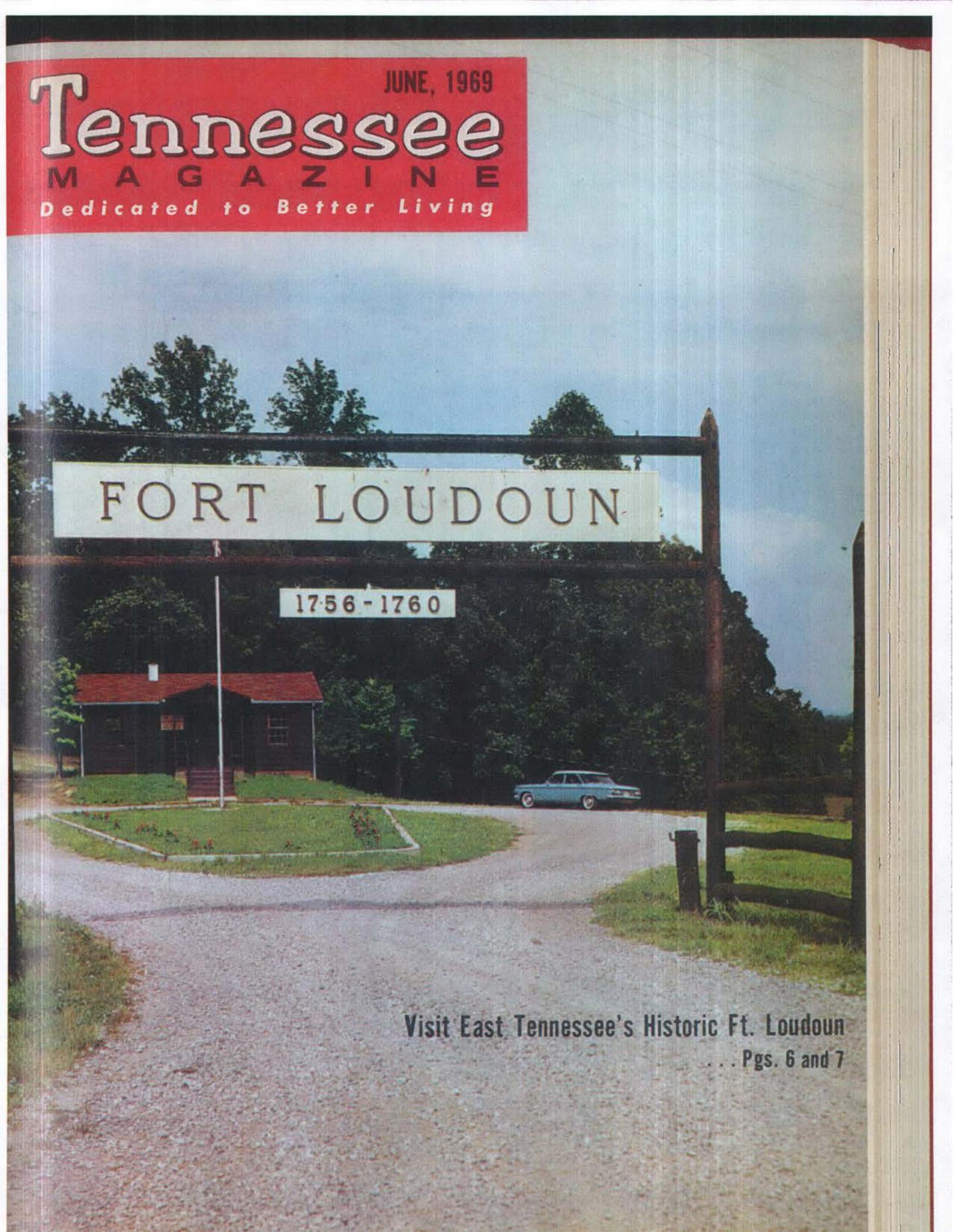


Tennessee

JUNE, 1969

M A G A Z I N E

Dedicated to Better Living

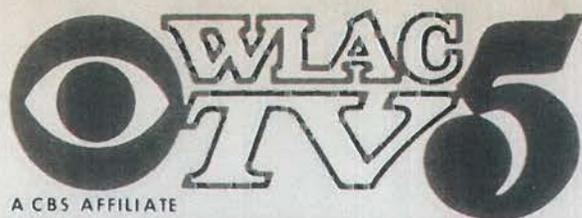


FORT LOUDOUN

1756-1760

Visit East Tennessee's Historic Ft. Loudoun

... Pgs. 6 and 7



A CBS AFFILIATE

THE FAMILY STATION

COMPLETE JUNE SCHEDULE—WLAC-TV, NASHVILLE



"HEE HAW"
Produced at WLAC-TV
Starring
ROY CLARK & BUCK OWENS
Sundays—8:00-9:00 PM

JUNE SPECIALS

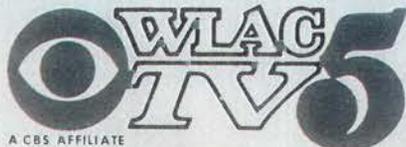
SATURDAY, JUNE 7—BELMONT STAKES—4:00-5:00 PM (C)
SUNDAY, JUNE 8—EMMY AWARDS—9:00-10:30 PM (C)
TUESDAY, JUNE 10—APPOINTMENT WITH PABLO—8:30-9:00 PM (C)
WEDNESDAY, JUNE 11—YOU'RE IN LOVE CHARLIE BROWN—7:30-8:00 PM (C)
TUESDAY, JUNE 17—WOODS 'N WATERS JUNE SPECIAL—9:00-9:30 PM (C)
THURSDAY, JUNE 26—MISS WOOL OF AMERICA PAGEANT—8:00-9:00 PM (C)

DAYTIME

5:45-6:00 AM	Farm News—Mon. thru Fri. (c)
6:00-6:30 AM	CBS Morn. News
6:30-7:30 AM	Country Junction—Mon. thru Fri. (c)
6:00-7:00 AM	Black Heritage—Sunday (c)
6:00-7:00 AM	Black Heritage—Saturday (c)
7:00-7:30 AM	Os, Ge-Dapper—Saturday (c)
7:00-8:00 AM	Tom & Jerry / Aquaman—Sunday (c)
7:30-8:00 AM	Bugs Bunny—Saturday (c)
7:35-8:00 AM	Channel 5 Weather—Mon. thru Fri. (c)
8:00-9:00 AM	Captain Kangaroo—Mon. thru Fri. (c)
8:00-8:30 AM	Road Runner—Saturday (c)
8:00-9:00 AM	Heaven's Jubilee—Sunday (c)
8:30-9:00 AM	Wacky Races—Saturday (c)
9:00-10:00 AM	Mike Douglas Show—Mon. thru Fri. (c)
9:00-9:30 AM	Carl Tipton—Sunday (c)
9:00-9:30 AM	Archie Show—Saturday (c)
9:30-10:30 AM	Batman-Superman Hour—Saturday (c)
9:30-10:00 AM	Look Up and Live—Sunday (c)
10:00-10:30 AM	Andy of Mayberry—Mon. thru Fri.
10:00-10:30 AM	Faith for Today—Sunday (c)
10:30-11:00 AM	Dick Van Dyke—Mon. thru Fri.
10:30-11:00 AM	Hercule Poirot—Saturday (c)
10:30-11:30 AM	Black Heritage—Sunday (c)
11:00-11:25 AM	Love of Life—Mon. thru Fri. (c)
11:00-11:30 AM	Shazzan—Saturday (c)
11:25-11:30 AM	CBS News—Mon. thru Fri. (c)
11:30-12:00 N.	Face the Nation—Sunday (c)
11:30-12:00 N.	Search for Tomorrow—Mon. thru Fri. (c)
11:30-12:00 N.	Popeye Show—Saturday
12:00-12:05 PM	Channel 5 News—Mon. thru Fri. (c)
12:00-12:30 PM	Moby Dick & The Mighty Mighties—Saturday (c)
12:00-1:00 PM	Hollywood Spectacular—Sunday (B/W)
12:05-12:30 PM	Singing Convention—Mon. thru Fri. (c)
12:30-1:00 PM	As The World Turns—Mon. thru Fri. (c)
12:30-1:00 PM	Lone Ranger—Saturday (c)
1:00-1:30 PM	Love Is a Many Splendored Thing—Mon. thru Fri. (c)
1:00-1:30 PM	The Jetsons—Sunday (c)
1:00-1:30 PM	Janny Quest—Saturday (c)
1:30-2:00 PM	Shippy—Saturday (c)
1:30-2:00 PM	The Guiding Light—Mon. thru Fri. (c)
2:00-2:30 PM	Secret Storm—Mon. thru Fri. (c)
2:00-2:30 PM	John Lashlee Sports—Saturday (c)
2:30-3:30 PM	Adventure Action Movie—Saturday (B/W)
2:30-3:00 PM	The Edge of Night—Mon. thru Fri. (c)
2:30-3:30 PM	AAU Field and Track—Sunday (c)
3:00-3:30 PM	Linkletter Show—Mon. thru Fri. (c)
3:30-4:00 PM	Hugh X. Lewis Show—Saturday (c)
3:30-4:00 PM	Gilligan's Island—Mon. thru Fri.
4:00-5:00 PM	Turn On—Saturday (c)
4:00-5:30 PM	Big Show—Mon. thru Fri.
5:00-5:30 PM	All American College Show—Saturday (c)

EVENING

	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.
5:30	Stan Hitchcock Show (c)	CBS Evening News (c) W. Cronkite	CBS Evening News (c) W. Cronkite	Roger Mudd News			
6	Lassie (c)	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Weekend Report News Weather Sports			
6:30	Gentle Ben (c)	Gunsmoke (c)	Lancer (c)	Tarzan (c)	Animal World (c)	The Wild, Wild West (c)	Jackie Gleason Show (c)
7	Ed Sullivan Show (c)	Here's Lucy (c)	Red Skeleton Hour (c)	The Good Guys	The Prisoner (c)	Gomer Pyle (c)	My 3 Sons (c)
7:30	Hee Haw (c) Sls. 6/15	Mayberry R.F.D. (c)	Beverly Hillsbillies (c)				Hogan's Heroes (c)
8	Family Affair (c)	Doris Day Show (c)	Green Acres (c)		Thursday Night Movie (Most in color)	CBS Friday Night Movie (c)	Petticoat Junction (c)
9	Mission Impossible (c)	Jimmy Rogers Show (c) Sls. 6/16	CBS News Broadcasts	Hawaii Five-o (c)			DEATH Valley Days (c)
9:30	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports
10	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Channel 5 News Weather Sports	Mannix (c)
10:30	Perry Mason	Perry Mason	Perry Mason	Perry Mason	MILLION \$ MOVIES	Roy Anthony Show (c)	Films of the 50's
11	Marshal Dillon	Marshal Dillon	Marshal Dillon	Marshal Dillon		Films of the 50's	
11:30							
12							



A CBS AFFILIATE

NASHVILLE, TENNESSEE

To The Point

by John E. Stanford

Wisdom from the Greatest Book:
1st Corinthians Chapter 13, Verse 14

★ ★ ★ ★ ★

Rarely, indeed, does any piece of legislation pass both House of the Tennessee General Assembly without a dissenting vote, but such was the happy fate of a Bill, sponsored by the Tennessee Electric Cooperative Association, which will allow the State's electric co-ops to borrow money from financial sources other than REA.

The Bill was so well prepared, so well explained by TECA Executive Manager J. C. Hundley and Public Relations Director T. O. Walker, and so well introduced and moved along by sponsors in both Houses of the recently adjourned 86th General Assembly that not a single vote was cast against this objective and much needed legislation in either the Senate or House of Representatives.

Until this law was passed, all loan funds with which electric co-op systems have been constructed have had, for all practical purposes, to come from REA, the Rural Electrification Administration in Washington. In actual practice, all co-op borrowing is still from REA. But the time is rapidly approaching, with co-op's borrowing needs rapidly increasing and funds available from REA leveling off at about the same total each year, that sources in addition to REA are going to have to be made available. The most likely new source would be the National Rural Utilities Cooperative Finance Corporation, which is now in its formative stage and which was detailed in the May issue of this publication.

Tennessee's rural electric cooperatives are probably as financially healthy as any in the nation, more so than most state programs. But being healthy doesn't in itself immunize any system against the needs of available loan funds, especially during these continuing times when more and more members are being added to co-op services and the use of electricity is doubling every few years.

It is against this background that your co-ops are to be congratulated for getting this look-ahead law on the books, as are TECA Executive Manager J. C. Hundley, P. R. Director T. O. Walker, sponsors of the Bill in both Houses—Senator John Wilder of Somerville and Representatives (Speaker) William Jenkins of Rogersville and Franklin Cochran of Tiptonville—and all the other members of the 86th General Assembly who gave this good legislation their solid support.

★ ★ ★ ★ ★

Someone has said—although not in these exact words—

that "the WORST thing that a GOOD man can do when his help is needed is: NOTHING."

In similar manner, one of the worst things that electric co-op members can do is to take for granted the many benefits, necessities and enrichments which their cooperatives have brought them without any show of appreciation in return.

All too often, the only time that many members contact their Directors, Manager or Employees is when they have a complaint about service. Good service, it would appear, is expected—and usually prevails, without comment from those who receive it.

Generally speaking, except for asking for reports or outages, fallen lines and other unusual circumstances, which disrupt service and may prove dangerous, electric cooperatives ask very little of their members. Payments must be made for electricity used, of course, in order to operate the co-ops. But only once each year, on a concerted basis, does your co-op ask you to set aside a few hours of your time so that you may join with other members in holding an Annual Meeting.

No co-op is better than its members and no co-op member has any more voting strength than any other member. Since electric co-ops came into existence one-third of a century ago, members have elected their Directors. Directors have set co-op policies and hired the Managers responsible for carrying out these policies directly and through employees hired by Management. No organization in America is more democratically owned and operated than are rural electric co-ops.

Annual Meetings are the Membership Business Meetings of your electric cooperative. They are held for your benefit as a member-owner. This is the one best place and time to learn more about and to tend to this, your business.

Annual Meeting time is usually not all work and no play, however. It's a time to visit with your neighbors and fellow-owners, to be entertained and perhaps draw for prizes.

Most co-op Annual Meetings will be held between June and October. Notices will be sent to you. Many will be published in the co-op sections of this publication anywhere from several days to several weeks prior to your particular meeting.

Look up the date, jot it down, and by all means attend. You'll be glad you did!

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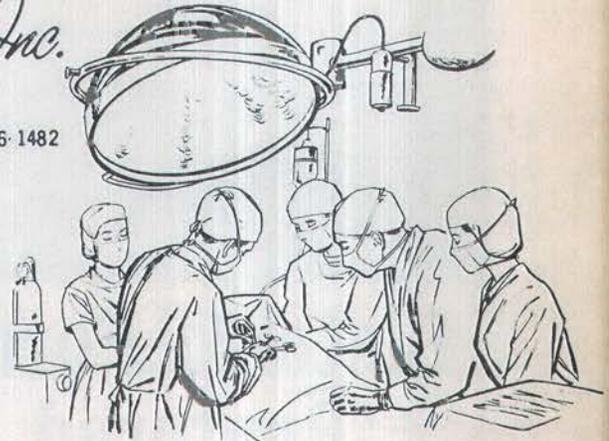
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Historic Fort Loudoun ... Restored and Proud

By Newell Thompson,
Electrification Advisor
Fort Loudoun Electric Cooperative

FORT LOUDOUN, which almost two centuries later was to give name to a rural electric cooperative, was built on the Little Tennessee River in 1756-57 by the Colony of South Carolina and protected the southern frontier of the English from the French, who threatened occupation of the Tennessee Valley and British trade rights. The Fort was located, at the request of the Cherokee Indians, in the center of the rugged Overhills Cherokee country, more than one hundred and fifty miles from the nearest English outpost, Fort Prince George in the South Carolina foothills. For four years Fort Loudoun helped to keep the Cherokees loyal to the English whose soldiers in the north were winning victories that eventually gave England control of eastern North America.

This wilderness fort and trading center was the first permanent English settlement west of the high Smoky Mountains. Many of the soldiers and traders brought their families there. The Cherokees granted seven hundred acres of land to the English for the fort site and cleared land for the planting of crops. This was the first land grant by the Cherokees to the whites west of the mountains. The building of

Fort Loudoun prepared the way for colonial expansion over the southern mountains.

THE CHEROKEES

Two colonies, Virginia and South Carolina, and one Indian nation, the Cherokees, were the principal participants with the English in the French and Indian War. The French depended on Indian allies. Many French agents lived in the Cherokee villages before England and France were actually at war. They tried to persuade important Indian leaders the best interests of the Indians lay with the French.

The Cherokees were one of the most civilized of the American Indian tribes. They occupied the mountainous regions of western North and South Carolina and East Tennessee. These were regarded from early times as allies of the English. In 1730 seven of their chiefs were taken to London. They never forgot the honors bestowed on them. Attakullakulla, or Little Carpenter, was forever England's staunchest friend among the Cherokees and it dates from this visit.

The Cherokee nation consisted of three groups: the Lower, Middle, and Overhill Cherokees. The Overhills, whose towns lay

along the Little Tennessee River in what is now East Tennessee, were the most influential.

The Overhills' country was unusually beautiful, according to early white visitors, and it ranks today scenically so. It extended from the mountains near Calderwood to the Tennessee River, some thirty miles away. There were nine villages located near the Little Tennessee River and its tributary, the Tellico. Trails leading into the country passed thru Chota, ancient capital and sacred town of the Cherokees. During the 1740's and 1750's Old Hop was the emperor. Important visitors were received at Chota and matters affecting the welfare of the nation were discussed by the chiefs of all the villages in this council house.

Cherokee men, like other Woodland Indians, spent their time hunting or fighting. Women tended crops and planted corn, beans, and other vegetables and looked after household affairs. The Indians bartered peltry from the winter's hunt for the blankets, clothing, paint, and trinkets which the traders brought into their country.

FORT LOUDOUN

The site of the palisaded fort was above the mouth of the Tellico River and only seven miles from Chota. Fort Loudoun was named in honor of John Campbell, Earl of Loudoun, Commander-in-Chief of the British forces in North America in 1756.

The wives and children of some of the soldiers and workmen came to live in the little English settlement. Besides the military duties and the construction of the fort, there was much work raising corn, tending livestock, slaughtering cattle, and salting meat to help with the fort's food supply.

WHAT FORT LOUDOUN WAS LIKE

The fort was built after the European military pattern of the eighteenth century, with a bastion at each corner. An additional defense was high earthworks topped with 15-foot palisades slanted outward. A hedge of honey locusts, bristling with three inch thorns, was planted in the moat surrounding the fort. Guarded gates protected the entrances. Buildings within the fort included a blacksmith shop,

guardhouse, barracks for the soldiers, store houses, powder magazine, quarters for the officers, and perhaps other buildings.

The rock lining of the 35-foot well remains the best preserved of the original construction. Stone footings of fireplaces are intact.

ITS PURPOSE

This wilderness fort served a dual purpose. It strengthened the Cherokee-British alliance and prevented the Cherokees from deserting their alliance with the British and many times induced the Indians to join them in forays against the French.

The fort also provided a stable and secure trade for South Carolina traders. The traders had their yard in Cherokee Villages and were licensed to one village.

Red man and white man were not destined for lasting friendship in the new land. Through

but diminishing rations took the toll. The weakened garrison held out until August, 1760, when rescue attempts from South Carolina and Virginia were thwarted by all the Cherokee settlements on both sides of the mountains.

The garrison was forced to ask for terms. The Indians agreed to allow soldiers and their families to withdraw to the safety of South Carolina's Fort Prince George and to have weapons and rations their officers deemed necessary to assure safety in their journey. The fort and contents were left for the Cherokees.

After the agreement was reached, the garrison marched to the east with a Cherokee escort. In spite of their weakened condition, the soldiers and their families marched 10 miles the first day and camped at nightfall in Ball Play Town by the creek of that name.

Some of the prisoners died at the hands of the Indians in captivity. Some chose to live with the Cherokees. The rest were ransomed during the following year.

THE THREAT RENEWED

Despite defeat, Fort Loudoun served its purpose of preventing French incursion. It protected the English colonies from French and Indian attacks in the south, while the British army accomplished significant victories in the north. A short time after the surrender of the fort, the British forces took the last important French stronghold in North America—Montreal. A peace treaty was signed which gave to England the land east of the Mississippi River from the extreme north to what is now Florida.

FORT LOUDOUN TODAY

The side of Fort Loudoun in the intervening 150 years was shrouded in forests. It was marked by the Colonial Dames in 1917. Later 5.6 acres of the site were given by the owners, the John M. Carson and Bert Anderson families, to the State of Tennessee in 1933.

The Fort Loudoun Association was formed for the purpose of restoring and maintaining the fort as an historic memorial. For the next twenty years the Association was inactive, except for a few months in 1936-37. In 1953 restoration was resumed on the earthwork, palisades, and river gates. A museum and office marks the entrance to the Fort grounds. The museum contains a scale model of the original fort. Indian artifacts and relics found in the fort are exhibited.

ADMISSION

The grounds are open daily from 9 a.m. to 5:30 p.m. year round. Admission rates are 75¢ for adults, 50¢ for youths, ten thru eighteen, and 25¢ per person for supervised groups of children and young people.

LOCATION

Fort Loudoun is 1 mile off U.S. 411 on the south bank of the Little Tennessee River 2 miles northeast of Vonore. It is 35 miles south of Knoxville, about 50 miles southwest of Gatlinburg, and 80 miles north of Chattanooga.



Mrs. Wanda Franklin, Secretary of the Fort Loudoun Association, stands beside old cannon once used in defense of the Fort. Note pointed, 15-foot palisades, which were slanted outward.

a series of misunderstandings and mistakes on both sides, tension between Fort Loudoun's garrison and the Indians grew. Tensions mounted in 1759 and the Cherokees laid siege to the Fort. Early in 1760 the supply line to the fort was blocked.

SURRENDER AND BETRAYAL

The Cherokees attacked the garrison, not by arms, but by siege. Few shots were exchanged,

The withdrawing troops and families awoke at dawn the second day to find that their escort had deserted during the night. A sentry sounded the alarm that the Indians were attacking. The small group was overrun with its commander, Capt. Paul Demere, and 22 others killed, and many wounded. The survivors were taken prisoners and distributed among their captors.

CEMC Member Found His Vocational Ideal In - -

GOIN' FROM GAIT TO GATE

By John Stanford

When Z. M. Porter, owner of 41-A Products, Inc. about two miles outside the Clarksville, Tennessee city limits on Highway 41-A South, tells you that he has made considerable of his living "going from GAIT to GATE," he isn't talking about making house to house or farm to farm sales calls.

For several years Porter—Zelma to his many friends, successfully trained and showed walking, as well as, three and five-gaited saddle horses. He still owns some fine stock although his days in the show ring may be gone.

As owner with wife, Ruth, of 41-A Products Inc., Porter has about all he can preside over in the operation of this fast growing company which manufactures and distributes more than 300 items ranging from the most humble farm gates (some 7,000 to 10,000 of these each year) to beautiful ornamental and decorative iron products which grace many a home and business in 41-A Products' 9-state business area. Included in the latter list would be such ornamental iron items as hand rails, columns and accessories and such custom items as curved or spiral steel stairways. From sturdy gates to beautiful stairways, the inven-

tory of products, either in stock or readily fabricated and ready for shipment, is almost unlimited.

Porter, a congenial, likeable man who is dedicated to quality and performance, whether it be in show horses or the products he manufactures, has enjoyed a varied and successful fifty-plus years of life so far. A native of Robertson County, Tennessee, he was in Army Intelligence during World War Two. After leaving the service, he spent the next almost three years training and showing horses. After two years in the retail hardware business in Wartrace, he moved to Clarksville in 1951 to enter the wholesale electric and plumbing field, where he remained until he bought out what was then the 41-A Welding Shop in the early 1960's. He and Mrs. Porter formed a closed corporation in 1963 under the present company name and opened wide the scope of operations which has brought the organization up among the leaders in its field in the area which it serves.

Easily seen from U. S. Highway 41-A South, 41-A Products is headquartered in a 12,000 square-foot building which contains both manufacturing and office areas. An adjacent 2,500-square foot building is used for

warehousing. From this central manufacturing and distribution center, 41-A Products items go to an area which includes all or parts of the states of Tennessee, Kentucky, Illinois, Missouri, Indiana, Louisiana, Ohio, Arkansas, and Alabama.

A firm rule of 41-A Products Inc. is that the company's products are available only through approved distributors, which includes building supply dealers, lumber dealers, farm stores and similar business establishments. Ultimate consumers may place their orders directly with 41-A Products at the plant near Clarksville, but the order will be credited to a dealer near the purchaser's home and the amount of the bill will be the same as though the order had been placed directly with the dealer.

"We feel this is the right and ethical way to do business," explains Porter. "Our dealers are most important to our business and we want our business to be important to our dealers. We like to work right off the top of the table and keep it a fair and square, 2-way street all the way."

Apparently the dealers with whom 41-A Products does business appreciate this down-the-line company policy, too, for dealers handling the company's products now number in the hundreds and still gaining strength in numbers.

Some idea as to the scope of the 41-A operation may be gained from the fact that the company uses upwards of 1½-million pounds of square iron tubing each year and about 750,000

Dudley Dolinger, son of Mr. and Mrs. John Dolinger, looks in on shoats well contained and protected in pens built for the Dolinger hog barn by 41-A Products Inc.



Employee shows John Dolinger, center, Manager of Cumberland Electric Membership Corporation, Clarksville, how sign is made with Elk Craft equipment. Looking on at right is Z. M. Porter, owner with his wife of 41-A Products and its division, Elk Craft. Mr. and Mrs. Porter are long time members and supporters of Cumberland Electric Membership Corporation.



pounds of galvanized pipe during a 12-months' period of time. The galvanized pipe is used primarily in the fabrication of farm gates while the iron tubing finds its way into decorative fencing, columns and custom work.

To process and put into the hands of ultimate consumers this much material each year is no small task, but 41-A Products is well staffed for the job. The company has a total of more than 20 employees, most of whom are employed in production. Three men are used full time as salesmen covering the 9-state service area. Every 41-A Products dealer is called on at least once each month. The company owns nine vehicles with the heavier trucks capable of hauling 24,000 pounds.

So well organized is 41-A Products all the way down the line that an order placed by a dealer with a company salesman one week will, in most cases, have that order delivered by company truck during the week following the salesman's visit.

Although no materials or service is handled by 41-A Products except through local dealer-distributors, custom work of all kinds is done as a service to dealers-distributors. Many motel, apartment buildings or similar jobs have been built and installed by 41-A Products special installation crew—at the request of the dealer-distributors who sold these jobs to ultimate consumers.

In addition to the metal products, 41-A Products also operates Elk Craft, Incorporated, a division of the company although separately incorporated. Elk Craft manufactures engraved name plates, signs, stadium markers, military quarters identification, building numbers, housing projects, office and municipal building directories, hospital signs, desk name plates and almost any other type of custom sign. These signs are available in almost any color and can be fastened on glass windows, office doors or almost any other place by a special 2-way tape which makes installation easy and will not mar the surface in case sign has to be removed.

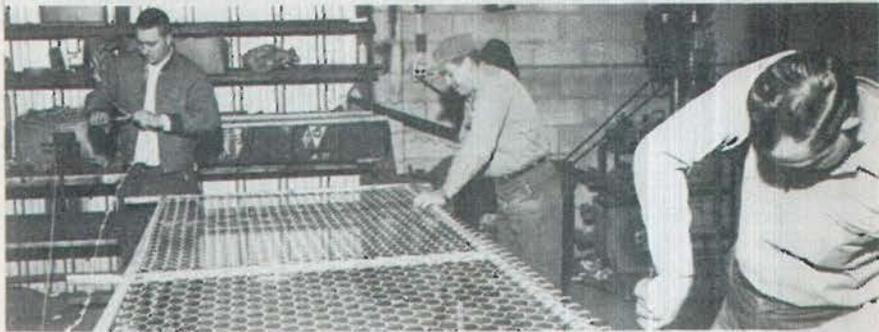
Among Elk Craft customers are Fort Campbell, Kentucky; Fort Bragg, North Carolina and Fort Rucker, Alabama. Another well known Elk Craft customer has



If practicing what you preach is good, so is using what you make—as 41-A Products does so well with this divider and door of ornamental iron between the lobby and one of its business offices at company headquarters just off U. S. Highway 41-A South, a few miles south of Clarksville.



Scrolls, sometimes called curlycues, are used by the thousands in the 41-A Products operation. Employee here is forming a scroll, which will go on storage rack in background waiting use in near future.



More farm gates are produced by 41-A Products than any other one item in its list of more than 300 products. Company manufactures from 7,000 to 10,000 farm gates each year.

been the Celebration, Inc. Walking Horse Show grounds in Shelbyville, Tennessee where the company made and installed 1,800 names and box numbers.

As is invariably the case, the 41-A Products operation is highly dependent on the availability of plenty of dependable electricity, and this the company is adequately furnished by Cumberland Electric Membership Corporation, Clarksville. This energy is a necessity in the operation of 41-A's 8 welders, shears, punch, saws, drill presses and

grinders which help make everything from gates, cattle guards and dog kennels to hand rails, ornamental fences and spiral stairways.

Next time your needs fall in the wide field of items manufactured by 41-A Products, you would do well, as we are most pleased that we did recently, to ask for 41-A Products by name. With quality products made by efficient employees in a company owned and operated by the likes of Zelma Porter, you're sure to get the best.

Beautiful Flowers Without
Sunshine?
They're Possible By . . .

GARDENING UNDER LIGHTS

By Libba Morris, Home Economist
Chickasaw Electric Co-op

Those who love flowers and long to have them in bloom the year round, will have their wish come true through artificial light. In other words, you can have beautiful flowers without sunshine. The use of light other than sunlight to aid plant growth sometimes is called *phytoillumination*. Of the many kinds of artificial light available, fluorescent light possesses the greatest number of desirable characteristics for growing plants.

In selecting the proper fluorescent fixture, be sure that the fixture will fit the space you have available and that it will provide 15 to 20 watts of fluorescent light per square foot of growing area.

We know that plants cannot live without light. It influences rate of growth, leaf size, and digestion and other phenomena.

Some lamp manufacturers have made possible agricultural lamps such as Gro-Lux, Plant-Gro, and Plant-Lite. These lamps utilize a blend of red-blue high-energy phosphors. They fit standard fluorescent fixtures. Under these lights, colors in plants come alive; pinks-pink; and reds-red.

African Violets were among the first plants to be grown successfully under lights. The show winners are those violets which have been grown under artificial light.

The purpose of using fluorescent for indoor gardening is to get enough light to enable plants to grow and flower.

Lamps should be placed 18"



This lighting installation of a 40-watt Gro-Lux and a 40-watt Daylight lamp has been used with much success by Mrs. Earl Redfearn.

above the surface of a bench or table on which potted plants are placed. When these lamps burn from 14 to 16 hours out of every 24, most plants respond by growing compactly, luxuriantly, and by blooming well over a long season.

What Plants Should Be In The Fluorescent Lighted Garden?

African violets, gloxinias, and tuberous begonias show excellent results under fluorescent lighting. The lamp has the same beneficial effect on such popular non-flowering house plants as philodendrons, ivies, ferns, rubber plants, dracanea, and coleus. They grow faster and more vigorously and the decorative appearance of their foliage is increased.

The Gro-Lux lamp, by Sylvania, comes in 15", 18", 24", and 36", 48", 71" and 96" lengths. In the types most suited to home use, prices range from slightly over two to about five dollars.

Since the Gro-Lux lamp radi-

ates red and blue energy predominantly, you won't be surprised to hear that its light has a pleasing delicate lavender cast. This lavender light enhances the plant appearance and makes them ideal for decorative plant displays.

Now, you might be wondering: How long should the light be on the plants? Short day plants such as gardenias, Christmas begonias, poinsettias and chrysanthemums need 10 to 13 hours of light. Long day plants need 14 to 18 hours of light. In this group are China asters, calceolaria, coreopsis, dahlias, nasturtiums, and many of the annuals grown for spring flowering. Indeterminate day plants will flower at all seasons of the year in varying degrees of abundance, whether they receive 12, 14, 16 or 18 hours of light. This group includes roses, carnations and the great majority of house plants—such as African violets, gloxinias, begonias, geraniums and coleus.

For best results, it's a good idea to group your plants according to their need for light. By installing an inexpensive automatic timer, you can make sure that your plants receive the proper amount of light each day for most successful growth.

Several ladies in our area grow African Violets under fluorescent lighting. The Gro-Lux lamps are used primarily. One lady uses the 40 watt Gro-Lux lamp paired with a 40-watt daylight lamp. She seems to think this is the best set-up for growth. The fluorescent lighting provides the strong rays the violets need. With this particular recipe, the violet requires fewer growth hours.

Mrs. Cooper Skelton designated a room in her new home for a violet nursery. She uses several portable fluorescent lamps on a stand such as you see in the picture. Each violet thrives on fluorescent lighting. Mrs. Skelton stands beside her terrarium, which won the award for the most outstanding plant in the Gesneriacas family in a recent African Violet Show held in the Chickasaw Electric Cooperative Auditorium.

Mrs. Earl Redfearn, displays her plant, Dove Wing, selected by the judges for "Best in Show." Mrs. Redfearn grows the majority of her plants under the fluorescent lighting. Notice the shape, size and condition of the violet.

To obtain good lighting, you don't need to get too fancy or expensive. Mrs. Redfearn's husband built this installation of shelves and lamps which will really get the job done. Notice the picture of this installation.

If you are having poor luck with your violets or other plants, try fluorescent lighting. This might be just the answer. Try it anyway for we know you will be thrilled with the display of color that can be brought alive in your plants with fluorescent lighting. Contact your local cooperative if you need further help.



Mrs. Cooper Skelton



Mrs. Earl Redfearn

Good Things Last Longer in a Frost-Free Refrigerator



It's almost like having a supermarket in your own kitchen!

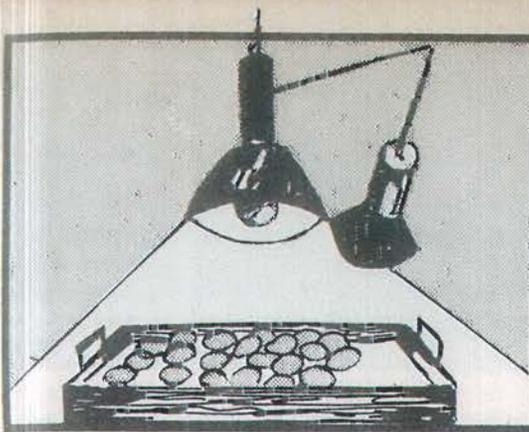
You can keep that garden-fresh goodness in your vegetables and fruits; keep meats and poultry for months and months. And everything is handy when you need it!

A frost-free Refrigerator-Freezer can save you money, too. Buy meats and vegetables during seasonal sales for serving when prices are high again. You save shopping trips because you can buy in large quantities and safely store perishables in your freezer. There is always plenty of food handy . . . even when unexpected guests stay for dinner.

For years of care-free service, be certain yours is a frost-free Refrigerator-Freezer. That way you can use your freezer without interruption for years and years.



TENNESSEE'S RURAL ELECTRIC COOPERATIVES



ADEQUATE LIGHTING AIDS PRODUCTIVITY

Which of us nowadays does not take for granted the instant illumination afforded by the simple action of flipping the electric light switch whenever we happen to feel the need.

Some wonders of electricity cannot be as easily accepted—especially those responsible for more efficient farm management. Lighting on the farm is quite often the

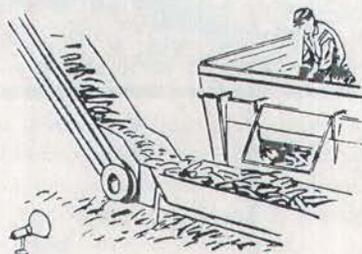
first application made of electrical power after the farmstead has been connected to the high line. No other use of electricity opens up so many channels of activity which would be inconvenient or impossible with other sources of artificial light.

Electric light is safe, convenient and inexpensive. It extends the farmer's productive working day

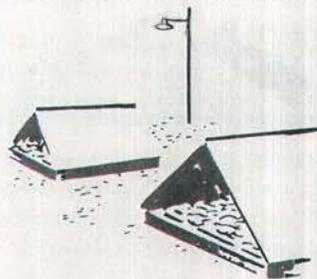
for tasks that require full visibility and offers many new opportunities to save both work and money in the operation of a farm.

The value of any farm lighting installation depends on how well it is planned. A well-planned program contributes measurably to farm safety, convenience and productivity. Selecting and locating lights is of major importance.

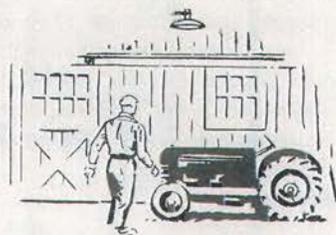
HERE ARE SOME OF THE WAYS ADEQUATE LIGHTING CAN ASSIST IN FARM ACTIVITIES



1. Increases production by permitting operator to be independent of daylight for carrying on operations.



4. Protects property from theft and marauding by having floodlighting available when needed. An example, lighting of a poultry range.



2. Helps to increase safety in doing chores and jobs after dark and in the early morning hours.



5. Assists in making emergency repairs at night, during seasons of peak farm activity, that would mean expensive delays if done during normal working hours.



3. Improves quality of work because of better visibility produced by quality-controlled lighting.



6. Promotes health and cleanliness. Cleanliness is much easier to obtain when there is light to see dirt which may harbor disease-producing bacteria.

Uncle John's Page

This page is reserved for the young folks. We will pay one dollar for each poem or drawing published. ALL WORK MUST BE ORIGINAL. Drawings should be in black, and drawn on white, unlined paper. Tell us your age, address, and Electric Co-op, and

Send all items to:

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710 Spence Lane, Nashville 10, Tenn.



Gary Sexton, Age 12
Route 8, Rogersville, Tenn. 37857
Holston Electric Cooperative



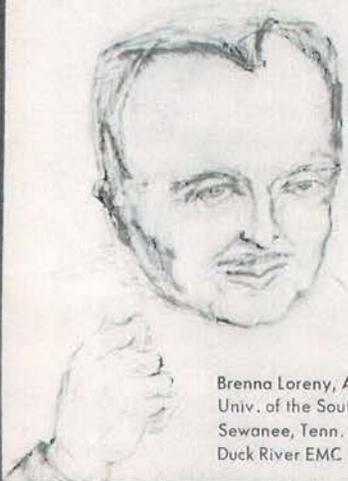
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Adamsville, Tenn. 38310
Pickwick Electric Cooperative



Connie Brown, Age 11
Route 1
Spring City, Tenn. 37381
Volunteer Electric Cooperative



Brenda Hooks, Age 15
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Hohenwald, Tenn.
Meriwether Lewis E.C.



Brenna Loreny, Age 15
Univ. of the South
Sewanee, Tenn. 37375
Duck River EMC

Johnny C. Porter, Age 15
Rt. 3, Box 115
Humboldt, Tenn.
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Timely Topics

RESEARCH, EDUCATION AT AG PROGRESS SHOWS

Farm families and city-dwellers alike will find something of interest at the Agriculture Progress Shows given by the University of Tennessee Institute of Agriculture this summer at three locations across the state.

Farmers will see how the latest developments in Tennessee agriculture will make their business more profitable and easier; homemakers will find many exhibits about foods, gardening and landscaping; city folk will see how research and education have advanced agriculture; and high school students and their parents will have an opportunity to talk with representatives from the University about furthering their education and career opportunities.

The shows are scheduled on the Agriculture Campus in Knoxville on June 11 and 12; at the Middle Tennessee Agricultural Experiment Station, Spring Hill, June 18 and 19; and at the West Tennessee Agricultural Experiment Station, Jackson, June 25 and 26. Thus, a Progress Show will be within easy driving distance of every person in Tennessee.

All departments of the Institute of Agriculture will be represented, and exhibits, discussions and tours will be used to give visitors a picture of the development of the state's agriculture.

In addition to information from the various research and teaching departments, information will also be presented on careers in agriculture or related fields, and on the role of the Institute of Agriculture in assisting in the development of agriculture in under-developed countries.

Since we are living in an atomic age, UT-Atomic Energy Commission Agricultural Research Laboratory representatives will be on hand to explain radiation and how it affects crops and livestock. They will have exhibits showing experiments that have been done on plants and animals and how this research can be applied to everyday living.

The Progress Shows will be among scores of events scheduled in observance of the 175th anniversary of the University of Tennessee, official beginning of which will be in September.

WORLD FACING FOOD SHORTAGE

Shortages of food in some countries of the world, notably India, in recent years have made us more aware of the threatening scarcity of food in certain countries of Asia, Africa and South America.

Every year India has to import millions of tons of food, especially food grains, because of severe shortages caused by drought or for other reasons, says Eugene Gambill, University of Tennessee Extension associate agricultural economist. The U.S. alone shipped more than eight million tons of food grains to foreign markets in the past year. Food experts and consultants conclude that the scale, severity, and duration of world food problems are so great that a massive long-range effort unprecedented in human history will be required to master it.

Looking ahead for 30 years, estimates indicate that total world food production must be at least double its present volume, Gambill points out. This increase will be required if the population of the world is to have a minimum needed diet, and if economic growth is to occur in both the developing and the less advanced countries. The modern world has no more urgent problem than that of feeding its population well.

It should be emphasized that a food crisis does not threaten the industrially developed countries, the economist notes. National food shortages are occurring only in low income countries. Each year most of the people in the advanced countries are eating higher level diets. They are eating better foods and generally improving their nutritional level.

CHOOSE RIGHT SIRE FOR MILK PRODUCTION

The amount of milk a cow will produce depends upon her inherited make-up and her environment.

"Through proper management of the dairy herd, both of these areas can be improved, resulting in an increase in milk production," points out Herbert Holt, University of Tennessee Extension assistant dairy husbandman. "The most rapid change can be brought about through environmental contributions, such as quality of feed, proper milking methods and herd health."

"On the other hand, change in the inherited make-up of the dairy herd can be attained through a careful selection of sires to be used in the herd," he continues. "Sire selection provides the dairyman with the most important single tool available for building production potential in his herd. Bulls which have demonstrated the ability to transmit high milk production to their offspring are available in artificial breeding studs."

The USDA lists a summary, published three times a year, of proven dairy sires in U.S. bull studs used in artificial insemination programs. The January, 1960 USDA Sire Proofs clearly illustrate that every bull does not prove to be a good one. The summary lists 830 proven dairy sires used in artificial breeding. In this group, 209 or 25 percent of the sires will probably lower both milk and fat production below the breed average.

A further breakdown indicates that 34 percent will lower milk production and 33 percent will lower fat production below breed average. However, 178 or 21 percent of the sires are listed with transmitting ability of 500 pounds of milk or greater and 98 sires are listed with transmitting ability of 25 pounds of fat or greater above breed average.

Although many bulls are available to choose from, the dairyman must recognize the fact that bulls do vary. And to build production potential in the herd, only those sires known to have the best transmitting ability should be used.

For a copy of the USDA Proven Dairy Sire Summary, contact your local Agricultural Extension Service office.



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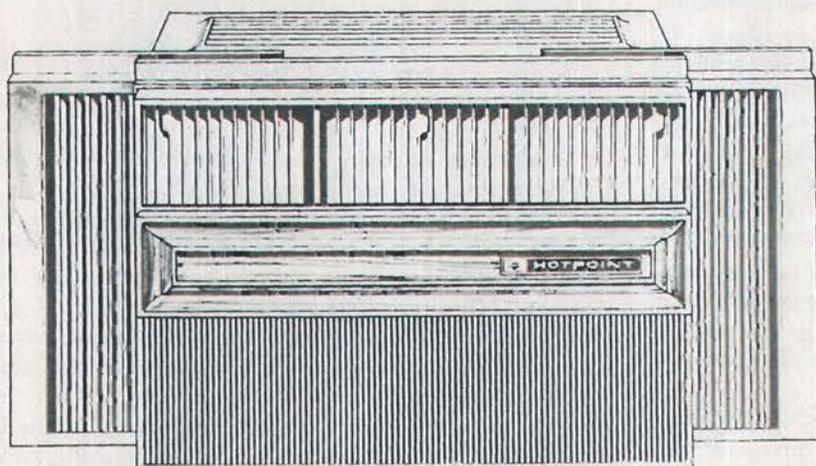
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Puzzle Corner

In the following 15 statements are all the facts you need to solve the problem, which can indeed, be solved through deduction, analysis and some persistence:

1. There are five cabins on Pelican Lake. Each cabin is a different color, and is inhabited by a man of a different nationality, each drinking a different kind of drink, firing a different brand of shell, and shooting a different duck.

2. The Englishman lives in the red cabin.

3. The Pole shoots only blue-bills.

4. Cola is drunk in the green cabin.

5. The Finn drinks coffee.

6. The green cabin is immediately to the right (your right) of the brown cabin.

7. The hunter who uses Winchester shells shoots mallards.

8. Remington shells are shot in the yellow cabin.

9. Orange juice is drunk in the middle cabin.

10. The Norwegian lives in the first cabin on the left.

11. The man who buys Federal shells lives in the cabin next to the cabin of the man who shoots red heads.

12. Remington shells are used in the cabin next to the cabin where the canvasbacks are shot.

13. The hunter who fires Western shells drinks tea.

14. The Irishman loads up with Peters shells.

15. The Norwegian lives next to the blue cabin.

THE PROBLEM: Who drinks the milk? And who shoots the teal?

ANSWERS will be given next month, along with all names who send in correct ones. Address

*Puzzle Corner
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Nashville, Tenn. 37210*

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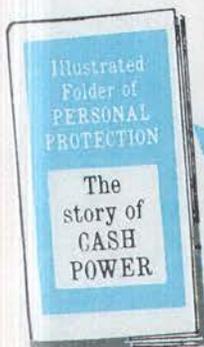
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ODOM LAKE, FISHERMAN'S PARADISE

By C. H. Ward
Mountain Electric Co-op.

Fishermen, being a peculiar specimen of their own, are always looking for a better place, or a "fisherman's paradise." Those who have had the good fortune of visiting John Odom's lake on top of Walnut Mountain have found this paradise.

Odom, a former garage owner in Hampton, Tennessee, closed his garage a few years ago because of poor health. He and his wife, Barbara, were looking for a nice quiet place and heard about this 500 acre farm for sale on Walnut Mountain. No one had lived on this place for 30 years, but the price suited John so he purchased the farm without even looking at it.

You can imagine how "grown up" this place must have been. In fact, John said he just about had to crawl in on his first trip. But it wasn't long until he had a road bulldozed, a power line to the house, and many other improvements to make the place livable.

His intentions were not to do much of anything on the farm—but with all this land he figured it would be worth-while to raise a few cattle. However, he again found that his health would not permit him to prepare the land for grazing and take proper care of the stock.

The creation of his 24 acre lake came because of a desire for beauty and the dream of having his own "fishing place." He had a natural valley where a deep ravine sliced the mountain in half. A cold stream ran through this little valley which was fed by 12 springs located a few hundred yards below his house. With the proper "fill in" for the dam, Odom soon realized he had a lake more beautiful than he had visualized.

The filling of the lake took about 6 months. Near the dam the water



A view of Odom Lake standing on the fill-in of the dam. This was taken in February while frozen solid.

is around 40 feet deep. The spillway is screened to prevent the small trout leaving and by proper design of the outlet, the water is taken off the bottom of the deep end to prevent stagnation. A road has been bulldozed so that most of the lake is accessible from the shore.

After about 3½ years, Odom opened his lake last April to the public. Since this is a private development, no fishing license is required. However, Mr. Odom

charges a daily fee for fishing. There are strict regulations pertaining to fishing, such as the use of only electric trolling motors, and the use of minnows for bait. Mr. Odom wants only Trout in his lake so you can understand why he excludes the use of live minnows. The only minnow in his lake is a small type he stocked for food for the trout.

The fisherman can use any other type of bait he wishes. Salmon eggs, worms, and cheese



A nice catch in a short time. George Stout, left, with John Odom and wife Barbara. They used barbless hooks in order to let the small ones get away without damage. Note the buckskin coats Mr. and Mrs. Odom are wearing. They were made from deer killed the previous year.



George Stout, Superintendent of Mountain Electric Cooperative, cuts hole in ice in preparation to ice fish.

balls along with whole kernel corn (cooked) have been very successful. Artificial flies and spinners are useful to the experienced fisherman.

Originally, the lake was stocked with 40,000 trout, of which some 400 measured better than 20 inches. Since opening day, around 15,000 have been taken, but Odom says not to worry—plenty more are on the way.

The trout has adapted to the lake and have been spawning upstream. This natural reproduction wasn't planned and John is building ponds and enlarging the inlet streams to encourage the trout to spawn. He plans to continue stocking and to introduce a new trout this year. He has declined offers to stock other varieties of fish.

Odom Lake is not only a haven for fishermen, but also for those who love the outdoors. It is lo-



Mr. John Odom lands one of the smaller trout. A few minutes after this picture he brought in a 21" rainbow.

cated on top of Walnut Mountain on the Tennessee-North Carolina line and is about 4200 feet above sea-level. The lake is surrounded by beautiful mountains which are full of wild life, especially deer and grouse. There are 4 roads leading up to the mountain. The best route is from Highway 321 known as the Little Stoney Creek Road. None of these roads are paved, but are accessible by auto most of 1 year.

At present, Mr. Odom hasn't planned for cabin sites, but does have space for trailer and tent camping. Electricity and water will be available at the camp sites.

John and Barbara Odom are well pleased with their adventure. They are both lovers of the outdoors and the friendliest people you'll ever meet. The hospitality you find there will long be remembered.

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If you would like to learn more about how you can participate in this fascinating and profitable business, just fill out and mail coupon and a Free Booklet will be sent to you. You are under no obligation. We invite you into the fascinating field of Chinchilla raising—an exciting pastime that grows rapidly into profit!

CHINCHILLA RANCHING

your future in the chinchilla industry

Chinchilla ranching . . . a profitable pastime that can explode into a FIVE FIGURE INCOME.

The fur of the Chinchilla cannot be imitated because of the virtual weightlessness, the degree of coloring and the wearability. Compared to raising livestock of any kind, Chinchilla ranching is easy, requiring only about 30 minutes per day. It is interesting and inexpensive, since the top grade feed formula distributed by Golden Princess Chinchilla costs between \$3.00 and \$5.00 per year per animal. The market for Chinchilla pelts has enjoyed a gradual rise since 1957. The national market seems to rise with the quality of Chinchilla pelts available. Since marketing and pelting will one day be Golden Princess Chinchilla's main concern, we would like to take this opportunity to assure

you again that a herd purchased from Golden Princess Chinchilla will be the finest grade of animals available for the price. The age of guesswork and experimentation is past. We know for certain that polygamous breeding is a huge success. Over the years we have discovered the proper diets, housing, temperatures, pelting and tanning techniques that make Chinchilla the world's most sought-after fur. The real profit story is yet to be written, the profit picture is a candid photograph of the future. People with the insight to invest now . . . will reap the profit harvest of tomorrow. The Chinchilla market cannot expand as quickly as the consumer demands. We intend to do our part . . . how about you?

- Complete financing
- Marketing services
- Replacement warranties
- Professional assistance
- Thorough training program
- Local associate members

Get in on the ground floor of this dynamic new industry! Act NOW! Send for your free brochure.

PERHAPS YOU CAN QUALIFY

USE THIS HANDY CHECK LIST TO SEE IF YOU COULD BE A CHINCHILLA RANCHER:

- () Do you love animals?
- () Do you have a basement, outbuilding or spare room?
- () Do you have spare time you would like to turn into profitable time?

Golden Princess Chinchillas

4650 Melton Ave. Louisville, Ky. 40213
Phone (AC 502) 361-3249

SEND FOR FREE DETAILS!

Golden Princess Chinchilla,
4650 Melton Ave., Louisville, Kentucky 40213
Phone 361-3249 (AC 520)

- () Please send me Free Booklet on Chinchilla Ranching. I understand there is no obligation.
- () Please have representative call (attach directions to your home)

Name
Address
City State
Phone
Age Occupation

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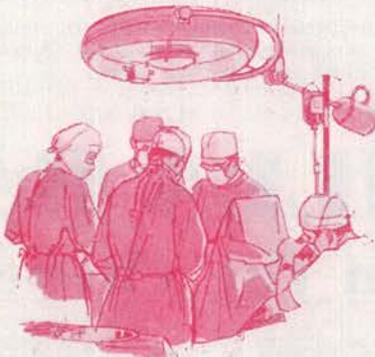
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