucas, a 4-H Club specialist at the University of Tennessee, reminds senior 4-H members that a wide variety of events is scheduled for them this year.

"4-H Congress, April 9-11, gives members an opportunity to learn about their state government as they play the roles of senators and representatives and hold mock legislative assemblies at the state capital in Nashville," she says. "Also, state winners in public speaking, leadership, citizenship, Camp Minivanca, citizenship essays, and the poster and art contest will be announced at Congress."

Conservation Conference, June 26-30, is where 4-H'ers study conservation of natural resources including soils, plants and wildlife. University of Tennessee agricultural specialists serve as instructors, adds Miss Lucas, assistant professor, U-T Agricultural Extension Service. The recreation program at Conservation Conference includes swimming, boating, group games, archery, crafts and camp fire programs. The conference is held at Fall Creek Falls State Park near Pikeville.

"Then, starting on June 30 at Fall Creek Falls will be the state All-Star Conference," she says. "This conference goes through July 2. 4-H'ers who have been recognized for their service to 4-H and their community will meet to study ways 4-H members can be of more service to others. The development of individual and group service projects will be emphasized."

Roundup, held on the U-T, Knoxville campus on August 7-11, is where state winners will be selected to represent Tennessee at National 4-H Congress in several projects and activities, according to Miss Lucas. Features of the program will include discussion groups, education tours, and studies of educational opportunities at the University of Tennessee.

"One regional event that more than 120 Tennessee 4-H'ers will attend is the Fontana Resource Development Conference

at Fontana, N. C., June 5-9," she says. "They will be joined there by more than 100 delegates from six other states in the Tennessee Valley region to gain a greater understanding of both natural and human resources. Special interest classes are conducted concerning atmosphere, soils, minerals, wildlife, forestry, water and human resources."

FARMERS BORROW LARGE AMOUNTS

Our nation's farmers continue to be large consumers of borrowed funds, according to a University of Tennessee agricultural economist. And Tennessee farmers have total outstanding debts of approximately one billion dollars.

"Evidence of this large use of borrowed money is shown by recently released data indicating the total U.S. farm debt had increased to \$59.2 billion on January 1, 1971," says D. R. Humberd, assistant professor with the U-T Agricultural Extension Service. "This is a 6.8 percent increase over the previous year."

Humberd says that of the total, real estate debt accounted for slightly less than half, \$29.5 billion. United States farm real estate debt has increased 56 percent since 1965. However, during 1970 the increase was only \$1.1 billion.

"This was the smallest annual increase since 1962," Humberd adds. "Indications are, however, that the amount of farm real estate mortgages increased sharply during the first half of 1971 as funds were easier to get and interest rates declined slightly. Thus, it is estimated that farm mortgage debt increased another four percent during 1971."

Tennessee farm mortgage debt increased only 1.3 percent in 1970 to a total of \$506 million, the economist says.

More than half of the total U.S. farm debt now consists of non-real estate debt, Humberd says. Non-real estate debt increased at an annual rate of 10 percent in 1970 and has increased 74 percent since 1965.

"Tennessee farmers had \$303 million in non-real estate loans outstanding to institutional lenders on January 1, 1971, and an estimated \$197 million to merchants, dealers and individuals," Humberd says.

SMALL GRAIN YIELDS CAN BE INCREASED BY NITROGEN TOPDRESSING

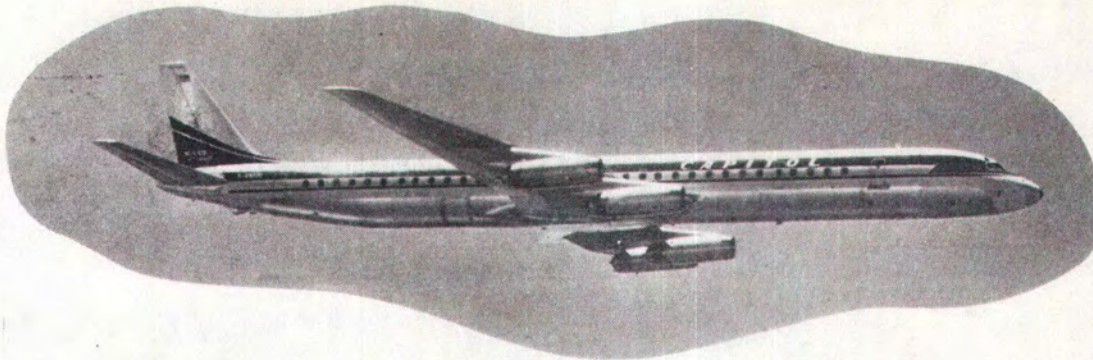
A University of Tennessee agronomist reminds farmers that yields from small grain used for either pasture or grain or both can be increased by applying a nitrogen topdressing.

"Use 30 pounds of nitrogen per acre for small grain to be used for either late winter-early spring pastures or grain production," says Donald D. Howard, assistant professor with U-T's Agricultural Extension Service. "This rate should be applied between February 15 and March 15. Higher nitrogen rates generally increase small grain lodging problems."

Howard says that producers who plan to use small grain for both pasture and grain production need to apply an additional 30 pounds, or a total of 60 pounds of nitrogen per acre.

"This extra nitrogen application keeps reductions in grain yields due to grazing at a minimum," he says. "Apply the first 30 pounds between February 1 and February 28. The second 30 pounds should be applied immediately after grazing is stopped, usually by the last of March."

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The Big Birds of Capitol Now Roost In Tennessee

By John Stanford

Tennessee's electric cooperatives serve quite an assortment of members, both individual and corporate. But none, until recently, could be said to be as high flying and wide ranging as one to whom service is now being extended by Middle Tennessee Electric Membership Corporation, Murfreesboro.

That would be the Capitol International Airways, one of the largest supplemental airlines in the nation or world, which recently moved its international headquarters from Delaware to the former Sewart Air Force Base at Smyrna, Tennessee. The huge installation is now municipally owned.

Capitol is the most experienced of all supplemental airlines, having been continuously engaged in extensive charter operations since its founding in 1946 by Jesse Stallings, then a veteran American Airlines Captain, who still remains very active with the company as Chairman of the Board of Directors. From its 1946 origin, Capitol has flown more individual charters than any airline in the world and was the prime developer in the trans-Atlantic market. Capitol's huge aircraft have flown across the Atlantic Ocean more than 15,000 times and its sleek jets now average some 2,000 crossings each year.

Through the years, many misconceptions have arisen as to the differences between the two broad classifications of 1) scheduled and 2) supplemental airlines, the latter also often being identified as charter or unscheduled airlines.

Insofar as FAA (Federal Aeronautics Administration) and CAB



This Capitol International Airways DC-8 jet will carry 250 passengers at up to 600-miles-per-hour comfort. It has a non-stop capability of 5,000 miles and carries a crew of eleven.

(Civil Aeronautics Bureau) rules, regulations and administration are concerned, there are no differences between the two groups. Size and type of aircraft will vary within both groups, but in the case of Capitol, its fleet of seven DC-8's, while smaller in number than a few of the larger scheduled airlines, is on or above the average as large, well equipped, maintained and crewed, per aircraft, as any airline in the world.

The principal difference between the two groups of airlines is in the way of doing business.

According to Capitol International President M. S. Beyer: "The objective, as we see it, in the United States is that the scheduled airlines should serve the needs of individual business travelers, the Government traveler, the person on personal business. The charter (supplemental) airlines should serve the needs of the people on vacation. We offer the great advantage to the traveling public of not only wholesale air transportation, but can do so on a complete-plane basis to an affinitive group, such as we are offering, in May, for members of Tennessee's electric cooperatives. (Details for this trip, to Spain, appear elsewhere in this issue—Ed.) This affinity, we-all-belong-to-the-same concept makes for a trip and tour warmth which is not likely to be found in scheduled plane travel. In addition to that,

on vacation trips such as this, we are able to arrange hotel accommodations, ground transportation, tours etc. for large groups at a per-person cost which is tremendously less than that person would pay for these same services on an individual basis."

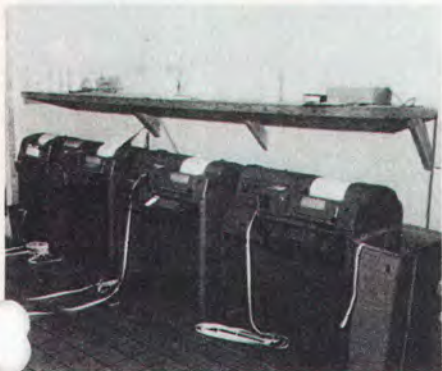
President Beyer speaks from knowledge gained from experience, for during the past year Capitol International transported 457,000 passengers, mostly tourists and vacationers, a total of 1,693,000-000 passenger miles. Approximately 80% of all Capitol flights are to or from 300 overseas sites.

To accomplish such mass transportation is no small feat, but Capitol is no small airline. It employs from 600 to 900 persons, depending on the time of the year, and has an annual payroll of \$7,500,000. Its air fleet consists of seven DC-8 jets which will accommodate from 180 to 250 passengers at up to 600-miles-per-hour comfort and a non-stop capability of 5,000 miles. Each of the jet's four engines is rated at 18,000 horsepower, giving each aircraft as much total power as an ocean liner. No flight is begun without sufficient fuel to carry the plane at least 1,000 miles beyond its destination. Because of Federal regulations and common sense practices limiting flying time each day and total per month, each plane requires at least five complete crews, ranging from nine to

eleven persons each.

Although each DC-8 will safely fly 6-million miles between each major overhaul, each receives a daily inspection, a service check every 150 hours, heavy service at 400 hours (about once each month) and a major overhaul every 12,000 hours which requires between 15,000 and 20,000 man hours and which costs one-third of a million dollars.

Tennessee is happy to be the roosting place for the big birds of Capitol International Airways and the residence of its hundreds of employees. And we welcome to electric co-op service this corporate member which already is contributing greatly to the economic, transportation and vacation well-being of our state and its citizens.



These four machines, which can receive messages from all over the world, help keep up with Capitol's planes wherever they might be at any given time. Planes' crews can send messages while on ground, or radio ground stations from air and ask that messages be sent to Capitol headquarters in Smyrna by wire.

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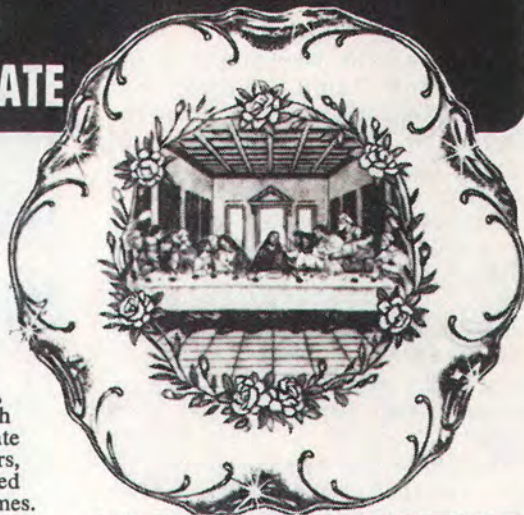
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He Is What He Knew He Wanted To Be

By John Stanford

It took Ralph McDonald, the talented Tennessee artist whose wildlife paintings have appeared on the cover of *The Tennessee Magazine* for the past two months, the better part of the first four years of his life to decide what he wanted to be.

It was at the tender age of 3½ years that Ralph, deemed too young to go fishing with adult relatives on a visit to an aunt in Texas, gave his first indication of not only what he wanted to be but of the field in which he wanted to specialize when he made a "stick" drawing of a figure holding a fishing pole with a fish on the end of the line. With ever-increasing proficiency, he has been drawing or painting pictures of fish, animals and birds almost ever since.

McDonald, 37, was born in Davidson County, Tennessee. His family moved to Sumner County and then back to Nashville during his school years and he attended Litton High School where he was both an outstanding athlete and Art Medalist. Following graduation from high school, McDonald attended Tennessee Tech for one year to pursue both his studies and football but he decided at the end of that year that his overpowering love was for art and that the best way to concentrate on this love was to enroll in Art School, which he did in Nashville in 1954. He spent more than five years in Art School, three of them on scholarship and as an instructor.

Following Art School McDonald went to work for an agency doing finished and illustrative artwork. Then he was employed by the Methodist Publishing House for five years as a religious illustrator. He has continued his religious artwork for the past several years on a studio-freelance basis while at the same time making a gradual transition to his first and favorite field of art—wildlife illustration.

McDonald, who has volunteered to donate his services as a consultant to this publication's "Uncle John's Page", strongly advocates the encouragement of parents to children who show interest and



J. C. Hundley, right, Executive Manager of the Tennessee Electric Cooperative Association, receives a large print of the painting which appeared on the February issue of *The Tennessee Magazine*, which he holds in his hand, from Ralph McDonald, the wildlife artist who painted the original picture.

talent in art. "From the time I made my simple stick drawing of a figure holding a fish on a pole line, my parents encouraged me, as did my grandparents when I visited their farm and developed my love for wildlife."

McDonald believes that the three most important factors to becoming a successful artist are native talent, training and dedication. He says that talent and training are very important, each to the other, but that without love for and dedication to art, neither talent nor training are of much value. Tremendous opportunities are available, he says, for good artists, mediocre artists can make a good living but, as in most ways of life, the poor artist might do well to think of other pursuits.

McDonald's wildlife paintings are becoming well known and received in Tennessee and, to a lesser extent in other states, because of the realistic, life-like appearance of the subjects. This is no happenstance. Explains McDonald:

"Before I begin to paint any wildlife subject, I read everything about it that I can find—its environment, habits, what it eats, where and how it sleeps, what it hunts and is hunted by. Then I visit areas where the subject is

likely to be found, mentally putting myself in its place to get the 'feel' of the situation. When I capture and study the subject first-hand for a few days before releasing, or at least try to get a picture of the subject with my telephoto-lens camera. If I am unable to capture or photograph, I acquire skins or stuffed subjects from a museum or taxidermist."

After McDonald has completed all possible research on a given subject, he makes pencil sketches of the subject in a number of poses, and its environment, which also has been researched and previously either sketched or photographed. The pencil sketch that is judged the best and most suitable becomes the outline for the real painting, first as a color sketch and scheme and eventually into the finished product.

After all the research and preliminaries have been completed, it generally takes McDonald from 24 hours to a full week to complete a wildlife painting. Counting his time at the top commercial rate which he has been able to charge for a number of years, along with research and material expenses, it isn't unusual for McDonald to have a thousand dollars or more invested in a single wildlife paint-

ing. Nor is it unusual for him to be offered several times his investment in one of his original paintings, which he refuses.

"Original paintings are almost like his child to an artist, says Ralph. "They are not always easy to come by and they become more valuable each day."

McDonald knows a bit on the subject of children, too. He and his attractive wife, the former Doris Stockton of Charlotte, North Carolina, were married while both were students in Art School. After eleven years of a childless marriage, Ralph and Doris adopted 6-weeks-old Karen, now four. And, just more than two years later, their begotten child, Dawn, made her hoped for but somewhat delayed appearance at the McDonald household in Madison, Tennessee.

McDonald, a warm, friendly man

whose wildlife paintings are an extension of his love for the great outdoors and its inhabitants, is considered in a number of quarters as one of the six or eight top wildlife illustrators in the nation. Because of such contacts as art centers, dealers and picture print distributors to be found in the larger cities in the nation, his position might well be improved by moving to say, New York City.

But McDonald will have no part of any such talk.

"My ambition is to move to a farm which we own up in Robertson County (which is electrically served by Cumberland Electric Co-op—Ed.) and keep on doing what I'm doing."

To those of us who admire and collect the works of this talented and dedicated wildlife artist, we hope he does just that!

COVER PICTURE OFFER

Judging from the response to our cover picture offer in February (Deer), our readers like the wildlife paintings of Ralph McDonald, so we're making a similar offer of our Rabbit cover for March. As in February, these are lithographic prints on heavy paper and designed for framing.

Also, Mr. McDonald advises that he still has a few prints remaining of the February Deer cover and these may be had on a first-ordered, first-served basis.

The "Small" size listed below on the order blank is a decorator print the size of our magazine cover. The "Large" size is approximately 14-by-20 plus white border and will be signed by the artist.

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PUZZLE CORNER

Our readers really like a challenge! Would you believe that nearly all of our replies were correct!!! And when you consider that from a response from more than 400 people, it is even more surprising.

The February puzzle went like this:

Wearily Willie went up a certain hill at the rate of 1-1/2 miles per hour and came down at the rate of 4-1/2 miles per hour, so that it took him just 6 hours to make the double journey. How far was it to the top of the hill?

ANSWER: 6-3/4 miles to the top of the hill.

Phil Kemp of 414 Jefferson Avenue, Carthage, Tenn. 37030 is our lucky winner for the first prize of \$10 given by THE TENNESSEEMAGAZINE. Phil is a member of Upper Cumberland Elec. Memb. Corp.

Viola Hicks, Route 1, Box 231, Copperhill, Tenn. 37317, a member of Tri-State Electric Cooperative is the winner of our second prize of \$5 and Mrs. Annie T. Davidson, 328 Crook Avenue, Henderson, Tenn., a member of Southwest Tenn. Elec. Memb. Corp. wins our third prize of \$5.

In our March Puzzle we will find out something about "sharing"—along with a puzzling situation!

"Sharing The Apples"

While the Crackhams were having their car filled with gasoline, in a pleasant village, eight children on their way to school stopped to look at them. They had a basket containing thirty-two apples, which they were taking into the village to sell. Aunt Gertrude, in a generous mood, bought the lot, and said the children might divide them among themselves.

Dora asked the names of all the children and said, later in the day (though she was drawing a little on her imagination), "Anne got one apple, Mary two, Jane three, and Kate four. But Ned Smith took as many as his sister, Tom Brown twice as many as his sister, Bill Jones three times as many as his sister, and Jack Robinson four times as many as his sister. Now which of you can give me the full names of the girls?"

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

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