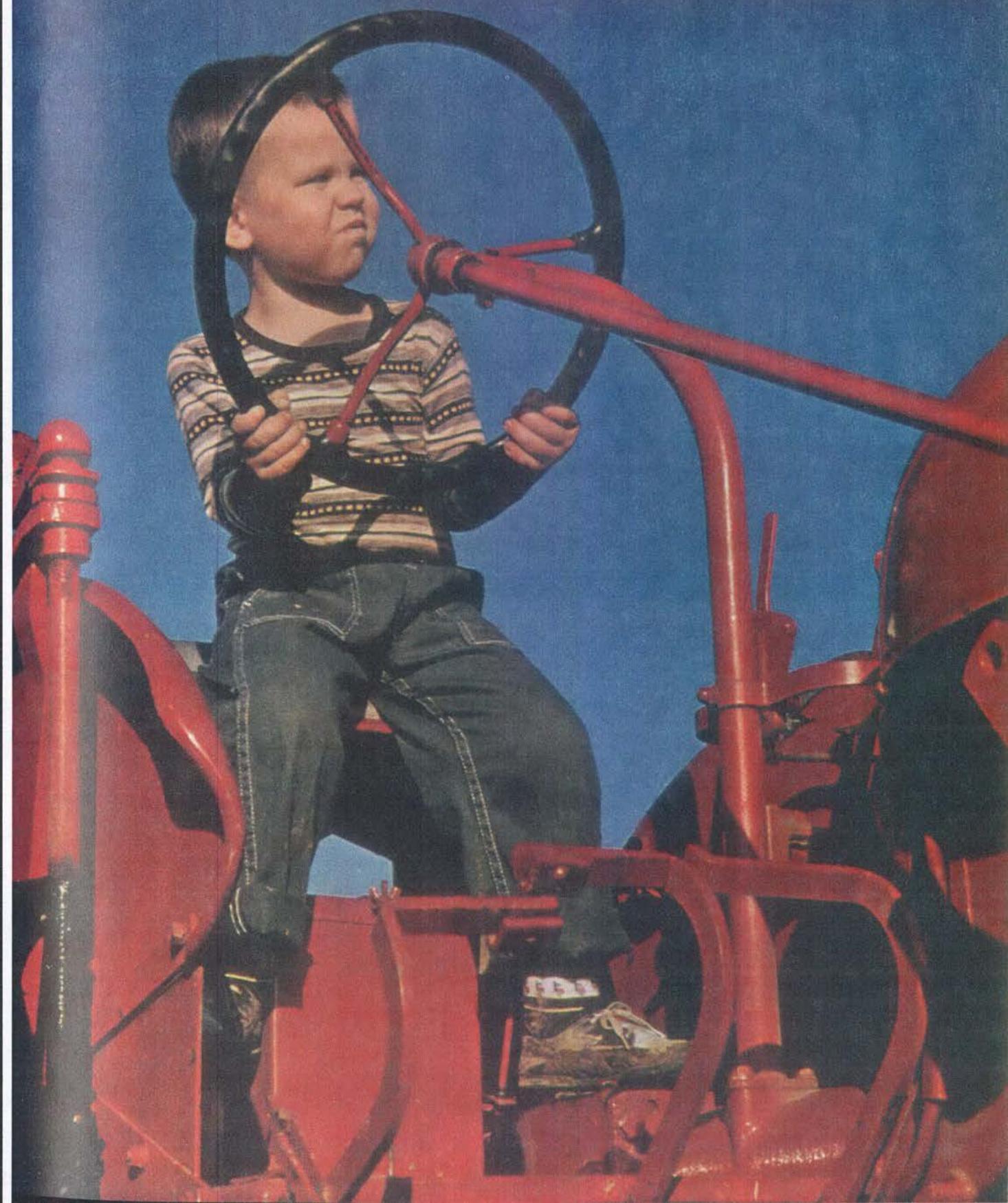


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COMPLETE APRIL SCHEDULE WLAC-TV NASHVILLE

5:45-6:00 AM	Farm News—Mon. thru Fri.	10:00-10:30 AM	Andy of Mayberry—Mon. thru Fri.	1:00-1:30 PM	Password—Mon. thru Fri.
6:00-7:00 AM	Sunrise Semester—Sunday	10:00-10:30 AM	Tom & Jerry (c)—Saturday	1:00-1:30 PM	Linus—Saturday
6:00-7:45 AM	Country Junction—Mon. thru Fri.	10:30-11:00 AM	Faith For Today—Sunday (c)	1:30-3:00 PM	CBS Sports Spectacular—Sunday
6:30-7:00 AM	Sunrise Semester—Saturday	10:30-11:00 AM	Dick Van Dyke—Mon. thru Fri.	1:30-2:00 PM	House Party—Mon. thru Fri. (c)
7:00-8:00 AM	Singin' Time in Dixie—Sunday	10:30-11:00 AM	Quick Draw McGraw (c)—Saturday	1:30-3:00 PM	Action—Saturday
7:00-8:00 AM	Eddie Hill Variety Show—Saturday	11:00 AM-12:30 PM	Hollywood Spectacular—Sun.	2:00-2:25 PM	To Tell The Truth—Mon. thru Fri.
7:45-8:00 AM	Morning News: Weather—Mon. thru Fri.	11:00-11:25 AM	Love of Life—Mon. thru Fri.	2:25-2:30 PM	Doug Edwards CBS News—Mon. thru Fri.
8:00-9:00 AM	Heaven's Jubilee—Sunday	11:00-12:00 N	Popeye Party—Saturday	2:30-3:00 PM	The Edge of Night—Mon. thru Fri.
8:00-9:00 AM	Captain Kangaroo—Mon. thru Fri.	11:25-11:30 AM	CBS News—Mon. thru Fri.	3:00-3:30 PM	Spelldown—Sun.
8:00-8:30 AM	Heckle & Jeckle (c)—Saturday	11:30-11:45 AM	Search for Tomorrow—Mon. thru Fri.	3:00-3:30 PM	The Secret Storm—Mon. thru Fri.
8:30-9:00 AM	Tennessee Tuxedo (c)—Saturday	11:45-12 N	The Guiding Light—Mon. thru Fri.	3:00-4:00 PM	CBS Golf Classic—Saturday
9:00-9:30 AM	Heavens Jubilee—Sunday	12:00 N-12:05 PM	World at Noon—Mon. thru Fri.	3:30-4:30 PM	Movie—Sun.
9:00-9:30 AM	Spellbound—Mon. thru Fri.	12:00 N-12:30 PM	My Friend Flicka (c)—Saturday	3:30-4:00 PM	Lloyd Thaxton Show—Mon. thru Fri.
9:00-9:30 AM	Mighty Mouse (c)—Saturday	12:05-12:30 PM	Singing Convention—Mon. thru Fri.	4:00-5:30 PM	Big Show—Mon. thru Fri.
9:30-10:00 AM	Pattern for Living—Sunday	12:30-1:00 PM	U. S. Farm Report—Sunday	4:00-5:00 PM	Daktari—Sat.
9:30-10:00 AM	The McCoy's—Mon. thru Fri.	12:30-1:00 PM	As The World Turns—Mon. thru Fri.	4:30-5:00 PM	Amateur Hour—Sunday (c)
9:30-10:00 AM	Lassie—Saturday	12:30-1:00 PM	Sky King—Saturday	5:00-5:30 PM	Twentieth Century—Sunday
10:00-10:30 AM	Camera Three—Sunday	1:00-1:30 PM	The Faceoff—Sunday	5:00-6:00 PM	Lloyd Thaxton Show—Saturday

SPECIALS: 4/9 & 4/10 — MASTERS GOLF TOURNAMENT

TIME	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5 45	Death Valley Days (c) Death Valley Days (c)	CBS Evening News (c) with Walter Cronkite	CBS Evening News (c) with Walter Cronkite	CBS Evening News (c) with Walter Cronkite	CBS Evening News (c) with Walter Cronkite	CBS Evening News (c) with Walter Cronkite	Lloyd Thaxton Lloyd Thaxton
6 15 45	Lassie (c) Lassie (c) My Favorite Martian (c) My Favorite Martian (c)	Newsbeat Radar Weather; Sports To Tell the Truth	Newsbeat Radar Weather; Sports Hazel Hazel	Newsbeat Radar Weather; Sports Lost in Space Lost in Space	Newsbeat Radar Weather; Sports The Munsters The Munsters	Newsbeat Radar Weather; Sports The Wild, Wild West The Wild, Wild West	Newsbeat Radar Weather; Sports Jackie Gleason Jackie Gleason
7 15 30 45	Ed Sullivan (c) Ed Sullivan (c) Ed Sullivan (c) Ed Sullivan (c)	I've Got a Secret I've Got a Secret The Lucy Show (c) The Lucy Show (c)	Marshal Dillon Marshal Dillon Red Skelton (c) Red Skelton (c)	Lost in Space Lost in Space Beverly Hillsbillies (c) Beverly Hillsbillies (c)	Gilligan's Island (c) Gilligan's Island (c) My Three Sons (c) My Three Sons (c)	The Wild, Wild West The Wild, Wild West Hogan's Heroes (c) Hogan's Heroes (c)	Jackie Gleason Jackie Gleason Secret Agent Secret Agent
8 15 30 45	Perry Mason Perry Mason Perry Mason Perry Mason	Andy Griffith (c) Andy Griffith (c) Movie of the Week (c) Movie of the Week (c)	Red Skelton (c) Red Skelton (c) Peticoat Junction (c) Peticoat Junction (c)	Green Acres (c) Green Acres (c) Dick Van Dyke Dick Van Dyke	Thursday Night Movie (Most in color) Thursday Night Movie (Most in color)	Gomer Pyle (c) Gomer Pyle (c) Smothers Brothers Smothers Brothers	Secret Agent Secret Agent Sat. Night at the Races Sat. Night at the Races
9 00 15 30 45	Candid Camera Candid Camera What's My Line What's My Line	Movie of the Week (c) Movie of the Week (c) Movie of the Week (c) Movie of the Week (c)	CBS Reports CBS Reports CBS Reports CBS Reports	Danny Kaye (c) Danny Kaye (c) Danny Kaye (c) Danny Kaye (c)	Thursday Night Movie (Most in color) Thursday Night Movie (Most in color)	Trials of O'Brien Trials of O'Brien Trials of O'Brien Trials of O'Brien	Gunsmoke Gunsmoke Gunsmoke Gunsmoke
10 00 15 30 45	Sunday Night News Weather—Woods' Waters Million Dollar Movie Million Dollar Movie	Movie of the Week (c) Big News Radar Weather—Sports Art Linkletter's	Big News Radar Weather—Sports Million Dollar Movie Million Dollar Movie	Big News Radar Weather—Sports The Loner The Loner	Big News Radar Weather—Sports Million Dollar Movie Million Dollar Movie	Big News Radar Weather—Sports Films of the 50's Films of the 50's	Saturday Night News Radar Weather—Sports Films of the 50's Films of the 50's
11 00 15 30 45	Million Dollar Movie Million Dollar Movie Million Dollar Movie Million Dollar Movie	Talent Scouts Art Linkletter's Talent Scouts	Million Dollar Movie Million Dollar Movie Million Dollar Movie Million Dollar Movie	Million Dollar Movie Million Dollar Movie Million Dollar Movie Million Dollar Movie	Million Dollar Movie Million Dollar Movie Million Dollar Movie Million Dollar Movie	Films of the 50's Films of the 50's Films of the 50's Films of the 50's	Films of the 50's Films of the 50's Films of the 50's Films of the 50's

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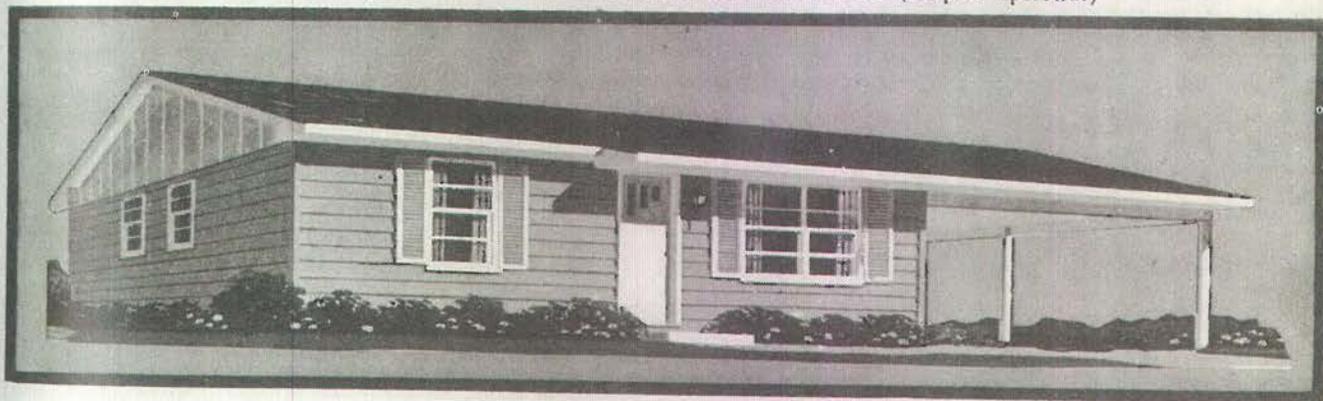
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To The Point

by John E. Stanford

It has been said, with more than a semblance of wisdom, that there is little or no need to tell your troubles to other people. Half of them have more troubles than you have... and the other half are glad to see you get what's coming to you.

Happily, however, sometimes what we get is not bad, such as a recent letter which we received from Tennessee's First District Congressman, Jimmy Quillen, along with an enclosure of a Congressional Record for a certain day. For some reason Mr. Quillen



STANFORD

thought enough of this column in the January 1966 issue, about "Typical Americans," to have it reprinted in the Congressional Record.

There are many other traits of "typical" Americans which were not included there, and won't be here. But certainly one which should be mentioned is our insistence on mis-naming and in getting preconceived ideas about things without first getting the facts. In the eyes of many, especially non-members, the cooperative rural electrification program has suffered no little simply because facts were not made parts of opinions. Sometimes we only take a part of a story and let that be the whole story, even though it has another side.

Some evidence along this line came into clearer focus for us in February when we journeyed to Las Vegas, Nevada for the Annual Meeting of the National Rural Electric Cooperative Association. After flying across thousands of square miles of desert land without a trace of vegetation of any kind, we arrived at Las Vegas, which is still desert but with buildings and lots of lights. (The light bill of one motel is a mere \$35,000 per month.) One of our first questions was the meaning of the name of this city in the middle of the desert. We were told that "Las Vegas" means "The Meadows." Whoever named that land "meadow" apparently spoke a different language from what we speak in Tennessee.

But the promotion of Las Vegas as an Annual Meeting site was not in the least misleading. We have been attending such meetings since 1951 and, taking all the major needs of such a meeting into consideration—comfortable housing for some 10,000 persons, reasonable room and eating rates, an auditorium large enough and suitably equipped to handle the huge delegation in one place, and the over-all nearness of rooms to the auditorium—we doubt that this huge convention has ever been held in a more accommodating city.

One illustration bears out how many "typical" Americans tend to form judgments based on half a story. Most of us know—and it's a fact—that Las Vegas is the biggest gambling center in America. What most of us do not know, or don't bother to admit that we know, is that Las Vegas also has the largest number of churches per capita of any city in America. It also has one of the lowest juvenile crime rates in our nation. Perhaps this points up the basic truth that what we think is bad is generally not all bad.

The meeting, as we point out a bit further over in this issue, was excellent. Tennesseans can take pride in the excellent manner in which Paul Tidwell of Centerville carried out his presiding and other duties as President of the National organization. They can also take pride in the excellent image projected for her state by Sherry Dawn Odum, participant in the Beauty Contest as Miss Tennessee Rural Electric.

All states can take pride in the excellent attendance of all sessions of their delegates. As Louisiana Governor John McKeithen remarked: "This is the first convention that I've been to where the delegates attend the meetings. This is one of the reasons that your program is such a great one. You believe in your program and you back-up what you believe in."

True, there was very little grass in "The Meadows," but there was plenty of food for thought and sound actions. You and your program were well and ably represented and must continue to be so if it is to continue to serve in the best interests of all concerned.

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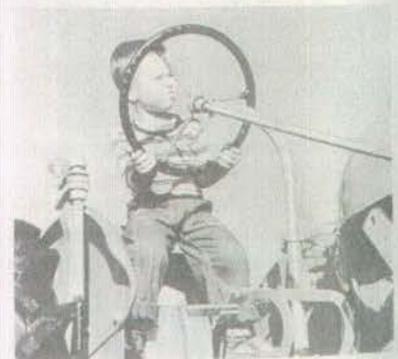
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Record Crowd Attends *NRECA* Annual Meeting

By John Stanford

The largest-ever gathering of rural electric co-op managers, directors, key employees and friends of the program convened in Las Vegas, Nevada, in February for the 24th Annual Meeting of the National Rural Electric Cooperative Association. Official registration was 8,943, slightly fewer than 200 of which hailed from Tennessee.

Possibly the busiest one person at the Annual Meeting was Paul Tidwell of Centerville, Tennessee, who completed a highly successful first year as President of the National Rural Electric Cooperative Association and who was elected to a second term at the NRECA helm. Tidwell, Manager of Meriwether Lewis Electric Co-op, Centerville, presided over two of the five General Sessions held during the 4-day meeting in addition to a Special Session of the entire delegation. He also made the presentation of two major awards, one following the Miss National Rural Electrification beauty contest, won by Miss Jan Brown of Texas. Kentucky's Gail Storm was runner-up in the contest while third place went to Jane Ellen Loos of Wisconsin.

Tennessee's Sherry Dawn Odum didn't place in the top three but was a



N.R.E.C.A. PRESIDENT PAUL TIDWELL:
"Two thousand years ago, The Great Teacher pointed out that our neighbor is everybody everywhere. The rural electrification program as you and I know it embodies this spirit when the political and economic problems are stripped away. The core of our program — its very heart — is helpfulness."



CLYDE T. ELLIS, General Manager of N.R.E.C.A. since its organization almost a quarter of a century ago, promised from a sick-bed following a massive heart attack and stroke in September that he would attend the 24th Annual Meeting. He did and received a rousing welcome on each of three trips to microphone.

gracious competitor who represented her state well in every way.

Among the other Tennesseans who served in official capacities at the Annual Meeting, as members of Standing Committees, were Cumberland EMC Manager John Dolinger, Pickwick Electric Co-op Manager William Roberts, Middle Tennessee EMC Manager W. W. McMaster, and Southwest Tennessee EMC Attorney John W. Norris. In the Ladies' Section, Mrs. McMaster served on the Women's Activities Committee.

Among the featured General Sessions speakers was Aubrey Wagner, Chairman of the Tennessee Valley Authority Board of Directors, Knoxville. Graham Wells, also of TVA, was a speaker on one of the fifteen panels conducted during two 2 1/2-hour Sectional Meetings.

Always a feature to NRECA delegates from the Volunteer State is the annual Tennessee Breakfast, and 1966 was no exception. Virtually every Tennessean attended the Breakfast, along with a sprinkling of invited guests.

Although the meeting was addressed by a host of nationally-known speakers, the liveliest session of all was the final one at which the 1966 Resolutions were presented for consideration and vote of the voting delegates. As it should be the privilege of any democratic organization, as is



N.R.E.C.A. ACTING GENERAL MANAGER JERRY ANDERSON: "We have recognized that just as the unmet needs of the Thirties led to the institution of such great social programs as rural electrification, so do the needs of the Sixties cry out for bold and creative solutions.... Just as rural America was dark in the thirties, the cities are blighted in the Sixties."

NRECA, the resolution on a Supplemental Financing Program drew opposition from a small minority of the voting delegates who prolonged a showdown vote by a series of opposition speeches and parliamentary procedures. So skillfully and fairly did President Tidwell handle this session that, after the final vote was taken on the Supplemental Financing



SECRETARY OF STATE DEAN RUSK: "I am keenly aware of the extremely valuable contributions your Association and its members are making to one of the fundamental parts of the foreign policy of the United States: aid to the developing countries. When we help other free nations to move forward—economically, socially, and politically, we help to build a more peaceful world."

resolution (which passed by an overwhelming majority), the entire audience rose and gave the Tennessean a round of applause. (In this reporter's more than 15 years in the program, this is the first time, in his memory, that a rousing show of appreciation of this type and for this reason has been accorded a presiding officer of the Association.)

Perhaps the most welcomed "presence" at the Annual Meeting was that of NRECA General Manager Clyde Ellis, who was stricken with a massive heart attack and stroke last September. Mr. Ellis, who has made a valiant recovery from the heart attack and is still undergoing therapy for paralysis remaining in his left arm and leg, was accorded a cheering welcome from the thousands of delegates who attended every General Session.

The Supplemental Financing resolution mentioned earlier, and which received overwhelming passage, urged "the Administration and the Congress in the interest of a sound and ultimately financially indepen-



MISS TENNESSEE RURAL ELECTRIC, SHERRY DAWN ODUM of Mt. Juliet, tells some 10,000 persons attending the National beauty contest what rural electrification has meant to her and her family. Odums are served by Middle Tennessee EMC.



R.E.A. ADMINISTRATOR NORMAN CLAPP: "To witness and be a part of this vast assembly, to feel your dedication to public service—all this is an annual reassurance that rural electrification is in good hands. It is a mighty testimonial that powerful forces are at work in the progress of rural America and laying firm foundations for the Nation's future."

dent rural electrification program to help us alleviate the rural electric loan fund shortage now upon us and provide for increasing capital for future growth by adopting supplemental financing."

Among the national figures appearing at the NRECA Annual Meeting were Secretary of State Dean Rusk, U.S. Senator Alan Bible of Nevada, Governor John McKeithen of Louisiana, U.S. Senator John Sherman Cooper of Kentucky, U.S. Representative Edith Green of Oregon, U.S. Representative Robert Poage of Texas, U.S. Representative Lynn Stalbaum of Wisconsin, TVA Chairman Aubrey Wagner of Knoxville, Tennessee, U.S. Senator Howard Cannon of Nevada, and U.S. Senator Fred Harris of Oklahoma.

Perhaps it was Secretary of State Dean Rusk, a Georgia native, who made the meeting's best summary of the cooperative rural electrification program when he stated: "In this special advance in human well-being (in rural and farming areas) the rural electric cooperatives had had a far-reaching role."

The record attendance at Las Vegas of dedicated and inspired leaders gives reason to believe that this far-reaching role is going to increase in importance and vigor for quite some while to come.

Homemakers Are Looking For More STORAGE SPACE

With more and more gadgets and varied sized pieces of essential home furnishings, the need for more storage space for each family member is in greater demand.

Before the size of a closet or room is definitely decided upon, it is wise to measure the shelf space in an existing closet and then measure the hanging length of clothes which would be placed in the designated area. Also, measure the shoulders of a top coat, measuring the space needed for shoes, both width and heel size. Give some consideration to the air space needed above and around clothes, as they are hanging pushed together, or well spaced to avoid crushing and wrinkling as they hang stored in the closet.

Storage is needed for out of season clothing, sports and athletic materials, as well as travelling luggage pieces.



Shelves and cabinets holding children's toys and books arranged near the open fire are always accessible for use for David and Russell McDaniel and their mother, Mrs. Gerald McDaniel, Route 1, Brighton.

Brooms, dust pans, mops, vacuum cleaners, extra dining table leaves, card tables, folding chairs, are a few of the many things common to every family's planning for storage in a home, other than clothing storage.

Seldom do we find a family who can say that they have more storage space than they need and use. Most closets and especially bedroom closets are



Mrs. Jordan Bruce, Route 1, Vildo, has planned her kitchen so that her waste basket will roll out on a frame under her pull-out chopping board. Also, her pull-out knife rack is located under the pull-out board in order for her to easily select the knife she desires to use. Too, this rack is built so that the knife blades can hold their sharp edges longer by fitting into the constructed slots.

crowded beyond their capacity. Too often the size of a closet is determined by what can grudgingly be spared between two rooms.

Storage and closet areas are always difficult to enlarge or remodel after a home is constructed. A his and her closet is the result of fine family planning in the master bedroom area.

Shelves should be constructed to accommodate and hold a definite quantity of materials of specific sizes, shelves spaced twelve inches apart might not be sufficient for the needed use.

It is most regrettable when platters and dinner plates are forced to stand on their edges because the shelves are too narrow for them to sit flat.

Many new houses have such hampered storage to contend with from the time it is first used.

Most men and women need a desk of their very own for their work, files, and activities. Children can be en-

couraged to do a better type of home studying and project work if they have drawers and desk work areas which are well lighted for their individual uses.

The members in every family are varied in their height and hobbies. For this reason every new or remodeled home should be planned with the



A serving cart blends smoothly into the base cabinet areas in a panelled kitchen. One end of the cart is finished in panelling and French molding to appear like the entire cabinet area. When the cart is not in use the front of the cabinets are unbroken, when the cart is in use, there is a vacancy or break in the cabinets.

*Foods, Facts
and Fashions*

By Elizabeth Kendall
Home Economist
Southwest Tenn.
Electric Membership Corp.



Melanie Bruce, Route 1, Vildo, enjoys playing at her window seat which has storage under the lid and in drawers, built underneath. The window seat is at the end of her study desk in her bedroom.



It is most convenient to have a storage closet in the utility room area. This is located near the master bedroom. This closet holds the all weather coats and work clothes on racks and shelves, as well as giving sufficient room for the water heater and storage of the floor polisher and vacuum cleaner.



Stairs which pull down for extra home storage are very convenient when located near the kitchen door; with the landing on the top back step, Mr. Jordan Bruce is folding up his stairs.



Broom, mop in a storage closet located near the kitchen is most convenient for Mrs. Gerald McDaniel, Route 1, Brighton. Also, base and wall cabinets located around the refrigerator are serviceable, especially when filling or removing foods for meal preparations.

present family members' needs and height.

Women usually are in the home more than any other family members and their realizations of the needs for more storage is a problem to be handled after the homemaker has been consulted.

Some guides for storage are: 1. Place supplies and utensils within easy reach of the area where they will be most often used. This means the articles should be easy to see, which would avoid cluttered shelves. 2. Have drawers to pull out, in order to avoid losing articles on a shelf or in corners. 3. Heavy articles as pots and platters should be in easy reaching and lifting spaces. 4. Seldom used articles could be stored in less accessible shelf areas.

In our kitchens we consider a good step stool an essential piece of equipment to help extend the homemaker's reach to higher shelves.

Built-in ovens offer excellent drawer space areas under the oven, rather than shelves and cabinet doors which require much bending and stooping.

Cutting boards which pull out will give extra helpful and useful working space, as well as, an area where slaws can be cut up, sandwiches trimmed and sliced, and allows a place for a good chopper and sausage grinder to be effectively attached for food preparations.

Narrow sectioned drawers are helpful in arranging for the cutlery and mixing pieces. This aids in keeping sharp edges on cutting knives.

"A place for everything and everything in its place," is a time honored principle of storage for every home.



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the *Dedicated* Dean

By John E. Stanford

Persuading a lady to talk has never been considered man's greatest or most difficult accomplishment.

But getting the likes of Dr. Lura Mae Odland, Dean of the College of Home Economics at the University of Tennessee and President of the Tennessee Home Economics Association, to talk about herself is only slightly less difficult than squeezing blood out of a turnip. And yet, after a most enlightening tour of the College of Home Economics classrooms and laboratory facilities, we wouldn't bet that one of Dr. Odland's staff members or students doesn't come up soon with an answer to that old vegetable-plasma proverb.

Happily for us, quite a few thousands of words have been written on Dr. Odland, whose recognition as an outstanding Home Economist and administrator has reached the international level. Unfortunately, insofar as this particular story is concerned, space limitations will not permit any elaboration in depth of the things nearest and dearest to Dr. Odland's generous heart—Home Economics as a career, Home Economics as a service to mankind, and the College of Home Economics at the University of Tennessee.

Dr. Odland is a native of West Virginia but her major areas of study and professional service have been widespread. She received her Bachelor of Science Degree from the University of Rhode Island in 1943, her Master of Science Degree from the University of Connecticut in 1945, and her Doctorate (in biochemistry and nutrition) from the University of Wisconsin in 1950.

Miss Odland had long since asserted her abilities as a teacher and administrator before attaining her Doctor of Philosophy Degree. She was an instructor in Foods and Nutrition at the University of Connecticut in 1945, served as a nutritionist for the Food and Nutrition Board of the National Research Council from 1945-47, and taught as an Assistant at the University of Wisconsin from 1947-50. After receiving her Doctorate in 1950, she served as an Assistant Professor of Home Economics with the Experiment Station of Montana State College until 1955 when she accepted the position of Experiment Stations Administrator, State Experiment Stations Division, U.S. Department of Agriculture. She served in this capacity until 1959 when she accepted the Deanship of the College of Home Economics at the University of Tennessee.

Among the many professional associations of which Dr. Odland has been an active member are the American Association for Advanced Science, various chemical societies, the American Public Health Association, the American Dietetic Association, the American Home Economics Association, the Institute of Nutrition and, of course, the Tennessee Home Economics Association which she has served as President since September 1964.



Dr. Lura Odland

Dr. Odland has been the author of numerous papers related to the conservation of nutritive values of food and food composition, human nutrition, vitamin metabolism, nutriture assessment, and the education of women. On the international scene she presented a paper at the International Congress of Nutrition in Paris, France in 1957 and, after coming with the University of Tennessee, became Director for the College of Home Economics-India program from 1959 until 1962. She has been asked to deliver one of her many authoritative papers at an International meeting in Germany next summer.

An unselfish lady, Dr. Odland likes to point out that at the time she came to the University of Tennessee in 1959, the College of Home Economics had already attained national status under the leadership of Jessie Harris, who served as Dean of the College for the previous 32 years and after whom the main Home Economics building at UT is now named. Dr. Odland can't deny, however, that the College has continued to make tremendous strides in enrollment (now 800 at UT and 250 at Martin Branch) and in a curriculum which is second to none in the nation. Evidence of National and International recognition is gleaned from the fact that students from exactly half of our United States and from 14 foreign countries are enrolled in UT's College of Home Economics.

She credits much of the success of the college to University of Tennessee President Andrew Holt and Vice Presidents Spivey, Reed and Bowen for what she calls "very favorable administration environment."

With a teaching and research faculty of slightly under 50 persons, the College of Home Economics is able to offer Bachelor of Science degrees in eight major areas. And the depth of study and research in each of these fields gives a quick lie to the old saw that the study of Home Economics is merely one of learning to cook and sew. For example, just two of hundreds of research projects going on at UT's College of Home Economics are, one delving into the effects of Vitamin E on the human body, and a study of mineralization of bone structure and needs (bone density).

Although one of the most dedicated disciples of Home Economics that this reporter has met, Dr. Odland relates this great field only in terms of people—as a professionally

(Continued on page 22)

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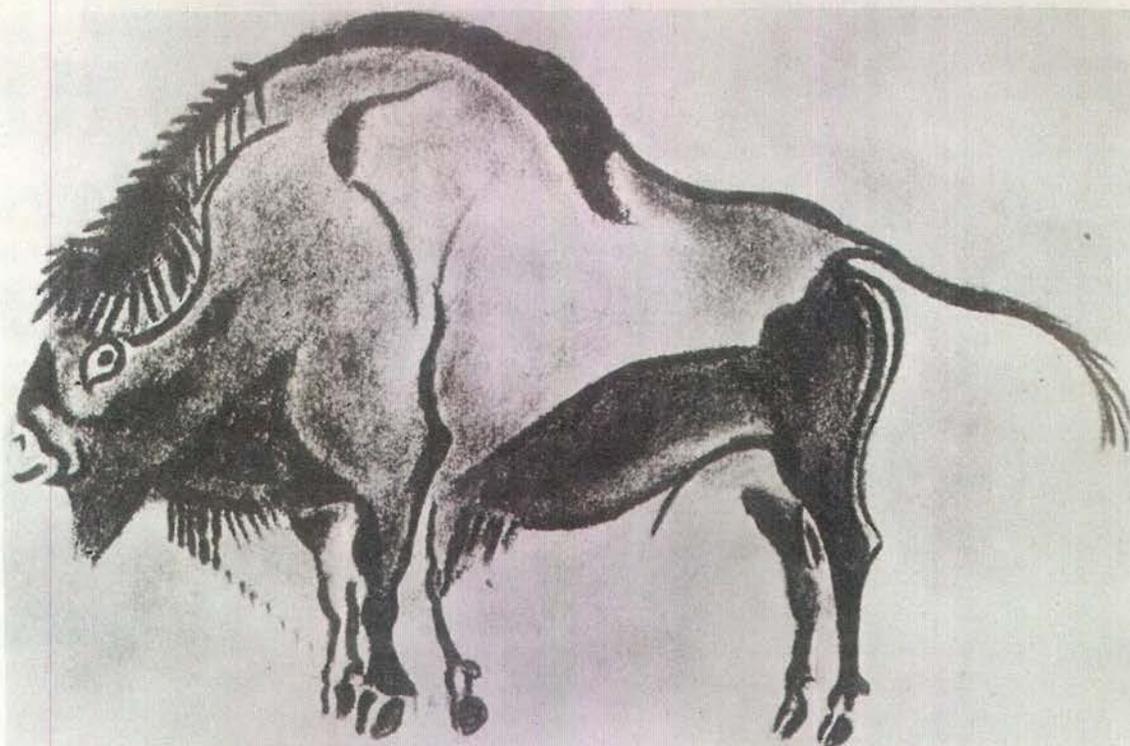
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The Art of Drawing



CACE MAN SCRATCHINGS— A pre-historic Magdalenian artist scratched this bison on a cave wall in Northern Spain. The technique differs from ours, but this early work proves man's age-old love of drawing animals.

Ever since our earliest ancestors scratched rough outlines on the walls of their caves, man has been fascinated by the substance and form of the animals with whom he shares the earth.

The almost infinite variety in the animal kingdom gives the artist a wide range of expression. The fluid grace of the cat family... the freedom and movement of horses... the myriad characteristics of different breeds of dogs—are all apt subjects for the artist.

One of the most important aspects of drawing animals is an understanding of them. Mere studies of muscle structure and outer covering, while essential, result in too many drawings of stuffed animals. Amateurs take special pride in their ability to capture the moods, attitudes and actions of animals—how they express fear, anger or curiosity.

A camera and the wealth of picture material available can give you detail, and study can give you structure, but only observation at a zoo or farm, at national parks or game preserves, or of your pets at home, can

give your drawings that final authority. Quick, on-the-spot sketches record impressions and serve as the basis for finished drawings or paintings at home.

Another valuable help to the aspiring artist is an illustrative book of drawing technique. The Grumbacher Library publishes "The Art of Drawing Animals" which contains detailed information on materials to use in drawing animals as well as action analysis, construction and tips on field sketching of many kinds of animals. Also included are sketches of these animals by Lorence Bjorklund, one of America's most gifted animal artists. The book is available in most art supply stores and many bookstores.

The horse is a beautiful animal and can also be exciting to draw. His great freedom and flexibility of leg movement, and his enormous capacity for bunching and stretching individual muscles as well as the entire body, account for his ability to assume very awkward positions. Visualizing the structure of his frame and location of mass helps in understanding these positions.

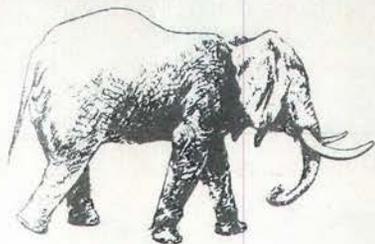
In drawing action, animals unfortunately won't pose for you, so it's best to try to capture the center line of movement with your eye and then to make quick simple stick-figure and circle scribbles of the major action. Detail can be filled in later from photographs or your own accumulated knowledge.

Pay special attention to the elements of the head, particularly eyes, nostrils and ears. These are extremely sensitive and capable of expressing a great range of emotions. In drawing a horse's head, it is important to locate his eyes properly. Beginners have a tendency to place them too far forward or to the front of the head. Also note the twist at the tip of the horse's ear and the long curve of the outer edge. (Lines drawn between nostrils and between eyes remain parallel to each other no matter what position the head assumes.)

If you have "hoof trouble" remember that a horse's hoofs and pasterns are rarely seen except on rocky ground or pavement. You can hide them, but for your own satisfaction, you should eventually learn to draw them.

It's always fun to draw some of the

more unusual animals at the zoo. The elephant, for instance, is an interesting subject. There are two species of elephant quite different from one another. The African elephant has bigger ears, longer and thinner legs and much larger tusks than those of the Indian elephant.



AFRICAN ELEPHANT—The African elephant has larger ears and longer, thinner legs than his Indian counterpart. Tusks extend directly from his "cheeks" just under the eyes. The ridged trunk is flat on the underside. Many short thin strokes suggest the elephant's wrinkled skin.

Tusks are extensions of the incisor teeth; they grow from the skull in front of the eyes, at first down, then up and out at the same time. Note the flat underside of the trunk.

An elephant is a natural pacer—both limbs on each side move in the same direction. His hide is very wrinkled and can best be indicated by many short lines sketched in the direction of movement.

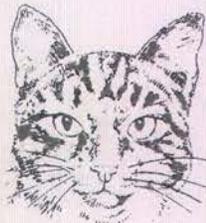


MODERN-DAY BISON—Drawing pen was used to sketch this American bison. Heavy short strokes indicate the great mass of fur around the face, shoulders chest and forelegs.

"The Art of Drawing Animals" points out that the materials you select are important. Begin with drawing pencils of varying degrees of softness and hardness, or drawing pens in a variety of pen nibs—the firmer the better for beginners. To protect your drawing from smearing, use a fixative spray. A kneaded eraser can be shaped for picking out detail and will erase without leaving erasure crumbs on your drawing. Paper is important, too. The texture of it will determine the texture of the drawing.

With materials in hand, take off for zoo, farm, or park (an artist's portable seat will insure your comfort as you work)...or study your pet at home, and you're off on a new adventure—learning the art of drawing animals.

Cats are probably unsurpassed in their inherent grace and ease of movement and are, therefore, excellent subjects. Except for differences in size, coloring and certain specific characteristics, muscle and skeletal structure of all cat family members is the same. Studies of your pet cat, therefore, can be a valuable preliminary to drawing the larger varieties at the zoo.



PORTRAIT OF A CAT—The personality of the cat—independence, curiosity, affection—is clearly captured in this drawing by Lorence Bjorklund. Except for definition of ears, eyes and nose, the face is all fur, suggested by drawing the shading in the direction the hair grows.

Make a rough sketch to set up the basic structure of the subject and to serve as an indication of its overall size. Look first for the simplest forms and the key lines of action and mass. Observe the way the line of the spine moves and curves. Remember that the tail is a continuation of the backbone. Quickly sketch a series of balls in certain positions—for shoulders, thighs, chest or back area—to maintain proportions as you work. The cat's skull is actually shaped like an egg with the front pushed in for its short heavy jaw. Before you know it, you'll have a lifelike cat on your drawing paper.



ANTELOPE HEAD—With a few quick and well-placed strokes of a drawing pen Bjorklund created this head of an antelope. Note the size of each feature in relation to all others. Lifting of the pen from the paper indicates fur.



ANIMAL OF MANY POSES—The horse is an ideal subject for the artist because he can assume a variety of interesting poses. His stately mein is captured here with drawing pen. Gathering a mental picture of the horse's structural frame and location of mass is essential in drawing horses.

Although each animal is different from any other, the same general advice can be followed when drawing them, once you understand their structural and emotional differences: get a feeling for movement and the proportion of heads to bodies, and limbs to bodies; then learn to "feel" your first quick lines and circles.

Almost as a bonus, learning to draw animals can help in your attempts to capture other subjects—landscapes, still lifes, portraits. Again the artist will find observation, practice, and the books in the Grumbacher Library series of invaluable assistance.

With correct application of art principles, as explained and illustrated by leading authorities in the field, any subject with any medium can be as rewarding as learning the art of drawing animals.



MAN'S BEST FRIEND—Unlike the horse, no prototype of the dog exists. But to draw each calls for certain general procedures. Look for large basic forms first. Draw circles to indicate mass areas, then roughly sketch shape and form. Eyes are very expressive and should be carefully drawn.

—Photos courtesy Grumbacher Library

Uncle John's Page

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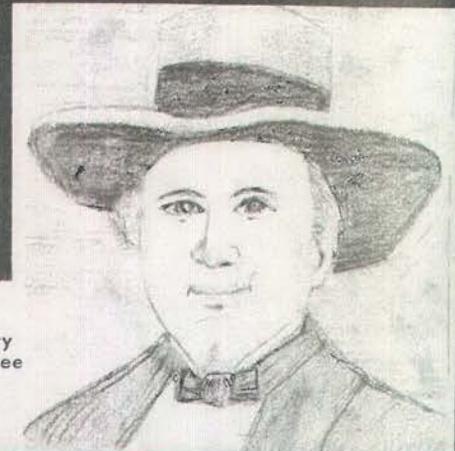
Jevolon Hayes
Route #2
Atoko, Tennessee
Age 13
Southwest Tennessee E.M.C.



Doris Flatt
Route #6
P.O.L Box 107
Cookeville, Tennessee
Upper Cumberland E.M.C.



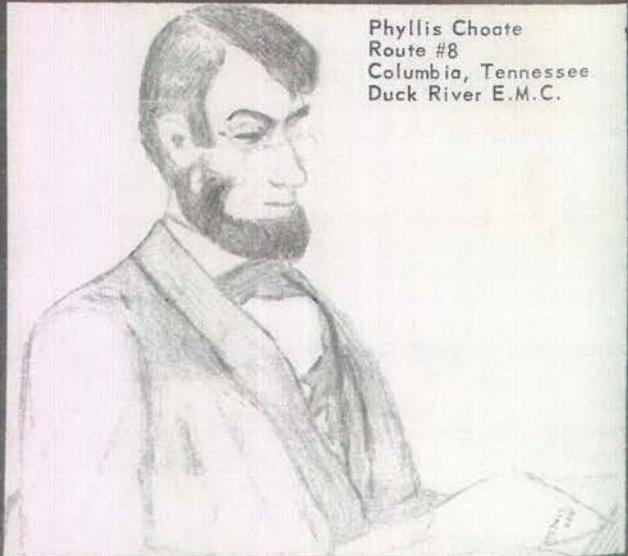
Garry Harris
Route #1
Mineral Bluff, Tennessee
Age 13
Tri-State Electric Co-op



Stanton Mayberry
Sparta, Tennessee
Age 14
Caney Fork
Electric Co-op



Phil Phillips
P.O. Box 265
Selmer, Tennessee
Age 14
Pickwick Electric Co-op



Phyllis Choate
Route #8
Columbia, Tennessee
Duck River E.M.C.

Timely Topics

CONSERVATION COSTS MAY BE TAX DEDUCTIBLE

Farmers have two basic methods of treatment for expenses incurred for land leveling, terracing, drainage ditches, diversion channels and other soil and water conservation practices on their productive cropland, according to Robert L. Carter, assistant agricultural economist with the University of Tennessee Agricultural Extension Service.

"One method is to capitalize it by adding the expense to the cost of the land," says Carter. "Or the farmer can elect to deduct it as a farm business expense. The deduction is limited to 25 per cent of gross income from farming during any given year; but unused deductions may be carried over to succeeding years."

For example, he explains, if you had gross income from farming of \$16,000 in 1965, and a soil and water conservation expense of \$5,000, only \$4,000 of this expense could be deducted for your 1965 year. The remaining \$1,000 is carried over and deducted in 1966 or succeeding years.

It is important to remember, adds Carter, that expenses for "ordinary maintenance", such as removal of sediment from a drainage ditch, can be fully deducted in the year performed without regard to the 25 per cent limit.

NEW WHITE CORN HYBRID, TENN. 501R, RELEASED BY U-T

A mid-season white corn hybrid, Tenn. 501R, developed from cooperative research by the U.S. Department of Agriculture and the University of Tennessee Agricultural Experiment Station, has been released for seed production in 1966, announces Dr. John A. Ewing, director of the U-T Experiment Station.

The new corn hybrid was developed at the U-T Experiment Station by Dr. L. M. Josephson, professor of agronomy, and H. C. Kincer, assistant professor of agronomy.

"The new hybrid, grown experimentally as T5101, is practically identical with Tenn. 501 in growth type and appearance of the ears and grain," explains Dr. Ewing. "The main difference is that seed of the new hybrid can be produced by the male-sterile method with full restoration of the pollen in the final hybrid."

Persons interested in producing seed of the new hybrid are advised to contact Tennessee Seed Producers, Inc., 412 Murfreesboro Road, Nashville, or Tennessee Crop Improvement Association, 810 Broadway, Nashville, Tennessee.

PLASTIC KEEPS AIR AND WATER OUT OF SILAGE

After silage has been packed in trench and bunker silos and after upright silos have been filled, put on plastic covers immediately to seal out the air and water, advises Joe D. Burns, associate agronomist with the University of Tennessee Agricultural Extension Service.

"Farmers should keep this in mind as they make plans for the coming season," says Burns.

A six-mil thickness black plastic cover used correctly on trench and bunker silos keeps both air and water out of the silage, he explains. Agricultural engineers have shown the value of four to six inches of sawdust or similar material placed on top of the black plastic to hold it firmly against the silage. This also

protects the plastic from being punctured by animals, boys, etc.

Because the plastic is held firmly against the silage, air cannot get under it to spoil the silage, he continues. If the cover is held only by the edges, the center part will blow in the wind, tending to act as a suction pump to draw air through the silage.

"The silage making principle is to chop the crop at the right moisture content, pack the air out of the silage and then keep out water and air," explains Burns.

Upright silos need a roof and also a plastic cover on top of the silage to keep air from going down the silo walls and through the silage.

"Pryor Cardin, a Madisonville farmer, used a plastic cap on top of the silage in his upright silo for the first time this past year," says Burns. "He said he had been losing from five to 10 tons of silage from top spoilage, but he had very little spoilage with the plastic cap. He plans to always use the plastic cap in the future."

The agronomist says a plastic cap is not advised on an upright silo without a roof, as the cap would tend to run water down the inside walls.

4-H, FFA TEAMS TO COMPETE IN SOIL JUDGING

The 1966 State Land Judging Contest for 4-H Club and Future Farmers of America Members will be held at the Ellington Agricultural Center, at Nashville, on April 18, according to James H. Robinson, associate agronomist with the University of Tennessee Agricultural Extension Service.

"Winners of 4-H and FFA district contests will compete for state honors," says Robinson. "4-H teams competing in the state event are from Hardin, Henry, Giles, Sumner, Bradley, Rhea, Overton, Macon, Carter and Hawkins Counties."

HERBICIDE USE INCREASES ON CORN, COTTON, SOYBEANS

Chemical weed killers or herbicides are being used at an increasing rate on cotton, corn and soybeans—three of the major crops in Tennessee, according to D. M. Gossett, assistant agronomist with the University of Tennessee Agricultural Extension Service.

"Herbicides were used to control weeds on around 250,000 acres of corn, or close to 25 per cent of the corn acreage in the state last year," he comments.

Cotton growers used pre-emergence herbicides on 420,000 acres or 85 per cent of the total cotton acreage, he continues. Post-emergence herbicides were also used on 35 per cent of this acreage. The need for hoeing cotton was almost eliminated in many fields where a complete weed control program, consisting of proper seedbed preparation, pre- and post-emergence herbicides and other good farming practices, were used.

Soybean growers used herbicides on approximately 95,000 acres or 12 per cent of the total soybean acreage, he adds.

"Ten years ago, farmers had to rely on cultivation and hoeing for weed control," says Gossett. "Today, effective herbicides are available for use on most crops and research is continuing to develop more effective ones."

"The use of herbicides is expected to continue to increase on these crops as well as other crops produced in the state," says Gossett.

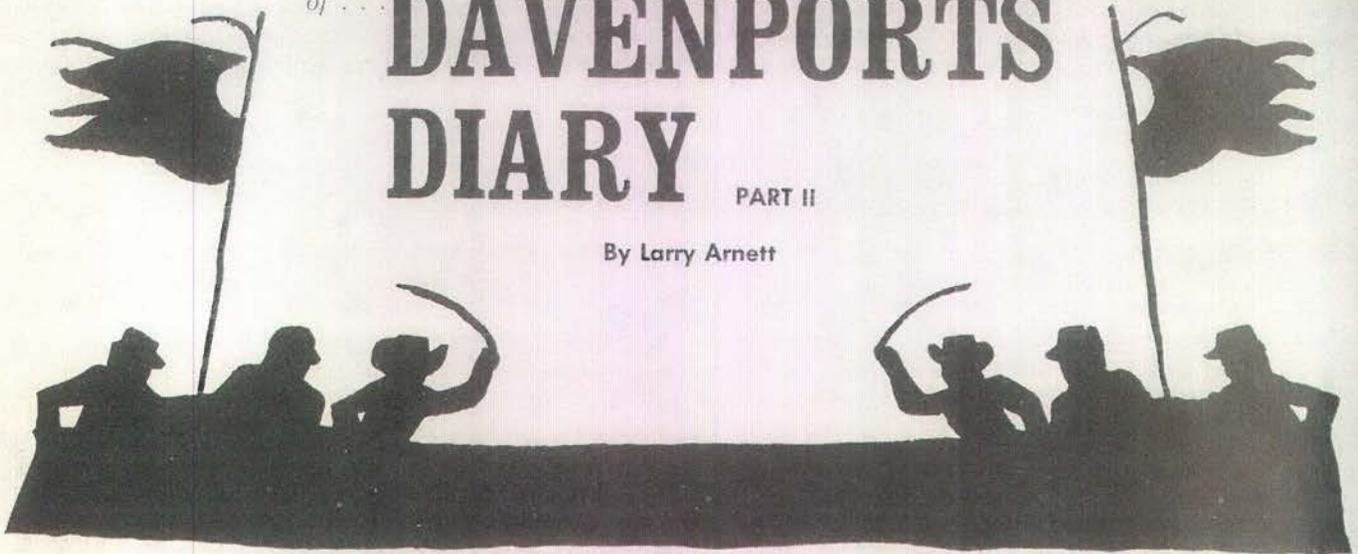
Continuing the true story of the little Confederate
Chaplain from Tennessee, as taken from the pages

of . . .

DAVENPORTS DIARY

PART II

By Larry Arnett



After standing picket in the rain for more than twenty-six hours, Davenport's generally familiar military experiences soon give way to other, more serious aspects of soldiering and we pass with the minister to scenes of action vividly recalled in the journal: "January seventh... about midnight we left for Clarksville, Tennessee... exchanged the cars for boats and went to Fort Donelson. We landed about dark Saturday and laid down on the frozen ground to sleep. Sunday the ninth... skirmishing with cavalry and infantry... early the morning of the thirteenth the battle opened on the right... artillery and small arms through the day... the gunboats opened on the fort. Night came and we had repulsed the enemy... a heavy snow fell... on our left was heavy firing.

The next morning was dreadful cold, but no time to stand around the fires. The enemy repulsed the previous day brought up fresh troops and reopened the fight which was kept up through the day... at night we again worked on the fortification... the enemy had received heavy reinforcements. When the battle began they had forty-five thousand... they now had seventy-five thousand... we went at the appointed time and fighting commenced just after daylight... we were ordered out of our rifle pits to charge a battery... a half mile from us. We went and fought a long time but did not take the battery. The order was given to fall back to the pits... we had scarcely gained the pits when

a battery began to shell us at a furious rate. I heard someone behind... and on turning around saw Colonel J. C. Brown... jump from his horse, wave his sword over his head and cry: "Men of the 3rd Tennessee! Come out of the pits!" The men heard their brave commander... and at once obeyed... we moved... by divisions across the pits... till we came in front of a heavy battery which opened on us with a heavy shower of grape shot... all day the battle raged.

Late in the evening we were ordered back... found that the enemy had taken possession of our rifle pits... we pitched into them and drove them back. The enemy had now been repulsed... firing ceased and we all lay down, the weary to rest and the wounded to die... about midnight, Major Chairs came around and ordered us to rise and be ready for action. All of us supposed we were going back there to fight. We marched about half a mile and were halted in the cold near two hours when we saw a white flag pass which caused us to think that all was not well... about daylight, saw the white flag floating where the "Ronnie Blue" (a banner presented the unit by ladies of Giles and Maury counties) had waved and heard the bugle sound a truce. The fort had surrendered.

Following the surrender of Fort Donelson, Davenport, along with his fellow rebels, was marched to Dover, where the captives stacked arms and were herded aboard ship. They were transported to Alton, Illinois, and

later moved by rail to Chicago.

After seven months of imprisonment, Davenport escaped and made his way back to his own lines.

Further investigation into the battered diary reveals the minister's sense of duty and purpose: "Should I fall, let me die at my post, and let my brethren of the Memphis conference know that I fell there, that I died for humanity."

However, Davenport was not so consciously prideful of his role as soldier as to allow these beliefs in duty to overshadow his compassion for his fellow man: "Today I witnessed a sight. I saw fourteen men shot for desertion. I visited them twice yesterday and attended them to the place of execution. I saw them wash and dress themselves for the grave. They were tied to the stake... there were the coffins ready to receive them. I think they were objects of pity, poor and had families dependent upon them. War is a cruel thing."

The strife increased in tempo; nevertheless, the little minister retained his given ability to see the more hilarious aspects of warfare, even in the midst of the shooting: "Bullets are making music about my ears... nothing but continual skirmishing. This is certainly the roughest place I ever saw and the rockiest. Rocks are continually rolling down to the amusement of those highest up and the annoyance of those lower down." Obviously, there was not a thing that could depress Davenport's character.

In certain passages, it is left for the reader to determine whether the reverend considered the line activity in which he was engaged a matter of tactics and strategy or merely an unending series of snafu situations:

June 8th—Moved six miles to the right; fortified.

June 9th—Moved to the right, moved back. Moved to the right and rear.

June 10th—Rained all day and night.

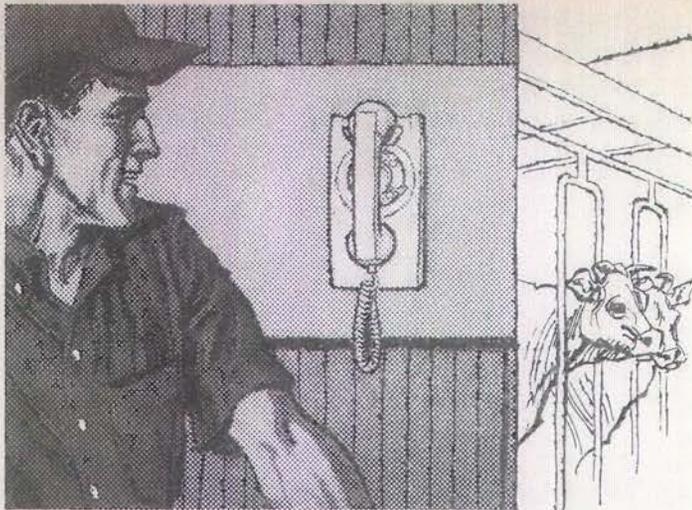
June 11th—Moved back to the left. Rained.

June 12th—Rained, rained, rained.

Davenport seized every opportunity to hold tent meetings, returning to battle the minute he had delivered his sermon: "Again and again the ranks were thinned by the enemy's guns, but still the column moved on till within fifty yards of the enemy's line...having no support, the brigade...was ordered to halt...our loss was very heavy...two hundred and seventy killed and wounded."

Davenport's journal is not a new form of literature and yet it is not precisely like any other autobiographical account. It was written by a man of definite religious convictions, and in his last reflections, this innate religiousness ascends to the fore as he finally concludes: "Oh, God, how long will this cruel war last?"

Thomas Hopkins Davenport was—about 100 years premature—the epitome of the articles of today's U.S. Armed Forces Code of Conduct. 'If I am captured' reads article 3, 'I will continue to resist by all means available. I will make every effort to escape and aid others to escape. I will accept neither parole nor special favors from the enemy.' Although these words are not found written precisely this way upon the pages of Davenport's journal, we get the feeling that the statement sounds like something he might have written or said. And he would have practiced what he preached!



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This is an overall view of huge Valleydale Farms' 8,000 head capacity cattle feeding operation at Lowland, Tennessee.

Cattle Feeding

By Noah Britton, Jr.
*Holston Electric
 Cooperative*

Located in the southern section of Hamblen County and served by Holston Electric Cooperative is the largest cattle feeding operation in East Tennessee. Managed by brothers, Ralph and Sam Grigsby, for Valleydale Farms, the operation has a capacity annual production of 16,000 head of cattle.

The feed handling operation is quite modern and the major process is performed with electricity. Holston Electric Cooperative had to construct approximately one mile of three-phase

line to serve the huge feeder plant. A modern up-to-date grinding and mixing mill was installed at the base of four large silos which once were used for silage, but now they are used for grain storage. Silage is stored in two large trench type silos.

The large farm owned by Grigsbys lies on the north banks of Chucky River where once they grew all the feed needed for a much smaller feeder operation. Now with the larger feeder plant they only grow silage. Grain is shipped in by rail from the midwest

in "Big Johns". Leading in a southwestern direction from the mill and 120,000 bushel capacity storage silos is a feed lot and troughs measuring almost one mile in length. This contains divided lots, 60 ft. by 100 ft. in size, and 48 of these accommodate 120 head of cattle to the lot. The lots are covered and the floors are concrete.

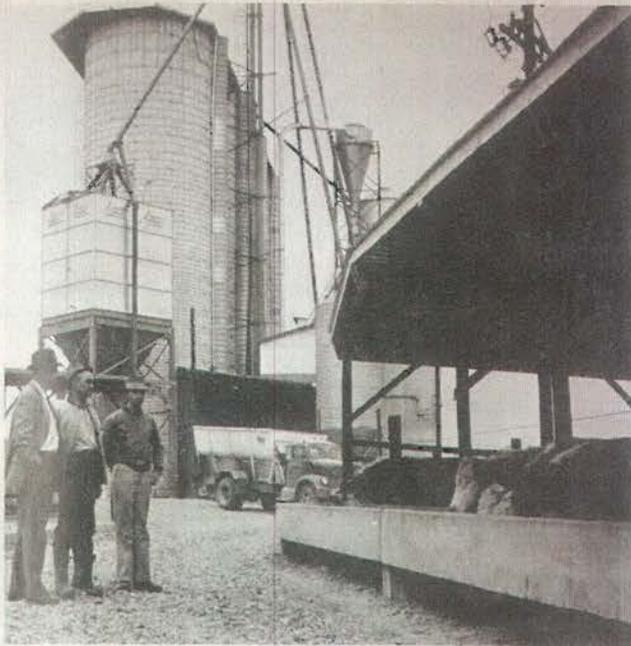
When feeding time starts it's like a factory starting to roll. A six ton trailer type rig is loaded with silage at the trench silo and pulled by tractor at the mill where an operator sits at



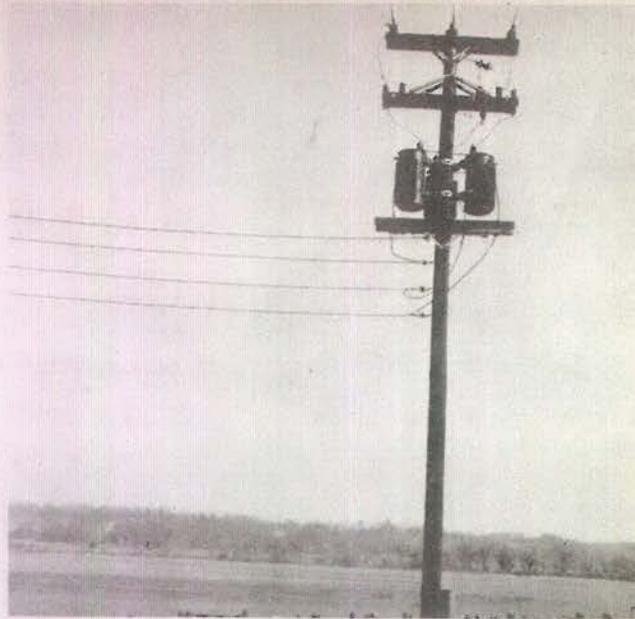
A trough 4,800 feet long designed by the Grigsbys contains feed, and heads doing nothing but eating almost as far as the eye can see.



Silage loader, electrically operated, loads silage from trench silo for transfer to mill for mixing.



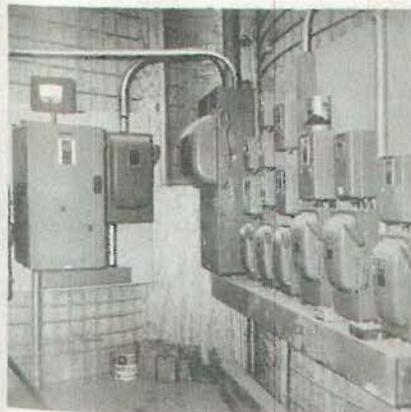
Ralph, center, and Sam Grigsby, right, chat with Mr. Frank Harris, Assistant Manager, Agri-Business Services for Southern Railway. Silos and feed mill in background.



One sees the fertile bottoms next to Chucky River and Holston's utility pole with three-phase transformers and meter which serve the large Valleydale Farms feeding operations.

a remote control board, pushing buttons that start augers and conveyors to rolling which mix and grind feed. The finished blend is loaded into another six-ton rig mounted on a truck that drives the length of the feeder lot and distributes the feed automatically, ready for the cattle to start eating. All this mixing and grinding process is run by electricity, from any number of electric motors ranging from 1 hp to a 100 hp that drives the main mill.

A special-built conveyer loader, mounted on a truck chassis and run by a 25 hp electric motor, digs out the silage and loads it for transfer to the mill.



Shown is only part of the many safety switches required in the mill operation.

Holston Electric Cooperative installed mercury outdoor lights for an experiment to determine if feeding under light will stimulate more frequent eating, therefore resulting in more efficient gains for the cattle. Also, each feed lot is provided with electrically heated water fountains, which are supplied from six wells bored in the area and equipped with submerged electric pumps.

Valleydale Farms began in the planning stage one year ago, but many of the ideas were conceived by Ralph and Sam Grigsby. The feed troughs were designed and constructed by them. They used reinforced concrete sections twenty feet long and thirty

inches wide with a depth of sixteen inches. Holston Electric Cooperative with the assistance of Ag Engineer Sherwood Skinner from T. V. A. helped with many phases of the wiring. Other agencies related to the process helped with the planning; all put together in the final plant resulted in a very efficient operation.

The Valleydale Farms is considered to be a show place for feeding cattle in East Tennessee. Visitors have come from the midwest and neighboring states. Any weekend one can see local families driving through the area to show the kids and grownups the many head of cattle being prepared for Valleydale beef.

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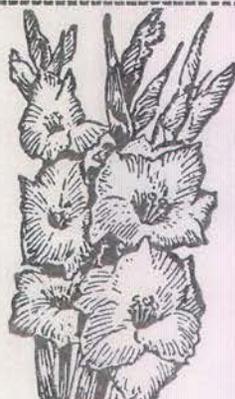
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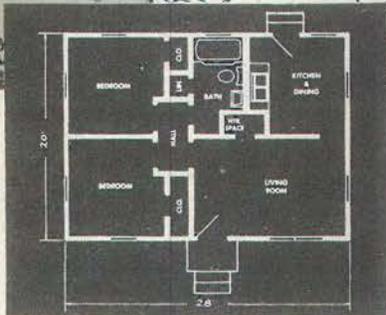
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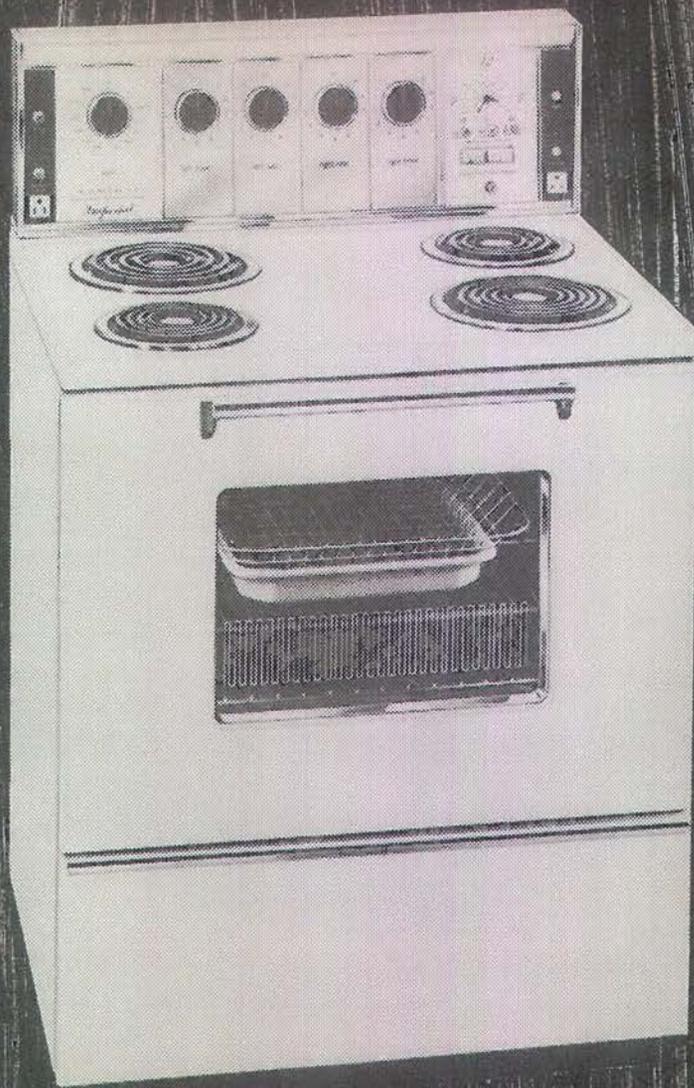
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independent occupation and as a service to mankind. She points out that graduate Home Economists who marry and raise a family will still average about 25 years of active service in the field, and that the Home Economics field includes jobs carrying about 1,000 different titles. Even for the woman who marries, raises a family and never works outside her home, the time, effort and money spent in getting a Home Economics education will serve her in good stead in numerous ways.

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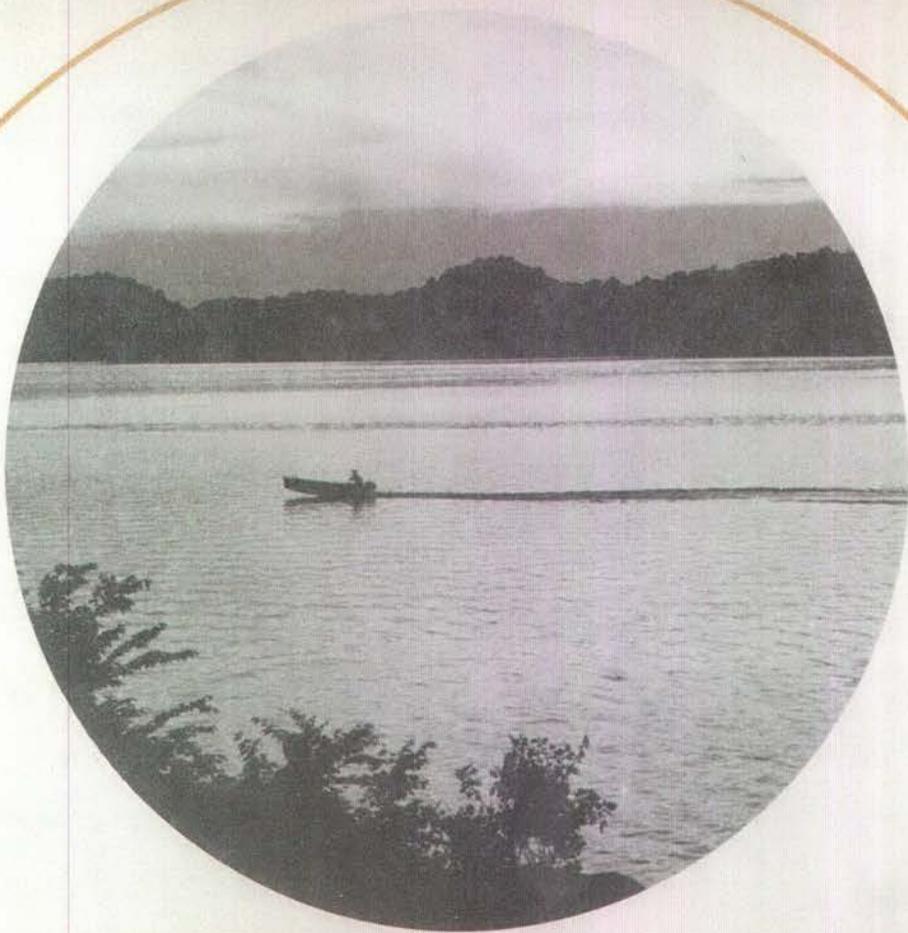
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