Christmas shopping money during Modern Homes' CHRISTMAS CASH SWEEPSTAKES

All you do is Match the Plan with the House and send in your CHRISTMAS CASH SWEEPSTAKES entry coupon. If your answers are right and your name is drawn you can win $500 CASH or one of three other cash prizes.

WHICH HOUSE GOES WITH WHICH PLAN?

[Diagram with floor plans and houses]

1st Prize: $500 CASH
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Nothing to buy. No obligation of any kind. All you do is match the house with the plan and send your answers on the coupon to us by midnight November 30, 1965. Winners will be drawn and notified by December 5, 1965. Contest is void in states where prohibited by law.

Visit Your Local MODERN HOMES OFFICE during the CHRISTMAS CASH SWEEPSTAKES. Your Modern Homes representative can show you how you can own your own custom-constructed home. A dollar and a deed is all you need. Easy monthly payments—probably less than you're paying for rent. See him now.

CHRISTMAS CASH SWEEPSTAKES

House #1 goes with Plan
House #2 goes with Plan
House #3 goes with Plan

Your name:
Address:
City:
State:

Mail this entry to:
Your nearest MODERN HOMES CONSTRUCTION COMPANY Office.
To JONES HOMES, Box A, HENDERSONVILLE, TENN.
Please send me complete information on all Jones Homes, with no obligation to me.
Your Name

Rural route or street address:
Post Office

Your community

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

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I like people who know how and when to get "to the point." Perhaps that is why this column is so named. This is not to say that some preliminaries are objectionable or that diplomacy should be a lost art. But almost every pursuit should have an objective, a point.

A dozen or so years ago I was looking over the facilities of a printing plant under consideration for a contract on the magazine I was editing at the time. One of the owners of the plant, whom I had never met before, came up and said, "I always heard that the best way to get a contract was to ask for it. Are you going to print with us or not?"

This was getting to the point just a bit too fast for me, and for one of the few times in my life, I was at a loss for words. I hedged away from any definite answer.

A month or so passed, during which time it was decided that the magazine in question would be printed in this particular plant, which was in a different city and some distance from my home base. I returned to this city and printing plant and made my way straight to the part-owner who had made his point on such short notice a month or so earlier.

Without so much as a greeting my first word to him was: "Yes."

He looked puzzled, not seeming to recall either my visit to his plant or his to-the-point question.

"Yes, what?" he asked.

"Yes we're going to sign the contract you asked me about a month ago," I answered.

He grinned, we signed and for the almost nine years that the magazines I edited were printed in this plant, neither of us ever again came to the point so abruptly as we did on those two occasions.

But as little boys used to, and perhaps still, say . . . he started it!

How Do You Like?

If you will forgive a personal reference I will, next month, complete fifteen years of editing this magazine and, prior to it, a similar publication in Kentucky. This is the preliminary to my point: Never in my working life have I been as proud of any one issue as I am of this one.

The reason: for the first time since publication of THE TENNESSEE MAGAZINE was begun in September, 1958, all of the 175,000-plus copies are being printed on double-coated paper with a 4-color picture on the cover and inside. From the standpoint of paper quality, size, number of pages (and content, we hope) no other Statewide Electric Co-op publication in the nation (and there are approximately 30) is matching that of THE TENNESSEE MAGAZINE. This is by way of complimenting the Management and Directorship of your co-ops, which make this magazine possible and available to you as electric co-op members. They want for you the very best in the way of a publication, just as they want, and are providing for you, the best in electric service.

If you like the new look of your TENNESSEE MAGAZINE, why not tell your local co-op, or us? If you don't, tell us what we can do to make it more to your liking.

In Memory...

In the May 1964 issue of this publication it was my sad lot to report the passing and to pay my humble tribute to a man who, to me, was the finest gentleman I have ever known.

It is similarly difficult, but necessary, to acknowledge, fewer than 18 months later, the passing of his Life's Companion for 54 years. She was a woman who possessed almost boundless love for her God, her husband, her children and her neighbors. For those whose lives she touched, the world has been a better place.

She was my Mother.

STAFF

John E. Stanford, Editor
Frank Gonzales, Photographer

RURAL ELECTRIC CONSUMER PUBLICATIONS
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Birmingham, Michigan

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MAGAZINE READERS WRITE TODAY
The Hollingsworth’s Thresher Might Well Be Called...

A MECHANICAL TREASURE WITH A HEART OF STEAM

By John E. Stanford

Pictures by Frank Gonzales

Ever so often the question is asked of someone if he or she would like to go back to the “good old days” before the availability of electricity. Insofar as electric service is concerned, virtually no one is interested.

But when it comes to the matter of harvesting wheat, there’s a man in Robertson County who still prefers an old steam thresher over the modern combine, and for reasons that don’t take long in rubbing off on the casual visitor to his farm near Barren Plain, Tennessee, just north of Springfield.

Barbee Hollingsworth, who farms some 1,300 acres with his brother Ewell, was raised in a tradition of harvesting wheat with a steam thresher and he isn’t quite ready to break this tradition. His late father, Ceph Hollingsworth, threshed wheat for some 75 years and always received a premium price—without the benefit of the modern combine.

At first sight of the old Keck-Gonnerman steam thresher and separator, the first, if silent, question is where the Hollingsworths “dug up” this almost extinct piece of equipment. The answer is that they didn’t dig it up at all. It was purchased by the Hollingsworths in 1934 and has been in efficient use every harvesting season since—and to the tune of at least one millions bushels of well-threshed wheat.

The wood-or-coal-fired engine of the metal-wheeled thresher works up 19-horsepower for its own propulsion, or to operate through a belting system the thresher and separator units. Wheat is hauled to the thresher in the field on 4-wheel, mule-drawn dagsons.

One of the prime advantages of the steam thresher is that wheat, when ready, can be cut and shocked, and then brought to the thresher within any reasonable time later. With a combine, the wheat generally has to be threshed at very near the time it is ready.

It has been said that nothing should or can stand in the way of true progress. Even between the two Hollingsworth brothers, Barbee and Ewell, there is no longer complete agreement as to whether the steam thresher or the combine is the better way to harvest wheat.

Just this past harvest, Ewell went to the combine method on his 96-acre allotment of wheat. Barbee harvested his 94 acres with the old steam thresher.

No one knows for certain how much longer the Hollingsworth’s steam thresher will last, or whether it will be retired before it reaches the end of its mechanical life.

What is known for certain is that the old steam thresher did an excellent job in its “day”, it’s still doing a good job in the day of the modern combine, and for practical as well as sentimental reasons, it just might still be around tomorrow to show mechanical marvels not yet manufactured how a wheat threshing job really should be done!
Lower Power Rates To Help Homemaker

Fred Key Returns From Venezuela

Fred G. Key, assistant manager of Middle Tennessee Electric, has returned from a three-month mission to Venezuela. He was in the South American country at the request of the U.S. State Department to assist in the development of two rural electric cooperatives there.

Key reports that his work brought back old memories of the 1930's and 40's when Co-ops were just getting started in this country. "They seem so eager, yet so helpless," he reported. Six of the eight tasks assigned to Key were completed during his tour of duty. The work will continue here, and in 21 other "emerging nations," under the supervision of engineers and specialists from other U.S. Co-ops, from the National Rural Electric Cooperative Assn., and the State Department's Agency for International Development.

With Middle Tennessee Electric's new, lower power rate, Co-op members can run their television set from sunrise to sign-off for less than three cents a day, and they can burn a 75-watt porch light all night, every night for only 19 cents per month.

For an electrically heated house that uses 4,000 kilowatt hours per month, the bill will drop from $30.00 to $27.95. Co-op members using only 500 kilowatt hours per month will find their bills down from $6.03 to $5.10.

Under this new rate, Middle Tennessee Electric members will save over $300,000 in electric costs during 1966 ... a tribute to the non-profit operation of our community-owned, community-built, cooperative power system.

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Wiring Inspection Assures Safe, Adequate System

Middle Tennessee Electric requires that all new wiring be inspected before electric service is connected. This includes new or additional wiring in old houses, too. The inspections are made by the State Wiring Inspectors who are employed by the Tennessee Department of Insurance and Banking.

The wiring installation must conform to the National Electrical Code, state laws (Regulation 15), and the additional local standards established by Middle Tennessee Electric. All these regulations have been developed from the actual experiences and observations of thousands of engineers and inspection officials over many years. They have been developed to safeguard the unwary homeowner from the hazards of mishandled electricity. The Co-op insists that the inspections be made because it feels that it has a moral obligation to its members in helping them have safe wiring systems in their homes.

We are now entering into the heating season, when most home fires occur. Co-op members who are using electric heaters in old homes should be especially interested in making sure their wiring is properly installed and not overloaded. One of the best guarantees you can have is an approved inspection report from the state wiring inspector.

So, if you are having some wiring done this fall, or if you are adding electric heaters, be sure to have the work inspected and approved by the State Wiring Inspector.

Inspection fees vary according to the size of the service entrance:

- 0 - 30 amp entrance $4.00
- 31 - 60 amp entrance $5.00
- 61 - 100 amp entrance $6.50
- 101 - 200 amp entrance $7.50
- 201 - 400 amp entrance $12.50

Inspectors and their phone numbers are:

- Williamson County—Billy White, 794-2668
- Rutherford County—B. D. Hight, 893-4006
- Wilson, Cannon, and northeastern Rutherford counties—John S. Fite, 237-3621 (Watertown).

Manager's Comments by W. W. McMaster

Most of America's electric power industry is owned by investors. These people have bought the common stock of our country's largest industry in the hope of profit. The profit is virtually assured by the monopoly given in the franchise, and the law and precedent which allows them a return of about six percent on their investment after all expenses, including taxes.

In practice, the monopoly and guaranteed return make the investor-owned power supplier a cost-plus contractor for the supply of electric power to the community. Cost-plus contracting is wholly unjustifiable in the power industry. In defense industries, where urgency and no previous experience make this sort of contract necessary, it must be tolerated. In the electric power industry there is no need nor justification for the waste and inefficiency bred by this practice.

To guarantee a fair return on the investor's money is correct and in keeping with the American way. To practice waste and to actually reward inefficiency at the expense of the rate-paying public is contrary to what Americans believe, yet this is what is actually happening. The present system of allowing these investor-owned utilities a monopoly and a return of six percent after all expenses actually encourages them to keep the expenses high. The rate-paying public is the perennial loser under this arrangement, and the system makes this winner-loser status permanent.

This legalized gouging of the consuming public for the supply of an essential product disturbs many thoughtful persons. They tolerate it because they regard it as less evil than socialism or government ownership.

Fortunately, there is a third alternative—customer ownership and non-profit cooperative operation. This method, pioneered by America's rural electric cooperatives, is time tested and has proven feasible and efficient. The principal of customer ownership removes the conflict of interest between customer and company inherent with the investor-owned system. Non-profit cooperatives assure that rates will always be as low as possible and still maintain good service.

In this way, as in so many others, America's rural electric cooperatives have led the nation down the Middle Way of common sense, fairness, and a genuine concern for the welfare of the common man. In pioneering this Middle Way, the rural electric co-ops have steered a steady course between extreme left and extreme right and proved it practical. They have brought the boon of electric power to 20 million Americans and made an idea live and thrive.

Middle Tennessee Electric is proud to be numbered among America's 1,000 rural electric cooperatives—pioneers in the Middle Way.
Vo Ag Students Wire 'Farmstead' In Shop

One of the most practical ways of providing adequate electric service to a modern, automated farming complex is with the centrally located meter pole. On this pole would probably be a 200-amp (or larger) pole-top disconnect, current-transformer-metering, and service wires running to each building.

Vo ag students are learning about this, and many other valuable wiring ideas and practices, with a full-sized mock-up of a farm wiring installation which the Co-op is taking into the Vo Ag shops for classroom instruction.

The equipment includes a length of creosoted pole with a complete pole-top disconnect installation mounted on it. A second pole contains a complete pump house installation. The students help set these up in the shop and connect them together “overhead” with regular “triplex” cable. Triplex is also run to the permanent house wiring display built in most ag shops two years ago.

The entire rig is then energized and the students learn about fusing, switching, grounding, voltage, current, and many other useful electrical concepts.

The entire demonstration requires five class periods. Co-op Electrification Advisors plan to schedule the demonstration with all the Vo Ag classes in the area this year.

 security Lights Brighten Farmyard

Security Lights on the lines of Middle Tennessee Electric have transformed the countryside in recent years. Passing through the rural areas at night gives one the impression of being in a small town with street lights. The advent of the Security Light has done more to change the appearance of the farm at night than anything since the invention of electricity.

More than 1600 “light Watchmen” have been installed in Middle Tennessee Electric’s service area since this program was initiated several years ago. The lights are used to illuminate such places as boat docks, parking lots, play grounds, and many other such locations, but the main area of use is the farmyard. With this type of outside light, rural people now have available to them the security that comes with being able to see.

Major among the many benefits of the Security Light is safety. The ability to see one’s path, to see how to do the many outside chores that, so many times, must be done after dark, or before daylight. In the farmer’s long work day, this is a great blessing to him. Probably one of the best pleasures that the lighted farmyard gives the farmer is his being allowed to simply look out a window to see whether or not the cows have gotten out, to see if the storm has done any damage, or to see what the dog is barking at. The fear of prowlers is lessened because evil-doers prefer darkness.

The Security Light is available to anyone living on the lines of Middle Tennessee Electric at a rental of $2.60 per month.

This Security Light illuminates the parking lot of the Westwood Primitive Baptist Church in Williamson County.
An important activity associated with the 4-H electric project is the lamp-making workshop, at which members themselves put together table lamps or pin-up lamps from kits provided by Middle Tennessee Electric.

Cindy and Debby Thorne, daughters of Thomas and Mildred Thorne of Rutledge Lane, near Lebanon, are two 4-H'ers very active in the electric project who have taken advantage of these workshops to make themselves good study lamps. Both girls have given numerous demonstrations on electricity in the Carrol Club, where they are members, and in county contests. Cindy was the county winner in her division this year and represented Wilson County at the district contest.

Cindy and Debby each made a study lamp at a lamp-making workshop last year. They had previously learned, as a part of the electric project, of the necessity for, and the requirements of, a good study lamp. They had learned that a study center should be set up at their home in a quiet spot where they could concentrate on their studies. The study lamp they made was one that met all the requirements to provide glare-free, adequate, diffused light. It was tall enough that the bottom of the shade would be even with the eye when in a studying position, it would spread light over the entire study area, and the bulb size, 150 watts, was adequate to provide enough light to read by.

With their good study lamps, and with the information they have learned about study centers, Cindy and Debby feel that their study periods at home are more productive, and that their eyesight is being protected through good lighting. The 4-H Club is unparalleled as a source of such instruction and information where boys and girls learn by doing.

FOP Opens Camp for Underprivileged Youngsters

Middle Tennessee Electric is privileged to serve a wide variety of electrical loads in its capacity as a rural electric Co-op. Many of these electric services are of such a nature that it is quite gratifying to be able to provide electric service to them. One such service in Wilson county is the Andrew Jackson Lodge #5 of the Fraternal Order of Police Camp, located in Glen Hills on Old Hickory Lake. This camp has been built over the past five years by members of the organization, which is composed of about 125 men who are members of law enforcement or related agencies in Nashville and surrounding counties.

The main purpose of the camp is to provide a free week of summer camp to underprivileged boys and girls from the mid-state area. The camp opened this summer, and in its first week, 51 boys attended. They ranged in age from 9 to 14, and thoroughly enjoyed a week of swimming, boating, tours, games, exhibitions, demonstrations, and many other activities. Without the help of this fine group of men, few of these children would ever experience such a week as this. According to Capt. C. B. Fowlkes of the Safety Department, president of the FOP, many of the children had to be clothed before they could come to the camp.

The campsite, ideally located for its purpose, is composed of an electrically heated barracks and an air conditioned combination cafeteria-activities-meeting room. House trailers are set up for members of the FOP who direct the camp.

Plans call for several different groups of boys and girls to attend the camp for a week each year. The children are chosen by church and charity groups throughout Middle Tennessee.

It is felt by members of the FOP that by providing a camp for these youngsters at such an impressionable age, that a lot of juvenile delinquency may be averted. The funds for the operation of the camp come through donations by interested groups and individuals, and by dues paid by the members. All labor is donated by FOP members and those who direct the camp.
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It's a perfect weekend to visit your local Jim Walter display office. Meet the friendly folks...local people experienced in the building field to better serve you. You are always Welcome! You will never be a stranger to us. So come on out today!

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Jackson, Tennessee
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Phone 422-5461

Knoxville, Tennessee
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Phone 524-2776

Memphis, Tennessee
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ELECTRICAL INSPECTIONS
for SAFETY’S SAKE

By Charles L. Youngerman, Electrification Advisor
Duck River Electric Membership Corporation

The electrical inspection program is designed to safeguard you and your belongings against electrical hazards. An electric wiring inspection tends to assure that the wiring and materials used were tested and approved for their applications and that these materials were installed to meet Electrical Code standards.

Power distributors usually require an approved electrical inspection before permanent electric service is connected on new wiring jobs. Electrical inspections are recommended when major changes are made on any wiring system.

The National Electrical Code and Tennessee Wiring Code cover only the minimum provisions necessary for safety. These codes are not intended as a design specification nor as an instruction manual for untrained persons. The fact that a wiring job passes an electrical inspection doesn’t necessarily mean that it is adequate or that it will continue to be safe from hazards without proper maintenance and updating as additional load is added.

Hazards most often occur because of overloaded wiring and improper use of electrical equipment. All electrical equipment and materials should be tested and listed by a recognized testing laboratory for the application on which it is used. The electrical industry is growing at a very rapid pace and as it does, many Electrical Code changes and revisions are necessary to cover these areas safely.

Adequate grounding is one of the most essential things for a safe electrical system. In the event that a faulty current occurs on a wiring system properly grounded, the fuse on that circuit will blow. This is one good reason grounding type outlets are now required in all new wiring installations. These outlets, as well as much other equipment, must be bonded back to a common ground at the main service entrance.

Only a few years ago mobile homes and travel trailers were wired only with one 15 amp., 120-volt circuit. This industry has boomed in the past decade and today mobile homes can be bought all-electric with the modern appliances enjoyed in conventional homes such as: dishwashers, ranges, water heaters, laundry equipment, central heating and cooling, etc. These homes, many of which require a 100 or 200 amp. service, cease to be classified as a travel trailer to which electric service might be furnished with an extension cord. They must be wired in permanently. However, approved plug-in type cords and special service equipment are available for trailers requiring 60 amp., 240-volt and smaller service entrances.

High limit cut-off switches are safety devices that have become an electrical code requirement on water heaters during the past year. A switch of this type will disconnect electric service to a water heater if the temperature of the water exceeds approximately 190° F. All water heaters now being made and sold in Tennessee are required to have this device on them. The high limit switch provides added protection over and above the pop-off valve that has been a requirement for several years. It eliminates the possibility of a hazardous condition.

An electrical inspection program is operated by the state of Tennessee. It is a function of the Department of Insurance and Banking, Fire Protection Division. Mr. R. E. Ward is the Chief Electrical Inspector for the State and all Deputy Electrical Inspectors work under his supervision.

Most electric cooperatives in the state work very closely with the electrical inspection program. Most cooperatives have Power Use personnel who will assist member-consumers with adequate electrical wiring plans.

We are all interested in safety and believe that safe electrical practices should be contagious. If it’s for Safety —Lend a Hand.
Mr. Glen Cates, Deputy Electrical Inspector, is seen here checking the ground continuity of the service entrance equipment at Mr. J. H. Murray's "mobile city" near Lewisburg, Tennessee.

High limit controls are now a requirement in Tennessee on water heaters. This water heater at the home of Larry Benderman, Maury County, is being inspected by Mr. W. L. Butler, Deputy Electrical Inspector.

Seen here, inspecting a 30-ton unit of air conditioning at the University of the South Library, Sewanee, is Deputy Electrical Inspector W. B. Lawson. The library has more than 100 tons of cooling capacity for its 116,000 square feet of floor space.
The consumer's voice is largely unheard on Capitol Hill. The ordinary man or woman has no lobby. Now and then a U.S. Senator or Representative, noting these unrepresented constituents, makes his mark as the consumers' friend and spokesman. One such was the late Senator Estes Kefauver. No other Senator has been as daring as he was.

Trying hard to protect consumers, however, is Senator Philip Hart of Michigan, who succeeded Senator Kefauver as chairman of the Anti-trust and Monopoly Subcommittee.

Senator Hart authored the so-called "truth-in-packaging" bill, upsetting some industrial giants who fail to see why the consumer needs protection from deception in packages and labels. Industry spokesmen and consumers have filled thousands of pages with testimony on this bill. Senator Hart, after careful study of the stories told the Senate committees, mailed his Michigan constituents a list of ten ways to save money in the marketplace.

1. When the old package or bottle takes a new shape or size, check the content statement — chances are good that you're now getting less for your money.
2. Check the content statement again when you see such words as "new" or "improved" on the old package. These adjectives may shield a drop in amount.
3. Always check the bottom shelves. It's a psychologically established fact that products sell best at eye level. Sometimes, retailers take advantage of this to push a higher profit item on eye-level shelves.
4. Don't assume the largest size in the same product line is the better buy. It may or may not be. The only way to be sure is to figure the cost per ounce.
5. Watch out for the well-displayed "special" at the end of the counter or in the checkout area. One grocer who could not sell a certain canned food at 9c a can dumped them into a large basket at the end of the aisle and marked it: "Special, 10 cans for $1." He sold out in one day.
6. Don't be influenced by compelling color or package design. What's important is the value of the contents. And beware of the large-looking box. It may actually contain less than its smaller appearing competitor. Check that content.
7. Be careful of "cents-off" deals. In some cases they are money-savers. But often they are merely devices to get your attention or to cover up a price increase when the "sale" is over. We found some products that have always been "cents off."
8. Don't be misled by such qualifying adjectives as the "giant half quart." This is merely the old-fashioned pint by a different name.
9. The phrase "less calories" may actually mean less product. Fluffing up the oleo or slicing the bread thinner might make it less fattening per bite but be careful that it doesn't cost more per ounce.
10. Use a pocket calculator whenever possible. It's the only practical way to discover your best buy among competing products that sell for 21c, 32c, and 35c and weigh 16½, 22½, and 26 ounces respectively.

I've tried using these guidelines the past few months in buying weekly groceries. Believe me, it pays off.
During the recent "Good For All Americans" meetings held at three sites across the state of Tennessee, Ray McDonald of the National Rural Electric Cooperative Association made the following pertinent and timely observations:

"Energy provides the material foundation for civilized living. Where man must rely solely on the energy of his own body, he can sustain only the most meager existence. The mortar in the ancient pyramids of Egypt is bonded with human blood. Pharaoh had a very pressing and economic reason for pursuing the Israelites as they fled from Egypt. For with this exodus, Egypt lost the energy equivalent of three diesel locomotives.

"The civilization of ancient Rome fell as a result of Christianity. Two men whose names we shall never know because history failed to record them for us, changed all of history. One stood up and said that it was wrong to pit Christians against lions in the arena. The other, too, stood up and declared that slavery was wrong. Christians—and others—were eventually freed from slavery and Rome fell, for it had no other source of energy.

"Through the electric energy that your groups have made available to rural America, your members enjoy the services of more servants than any queen had 500 years ago, and live far better than did kings. Just by turning on a switch, or by plugging in an appliance your ladies control the energy equivalent of 33 faithful household servants. Each farm has nearly 54 such persons at its command. Every industrial worker in our country today has the energy equivalent of 244 men at his fingertips.

"As you drive home this afternoon 3,000 men will push your automobile along the road. Each automotive engineer controls energy equivalent to that of 200,000 men... each captain of a jet aircraft that of 700,000 men. Well over two million nine hundred thousand men push our giant Atlas rockets into outer space and the human equivalent of one hydrogen bomb is far beyond all of the combined muscle power of mankind since the dawn of civilization.

"This 'control-energy' is a responsibility from which none of us can retreat. For that country which uses its energy capabilities wisely can offer mankind advantages which it has never envisioned. If used unwisely, it can destroy humanity or at least reduce it to the level of bare animal existence from which it would take countless generations to recover.

"The decision is ours—the responsibility is ours. It has taken us untold centuries to face the stark realization that we are not just a part of a community, not just a part of a county, a state, a nation, or even the world. We are actively a part of a universe. And, maybe even of some unknown yet beyond."

**Electrical Gap Closed**

Some idea of how rural Tennesseans have pulled themselves up electrically by means of their rural electric co-ops may be judged through recent information released by the United States Department of Agriculture.

On January 1st, 1935, some 10.9% of the nation's farms were served with central station electric service. In Tennessee on that date, only 3.6% of our state's farms were so served, or 33% of the national average.

By April 1st 1940, the national average had climbed to 30.4%. By that same date 15.7% of Tennessee's farms were being served with central station service, raising our state total to 51.6% of the national average.

By April 1st 1950 the national average had risen sharply to 77.2% of all farms served. Tennessee's total during that 10-year period also soared, to 71.2% of all farms served. That raised our total to 92.2% of the national average.

By June 30 of this year, the national average stood at 98.2% of all farms in our country being served with central station electric service. On that same date this past summer, 98.3% of Tennessee's farms were being served with an abundant and dependable source of inexpensive electricity, thanks to Tennessee's rural electric co-ops and their wholesale power supplier, the Tennessee Valley Authority. At long last, after starting near the bottom of the electric power totem pole, the Volunteer State has made it to the top.

**Farm Population Declines**

This same USDA report also discloses a couple of other points of interest regarding Tennessee's place in the overall agricultural picture. In 1935, Tennessee's farms comprised 4% of all farms in the United States. Today, our farms comprise 4.5% of our nation's farms.

Our total farms, both nationally and in Tennessee, have diminished (or consolidated) at a rapid rate in the past 30 years. Nationally, there are only 48.7% as many farms today as there were in 1935. In Tennessee, we have 55.5% as many farms as we had in 1935.

In summary, agriculture is still a mighty important industry in Tennessee by any basis of judgment or comparison.

Electrically, the need for power in our small towns, rural and farm areas has not much more than begun. Happily, your rural electric co-ops are geared to—and will do—the job.
see the stars every day on 5

COUNTRY JUNCTION
with Eddie Hill
Mon. thru Friday
6:00 A.M.

MORNING NEWS & WEATHER
World at Noon
Merle Emery
7:45 A.M.
12:00 N-12:05 P.M.
Mon. thru Fri.

WLAC-TV BINGO
with Bob Lobertini
Mon. thru Fri.
9:00 A.M.

see the stars every day on

FILMS OF THE 50'S
Fri. & Sat.
10:30 P.M.

DEATH VALLEY DAYS
with Ronald Reagan
SUNDAY
5:30 P.M.—COLOR

VANDY FOOTBALL
Jack Green & Gary Sanders
SUNDAY
Following NFL Game

RADAR WEATHER
with Bob Lobertini
Mon. thru Fri.
6:15 P.M. & 10:15 P.M.

WLAC
TODAY IN SPORTS
with Gary Sanders
Mon. thru Fri.
6:20 P.M. & 10:20 P.M.

BIG NEWS
with Rick Moore
Mon. thru Sat.
10:00 P.M.

MILLION DOLLAR MOVIE
WEDNESDAY
11:30 P.M.
Sun. and Thurs., 10:30 P.M.

WEEK

MARSHAL DILLON
with James Arness
TUESDAY
7:00 P.M.

POPEYE PARTY
with Bob Lobertini
SATURDAY
11 A.M.

FOOTBALL SCOREBOARD
with Bob Lobertini
SATURDAY
6:15 P.M.

NASHVILLE'S NO. 1 TV STATION
TV CHANNEL 5
Tennesseans carry Air Force Cargo to Europe and the Far East as . . .

THE GUARD GOES GLOBAL

by Joseph W. Sloan

The big C-97 transport looked just like any other military airplane, including the distinctive white star and two-foot-high letters that spelled out “U.S. AIR FORCE.” But there was a difference, because high on the tail was painted the name “TENNESSEE,” and just below the name there was a circular emblem. The emblem bore the image of that Minuteman of Revolutionary War fame who, on a moment’s notice, would lay aside his plow and pick up his rifle to fight for his freedom.

This airplane belonged to the Tennessee Air National Guard, and the seven men who climbed aboard on a Friday afternoon had temporarily laid aside their “plows” for a week to help our country in its present military effort. They were to make a routine cargo run to Europe and back, with stops scheduled in Delaware, Newfoundland, England, Spain, the Azores, and Bermuda.

This was the 24th day of September, 1965, and it was the seventh overseas flight to be made that month by the Guardsmen of the 105th Air Transport Squadron at Nashville.

The first stop on this trip was at Dover, Delaware, one of three main terminals of the Military Air Transport Service on the east coast. The cargo for this trip was already assembled on pallets, awaiting the arrival of the Guard plane from Tennessee. Within ten minutes after the plane was parked, the two loadmasters, S/Sgt. Hugh Parchman of Route 2, Mt. Juliet, and SMS Dorman Hayes of Donelson, were loading the cargo.

Parchman normally works as a mail carrier out of the station at Nashville Metropolitan Airport. Hayes is a full-time employee of the Tennessee Air National Guard, whose normal duty is Personal Equipment Technician.

The cargo included a wide variety of shapes and sizes weighing from 7 pounds to 505 pounds. There were 780 pounds of U.S. Mail and a large quantity of movie film for Harmon AFB, Newfoundland. There was also an empty coffin container and 40 pounds of explosive cargo, for the U.S. Air Base at Mildenhall England.

But most of the boxes contained electronic equipment and engine parts.

The flight path carried the Tennessee crew past New York and Boston, and over the Maritime Provinces, and it was 2:30 Saturday morning when they arrived in Newfoundland. This was Canadian country, abounding in small lakes, wooded countryside, and moose. But no recreation was on the schedule for the Guardsmen—only a 15-hour stop for crew rest—and then on the way to England.

The hop across the North Atlantic was the longest going over—slightly over ten hours. The two pilots were Major Joe Mason, the Aircraft Commander, and Major Bill Breen, First Pilot. Mason’s civilian occupation is a pilot for American Airlines. Breen is an insurance agent for Kimbrough-Phillips in Nashville. It was 7 a.m. Sunday, London time, when “MATS 22661” finally touched down at Mildenhall, England.

Even though the pilots had been at work for 12 hours, England was only a 2-hour stop to unload before the final “short” leg down to Spain.
Much of the English countryside was visible through scattered clouds and haze. The Tennessee farmers noted that the British farmers stacked their baled hay in the shape of a house and covered it with loose hay, giving it the appearance of a thatched roof. The flight passed over the Thames River and the eastern part of greater London. The white cliffs bordering the English Channel were clearly visible 8,000 feet below.

From Le Harve to BarBtz, the French countryside was a beautiful expanse of small green fields, spotted with red-roofed villages of various sizes. Crossing the Pyrenees Mountains into Spain, the land below turned brown, and appeared much like the southwestern part of the United States.

The seven men from Tennessee arrived at Torrejon Air Base at 2:30 Sunday afternoon, Madrid time; 30 minutes ahead of schedule, and 42 hours out of Nashville.

The crew was allowed 48 hours in Spain before they had to begin the return trip. Madrid was 22 miles from the air base, and nightfall saw all the crew members in town, riding in little taxis that dodged around, scaring passengers and pedestrians alike. Communications with the Spanish people was a real problem, accomplished with much waving of hands and shaking of heads.

With the help of Major Mason, who had been to Madrid before, eleven p.m. found the Tennesseans standing in line for supper at picturesque Boin's, a three-story inn that is taller than it is wide, and which was last remodeled in 1725. Fish soup (with sea shells in it), roast suckling pig, and wine emphasized the fact that these country boys were a long way from home.

Evening activities normally run well into the morning in Madrid, so a Flamenco dancing performance at Corral de La Moreria was witnessed before the crew descended on the Zurbarano Hotel for what remained of the night.

Monday was spent shopping in downtown Madrid, with the crew buying such memorabilia as silver goblets and swords. The 15-peseta (25 cents) bus ride back to the base carried the crew past the Purina feed mill and the Coca-Cola bottling plant.

There was not a full load of cargo ready at Torrejon, so the crew was given its choice of going to Chatereaux, France; Mildenhall, England; or Rota, Spain, to complete a load for the trip back. Rota, a Naval supply base near the Straits of Gibraltar, was selected since it was closest. It was only an hour to Rota, where five more tons of cargo were taken aboard. Included were two missile guidance control systems and 900 pounds of secret material from atomic submarines, accompanied by an armed courier.

With almost ten tons of cargo, the heavily loaded C-97 now required the full attention of the flight engineers, responsible for delivering maximum power and endurance from the four engines. This work was shared by CMS J. R. King of Hermitage, and S/Sgt. Herbert A. Hedgepath of Nashville. King is a full-time employee and Chief Flight Engineer with the 105th squadron. Sgt. Hedgepath works for a truck rental service.

The flight from Spain to Lajes Field in the Azores was only five hours. The Azores are a collection of picturesque Portuguese islands, strategically located about 1,300 miles west of Spain. The islands include such features as fences made of dark volcanic rock, two-wheeled ox carts, cobblestone highways, and roadsides abloom with hydrangeas, wild roses, and pink lilies.

But it's only another 15-hour crew-rest stop for the Air National Guard, then on to Bermuda, an eleven-hour leg over nothing but water that will require the full and undivided attention of the single navigator on the flight, Maj. John Fletcher of Estill Springs. Maj. Fletcher normally works for the Tennessee Department of Civil Defense, but this night he will be working with the sextant, the Loran set, his computer, and maps, keeping the plane on the proper course over a vast area where the only landmarks are the stars. Fletcher's job was complicated by hurricane Carol, located 450 miles northwest of the Azores, an area to be avoided.

About four hours after they left the Azores, a ground station named "New York Oceanic Control" advised "MATS 22661!" by radio that there was severe turbulence around Ber-

(Continued on page 30)
In Terms of Rural Community Development . . .

Small Watersheds Pay Big Dividends

By Claude D. Crowley
Soil Conservation Service

This is Site No. 13 on Buchanon Hollow, Hudson’s Creek, Jennings Creek Watershed District. Drainage area comprises 697 acres, height of dam is 45 feet, and normal pool is eight acres. The structure was contracted in September 1961 and completed in October 1962. It was seeded to fescue and ladino clover. Total cost was $165,000.

Newspaper carrier Phil Pilcher eased his bike up to the shallow edge of the water which covered Highway 51 about a mile south of Ripley, in Lauderdale County. Floods were nothing new to Phil. People who use the roads around Ripley are accustomed to fording the high water.

Phil thought he could make it across. He kicked off and pedaled into the water, feeling it get deeper as he went. Suddenly the bicycle shifted, and Phil found himself being carried off the highway. With relentless force, the torrent sluiced him over the road’s shoulder. Phil made a desperate grab at a low-hanging willow limb as he was swept into deep water.

Citizens of the 57,000-acre Cane Creek section of Lauderdale County have been plagued with flooding and its associated problems for as long as anyone can remember. Rains as small as one inch in 24 hours send high water spreading over cropland, roads, and bridges.

Such hair-trigger flooding is costly. Almost complete crop losses occurred on some of the county’s most fertile cropland for four consecutive years, from 1956 through 1959. The average annual damage to crops has been estimated at more than $331,000. Discouraged farmers have shifted large acreages to less productive uplands.

Construction recently started on a watershed protection and flood prevention project which will put an end to the danger and insecurity brought about by the bad-acting creek.

The Cane Creek project is in many ways typical of the 27 small watershed programs that are being installed in Tennessee. In the first place, there was an obvious need for teamwork to attack the community-sized problems spawned in the watershed.

But what is a watershed, anyway? “Watershed” means the drainage area of a stream. Large watersheds, like the Cumberland River Watershed, are made up of many smaller ones. Their boundaries are natural, not man-made. Because water does not observe boundaries, it is desirable to treat soil and water management problems in natural units—watersheds.

Usually the welfare of people in small watersheds are closely linked. Many watersheds cover not only rural areas, but sizable towns as well, bringing together rural and urban people to work for their common benefit.

No one had to convince Phil Pilcher’s rescuers of the need for community action on Cane Creek’s floods. Six employees of Ripley’s Universal Electric Company formed a human chain and hauled Phil to safety. Rescued and rescuers escaped with nothing worse than a thorough soaking, shaken nerves, and a muddy bike. This happened in 1964.

The Watershed Protection and Flood Prevention Act, Public Law 566, was passed in August, 1954. This act provides technical and financial assistance to local groups that seek to carry out a watershed conservation project.

In 1958, the Lauderdale Soil Conservation District urged the landowners of the Cane Creek Watershed to organize a watershed district and apply for assistance through Public Law 566. A referendum was held in accordance with
This 73-acre reservoir on Porters Creek was enlarged with funds provided by the Tennessee-Arkansas-Mississippi Council of Girl Scouts. The surrounding property is owned by the Council and the lake and adjoining lands are part of the Girl Scouts' recreational facilities.

Tennessee's Watershed District Act of 1955, and landowners voted for organization 378 to 20. Federal planning aid was approved.

"Our assistance to local watershed groups such as this begins with study," J. R. Sasser, head of the Soil Conservation Service in Tennessee explains. "We first want to know how much landowners can increase water absorption in the soil. The soil is the greatest reservoir of all, and water stored there is available for growing crops or trees, and the surplus trickles down to replenish the water table. This is why land treatment—reforestation, land restoration and seeding, farm ponds, and other conservation practices is the first step in any watershed plan."

Landowners in watersheds carry out the conservation measures with SCS assistance provided through the local Soil Conservation District program. If needed, a special technician is assigned to the watershed to speed up conservation planning. The Agricultural Stabilization and Conservation Service, in many cases, allots extra cost-sharing funds to get the practices on the land faster. Conservation becomes a matter of community spirit, and a source of community pride.

The next step in the typical watershed plan is to build small upstream reservoirs to catch would-be floodwaters after heavy rains. Some watersheds do not require flood detention dams. Some have only one reservoir, while others may have 20 or more, depending on the size and need.

How the construction is financed depends on whether the dam will be just a flood detention dam, or a multiple-
Corrections from Page 21

The flood-detention dams operate like a bucket with a hole in it. The dams built high enough and strong enough to have a flood storage pool. Excess runoff from heavy rains gather behind the dam. A pipe through the dam lets the captured floodwater out at a safe rate. The roads, croplands and communities downstream are protected.

The third step in a typical watershed project is the treatment of the stream channels.

Generations of floods and erosion have filled many stream channels with sand, gravel and debris. Excess water jumps the banks, cutting scour channels and dumping sterile soil, sand or gravel on valuable cropland.

Most watershed plans include a program of cleaning, straightening, and clearing the main and tributary channels for orderly water management.

What are the benefits of watershed projects? Perhaps the best way to answer this question is to give some examples which the reader may someday visit.

One of the best examples of upland conservation may be seen in the Sand Creek Project in Fayette County, Tennessee. In 1954-55, landowners, with the aid of the U. S. Forest Service, U. S. Soil Conservation Service, and Tennessee Division of Forestry, set six-inch-high loblolly pine seedlings on 724 acres of erosion-slashed land. Much of this land had been unproductive for generations.

In 1964, during a thinning operation, selected trees were sold to a post-treating firm. This thinning is part of a long-range program to create maximum rural income while improving watershed values. The landowners received $9 to $10 per acre for trees harvested and the thinning operation removed the less desirable trees and opened up the forest for faster growth.

In neighboring Johnson Creek Watershed, Madison County, about 2,000 acres of new forests, planted on severely gullied land in 1957, are nearing the thinning stage.

Jennings Creek, in Jackson, Macon and Clay Counties, has been termed a "Killer" because one of its flash floods snuffed out the lives of six people in one horror-filled night. A project including the installation of 12 flood detention dams is nearing completion in the 41,600-acre watershed.

Kelly Clark of the Jennings Creek Watershed remembers many hair-raising problems of the past and gives his impression of the present:

"After a storm, I used to park my school bus on the town side of the creek and spend the night with ravaging waters," he asserts, "Now I have no flooding problems!"

A. C. Bilbrey lives below three completed dams on Pine Lick Creek, a large tributary. In March, 1965, a 1.76 inch rain fell on that area.

"It just opened up and let it fall," Bilbrey said. And what about the dams? "They saved us. They just let a little dribble through."

Bilbrey is accustomed to seeing his narrow bottomland fields covered from hill to hill after such a rain.

(Next month: More benefits and how to get started)
Our harvest being gotten in, our Governour sent foure men on fowling, So that we might after a more special manner rejoyce togetheer after we had gathered the fruit of our labours. They foure in one day killed as much fowle as, with a little help beside, served the company almost a weeke."

This quaint old account describes the first Thanksgiving celebrated by the Pilgrim Fathers in October, 1621.

There was plenty of roast turkey, fish, wild fruits from the forests, vegetables from their gardens and corn bread. Not only the Pilgrims but many of the Indians, among them Chief Massasoit, joined in the three days' feasting.

Although we read of Thanksgiving Day being observed each year, it is not until 1636 that we find a record of celebration such as we now keep. During the Revolutionary War, the Continental Congress appointed December 18, 1777, to be observed as a "Thanksgiving Day." President Washington issued a proclamation recommending that November 26, 1789, be kept as a day of national thanksgiving. President Lincoln set aside the last Thursday in November and until 1939, each President followed Lincoln's proclamation. In that year, Franklin D. Roosevelt named the next to the last Thursday as the date of celebration, but the December, 1941, Congress passed a resolution making the fourth Thursday a legal holiday.

Today, the American people have much to be thankful for. Unlike our Pilgrim fathers, our harvest is gathered for us and brought to our tables. Let us give thanks that we live in a land of plenty and a land of freedom.
December brings the magic of Christmas that penetrates the home as no other holiday season can. Christmas is a family affair and each year as this joyous season approaches, we once again have an opportunity to show our loved ones our affections through gifts we select for them.

Gifts especially desired are those which can be used each day and while they are being used still add beauty to the home. There is much to be said in favor of giving electrical appliances to the house as Christmas gifts. Fortunately, ideal gifts that say exactly what you want them to are plentiful.

A Christmas present of music will not only put a sparkle in every eye and a song in every heart as you hear the familiar melodies of “Silent Night” and “Adeste Fidelis” on Christmas morning but will give year-round pleasure to the entire family. This gift of music could be a stereo, black and white or color TV, a console TV-record player, AM-FM radio or an electric organ. Any of these will be enjoyed each day and in addition will add beauty to your home.

A modern frost-proof or frost-free food freezer tied with a big red bow would certainly make an ideal gift. The freezer will pay big dividends to the homemaker as she sees her family has the well-balanced meals they need each day of the year. With the freezer she can plan ahead, cook ahead, and serve nourishing meals in a minimum amount of time. Each member will benefit in that every day will be a holiday as far as delicacies from the freezer are concerned.

High on the list of most wanted gifts very well might be an electric range—the homemaker’s best friend. Once it was the homemaker who “watched the pot”—today the modern electric range has taken over this duty, thus freeing the homemaker for other more enjoyable activities.

Electric ranges, whether free-standing or built-in, have many features truly designed with the homemaker in mind. Features such as: built-in meat thermometers, rotisseries, timers, automatic over controls, and doors that lift off to ovens which pull out for easy cleaning, not to mention those ovens designed to be cleaned electrically.

A gift that is sure to delight every member of the family is an appliance which takes over the most disliked of household chores. Why, of course, it’s an automatic dishwasher. Christmas dinner as well as all other meals will be more pleasant if there is a dishwasher no further away than your kitchen.

An ideal gift which will be greatly appreciated is an automatic washer and dryer. Washday blues will take on another color—a cheery one—for the family laundry can be done anytime of day in any kind of weather.

Yet another gift which is sure to please is a quick recovery electric water heater to supply all the hot water needed both day and night.

To make this a truly family Christmas, one that will be remembered a long time, why not plan a gift of an electric heating and cooling system for your home. One which will enable you to enjoy a pleasant physical environment regardless of the season.

Perhaps you may prefer to light up your home for a brighter 1965 Christmas in a way which will provide modern light for living to be enjoyed for years instead of days.
Now with the spirit of Christmas already in the air why not set aside a day for the pleasant task of making several batches of candies and goodies to have plenty to serve family and guests who drop by to wish you a Merry Christmas.

I doubt there is even a dieter so strict but that he or she won’t throw discretion to the winds during the holidays and enjoy some of those homemade candies and goodies.

**CHOCOLATE COCONUT DIPS**

- 3/4 cup sugar
- 3 tablespoons water
- 1 cup, minus 1 tablespoon, light corn syrup
- 4 cups flaked coconut
- 1 package (3 squares) semi-sweet chocolate, cut in pieces

Combine sugar, water, and corn syrup. Heat to boiling. Add coconut and cook until small amount of syrup forms soft ball in cold water (or until candy thermometer shows 236° F.). Drop from teaspoon in uneven balls on wax paper. Cool. Melt chocolate over warm (not boiling) water. Allow it to cool slightly. Drop coconut centers in chocolate, lift out on wax paper, cool until firm. Makes 5 dozen candies.

**Favorite Caramels**

- 2 cups sugar
- 1/2 lb. butter
- 1 1/2 cups corn syrup
- 1 can (14 1/2 oz.) evaporated milk
- 1 1/2 tablespoons vanilla
- 1 cup chopped nuts

Place all ingredients except vanilla and chopped nuts in saucepan. Cook over high heat until candy thermometer reaches 210° F. Reduce heat and continue cooking, stirring constantly, until thermometer registers 244° F. or when a small quantity forms a hard ball when dropped in cold water. Remove from heat, add vanilla and chopped nuts. Stir vigorously and pour into greased pan. When cold, turn out, cut into squares and wrap each square in waxed paper.

**Date and Nut Roll**

- 1/8 teaspoon salt
- 1 egg white
- About 3 1/2 cups sifted confectioners sugar
- 1 tablespoon butter or margarine
- 1 teaspoon vanilla
- 12 pitted dates, chopped
- 1/2 cup chopped pecans or walnuts


Often, though not always, these one-of-a-kind gifts are expensive. They will, however, bring unexpected dividends in the quality of family living. Why not this year plan a gift which will be pretty and practical for your home. One the entire family can enjoy each day of the year.

NOVEMBER, 1965
Will Your Livestock Drink Through Chopped Ice Holes?

While water is the cheapest ingredient in your feeding program, it is often neglected during the winter months. It is vital that animals have plenty of fresh, clean water, temperature-controlled so that they will drink all they need. Having water available 24 hours a day, every day of the year enables your animals to reach their peak efficiency in the conversion of feed to meat, milk and eggs.

Automatic electric livestock waterers are the answer, automatically providing all the necessary water at a drinkable temperature regardless of the outside temperature.

Fifty to 80 percent of the animal’s body weight is water. For this reason water is so important. Year-old beef steers or heifers, weighing 1,000 pounds, will drink about 12 gallons of water a day or 4,380 gallons a year. Will you be able to provide your livestock with this amount of water without having to break ice in the water tanks during the coming winter months?

Water is perhaps most important to the dairy herd. Dairy cows will drink from 80 pounds of water for the lightest milker to 190 pounds for the heaviest milker. With milk being 87 percent water it is easy to see why they will drink as many as 10 times daily if water is available.

Research has shown that ice-free water can increase dairy cow water consumption by 18 percent. Automatic electric livestock waterers provide ice-free temperature-controlled water regardless of the time of year . . . economically increasing your profits.

The automatic electric waterers are available for all types of livestock—whether it be poultry, beef or dairy cattle, hogs, sheep or riding horses. Waterers are available which will serve two pens at once or are a combination unit which will water cattle or horses and hogs. There also are automatic electric waterers for your individual poultry needs.

Automatic electric waterers which are operated with a pump jack instead of a pressurized system are available. These enable farmers to utilize a pump jack which would otherwise have a limited use because of the annual winter fight against ice.

Farmers should take care in anticipating their needs when purchasing a waterer to obtain maximum operational economy. When the correct size waterer is used the constant change of fresh water brings in well-temperature water, cutting down the length of time the electric heating element must operate.

As a rule of thumb, a general purpose bowl will handle up to 30 head of cattle or 60 hogs with a large combination waterer handling up to 150 cattle and 250 hogs.

Water should not be heated above 45°F. as tests show that it is neither profitable or necessary. You can easily double your operation costs by heating a few degrees above this temperature.

Not only do the automatic electric livestock waterers provide water in the winter but they keep the water cool in the summer. Ohio and Missouri researchers have found that feeder cattle with access to 65°F. water in summer, gained from .26 to .44 pounds per head per day than checklot steers with access to water heated by the sun to 89°F.

Regardless of the type of automatic electric livestock waterers which you install, proper grounding is absolutely essential to prevent electric shock in case a short should ever occur in the electrical parts. Information concerning the installation and grounding can be obtained at your electric cooperative office.

Winter is almost here. An automatic electric livestock waterer installed now will erase winter water worries. Your livestock can have plenty of temperature-controlled water . . . and you’ll never have to break ice on those cold, blustery mornings.
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- SLIDE-OUT SHELVES
- TWIN CRISPERS
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- BUTTER SPREAD CONTROL
- CONSTANT COLD CONTROL
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I certify that the statements made by me above are correct and complete. John E. Stanford, Editor.

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Aircraft commander Joe Mason checks out weight of cargo with loadmasters Dorman Hayes and Hugh Parchman.

muda, with winds gusting to 65 mph. All aircraft heading for Bermuda were being diverted to other fields. After consulting with navigator Fletcher and flight engineer King, aircraft commander Mason altered course in mid-Atlantic, and headed for Newfoundland, which had been selected, even before take-off, as one of the possible alternate destinations should Bermuda be closed.

After crew-resting at Newfoundland, it was only five hours to Dover to unload, and three more hours to Nashville, and home, on Thursday night.

In less than a week, the Tennessee Guardsmen has logged almost 50 hours of flight and traveled over 11,000 miles. By Friday morning, these modern-day Minutemen had laid aside their Air Force "Blues" and once again picked up their mailbag, typewriter, or "plow," as the case may be, and continued their civilian occupations.

NATIONAL GUARD continued from page 19...

Such global operations as this are a relatively new mission for the Air National Guard. The Nashville squadron shifted from RF-84 jets to the C-97 transport planes in April 1961. The Tennessee Guard squadron at Memphis, and 23 other units across the nation, also converted to transports about the same time. This gave the Guard a new face, with 200 heavy transport aircraft, and the opportunity to make real contributions to the nation's peace-time military operations.

Previous history had cast the Guard largely in the role of "weekend warriors," playing soldier and being held in reserve until needed to fight a war.

Now, however, the Air National Guard makes significant contributions in support of the active military establishment, with approximately 75 overseas cargo flights per month as a part of the Military Air Transport system.

Guard crews based at Nashville have made flights during 1965 into Viet Nam, Bangkok, Tokyo, Panama, Brazil, France, England, Germany, Spain, Italy, Greece, Scotland, and many points in between. The crews fly the regular routes they would fly if they were called to active duty, becoming familiar with all the procedures, from how to properly load the aircraft, to how to navigate the congested airways of the small European countries.

Besides the overseas flights for MATS, the Air Guard has made other real work to perform. During 1965, the Nashville squadron has participated in a large number of "mercy flights," transporting critically ill patients to special hospitals around the country.

And hardly a weekend passes during the summer without scores of Air Guard planes being used to carry other Guardsmen to-summer camp. This past summer, over 30,000 Guardsmen were airlifted to-and from-their field training sites by the Air Guard, hitting a peak of 201 flights in one week.

The airplane used are older types, C-97s and C-121s that the Air Force has replaced by jets. But maintenance is excellent. There has been a few incidents where engines caught fire or landing gear malfunctioned, but there has not been a single crash or fatality in over four years' operation of the 200 aircraft.

The significant thing about the NEW GUARD, the GLOBAL GUARD, is that it is already a part of the Air Force team. If the Tennesseans were called to active duty tomorrow, there would be no change in the work they have been doing for the past four years . . . there would just be more of it.

(The author, Joseph W. Sloan, is Director of Member Services for the Middle Tennessee Electric Membership Corp. at Murfreesboro. He holds the rank of Major in the Tennessee Air National Guard, and is Communications-Electronics Staff Officer for the 118th Air Transport Wing Headquarters in Nashville. Two of the crew members named in the story are Co-op members. Hugh Parchman is served by Middle Tennessee Electric, and John Fletcher is served by the Duck River Electric Membership Corp.)

THE TENNESSEE MAGAZINE acknowledges with regret the death on October 18 of Ewing Hoskins, Manager of Tri-County Electric Membership Corporation, Lafayette, Tennessee. Hoskins, 54, had devoted some 25 years of his life to the cooperative rural electrification program.

He had been Manager of Tri-County EMC since the late 1940's. He is survived by his wife, one daughter and two grandchildren.
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