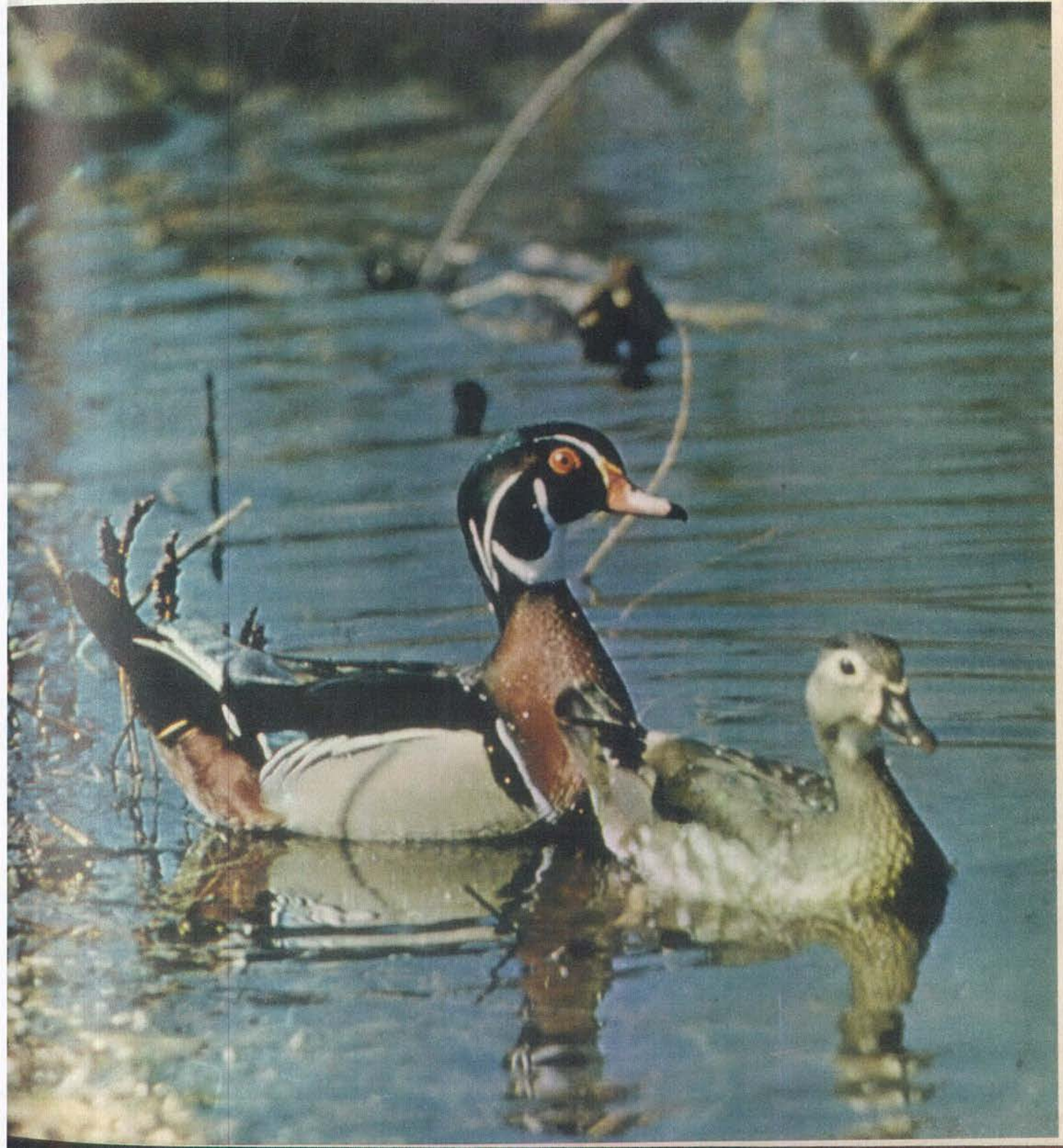


# Tennessee

MARCH, 1966

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"Today in Sports"  
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Mon. thru Sat.

## COMPLETE MARCH 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	Lassie—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	Outkick Draw McGraw (c)—Saturday	1:30-3:00 PM	Adventure—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	Poppye 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	The Secret Storm—Mon. thru Fri.
8:00-8:30 AM	Huckle & Jackie (c)—Saturday	11:30-11:45 AM	Search for Tomorrow—Mon. thru Fri.	3:00-4:00 PM	CBS Golf Classic—Saturday
8:30-9:00 AM	Tennessee Tuxedo (c)—Saturday	11:45-12 N	The Guiding Light—Mon. thru Fri.	3:30-4:30 PM	Action/Adventure—Sun.
9:00-9:30 AM	Heaven's Jubilee—Sunday	12:00 N-12:05 PM	World at Noon—Mon. thru Fri.	3:30-4:00 PM	Lloyd Thaxton Show—Mon. thru Fri.
9:00-9:30 AM	Spellbound—Mon. thru Fri.	12:00 N-12:30 PM	My Friend Flicka (c)—Saturday	4:00-5:30 PM	Big Show—Mon. thru Fri.
9:00-9:30 AM	Mighty Mouse (c)—Saturday	12:30-1:00 PM	Singing Convention—Mon. thru Fri.	4:00-5:00 PM	Daktari—Sat.
9:30-10:00 AM	Patterns for Living—Sunday	12:30-1:00 PM	U. S. Farm Report—Sunday	4:30-5:00 PM	Amateur Hour—Sunday (c)
9:30-10:00 AM	The McCays—Mon. thru Fri.	12:30-1:00 PM	As The World Turns—Mon. thru Fri.	5:00-5:30 PM	Twentieth Century—Sunday
9:30-10:00 AM	Linus the Lionhearted (c)—Saturday	1:00-1:30 PM	Sky King—Saturday	5:00-6:00 PM	Lloyd Thaxton Show—Saturday
10:00-10:30 AM	Camera Three—Sunday		The Faceoff—Sunday		

SPECIALS: 3/30/66—Color Me Barbra (c)—8:00-9:00 PM

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



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# To The Point

by John E. Stanford

Problems, it seems, have a way of compounding themselves.

As related in these spaces before, there remain no doubts that the cooperative rural electrification program is going to have to find new sources of capital if it is to keep up with the ever-increasing electrical needs of some 20-million rural and small town Americans who look to their electric co-ops for an adequate and dependable supply of reasonably-priced electricity. This is by no means to imply that the program can no longer look to REA for a certain amount of its loan funds. There are still many local systems which absolutely MUST have the availability of REA's 2% loans in order to exist. At the same time the over-all program is realistic enough to know that ALL of the enormous loan funds which must be made available in the years to come cannot be expected to come through Uncle Sam's lending services.



STANFORD

Certain to be a prime topic of conversation and, probably, action at the 1966 Annual Meeting of the National Rural Electric Cooperative

Association (which had not yet been held at the time of this writing) is this matter of "supplemental" financing. Indications are that among the proposals which will receive considerable thought and action are 1. a Bank for Rural Electric Systems at which borrowers probably would pay higher interest rates but have fewer restrictions than under present REA-type loans, and 2. an intermediate loan program at cost-of-money rates with principal and interest collections from outstanding loans flowing back into a revolving loan fund account for re-lending to REA borrowers. Both of these possibilities would be in addition to the present REA program which already, is being provided with lesser lending funds than are needed by its borrowers.

This discrepancy was accentuated recently in a budget proposal which advocated impoundment of some \$132-million of the \$402-million allocated for REA loan authorizations for the current fiscal year, which ends June 30, 1966. This amount would be held until the next fiscal year.

Based on the backlog of loan applications already on hand at the beginning of the current fiscal year and on loan applications filed and estimates of others yet to be filed during the current fiscal year, REA actually needed \$764-million in loan authorizations for the fiscal year which ends next June 30 instead of the \$402-million which Congress authorized. To impound \$132-million of this \$402-million would further compound the co-ops' financial problems, leaving them less than one-half of their loan needs for the current fiscal year. As stated, the electric co-ops realize that they can no longer look to REA for all of their long-range and ever-increasing loan requirements, but an unexpected slash in already inadequate funds before they can work out and put into practice some supplemental plans could result in some rather chaotic situations.

Tennesseans can take comfort in the fact that this chaos will not take place if their Congressional Delegation has anything to say about it. Following the budget proposal to impound almost one-third of REA's current authorization, Tennessee Rural Electric Cooperative Association Executive Manager J.C.Hundley wired the Volunteer State's entire delegation asking all to contact and request of President Johnson, Agriculture Secretary Freeman and REA Administrator Clapp the rectification of the budget proposal, effecting instead the full use of the \$402-million for the current fiscal year plus a deficiency loan fund to reduce present backlog applications, and asking for an increase in 1967 REA loan or contingency loan funds. Hundley also asked their help in obtaining speedy passage of legislation which would establish a supplemental self-financing program.

Senators Gore and Bass and Congressmen Anderson, Evins, Everett, Duncan, Quillen, Brock and Grider sent immediate and favorable replies.

Maybe, as has been said, PROBLEMS are really nothing more than OPPORTUNITIES dressed up in work clothes.

Vol. 9 Number 3 March, 1966

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COOPERATIVE ASSOCIATION

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J. C. Hundley, Executive Manager

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## ON THE COVER

"Ducks On A Pond" may have several modern-day meanings but to us, and we hope to you, it means a pretty 4-color cover picture.

TENNESSEE MAGAZINE

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**LOW, LOW, GROUP RATES**

*Jagged Limestone in Robertson County  
Becomes An Important Part of Smooth  
Highways Following...*

## A CRUSHING OPERATION

By John E. Stanford

One of the few companies in Tennessee which enjoys being described as "shifty" and "on the rocks" is the Porter Brown Limestone Company, which headquarters in Springfield, Tennessee. Rocks are its business, and the fact that the company can shift its field units from place to place in a very short while is one of its outstanding, and necessary, features.

At the present time the Porter Brown Company is one of the largest limestone-crushing companies in the state, although it is concentrating its operations in only one county at present—Robertson. It has one unit about 14 miles east of Springfield and four miles north of White House (just off U.S. Highway 31) and the other about one mile north of Springfield. Both units are powered by electricity supplied by Cumberland Electric Membership Corporation.

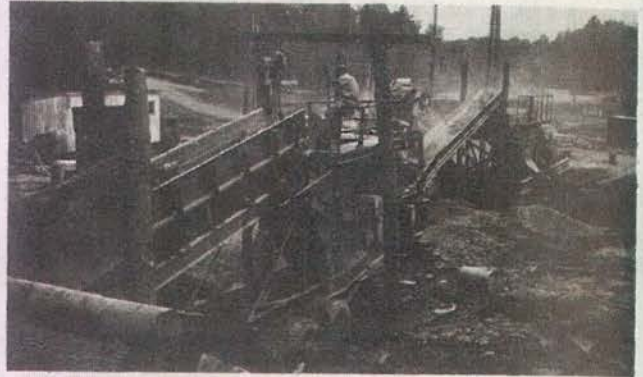
The founder of the Porter Brown Limestone Company, Porter Brown, Sr., has entered his retirement years, but he has five sons actively involved in carrying on the business. They are Paul, Porter, Jr., Benton, Loy and Charles. Each is in charge of a major operation of the company with Paul serving as over-all Manager.

Relatively few people not actively concerned with road construction work realize the enormous amount of rock that is required in highway construction. For example, the Porter Brown Company furnished some 29,000-tons of rock required to re-surface State Highway 109 from the Kentucky state line to Gallatin, a distance of fewer than 20 miles. This rock was quarried and crushed at the Brown operation near White House, which is the focal point of this story and at which the accompanying pictures were made.

Some idea as to the scope of this amount of crushed rock can be taken from the fact that the capacity of the modern, electrified, high-capacity Brown operation can produce from 1,500 to 2,000 tons of ready-for-the-road rock per working day. Reflecting that lesser amount in terms of a completed road, it means that a sizeable operation such as Porter Brown can crush just about enough rock each day to resurface one mile of a two-lane state road. This points up the huge requirements of highways rather than indicating limited crushing capacity.

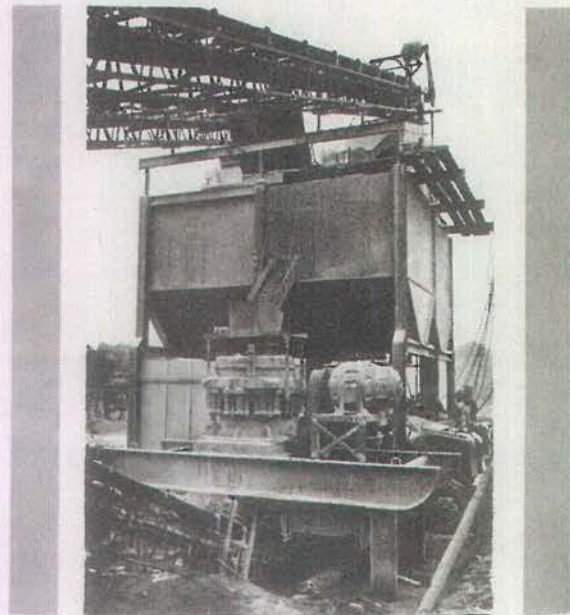
The Porter Brown Limestone Company is primarily a gravel contractor although their modern equipment is able to grind limestone so fine that it can be used as agricultural limestone. Most of the business, however, concerns the supplying of road contractors with bedrock or with rock to be used in the construction of driving surfaces. And, as mentioned earlier, Brown can shift his operation to points of his greatest demand.

At the present time Plant No. 2, the designation of the operation near White House, is located on the same site as the Mid-Tenn Asphalt Company, which does considerable road building and re-surfacing in the area. Brown supplies all of Mid-Tenn's rock needs in a side-by-side operation.

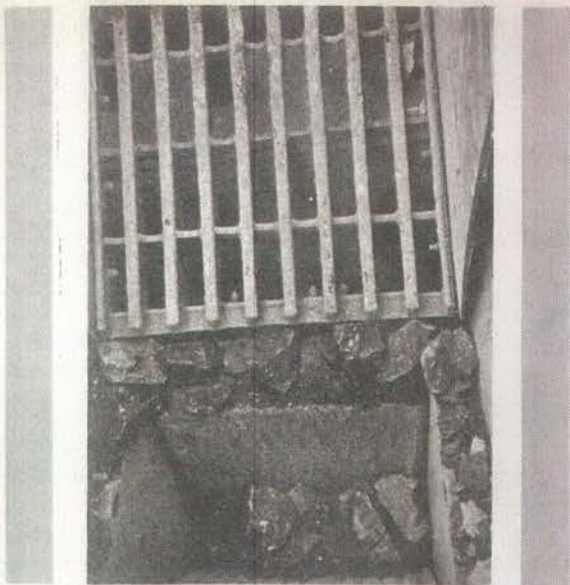


Huge limestone rock (lower left above logs) is being conveyed into first cone crusher where it will be crushed into many smaller rocks no larger than 4-inches in diameter.

The availability of adequate electric power at low cost in rural areas had much to do with Porter Brown Plant No. 2 being located in Tennessee. The plant was moved to the Volunteer State from Alabama where diesel motors were put to major use and where the cost of electricity, when available, cost about twice what it does with Cumberland Electric serving as the supplier. And cost of energy is quite important in the Porter Brown operation. Plant No. 2, for example, utilizes 17 motors ranging from 1 1/2 to 200 horsepower. The mill has a total connected load of 850 horsepower and a demand of 250 kilowatts. It is among Cumberland Electric's half dozen largest users of power.



This will give some idea as to the size of the conveyors, holding tanks and one of the four crushers at the large Porter Brown Plant No. 2.



This is a directly overhead view of the first cone crusher which reduces larger limestone rocks to a maximum of 4-inches in size.

The quarrying and crushing of limestone rock is hardly a delicate operation, but it is one which requires quite a sizeable amount of expensive equipment and energy to operate it. Over-simplified, the operation might be placed in these steps:

1. Rock is blasted from quarry, averaging about 3 feet-by-5 feet in size.
2. Rock is picked up by large shovel, loaded on huge motor carriers and transported to crushers nearby.
3. Rock is routed by chain conveyor to, through and from one to four cone crushers, the number of crushers being determined by the ultimate size of stone desired.
4. Crushed rock is either taken directly to Mid-Tenn by front-end loaders, to other users who have placed orders, or stored in piles by size.

Porter Brown Plant No. 2 employs approximately 40 persons, including the drivers of more than 15 pieces of moving equipment. Although very mobile, the operation is so electrified that the company owns a 32-foot trailer which serves almost entirely as an electrical switching room. The main switch at the trailer is a 1,000-ampere



Porter Brown Employee Joe Woodard stands beside the outside pushbutton panels which electrically control all phases of the rock crushing operation. Panel is mounted on 32-foot trailer.

3-phase breaker which sub-feeds to numerous 200, 100 and 60 ampere breakers. The entire operation is electrically controlled at the trailer by push buttons and switches.



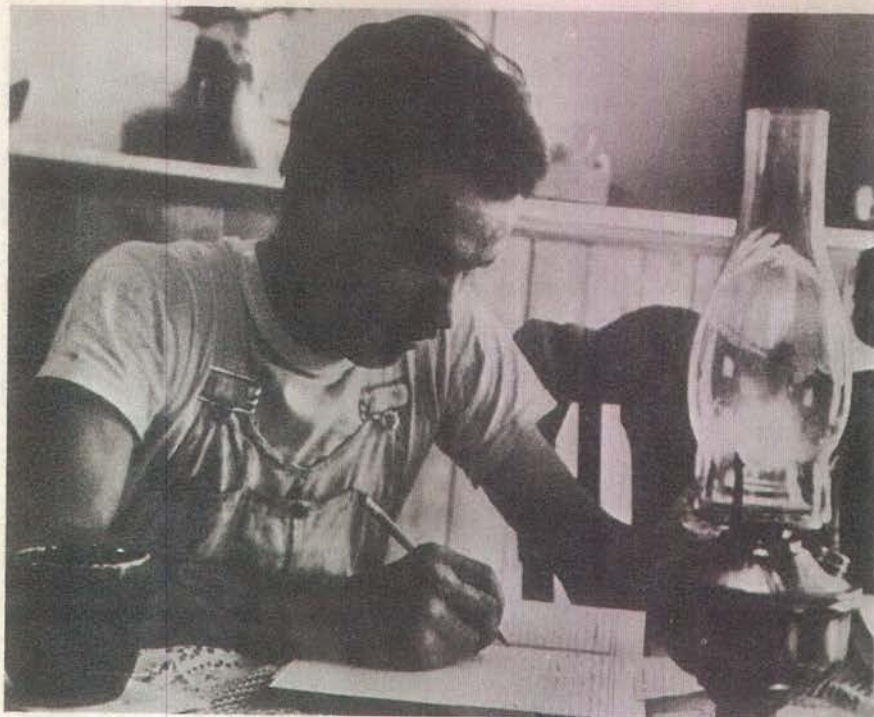
After limestone has been crushed to desired size, it is electrically conveyed to these storage bins, from which huge trucks are loaded for transport of rock to customers.

Cumberland Electric Membership Corporation supplies electricity to Porter Brown by means of a 3-phase, 120/240 Wye bank. Although the Brown operation is fairly remote in location and is classified as a temporary service. Cumberland Electric has increased its facilities in order to keep pace with need, and plans additional upgrading, including larger transformers, in order to keep abreast of additional future load increases anticipated by Porter Brown.



Joe Trauber, left, Electrification Advisor of Cumberland Electric Membership Corporation, electrical supplier for the Porter Brown operation, talks shop with Jack Allen, Superintendent for the limestone crushing plant.

Cumberland Electric's delivery of a large block of power to a fairly remote site is only one of hundreds of such deliveries which are being made daily by Tennessee's rural electric co-ops. Hundreds more will be added in the months and years ahead as Tennessee electric co-ops continue to do all they can with and within their power to serve every segment of the state's small town and rural areas—anywhere, any time, and with whatever amount of electricity that's needed to get any size job done.



## The Powerless People of Pacific Valley

By TED V. RODGERS

*(Editor's Note: In a state predominantly served by rural electric co-ops and municipal power systems distributing low-cost TVA-generated electricity, Tennesseans must not lose sight of the fact that most states are not as electrically blessed as is the Volunteer State. Neither must we, because we enjoy relative freedom from the venomous attacks and vindictive acts of private power companies, be lulled into a sense of false security, of feeling that what happens in other states is of no concern to us. Our's is a program of and for rural and small town Americans. The fact that the following story is taking place in California is not as important as the fact that it is taking place anywhere in our great nation and that such acts, in most states, come closer to being private power company rules than they do exceptions.)*

The Pacific Valley area of northern California is a beautiful string of sleepy little communities stretched out along a section of State Highway 1, the famed California coast road.

There is little about Pacific Valley which would distinguish it from a hundred other northern Pacific coast settlements.

The little communities around Pacific Valley have three roadside businesses, all cafe-grocery, store-gas station combinations. One of these has motel facilities while the other two are planning to build them.

The area also has a large state highway maintenance shop, a spark-

ling new elementary school, the Cape San Martin Light House, U.S. Forest Service headquarters for the Los Padres National Forest, a number of large camp sites, the Camaldali Immaculate Heart Hermitage which is home for 45 monks, a large ranch corporation and 55 private homes.

Yes, Pacific Valley would be rather typical if it were not for one situation which sticks out like the proverbial "sore thumb." You see, the people of Pacific Valley have never known the benefits of central-station electric service.

In a state which is looked on as the nation's most progressive, it is hard to imagine that there are a number of places like Pacific Valley—areas

which have been completely bypassed by the state's giant electric utilities.

Of all the state's power companies, Pacific Gas and Electric seems to be the most serious offender.

At Pacific Valley, for example, PG&E lines run south along the main highway from Monterey to a point just north of Lucia and north from San Luis Obispo to a point south of Gorda.

Between these two line ending points is a 28-mile gap which is Pacific Valley. In this gap more than 200 rural Americans go without electricity.

Spokesmen for this power company have offered the people of Pacific Valley central station service if they would be willing to put up a deposit of \$136,000. This is rural electrification, California style.

What do the people of this area have to say about their plight? We talked to several of them.

Forest Ranger J. D. Williams said, "Here we are in the atomic age when every edition of every newspaper carries a story about some modern miracle. But in my area there are over 200 hard working rural people who can't even enjoy the basic benefit of electric service."

Jan Brewer, owner of a 160-acre ranch in the mountains above Highway 1 observed, "No matter how we split it up, \$136,000 is a lot of money to put up for something that should be available at no cost above normal electric rates."

Brother Daniel of the Hermitage reports an expense of \$600 per month makes power generation one of the monastery's most costly items.

The owner of Half-Way Inn at Gorda, Elvina Frame, reported her generation costs are over \$350 per month and lack of central station power is the main drawback to building a 30-unit motel.

Ralph Gould, recreation officer for the U.S. Forest Service station at Pacific Valley placed USDA's cost of generator maintenance at more than \$4,000 a year.

If PG&E and other California power companies have failed to provide sufficient rural electrification, then why haven't more of the communities formed rural electric cooperatives?

This question is asked time after time and for the answer you need only turn right back to California's commercial power companies.

A good example of their refusal to tolerate cooperatives is the case of



the Forks of Salmon area in Siskiyou County.

Here, over 600 rural residents tried for years to get central station service from PG&E. They were met with the prohibitive line extension rates which mark that company's "way of doing business."

In desperation, the people formed Salmon River Electric Cooperative, Inc., and applied to the Rural Electrification Administration for a loan.

The loan is "ready to go" according to an REA spokesman, "soon as we find a way to obtain wholesale power for this cooperative."

It seems that REA's first four attempts to obtain a rate from PG&E were not even answered. A more recent attempt did receive a reply. The power company offered a wholesale rate which was, in effect, a commercial rate that stipulated the power was not to be resold.

Obviously, it is a little difficult to run a rural electric cooperative if you are prohibited from selling power to the member-owners.

The power in question, by the way, is purchased by PG&E and Pacific Power & Light from Bonneville Power Administration.

Cases like this, coupled with lack of territorial protection, and a long record of California power companies fighting—and, indeed, destroying—fledgling cooperatives from one end of the state to the other, discourages formation of new co-ops.

The power company attitude in all of these situations is one of "putting the cart before the horse." They contend that it is impossible for them to provide service until such time as a larger load is built up in these unserved areas.

Who, we might ask them, is likely to establish a business or a new home, thus creating a larger load, in an area that lacks electric service.

California's power companies have fought any effort to establish rural electric co-op systems in their areas and at the same time they have totally disregarded the needs of a substantial number of rural people. They apparently serve who they like when they like and in doing so they have reduced possibilities of developing some rural areas which obviously have the potential to grow.

This is rural electrification California style and the shame of it is that there is very little anyone can do about it. ■



## Interest Rates: UP

Interest rates began to escalate in December when the Federal Reserve Board voted to authorize the 12 district Federal Reserve Banks to raise the interest they charge on loans to member commercial banks from 4 to 4½ percent. This is the highest interest rate level since 1930.

The commercial banks, in turn, raise their rates. The result is the borrowing public pays the bill.

The Federal Reserve Board, dominated by big bankers, is known for a built-in bias for tight money and high interest. It has the authority to act independently of the national administration.

The Fed, of course, claims its action was in the public interest—that it had to raise rates to guard against overexpansion of the economy which it says would lead to inflation.

But consumer-oriented groups dispute the Fed's reasoning. A spokesman for the National Council for Sound Monetary Policy, says "the very inflation the Federal Reserve claims will be averted by its move will take place since the cost of everything will now go up because interest rates all along the line will rise."

In addition, there is concern that high interest rates could negate benefits from Great Society programs and endanger the 57 months of continued economic improvement.

The National Rural Electric Cooperative Association, for years a foe

of high interest-tight money, scored the action, saying the move has "demonstrated tragically that consumers cannot depend upon the Fed to look out for them." It urged President Johnson to lead a crusade against the rate increase.

One of those who will be fighting high interest policies in the second session of the 89th Congress is Rep. Wright Patman (D-Tex.), chairman of the House Banking and Currency Committee.

Patman has long opposed the Fed's independence and has repeatedly warned that it has too much power to control interest rates and the supply of money. Patman says, "Once again we are seeing the folly of allowing a handful of banker-dominated members of the Federal Reserve dictate the economic future of the country."

Patman's solution to the problem is embodied in his bill to require that the terms of the chairman of the Federal Reserve Board be identical to that of the President and that the terms of the Board be shortened to five years from their present 14 years.

Patman also calls for audits of the Federal Reserve and consumer representation on the Board. These reforms, according to the congressman, would give Congress, the Administration and the electorate—not just bankers—a voice in setting monetary policies of the country. (NRECA.) ■



Mrs. Hoyt Bryson, 401 Lehman Street, Woodbury, finds her tank-type vacuum cleaner mighty handy for sweeping floors as well as for the above-the-floor cleaning.



Mrs. R. W. Hawkins, 404 Lehman Street, Woodbury, uses her upright vacuum cleaner to give her wall-to-wall carpet a thorough cleaning.

## Foods, Facts and Fashions

### Spring Clean More Leisurely

By Patsy Myers, Home Economist  
Middle Tennessee Electric Membership Corporation

Everyone dreams of leisure hours, and this is certainly true of the homemaker—but the homemaker finds it more difficult to find time away from her job than any other class of worker, especially if there are small children in the home.

For this reason, this article is addressed to YOU—the busy homemaker whose “work is never done”.

Your best bet for acquiring leisure—for simple relaxation or the pursuit of some fascinating hobby—is to use your work-saving electric appliances to the fullest on some kind of schedule. With spring almost here and summer peeking around the corner, the time to start is now.

And the best starting point is with SPRING CLEANING. In the recent past, women were dismayed by the speed with which dust accumulated. And saddled with the tremendous task of carrying a stepladder and dust cloths along in order to reach awkward spots like the tops of doors and window frames. Consequently, this job wasn't tackled often, and became more foreboding with each day that passed. Now, with a modern vacuum cleaner and attachments, you can reach every corner and crevice to remove the accumulated grime of winter. And you can work right from the floor any day you choose—and feel confident your house is clean.

If your floors have lost some of their luster during the winter, you can easily put it back with the electric shampoo-polisher or floor conditioner.

In fact, the electric shampoo-polisher will help do several of your spring-cleaning jobs and help to keep your floors pretty all year-round, as well. It will scrub off old wax, apply and polish new wax, dry-clean or shampoo rugs, and keep your floors looking their very best with the minimum amount of effort on your part.

## Electrically

To get full use of your polisher, your equipment should include polishing brushes, and scrubbing brushes, or scrubbing pads. Some polishers come equipped with rug cleaning attachments and liquid dispensers. Also, it is possible to buy disposable applying and buffing pads. With these, it is possible to clean and wax even the dirtiest floor in one operation.

Felt pads supplied with many polishers are used for final buffing after brush-polishing to bring up a higher shine and remove swirl marks. Disposable pads may also be used for this purpose.

Steel-wool pads are useful on occasion to remove heel marks and exceptionally stubborn stains from the flooring.

A good suggestion for testing before you buy an electric polisher is to rent one from your hardware store and try it out. Perhaps you may need to try several before deciding on the brand, and the attachments which come nearest to suiting your purposes. If most of your floors are tile or linoleum, you may want to invest in a new floor washer and dryer. This is a wonderful piece of equipment for cleaning this type flooring.

While you are doing other thorough cleaning, you should wash the dishes you use infrequently, the glass diffusing bowls on your lamps, and your vases, all in the automatic dishwasher. With a dishwasher there need never be the old grind of washing and drying dishes by hand. You can sit and read stories to the children while the dishes are being “done”. Or, just sit and listen to a symphony on the stereo, or watch your favorite program on television.

While on your washing spree, you will want to check blankets and bedspreads. These, washed according to the instructions that came with them, come out of your washer



Little Jim Hawk watches his mother, Mrs. John Hawk, Greenbrier Street, Woodbury, as she buffs the floor with her electric polisher.

and dryer looking like new. So do your draperies and slipcovers. And you can actually do a cleanup job on your slipcovers and draperies in one day, if they are washable. With an electric dryer, they need little or no ironing and are ready for use within a few hours.

Plenty of hot water is an absolute necessity for cleaning house, in the dishwasher and clothes washer as well as in other phases of housecleaning. So even the lowly water heater helps out. If it's a quick-recovery model, you have plenty of hot water to fight dirt wherever it is found, even on small boys who have a special attraction for it.

Since your goal is spending less time with house work, you should give some thought to the chores that come up regularly: daily meals, laundry, cleaning and dishwashing. There are many ways to save time on them and still do a good job:

The work-saving appliances we've mentioned won't take over the running of your home, but they will lighten your work and give you more leisure. And they will do a much better job of this when you put them on a regular schedule for your daily work.



Prepare this recipe the day before, so you will have a hearty meal while you're spring cleaning.

**Chili** (makes approximately 8 cups)

- ¼ cup shortening
- ¾ cup chopped onion
- 1½ cloves garlic, chopped fine
- 2-3 teaspoons salt
- ½ teaspoon ground cumin
- 1½ lbs. coarsely ground beef
- 1¾ cups canned tomatoes
- ½ cup tomato sauce
- 1½ oz. or ⅓ cup Mexene chili powder
- ½ lb. dried pinto beans, cooked
- ¼ cup vinegar

Heat shortening in saucepan. Add onion, garlic, salt, cumin and ground beef. Cook on low heat for 5 minutes, stirring occasionally. Add tomatoes, tomato sauce and chili powder. Cook for 30 minutes. Stir in cooked beans, then vinegar. (If desired, you may simmer this mixture an hour, then add vinegar).

**HOUSECLEANING HINTS**

Much of the hardest of housecleaning is eliminated when you use cleaning waxes developed by skilled scientists to save you time and effort.



Mrs. Miriam Hawkins, Woodbury, uses her dishwasher here to wash dishes used only occasionally. However, she finds it does an excellent job for everyday dishwashing.

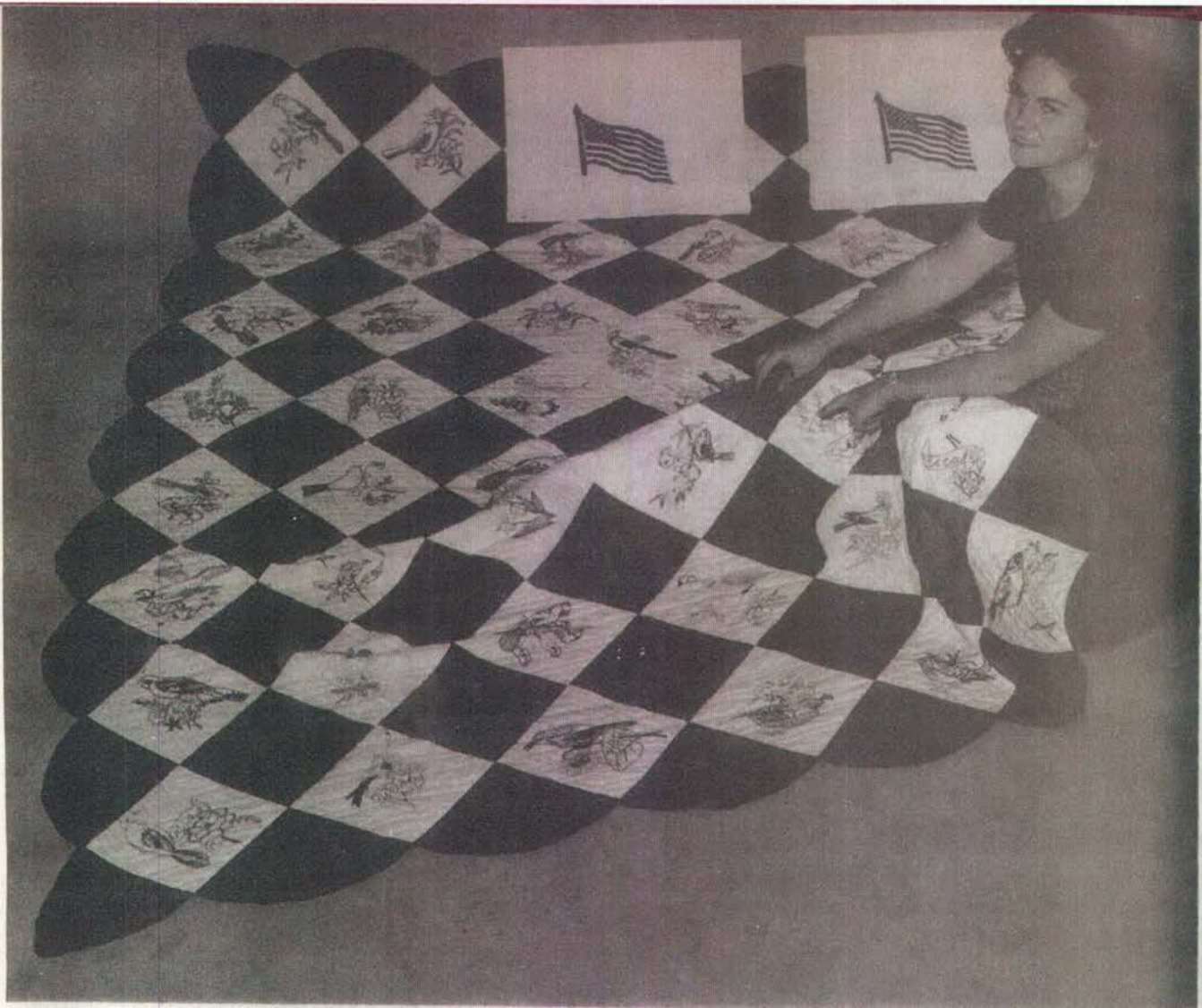


Mrs. Frances Bryson, Woodbury, removes a mattress cover from the dryer, white as snow and soft as new. She finds her washer and dryer indispensable for spring cleaning time; in fact, any time.

A wax finish is best for beautifying and protecting many surfaces in the home. However, waxes now available everywhere contain cleaning ingredients that make them clean more easily, safely, and efficiently than any of the old-fashioned methods of cleaning. They also keep dust and dirt from sticking, so it can be removed without laborious scrubbing or harsh cleaning that damages finishes. A waxed surface is hard, smooth and dry—it stays clean longer and stays new-looking longer.

A cleaning kit saves steps. It keeps cleaning supplies together and may be carried easily. You can use a basket or box with handles for the container. At any rate, the container should be as pretty as possible, and easy to keep clean. The suggested items included are: sponge, brushes, dust cloth, paper bags, furniture polish, various types of waxes, window cleaner, general cleaner, cleanser. It might even include a hammer and screwdriver.

A cream wax is good for cleaning paneled walls, furniture, wall tile, counter tops of various types of laminated plastic, even the refrigerator, washer, dryer, freezer, water heater. Use a cleaning wax such as Jubilee for most of these surfaces rather than detergent and water. Use a cleaning wax for cleaning piano and organ keys, for cleaning venetian blinds.



Mrs. Wilba Jean Black spent four years "sewing the United States" together. Her work is symbolic of sewing our nation's moral fibres together.

*Mrs. Black's Quilt Is Dedicated To . . .*

## "Sewing the United States Together"

By Coy Bayne, Editor, *Living in South Carolina Magazine*

Four years ago a farm girl in South Carolina began embroidering a quilt made of each state in the union, its bird and flower. When she could not sleep at night she would turn on an electric light and quietly hand-embroider the patches and "sew the United States together."

Later she embroidered the American flag on two white pillow cases for an appropriate head. The ensemble was completed just before 1966 arrived.

She was proud of her work as Betsy Ross was of our first American flag.

What did Mrs. Wilba Jean Black

think about during the long, quiet hours of quilting? She thought of America.

She thought of Americans before who have demonstrated with *work, sacrifice*, blood and even lives, to make our nation "The Greatest." She thought of soldiers, pioneers, industrialists, laborers — and yes, electric cooperatives — and so many things that have contributed constructively to a nation the world looks up to.

She thought, too, of things that pull at America's stitches; things that split the seams, and how the "quilt" sometimes gets threadbare before we regroup and patch it. We snip the loose ends and pull the strings tight-

er by renewing the moral fibres of our greatness: respecting the law; loving our family, our God and keeping responsibilities. Mrs. Black wished that our United States was bound more securely, symbolically, in unity and purpose, as her quilt.

It is with Mrs. Black's quilt — a symbol of warm security — that *LIVING IN SOUTH CAROLINA* magazine, joined in common purpose by *THE TENNESSEE MAGAZINE* and other Statewide Rural Electric Cooperative publications, calls on Americans everywhere, in 1966, to pull together under a common goal of inspiring world friendship by giving world leadership!

# HOTPOINT SPRING RANGE SALE

NEW  
**TOTAL CLEAN**  
 TEFLON  
 RANGE  
**\$199\***



**3 beautiful ways to save!**



New 40" range has removable oven walls, 2 separate storage cabinets!

Sale priced at about **\$219\***

Removable Teflon-coated oven walls wipe clean—no scouring! Storage space galore for added convenience. Oven timer plus removable drip pans. Model RC430G



Double oven luxury, every modern cooking convenience!

Sale priced at about **\$249\***

Oven timer has automatic starter; cooks double-oven meals while you're out shopping. Timed appliance outlet, insulated oven window, removable drip pans. Model RC439G

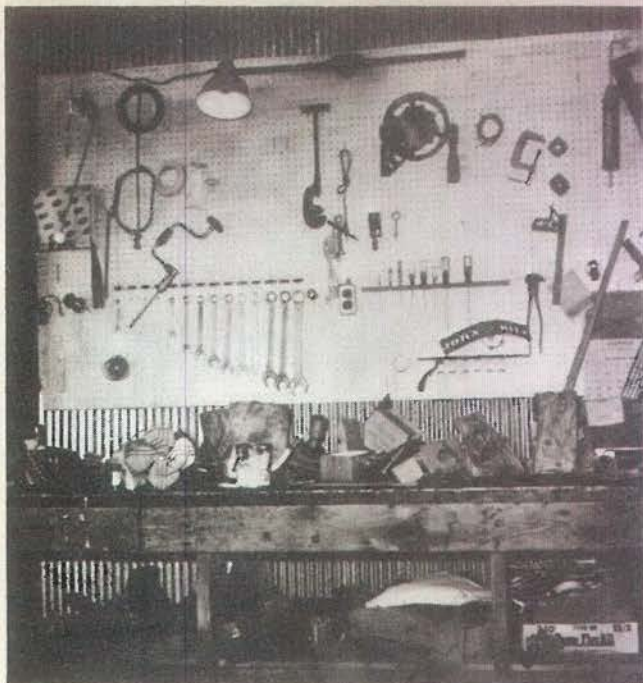
\*Prices and terms optional with your local Hotpoint dealer. Prices higher in Hawaii.

**New easy-to-clean range has oven walls you slide out, sponge clean!**

Removable Teflon-coated oven walls wipe clean—the oven door, storage drawer, drip pans and burner rings slip out easily for quick cleaning. That's Total-Clean. Easy to clean all over—easy to buy right now! Model RB540G

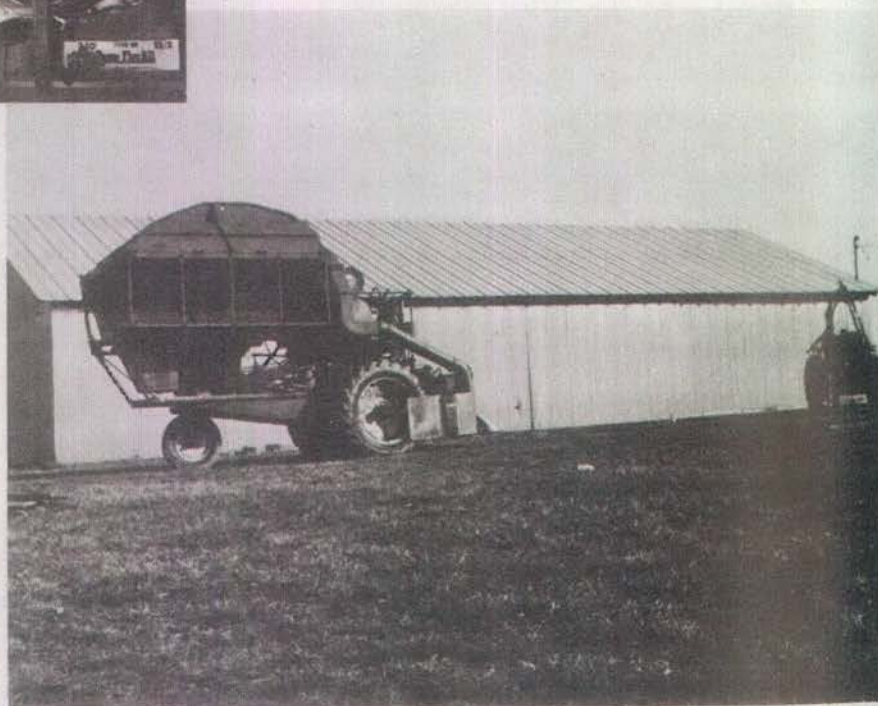
Sale priced at about **\$199\***

**Hotpoint**  
 First with the features women want most  
 A Division of General Electric Company  
 Chicago, Illinois 60644



The workbench and toolboard pictured here give ample evidence of the wide variety of equipment kept within easy reach of operator William's.

Within the walls of this well equipped farm shop, Jerry Williams, owner and operator, services his heavy machinery and handles all his own general repair work.



# THE FARM SHOP

BY THOMAS J. CLARK  
ELECTRIFICATION ADVISOR  
CHICKASAW ELECTRIC COOPERATIVE

An electric farm shop is a prerequisite to farming in this day and age, and the farmers who do have shops will tell you very emphatically that they do not see how they did without shops before they got them. A well-equipped farm shop can pay for itself within a few years in cost and time saved. Many times on the farm, a tractor, or some other piece of machinery, will be in a bad state of repair and it may take several hours or perhaps most of a day to take it somewhere to get it fixed. The old-fashioned blacksmith shop, as it was called, is a thing of the past. If welding or drilling is needed and one does not operate his own shop, it is very likely, he will be forced to travel to an automobile garage to have the job done. Where there is a farm equipment dealer, there is usually a repair shop. But many farmers are miles from a dealer and find it is too far and will require too much time away from their chores to go to them, when they are trying to make every hour count on getting their field work done. Time was

when most farmers got the farming tools, plows, etc. repaired in the winter time, as they did not use them then — only in the Spring and early Summer. But now with farming being almost completely mechanized and so different from what it was a few years ago, farm machinery and equipment is used in one way or another the entire year; consequently, a good farm shop is handy and time-saving.

Where there are young boys on a farm and perhaps members of the FFA, there is nothing better than a well equipped farm shop for them to spend their spare time.

In the farm shop, they will custom-build farm machinery, hatch new ideas and try them out and many times something turns out to be much better than any one ever dreamed it could be. In the May 1965 issue of the "Electricity on The Farm" magazine there was an article stating that a FFA winner had either invented or improved just about every piece of farm machinery they used on a 135-acre dairy farm.



A glance into any corner reveals the ordered array of the various pieces of equipment in this well planned and adequately stocked shop.

We went to Mr. Jerry Williams, Route 2, Mason, Tennessee, to get a picture or two of his farm shop, and while meeting with him he pointed to an old model car, saying that his son enjoyed the shop more than anyone else, just having it to keep his car going. Mr. Williams also said he did not know how his son did it, but that his boy could fix or repair most anything about the old car he wanted to and kept it running very good.

Mr. Williams (Jerry) has an adequately equipped farm shop. He has an electric welder (which he said he could not do without), drills, tools of all kinds and the shop is well lighted. One can understand why his young son spends a lot of his time there.

We also visited the Cowan Brothers' farm shop and found three men repairing a bulldozer. Their shop was sufficiently equipped to repair heavy machinery, as well as handle other general repair work.

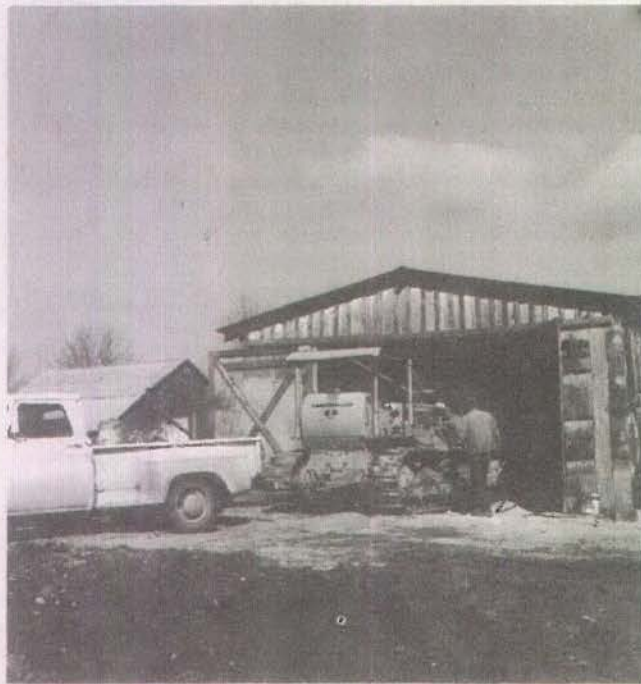
We believe in the near future there will be many just such farm shops, as there is no question as to the savings a shop can offer a farmer. The convenience of operating your own shop is worth a lot. Many times, when for one reason or another, the machinery is unserviceable, the farmer can make repairs before a complete breakdown, thus saving time and energy, and cutting expenses to a minimum.

The farmer can really keep everything shipshape with a fully equipped workshop, which, together with the skills of older, as well as younger farm mechanics can provide steady maintenance and many times custom build farm machinery at a low cost.

Yes Siree, Mr. Farmer, a farm workshop saves money—and time—by keeping farm machinery and equipment in good repair. It also helps you in constructing handy home-made tools.



In the picture above we see Williams appropriately placed electric welder, press drill and air compressor.



Not even the repair of this big Caterpillar bulldozer was considered too formidable an undertaking for the Cowan Brothers' farm shop. The task was accomplished in quick time.

These electric tools and farm work shop won't solve every farm problem. But they will help you produce more at a lower cost, because electricity *as a worker* costs far less than man power for any job you may have to do.

# How's Your Sense of Direction?

If you believe your sense of direction is pretty sharp, just think back to the last time you tried to pin the tail on the donkey!

Chances are you had trouble, but you're not alone. For authorities tell us that although man is the greatest traveler of all earth's creatures, he gets lost easily.

People lost in deserts, dense forests or blinding snowstorms tend to wander around in circles; the reason seems to be that the two sides of our bodies are unequal in weight and muscle strength.

Animals, on the other hand, have a wonderful sense of direction. Cats and dogs do not have to be taught to find their way home; well-trained seeing-eye dogs perform wonders in directional assistance for their blind masters.

Birds travel thousands of miles from their winter to their summer homes (the round trip of the Arctic tern totals about 20,000 miles!)—and don't get lost. Some even return to the same meadow or tree where they nested the year before. The Pacific salmon swims 2000 miles or more across the ocean to lay its eggs in the very stream in which it was born.

Wild creatures often show an equally uncanny knack for finding favorable environment. During periods of severe drought in equatorial Africa vast herds of grazing animals have migrated hundreds of miles to areas that have enjoyed rain. In contrast, several thousand intelligent humans visiting New York City a few months ago spent uncomfortable nights in the lobbies of crowded hotels, unaware that good accommodations were available just a few blocks away.

Lacking an effective sense of direction, man must turn to the written symbol to keep from getting lost. Good road maps are readily available and they have prevented uncounted travel disasters. Guides to environment are harder to come by. Traveling in wilderness areas calls for special skills. Humans have developed some ingenious ways of getting their bearings—how many of them do you know?



*Know how to find South with a watch?* One thing you can be sure of at any season: anywhere in the United States or Canada, the sun will always be in the south at noon. On any sunny day you can find south with your watch.

First, be sure your watch is set for standard, not daylight saving time. Put it down flat on the ground in the sun. Hold a match upright at the edge of the watch so it casts a shadow across the watch dial; then turn the watch so that the shadow lies exactly along the hour hand.

If you do this at high noon, the shadow line will, of course, point south, with south the direction toward the sun. In the morning and afternoon, south will lie halfway between the shadow line and 12:00. In the morning, use the left-hand side of the watch to find the halfway line. In the afternoon, use the right-hand side, reading the numerals backward.

*Know how to sight a star?* The North Star is a good guide for travelers—and was for thousands of years before the compass was invented. It is the last star in the Little Dipper's handle—and it is the only star that is always in the same place in the sky.

Once you have found it in the sky, you must "bring it down to earth" by sighting it. This you do by driving a long stake into the ground, then taking a shorter stick and getting down on the ground with it. Move this shorter stick around till you can sight across the tops of the two sticks as if you were aiming a gun at the North

Star. When the three points—the two sticks and the star—are in a line joining the two sticks, the line will run north-south, with the tall stick marking north.

*Know really in what direction a compass points?* Most people think it points to true north, the North Pole. This is untrue. Actually, the earth has two other poles, called magnetic poles. Magnetic north is in northern Canada; magnetic south is on the other side of the earth in Antarctica. Your compass needle always swings to magnetic north.

*Know the two compass errors to watch out for?* One is *declination* or *variation*: the difference between true north and magnetic north. Your compass will point straight north only if you happen to be on a line running roughly from Savannah, Ga. through Lake Superior. East of this line it points east of true north.

The other error is called *deviation*: the tendency of the compass needle to swing toward iron or steel objects. If you are depending on a compass, make sure there is no iron or steel near it; they would render it useless as a direction finder.

*Know how a river can help you get your bearings?* All rivers flow downstream, from higher to lower ground. We think of them as "facing" downstream. If you also face downstream, the right bank of the river will be on your right hand. When you read that a city is on the left bank of a river, imagine yourself facing downstream; the city would be on your left.



# Kitchens

## through the years

If you never seem to get out of the kitchen as fast as the lady in a famous television commercial, don't despair. After all, homemakers have been in the kitchen for some 10,000 years—ever since the Stone Age!

At Aichbuhl in Germany, New Stone Age farmers lived in rectangular wooden structures with only two rooms—but one of them was clearly a kitchen. This area, with its hearth and clay oven, was walled off from the main living room.

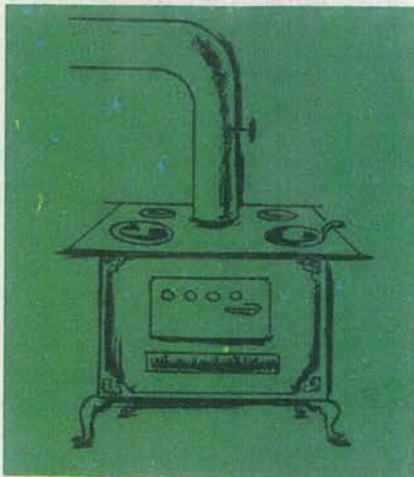
When the ancient Greeks later added a second story to their houses, the kitchen, oddly enough, was usually located on the second floor. The Greeks must have had a very enthusiastic word for good cuisine—for they valued copper cooking pots so highly that they bestowed them as prizes in Olympic games!

Roman kitchens, as revealed by excavations at Pompeii, were usually equipped with a large brazier on legs; it contained burning charcoal over which one basin could simmer. In wealthier homes, there was a "range" of brick or stone containing a number of holes, so that several dishes could be cooked at once.

In Northern Europe, early housewives cooked over a fire built on the floor in the center of the room. When they bent over a hot stove, it was to warm themselves, not the food—for stoves, in that period, were used to heat the house and not to cook the meals.

During the Middle Ages, some of the finest kitchens and best cooks were found in monasteries! The kitchens, located in separate buildings, were equipped for large-scale cooking, baking and brewing. There were low arched recesses in the walls where fires could be regulated more easily than was the case when they burned in the middle of the floor. Roasting was done on rotating spits which had dripping pans below, and cooking pots hung suspended on hooks over the fire.

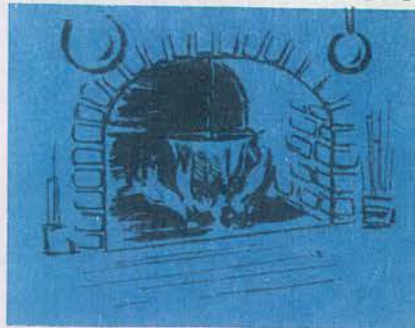
The early 16th century French kitchen made extensive use of wood, for the common people ate their meals from wooden plates, cups and bowls. The table at which they sat was often just a crude plank of wood on a trestle. But the rich had "great tables" of elaborately carved wood, frequently walnut. From the French word *banc*, for the bench on which the diners sat, we get our word "banquet."



An ingenious French contribution to a "banquet" was the pressure cooker—few people know that the first one was invented in 1680! In that year, the Frenchman Denis Papin exhibited a "new Digester or Engine for softening bones" to the Royal Society of London. Papin and the members of Society sat down to a meal cooked in his "Engine—the first pressure-cooked repast ever served."

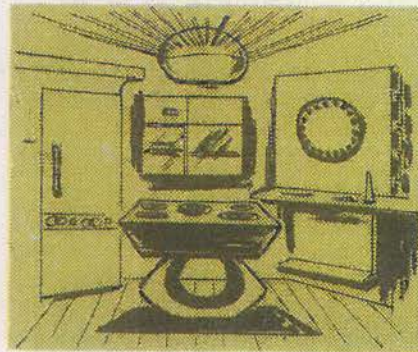
In colonial America, things were much more rugged. The kitchen fireplace was commonly used for cooking until about 1760, when the use of the stove became more prevalent. Chiefly responsible for this advance was Benjamin Franklin, who in 1743 invented the stove which bears his name. The Franklin stove was a kind of metal fireplace which could be set inside a regular open fireplace to save fuel and give off more heat.

By the 1800's, most American homes had a large kitchen, the most important room in the house. It served nearly every purpose from cooking, dining and sitting to laundry, bath and parlor. In the sod houses or log cabins that dotted the midwestern prairies at that time, the kitchen was at one end of the single room, with the opposite side reserved for sleeping.



The kitchen cabinet is such a standard feature that many people assume it has been in use for ages. Would it surprise you to learn that this was a 20th century improvement—like the electric toaster, dishwasher and garbage disposal unit? It was first used in the Middle West, as an adaptation of the German kitchen cupboard.

The kitchen of tomorrow is already on the way. Electric ovens that can cook entire meals in seconds by infrared heat . . . a combination refrigerator-beverage dispenser-ice maker . . . a movable range that can be wheeled from kitchen to patio are just a few of the already-designed appliances that may become standard kitchen equipment within a few years.



With the convenience of today's electric kitchens, many women may not even want to "get out of the kitchen—fast." Contemporary kitchens are pleasant places in which to linger—while designers and electric manufacturers keep cooking up new wonders that would have amazed those early housewives who thought they were being ultra-modern when they prepared meals over an open fire.

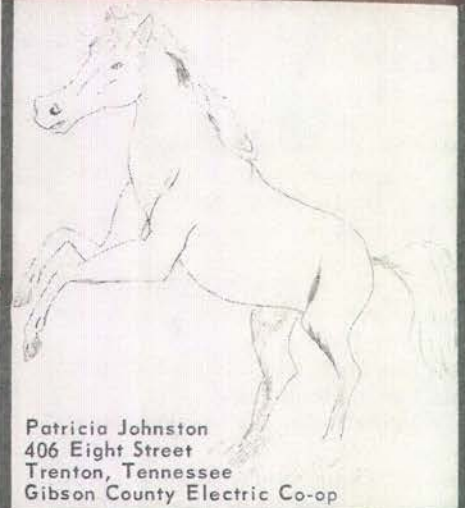
# Uncle John's Page

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

Send all items to:

UNCLE JOHN, The Tennessee Magazine  
710 Spence Lane, Nashville 10, Tenn.

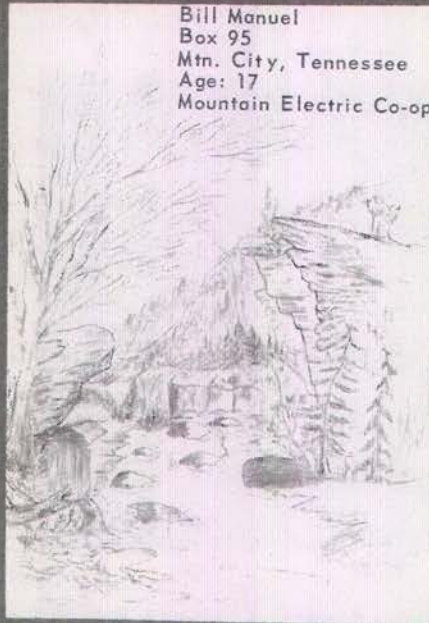
J. C. Greene  
Route #4  
Sneedville, Tennessee  
Age 13  
Powell Valley Electric Co-op



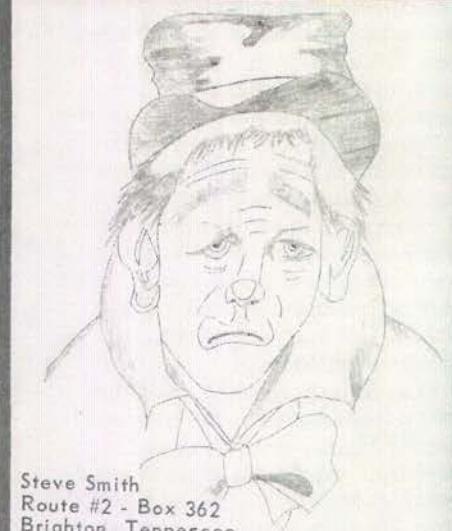
Eugene Goins  
Route 1- Box 26-A  
Pressmen's Home, Tenn.  
Holston Electric Co-op



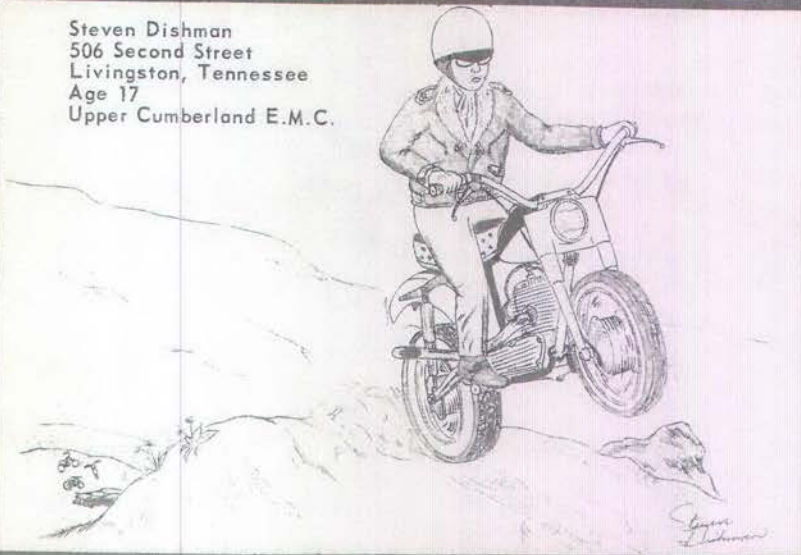
Bill Manuel  
Box 95  
Mtn. City, Tennessee  
Age: 17  
Mountain Electric Co-op



Patricia Johnston  
406 Eight Street  
Trenton, Tennessee  
Gibson County Electric Co-op

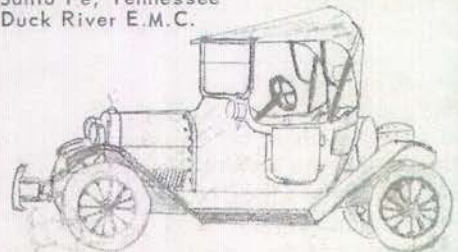


Steven Dishman  
506 Second Street  
Livingston, Tennessee  
Age 17  
Upper Cumberland E.M.C.



Steve Smith  
Route #2 - Box 362  
Brighton, Tennessee  
Age 14  
Southwest Tenn. Electric Co-op

Donald Baker  
Route #2  
Santa Fe, Tennessee  
Duck River E.M.C.



# Timely Topics

## COTTON PROGRAMS FOR LARGE, SMALL FARMS ARE OUTLINED

"Large farms" under the 1966 cotton program are those with cotton bases of more than 10 acres, informs Robert L. Carter, assistant agricultural economist with the University of Tennessee Agricultural Extension Service.

Tennessee farmers will be signing up for the new program from now until April 1. Farmers in the "large farm" group have the choices of reducing their effective farm allotment by 12½, 25 or 35 per cent.

"The price support payment rate will be 9.42 cents per pound," explains Carter. "This payment will be earned on the farm's domestic allotment, which is 65 per cent of the effective farm allotment. Total payment will be 9.42 cents per pound times the projected yield times the domestic allotment or the acreage planted if it is less than 90 per cent of the domestic allotment."

The diversion payment rate will be 10.5 cents per pound on the acreage taken out of production, he adds. This acreage will be put to conserving uses in addition to the average acreage in conserving uses on the farm in the base years 1959-60 or as adjusted.

The cotton production on participating farms will be eligible for price support loan on a national average rate of 21 cents per pound on Middling 1-inch cotton at average location.

"Small farms" under the 1966 cotton program are those with an allotment of not more than 10 acres or on which the projected production of the farm allotment is not more than 3,600 pounds and on which no acreage is released for reapportionment, explains Carter.

"No acreage reduction is basically required for these small farms to receive the basic benefits of the program," he points out. "They will be eligible for 9.42 cents per pound price support payment on the domestic allotment, which is 65 per cent of the farm allotment, although the entire allotment may be planted."

They are also eligible for the 10.5 cents per pound diversion payment on 35 per cent of the allotment although no acreage is diverted, he continues. In addition, they may elect to divert either 12 1/2, 25 or 35 per cent of the allotment and earn additional diversion payments. Participating growers will also be eligible for the price support loan of 21 cents per pound, based on Middling 1-inch cotton at average location.

County Extension agents have budgets which may be helpful to cotton farmers in deciding which choice to take, the 12 1/2, 25 or 35 per cent reduction. April 1 is the deadline for signing up for both groups.

## STATE FARMERS MAY HAVE SALES TAX REFUND DUE

Tennessee farmers may find they have sales tax refunds coming to them on new equipment and farm machinery purchased since July 1, 1965, according to Frank M. DeFriese, associate agricultural economist with the University of Tennessee Agricultural Extension Service.

"A single item of equipment costing more than \$250 is eligible for consideration," explains DeFriese. "Used machinery and equipment is not eligible; neither is equip-

ment used by nurserymen."

"To be eligible for the refund claim," he adds, "A farmer must be able to substantiate the fact that the machinery is used more than 50 per cent of the time on the farm described and is used to produce items of food or fiber for sale."

The amount of the refund is the difference between one per cent of the purchase price or the cash difference paid and the three per cent sales tax which was paid at the time of the purchase.

In order to be eligible for a refund, DeFriese points out, claims must be made within six months of the date of the invoice or date of delivery, whichever is earliest. The claim must be made on forms prepared by the Tennessee Department of Revenue. The forms must be notarized and a certified notarized copy of the bill of sale or invoice must accompany the application for refund.

Refund claims forms may be obtained from county Extension offices, local Farm Bureau offices, or directly from the Tennessee Department of Revenue in Nashville.

## HOW TO TAKE AN ACCURATE SOIL SAMPLE

For an accurate fertilizer and lime recommendation based on soil test results, the sample submitted to the University of Tennessee Soil Testing Laboratory must represent the true fertility conditions of the area sampled, according to Joseph N. Matthews, assistant agronomist with the U-T Agricultural Extension Service.

"A portion of the sample should be taken from 15 to 20 random locations to get the average conditions of the field," suggests Matthews, "Avoid unusual areas, such as wet spots, old manure or lime piles, eroded spots or other areas not truly representative of the field."

Take soil from each location, mix it together in a clean box or bucket and then take the sample from this mixture to send to the laboratory, he adds.

Soil sampling tubes or soil augers work well in taking a soil sample, he continues. However, the shovel is the most commonly used tool and a good job can be done with it. Dig a V-shaped hole about five inches deep, then take a narrow band of soil up one side of the hole and place it in your bucket. Do this at all locations sampled.

When sampling sod crops that have been topdressed with lime and fertilizer and you do not plan to work the soil, take the sample from only the top two or three inches of soil.

## FARM BRIEFS

Graze alfalfa fields before growth starts to help control the alfalfa weevil. The weevil eggs are laid in the alfalfa stems and grazing helps reduce the number of eggs.

★ ★ ★

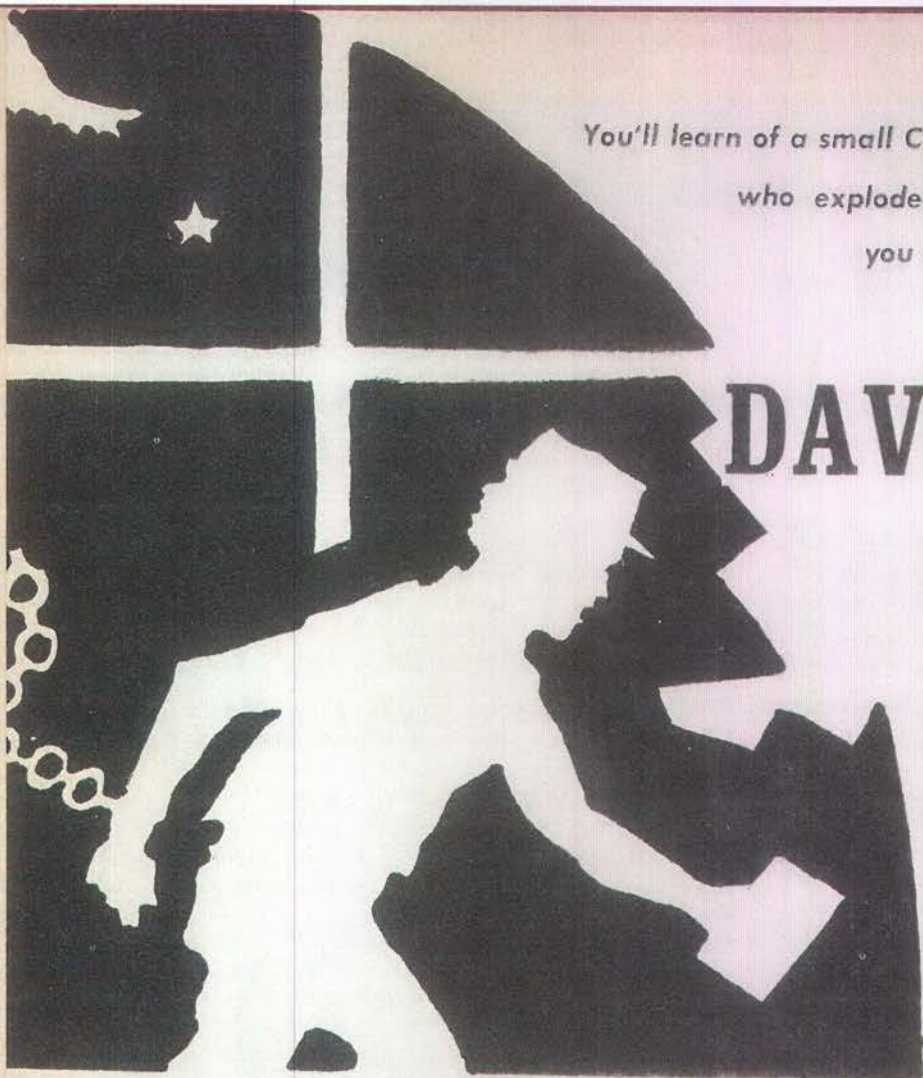
The value of crops produced by Tennessee farmers in 1965 amounted to over \$366 million.

★ ★ ★

The state average corn yield in Tennessee has been estimated at 53 bushels per acre.

★ ★ ★

The state average cotton yield in Tennessee has been estimated at 614 pounds per acre.



You'll learn of a small Confederate chaplain from Tennessee,  
who exploded into words and action, when  
you open the covers of . . .

# DAVENPORT'S DIARY

by Larry Arnett

"Are you a minister of the gospel?" The question came from one of two Chicago district Methodist ministers, and the Confederate Chaplain who was being held prisoner of war, answered calmly: "I am."

"Of what church?"

"The Methodist Church, South."

"Of what conference?"

"Memphis."

"Where were you stationed?"

"At Pontotoc, Mississippi."

"Were you in the fight at Donelson?"

"I was."

"Did you fight any?"

"I did."

"Did you take aim?"

"I did."

"Well, that is considered murder to take aim in battle, is it not? You should let God direct the ball."

"I do not know. I went out to kill."

The year was 1863, and the Civil War was going full blast. The scene was Camp Douglas, Illinois, and the man—an undersized version of the featherweight; but no frail person by any means—whose curt and abrupt

replies soon brought that briefest of interrogations to a shrieking halt, was Thomas Hopkins Davenport, clergyman and private soldier in the Army of the Confederate States. He was also a chronicler of his times, and the preceding dialogue (following which Davenport was imprisoned for seven months, before making his escape) has been taken verbatim from his private journal, written between the years 1861–1864, while he served as the Chaplain of the 3rd Tennessee Regiment of the Confederate Army. Nearly forgotten since his death in 1888, Davenport returned only recently to the circle of public interest when his witty and fascinating diary was presented, as requested in writing, to the manuscript division of the Tennessee Library and Archives, by his daughter, Mrs. Alan Leftwick Jemison, nee Lizzie Beall Davenport. Mrs. Jemison had unexpectedly received her father's lost diary in 1895 from Attorney Henry McLean, of Marion, Kansas, a son of Captain James K. McLean of the 3rd Illinois Cavalry, Davenport's last captor.

It was then learned by Mrs. Jemison that the diary—unintentionally left behind when Davenport made his last escape—had been found among the Chaplain's abandoned belongings by Captain McLean, who had kept the journal and sent it home, along with other personal effects.

Twenty years after the war had ended, McLean rediscovered Davenport's diary—where it had lain forgotten in the family garret—and as he read the journal with absorbing interest, his eyes chanced upon a passage written by Davenport more than a score of years earlier, which read: "If anything happens to me, please send this book to the lady I love." The passage did not include a name or address of the lady in question, however, and a search through the pages of the journal led to an unfruitful conclusion.

Captain McLean at once composed several notices, which were published in a number of southern papers, but there were no replies to his inquiries. Then in January of 1895, McLean's

son, who had enthusiastically participated in the search for the diary's author, decided he would renew the efforts at trying to locate either the Chaplain or the aforementioned "Lady" and so began to place ads in papers.

A friend of Mrs. Jemison noticed one of the ads and immediately sent word to the daughter of the deceased Chaplain. Mrs. Jemison, who in 1895 was a resident of Birmingham, Alabama, wrote Henry McLean, and shortly thereafter received the cherished diary from the Kansas attorney. The diary is even now in an excellent state of preservation and will later be transferred from the manuscript division of the State Library and Archives, to the Confederate Room of the nearby Tennessee Museum.

Almost all that can be learned of Thomas Hopkins Davenport today must necessarily be based upon what he had to say about himself in the contents of the journal. He seldom attempted to objectify his feelings in his writings or to interpret unprecedented situations theologically; he simply reported civil war matters factually. We do know that he behaved splendidly in captivity: he was captured six times and he escaped six times.

He was born in Pulaski, Tennessee in 1837. It was here that he was raised and educated and later became a minister of the Methodist Church. Shortly after assuming ministerial duties he volunteered to serve with the South in the War Between the States. Apparently, his decision to keep a record of his thoughts and experiences was reached immediately following his enlistment, as the diary begins with this important affirmation of the basis of Davenport's belief: "A dreadful war having sprung up between the North and South, the North having martialled their thousands to invade and lay waste our beautiful land, subjugate the people and rule with a rod of iron. After mature deliberation and much prayer, I felt it to be my duty to give my assistance to the country where I had been nurtured and where the bones of my ancestors reposed. I felt that I had no right to enjoy the blessing purchased by others . . . I could not enjoy the comforts of home while my brothers were toiling for me . . . I would be unworthy the mother who bore me and taught me lessons of honor and patriotism . . . unworthy the ancestors who fought and bled for liberty did I remain at

home . . . It cost me a severe struggle, I was young in the ministry, had but fairly started and I foresaw that my studies must be given up and perhaps the best of my life lost . . . I had a pleasant station, warm friends, these I must leave for the hardships of camp and field. I have always been small and weak (Davenport weighed 95 pounds at the time); could I endure the toil and exposure? Friends said, 'You cannot; it is useless to attempt it.' Duty said, 'Go and try it, if you cannot, come back.' I had ever been timid, when a child . . . afraid to meet strange children, could enjoy the society of the gentle. Consequently, it was a cross to become a soldier. Even to this day I give myself no credit for bravery, for in reality I am a coward. Nothing but a high regard of honor and the opinion of the world would make me a soldier . . . could I pass the corruptions of camp and return . . . unspoiled? With what anxiety I paced my office from dawn to dark. Everything seemed to have lost its charms. I could think of nothing but the war . . ."

In September of 1861, Davenport left Pulaski and journeyed to Bowling Green, Kentucky, where he was inducted into the 3rd Tennessee Infantry Regiment of the Confederate Army.

In the morning of the same day of his enlistment, ". . . there came an order for two hundred and fifty of the regiment . . . to prepare five days ration and be ready to march at a moments warning. Fifty were to go from Captain C. H. Walker's company. I had gone to join that company and asked to be permitted to be one of that number. He hesitated. I was pale . . . at length he consented and carried me to the surgeon (Dr. Stout). He examined me, said perhaps I would do. Colonel Brown was called, looked at me, said I was very delicate but perhaps would make a soldier . . . and gave me a gun, knapsack, haversack and canteen. Thus I was fully equipped for the war. My comrades all laughed at the idea of my going on a tramp . . . we marched eleven miles . . . the last three or four miles in the rain. I was very much weary but said nothing . . . at length, the command was given, 'Halt . . . unslung knapsacks and go to bed' in the rain, no tent . . . no supper . . . I never slept more soundly."

Then follows a record of the following days events, the first real indications of soldiering given the author:

"We had built our fires, and had commenced preparing supper when the alarm was given . . . in a few minutes the Colonel (Helm) came round, told us that we would in all probability be attacked before day by superior numbers, that we must sleep in line . . . gun by our side, all lights must be extinguished . . . thus passed my second night in camp."

The anticipated collision with Union troops was not consummated, however, and Davenport was presented with his first taste of field duty, which he records in his Diary: ". . . cooked several days rations. Here was my first experience in the culinary art in camp. It was an art. Cake about six inches in diameter and about one and a half (inches) thick, no salt or grease, and made of flour. In addition to all that, it was burnt black . . ."

"We camped by a field of corn in full roasting ear. We had marched all day without eating and the rations were far behind, so we charged the field and ate the last ear. The night was cold and we burnt all the rails, we also ate a potato patch . . ."

It is interesting to note that the minister, firmly resolved to serve the C. S. A. as would an impassioned career soldier, never speaks of his newfound hardships as an infantryman with the disdain and affected coolness of the unwilling; his seeming detachment, as reflected by his writings, resulted from genuine fatigue and not from uncaring disinterest: "All day we trudged . . . over hill and valley. Dark came and . . . we stopped . . . having walked over thirty miles."

What becomes apparent in reading the Diary is that the minister regarded himself with pride as a field soldier: "On this march a hundred broke down . . . but I went through to the astonishment of my comrades."

Davenport's capacity to bear physical hardship is essential to our understanding of the man, and yet his ability to poke fun at the herculean efforts of his comrades reveals even more to us about him than do his descriptive passages of the unit's collective exertions: "We worked a heap, drilled much and stood guard not little . . . there came orders to strike tents and be ready to move. It was mid-winter . . . so we packed up and went to Russellville, Kentucky. We remained there . . . long enough to build chimneys to our tents . . ."

(Next month:  
Captives and Escapes)

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Governor Frank G. Clement congratulates Conservation Commissioner Donald M. McSween, second from left, Tourist Division Director Earl L. Shaub, at the extreme left, and Leslie T. Hart, owner of the Les Hart Agency, Nashville, for a job well done, as he glances approvingly through one of the first copies of the state's new forty page full color tourist brochure, entitled, "Four Seasons of Fun in Tennessee". The brochure is scheduled for use in the Tennessee tourist promo-

tion program.

Production of the brochure was supervised by the Hart Agency, who teamed with the tourist division in preparation of the 133 color photo creative layout and copy, from conception to completion.

Interested Tennesseans may obtain free copies of the brochure by writing: Donald M. McSween, Commissioner, Department of Conservation, 2611 West End Avenue, Nashville.

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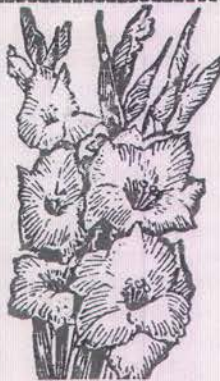
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# Volunteer Views

by J. C. Hundley  
Executive Manager, TRECA

Ask the proverbial man-on-the-street "What Is A Cooperative?" and chances are you will get about as many different answers as you have men-on-the-street. And chances are also good that you will get very few answers that are completely and fully accurate. The cooperative way of doing business—of people cooperating to provide themselves with needed goods and services at the lowest possible cost—was begun in America about 35 years after the United States declared its independence from England, yet this method of business conduct remains largely mis-understood—or not understood at all. It's something resembling a sad fact that a lot of Americans don't want to understand any business procedure whereby the seller doesn't extract a tidy profit from the buyer.

Cooperatives constitute one of the four principal ways of doing business in America. Each is just as legal, moral and legitimate as the other. The objective of any business generally determines which of the four routes will be taken.

## BORN OF NEED

To our way of thinking, cooperatives—especially the rural and farmer types—came and still come into being due to one or a combination of the following: (1) when needed goods and/or services are not available at all; (2) when needed goods and/or services are not available at a reasonable cost; (3) when needed goods and/or services are not available on a dependable basis and (4) when needed goods and/or services are not available on a consistently high-quality basis.

Beginning about 30 years ago and coming on up to the present, every rural electric co-op in the United States has come into existence and operation because of one or more—sometimes all—of these four criteria. And while rural electric co-ops were not intended to and do not confine themselves to electrical services to farmers, they adequately fulfill all the democratic principles which apply to the broad group of business organizations which fall into the broad classification of "farmer cooperatives".

A farmer cooperative is any business enterprise which is organized, owned and controlled by members who have joined together voluntarily to provide themselves with needed goods and services.

Cooperatives have long been a part of the American free enterprise system. They go back to Colonial days when neighbors helped each other clear land, build roads and harvest crops. About 1810, farmers in Goshen, Connecticut experimented with cooperative dairying and by 1867 more than 400 cooperatives were processing dairy products. Grain and livestock marketing co-ops and farm supply purchasing associations soon followed.

## PERFORM MANY TASKS

Today's cooperatives perform a massive array of tasks for their members. They market about one-fourth of U.S. farm prod-

ucts and help farmers obtain about one-fifth of their supplies. Co-ops provide a wide spectrum of services ranging from soil testing and spraying on the farm to irrigation and insurance. Electric co-ops have provided services vital to the operations of many other co-ops, and to the living and livelihoods of the individual farm and other rural and small town families.

Rural and farmer cooperatives are chartered under State laws and they operate under the same specific Federal and State business laws and regulations as other firms. Cooperatives do have three basic principles that distinguish them.

(1) They provide goods and services to members on a non-profit basis. Savings, or margins, above costs are returned to members in proportion to their use of the co-op by means of refunds, credits or rate reductions.

(2) Control of the cooperative is in the hands of its members. Most cooperatives, including electric co-ops, operate on a one member-one vote basis, regardless of the number of membership certificates or volume of goods and services used by an individual or couple.

(3) Federal and State laws are designed to keep ownership of cooperatives in the hands of their many users rather than let it move into the hands of a few investors primarily interested in profits. In other words co-ops, in concept and practice, are designed to be of service to many rather than for profit to a few.

## WIDESPREAD BENEFITS

While cooperatives are organized specifically to help their members, their benefits actually are widespread. They hire employees to work in their plants on their systems, thus providing additional jobs in the small towns and communities and more dollars to be spent there. Through their services and educational programs they help their members produce more goods and services at lower costs, which in turn reflects lower costs to ultimate consumers.

The taxes which cooperatives pay and the money they spend in purchasing supplies for members or equipment to use in serving members are as much a part of the national economy as the taxes and expenditures of any other business.

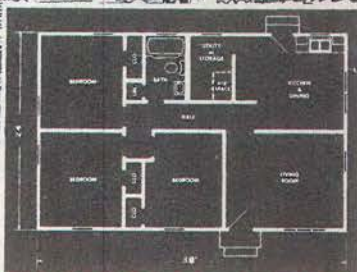
Some cooperatives, including the rural electrics, have availability of Federal loan funds which they repay on schedule and with interest. Generally, the additional Federal income taxes created and paid by cooperative members is far more important from the Government's financial point of view than is the amount of interest on the loans which made possible the increased personal income taxes.

Cooperatives have been called the "economic equalizers" for a large segment of our farm, rural and small town population. They are that, and more. Cooperatives are truly partners in American life. They are good for all Americans because all Americans benefit from them.

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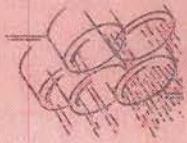
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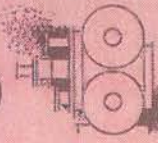


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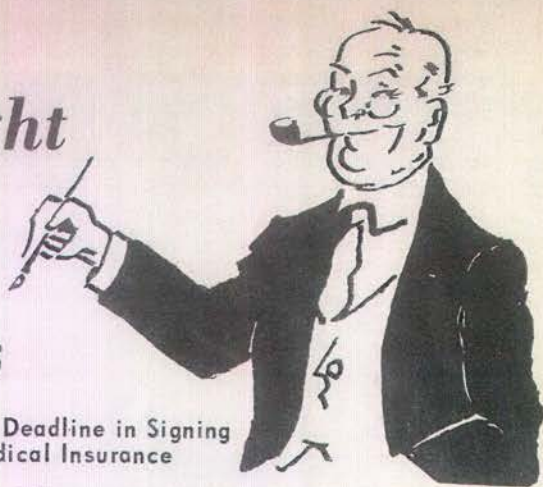
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## WLAC-TV Channel 5

NASHVILLE, TENNESSEE

# Rural Americans Sought to Register for New Medical Health Benefits



March 31 Is Deadline in Signing  
Up for Medical Insurance

An intensive search is underway in rural areas to reach Americans 65 or older who are eligible but may not be aware of the new Medicare benefits of the Social Security program.

The Social Security Administration has warned that Americans who were 65 or older on December 31, must sign up for the medical insurance plan by March 31 to be eligible for benefits when the full program goes into effect July 1.

The United States Department of Agriculture through its various agencies including REA has launched a broad-scaled effort in cooperation with the Social Security Administration to inform rural people of the far-reaching Medicare insurance plans.

The Medicare amendments signed into law by President Johnson last year as part of the Social Security Act, provide two types of protection for Americans 65 and older. These types are:

**HOSPITAL INSURANCE.** Nearly all persons 65 and older are eligible. This insurance is automatic for all Social Security and Railroad Retirement beneficiaries. Those who have not worked under Social Security or Railroad Retirement must register with their Social Security offices. This insurance is designed to help pay most of the cost of hospitalization, skilled nursing home care and other services in an extended care facility after hospitalization, out-patient hospital diagnostic services, and home health services. The cost for hospital insurance is being financed by an increase as of January 1, 1966, in the Social Security payments of people still working, with matching contributions from employers.

**MEDICAL INSURANCE.** This insurance is voluntary—you do not have to sign up for it if you don't want

to. It will help pay most of the bills for doctors' services in hospital, home, or office, and for a number of other medical items and services not covered under the hospital insurance program. People eligible will pay \$3 a month—half the estimated cost of this protection. The other half of this cost will be paid by the Federal Government. For persons under Social Security, Railroad, or Civil Service retirement plans, the \$3 will be deducted from their retirement checks each month.

The Department of Agriculture in cooperating with the Social Security Administration to spread the word about this new program, makes two points, both major:

1. While **hospital insurance** is automatic and offered at no additional cost, those who were 65 or older on December 31, 1965, must sign up for **medical insurance** by March 31, 1966, to be eligible for the medical insurance benefits beginning July 1. If those eligible delay signing up past the March 31 date, it will be necessary that they wait as long as 2 years for another chance to enroll and at a higher premium. You must make your own decision as to whether you want the medical insurance.
2. It is emphasized that both the hospital and medical insurance plans are available to just about all Americans regardless of whether they are eligible for Social Security, Railroad, or Civil Service retirement benefits, or other public or private old age retirement benefits. In the months ahead, this publication and the Social Security Administration, directly, will be supplying you with detailed information on the full benefits available under these two plans. Meanwhile, since the new plans do not become effective until July, rural families have been urged

by the Social Security Administration to retain any private health insurance at least until then. Rural people may find it advantageous to have both their private as well as the public insurance coverage.

Most health insurance companies are now redesigning their coverage to supplement benefits which will be available through the two insurance programs offered under Medicare. The Social Security Administration suggests that you contact your private insurance agent to discuss future coverage for yourself or members of the family. By retaining their present coverage as a supplement to the Medicare plans, participants will be able to best judge what they want in the way of future protection.

Every effort is being made to acquaint rural people with information of the two types of health protection under Medicare. Through direct mailings, people 65 and older on the Social Security, Railroad, and Federal Civil Service rolls are being contacted. It is anticipated that more than 17 million of the 19 million older people who will be eligible for Medicare benefits will have been advised of the plans prior to their effective date.

Another 1 million—those receiving old age assistance—are being contacted by their local welfare agencies.

But around 3 per cent of the 19 million eligible, some 600,000 people, cannot be reached through these means. Many of these people live alone, in other people's homes, or in homes for the aged. Many are not tuned in to the ordinary channels of communication; they must rely on others to help them and to take the initiative in seeing that they are signed up through their Social Security offices. Others may get the information about enrollment but may be unable to read and understand it because of advanced age, failing eyesight, or lack of education.

This is where consumers on rural electric systems can help. The Department of Agriculture urges that these consumers make it their business to inquire of elderly people whether they have signed up for these new benefits. If they haven't, consumers are urged to help them to get in touch with the Social Security district manager. His address and telephone number are in the telephone book under Social Security Administration. Or you

might get in touch with your post office, your county agricultural agent or home agent, or contact *The Tennessee Magazine* if no telephone directory is available.

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Sycamore, 3 to 4 ft. .49 ea.					
Sugar Maple, Collected, 3 to 5 ft. .49 ea.					
Sweet Gum, Collected, 2 to 3 ft. .49 ea.					
White Birch, 2 to 3 ft. .49 ea.					
White Birch, 4 to 6 ft. 1.98 ea.					
Crimson King Maple (Pat. No. 735), 3 1/2 to 5 ft. 3.49 ea.					
Tulip Tree, Collected, 3 to 5 ft. .49 ea.					
Sunburst Locust (Pat. No. 1313), 4 1/2 to 6 ft. 4.95 ea.					
Schwedder Maple, 3 1/2 to 5 ft. 2.95 ea.					
Cutleaf Weeping Birch, 3 1/2 to 5 ft. 2.98 ea.					
Silver Variegated Maple, 3 1/2 to 5 ft. 2.98 ea.					
Kentucky Coffee Tree, 1/2 to 1 ft. .69 ea.					
American Linden Tree, 3 to 4 ft. .98 ea.					
Skyline Locust (Pat. No. 1619), 4 1/2 to 6 ft. 4.98 ea.					
Sassafras, Collected, 2 to 3 ft. .49 ea.					
Scarlet Maple, Collected, 4 to 5 ft. .98 ea.					
Yellow Wood, 3 to 4 ft. .98 ea.					
Willow Oak or White Oak, Col. 2 to 3 ft. .69 ea.					
Russian Mulberry, 2 to 3 ft. .49 ea.					
China Berry, 2 to 3 ft. .49 ea.					
Sycamore Maple, Purple Leaves, 1/2 to 1 ft. .49 ea.					
Black Gum, Collected, 2 to 3 ft. .69 ea.					
American Elm, Collected, 3 to 4 ft. .29 ea.					
Japanese Red Leaf Maple, 1 ft. 1.98 ea.					
<b>FRUIT TREES — 1 or 2 years Old</b>					
Belle of Georgia Peach, 2 to 3 ft. .49 ea.					
Belle of Georgia Peach, 3 to 5 ft. .79 ea.					
Elberta Peach, 2 to 3 ft. .49 ea. 3 to 5 ft. .79 ea.					
J. H. Hale Peach, 2 to 3 ft. .49 ea. 3 to 5 ft. .79 ea.					
Hale Haven Peach, 2 to 3 ft. .49 ea.					
3 to 5 ft. .79 ea.					
Dixie Red Peach, 2 to 3 ft. .49 ea. 3 to 5 ft. .79 ea.					
Golden Jubilee Peach, 2 to 3 ft. .49 ea.					
Golden Jubilee Peach, 3 to 5 ft. .79 ea.					
Champion Peach, 2 to 3 ft. .49 ea. 3 to 5 ft. .79 ea.					
Stayman Winesap Apple, 2 to 3 ft. .59 ea.					
Stayman Winesap Apple, 4 to 6 ft. .98 ea.					
Red Delicious Apple, 2 to 3 ft. .59 ea.					
Red Delicious Apple, 4 to 6 ft. .98 ea.					
Yellow Delicious Apple, 2 to 3 ft. .59 ea.					
Yellow Delicious Apple, 4 to 6 ft. .98 ea.					
Early Harvest Apple, 2 to 3 ft. .59 ea.					
Early Harvest Apple, 4 to 6 ft. .98 ea.					
Red Rome Beauty Apple, 2 to 3 ft. .59 ea.					
Red Rome Beauty Apple, 4 to 6 ft. .98 ea.					
Red Jonathan Apple, 2 to 3 ft. .59 ea.					
Red Jonathan Apple, 4 to 6 ft. .98 ea.					
Lodi Apple, 2 to 3 ft. .59 ea. 4 to 6 ft. .98 ea.					
Montmorency Cherry, 2 to 3 ft. .98 ea.					
Montmorency Cherry, 4 to 5 ft. 1.98 ea.					
Black Tartarian Cherry, 2 to 3 ft. .98 ea.					
Kieffer Pear, 2 to 3 ft. .98 ea.					
Orient Pear, 2 to 3 ft. .98 ea.					
Bartlett Pear, 2 to 3 ft. .98 ea.					
Apricots—Moorpart or Early Golden, 2 to 3 ft. .69 ea.					
5-N-1 Apple—5 varieties on each tree, 3 to 4 ft. 2.98 ea.					
Nectarine, 2 1/2 to 4 ft. .79 ea.					
Damson Plum, 2 1/2 to 4 ft. .69 ea.					
Red June Plum, 2 1/2 to 4 ft. .79 ea.					
Methley Plum, 2 ft. .49 ea. 3 1/2 to 5 ft. .79 ea.					
Burbank Plum, 2 ft. .49 ea. 3 1/2 to 5 ft. .79 ea.					
<b>DWARF FRUIT TREES — 1 or 2 years Old</b>					
Dwarf Elberta Peach, 2 to 3 ft. 1.98 ea.					
Dwarf Red Haven Peach, 2 to 3 ft. 1.98 ea.					
Dwarf Belle of Georgia Peach, 2 to 3 ft. 1.98 ea.					
Dwarf Golden Jubilee Peach, 2 to 3 ft. 1.98 ea.					
Dwarf Red Delicious Apple, 2 to 3 ft. 1.98 ea.					
Dwarf Yellow Delicious Apple, 2 to 3 ft. 1.98 ea.					
Dwarf Winesap Apple, 2 to 3 ft. 1.98 ea.					
Dwarf Montmorency Cherry, 2 to 3 ft. 2.49 ea.					
Dwarf North Star Cherry, 2 to 3 ft. 2.49 ea.					
Dwarf Bartlett Pear, 2 to 3 ft. 2.49 ea.					
Dwarf Kieffer Pear, 2 to 3 ft. 2.49 ea.					
Dwarf Plum—Blue, 2 to 3 ft. 1.98 ea.					
<b>VINES — 1 or 2 years Old</b>					
Red Scarlet Honeysuckle, 1 ft. .29 ea.					
Wisteria, Purple, 1/2 to 1 ft. .29 ea.					
Bitter Sweet, 1 ft. .19 ea.					
<b>NUT TREES — 1 or 2 years Old</b>					
Hazel Nut, 1 to 2 ft. .69 ea.					
Butter Nut, 1 to 2 ft. .39 ea. 3 to 4 ft. .98 ea.					
Chinese Chestnut, 1 to 2 ft. .69 ea.					
3 to 5 ft. 1.69 ea.					
Hardy Pecan Seedlings, 1 to 2 ft. .89 ea.					
Stuart Pecans, Paper Shell, 3 1/2 to 5 ft. 3.98 ea.					
Black Walnut, 1 to 2 ft. .39 ea.					
English Walnut, 2 to 3 ft. 2.49 ea.					
Shell Bark Hickory, 1 to 2 ft. .69 ea.					
American Beech, Collected, 3 to 4 ft. .49 ea.					
<b>EVERGREENS — 1 or 2 years Old</b>					
Glossy Abelia, 1/2 to 1 ft. .29 ea.					
American Holly, Collected, 1/2 to 1 ft. .29 ea.					
Rhododendron, Collected, 1/2 to 1 ft. .49 ea.					
Pfitzer Juniper, 1/2 to 1 ft. low spreading. .59 ea.					
Cherry Laurel, 1/2 to 1 ft. .29 ea.					
Nandina, 1/2 to 1 ft. .49 ea.					
Boxwood, 1/2 ft. .25 ea.					
Irish Juniper, or Savin Juniper, 1/2 to 1 ft. .59 ea.					
Red Berry Pyracantha, 1/2 to 1 ft. .49 ea.					
Burford Holly, 1/2 to 1 ft. .49 ea.					
Wax Leaf Ligustrum . . . . .39 ea.					
Colorado Blue Spruce, 1/2 to 1 ft. .29 ea.					
Mountain Laurel, Collected, 1/2 to 1 ft. .19 ea.					
Canada-Hemlock, Collected, 1/2 to 1 ft. .15 ea.					
Short Leaf Pine, Collected, 1 ft. .19 ea.					
Christmas Ferns, Collected . . . . .19 ea.					
Red Cedar, Collected, 1/2 to 1 ft. .15 ea.					
Hetzli Holly, 1/2 ft. .49 ea.					
Japanese Holly, 1/2 ft. .49 ea.					
Foster Holly, 1/2 to 1 ft. .49 ea.					
Yellow Berry Pyracantha, 1/2 to 1 ft. .49 ea.					
Andorra Juniper, 1/2 ft. .49 ea.					
Cedrus Deodara, 1/2 to 1 ft. .59 ea.					
Japanese Yew, Taxus Spreading, 1/2 to 1 ft. .79 ea.					
East Palatka Holly, 1/2 to 1 ft. .49 ea.					
Baker Arborvitae, 1/2 to 1 ft. .59 ea.					
Berkman's Arborvitae, 1/2 to 1 ft. .59 ea.					
Globe Arborvitae, 1/2 ft. .59 ea.					
Greek Juniper, 1/2 to 1 ft. .59 ea.					
Gardenia, White Blooms, 1/2 to 1 ft. .49 ea.					
Camellia Sasanqua, 1/2 to 1 ft. .69 ea.					
Norway Spruce, 1/2 to 1 ft. .19 ea.					
Euonymus Radicans, 1/2 to 1 ft. .49 ea.					
Chinese Holly, 1/2 to 1 ft. .49 ea.					
White Pine, 1 ft. .29 ea.					
Austrian Pine, 1/2 to 1 ft. .19 ea.					
Mugho Pine, 1/2 ft. .39 ea.					
<b>BERRY PLANTS, ETC. — 1 or 2 years Old</b>					
Black Raspberry, 1/2 to 1 ft. .29 ea.					
Red Everbearing Raspberry, 1/2 to 1 ft. .29 ea.					
Dewberry, 1/2 to 1 ft. .15 ea.					
Figs, 1 to 2 ft. .98 ea.					
Boysenberry, 1/2 to 1 ft. .39 ea.					
<b>BULBS, PERENNIALS — 1 or 2 years Old</b>					
Pampas Grass, White Plumes . . . . .35 ea.					
Hibiscus, Mallow Marvel . . . . .09 ea.					
Hollyhocks, Mixed Colors, Roots . . . . .19 ea.					
Cannas, Colors, Red, Pink, or Yellow . . . . .19 ea.					
Iris, Blue, Roots Collected . . . . .09 ea.					
Day Lilies, Roots Orange Flowers, Collected . . . . .19 ea.					
Creeping Phlox, Pink or Blue . . . . .19 ea.					
Blue Bells, Roots Collected . . . . .19 ea.					
Maiden Hair Fern, Roots Collected . . . . .29 ea.					
Fancy Leaf Caladium, Red or White . . . . .05 ea.					
Gladiolus, Pink, Red, White . . . . .05 ea.					
<b>BERRIES, FRUITS AND HEDGE PLANTS — 1 or 2 years Old</b>					
10 Rhubarb, 1 Yr. Roots . . . . .1.00					
10 Asparagus, 1 Yr. Roots . . . . .1.00					
50 Strawberry—Blakemore or Tenn. Beauty . . . . .2.49					
50 Gem Everbearing Strawberry . . . . .1.98					
100 South Privet, 1 to 2 ft. .1.98					
25 North Privet, 1 to 2 ft. .1.98					
25 California Privet, 1 to 2 ft. .1.98					
25 Multiflora Rose, 1 to 2 ft. .1.49					

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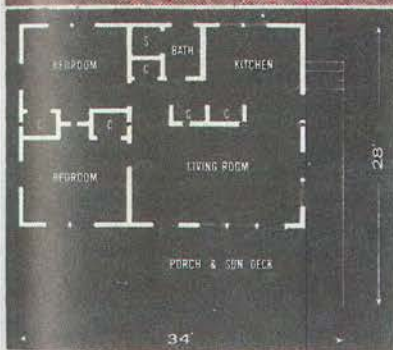
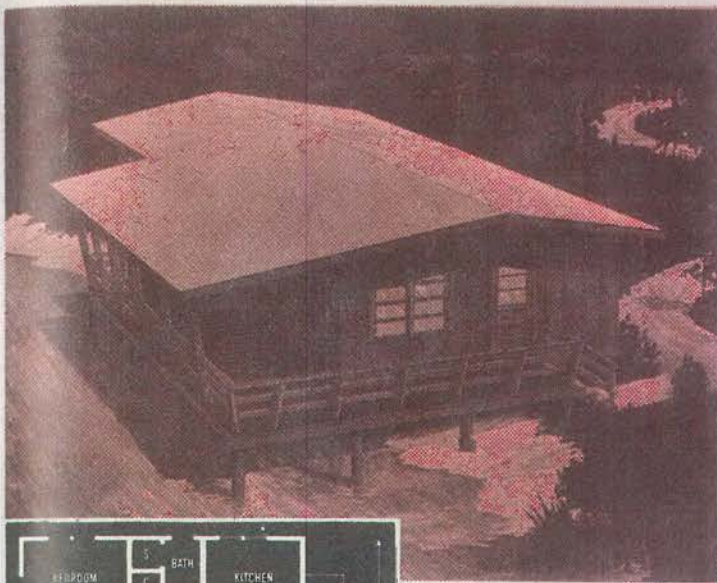
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| Ami Quinard         | Luxemburg        | Contra             |
| Charlotte Armstrong |                  | Edith N. Perkins   |
| <b>PINKS</b>        | <b>CLIMBERS</b>  | <b>WHITES</b>      |
| Editor McFarland    | Ci. Blue Red     | K. A. Victoria     |
| Pink Radiance       | Ci. Talisman     | Caledonia          |
| The Doctor          | Ci. Poinsettia   | F. K. Drouai       |
| Briarcliff          | Ci. Red Talisman | K. Louise          |
| Columbia            | Ci. Golden Charm |                    |
| Picture             |                  |                    |



## BULBS & PERENNIALS

<b>CANNAS:</b> colors, red, pink, yellow	EACH 5 for	\$1.39
<b>PEONIES:</b> red, pink, white	19	2.89
<b>IRIS:</b> blue, white, purple, yellow	.09	.39
<b>SHASTA DAISY:</b> root divisions	.19	.99
<b>RED CARNATION:</b> red	.25	1.19
<b>ORIENTAL POPPY:</b> scarlet	.25	1.19
<b>HOLLYHOCKS:</b> mixed colors, roots	.25	1.19
<b>CREeping PHLOX:</b> pink, blue, white	.20	.95
<b>GLADIOLA:</b> red, pink, yellow	.08	.39
<b>HIBISCUS:</b> giant blooms	.09	.39
<b>PAMPAS GRASS:</b> white plumes	.39	1.89
<b>*VIOLETS:</b> hardy, blue	.19	.90
<b>*CHRISTMAS FERNS:</b> for outdoors	.19	.90
<b>TRITOMA:</b> red hot poker	.19	.90
<b>HARDY ASTERS:</b> red, pink, blue	.19	.90
<b>CUSHION BUMS:</b> rd, yellow, pink	.19	.90

(All PERENNIALS and BULBS are 1 yr. or older)



## SHADE TREES

<b>SWEET GUM:</b> 1 to 2 ft. tall	EACH 3 for	\$1.39
<b>SILVER MAPLE:</b> 1 to 2 ft.	.19	.55
<b>SILVER MAPLE:</b> 3 1/2 to 7 ft.	.70	2.29
<b>PIN OAK:</b> 1 to 2 ft.	.49	1.39
<b>*TREE OF HEAVEN:</b> 3 1/2 to 5 ft.	.59	1.69
<b>SYCAMORE:</b> 1 to 2 ft.	.49	1.39
<b>LIVE OAK:</b> 1 to 2 ft.	.49	1.39
<b>WEeping WILLOW:</b> 4 1/2 to 6 ft. tall	.60	1.98
<b>SCARLET MAPLE:</b> 3 1/2 to 5 ft. tall	.70	2.10
<b>WHITE BIRCH:</b> 2 to 3 ft.	.60	1.98
<b>RUSSIAN MULBERRY:</b> 1 to 2 ft. tall	.10	.53
<b>CHINESE ELM:</b> 2 1/2 to 4 ft. tall	.19	.53
<b>CHINESE ELM:</b> 5 1/2 to 7 ft. tall	.70	2.20
<b>ARIZONA ASH:</b> 2 1/2 to 4 ft. tall	.45	1.30
<b>GINGO TREE:</b> 1 to 2 ft. tall	.59	1.69
<b>LOMBARDY POPLAR:</b> 3 1/2 to 5 ft. tall	.39	1.09
<b>LOMBARDY POPLAR:</b> 5 1/2 to 7 ft. tall	.70	2.20

(All above trees are 1 to 2 yrs. old)



## FRUIT TREES

<b>PEACHES:</b> Varieties: Elberta, J. H. Hale, Red Haven, Golden Jubilee, Belle Georgia, Hale Maiden, Dixie Red. Prices on Peach: 1/2 to 1 ft.—29¢ ea.; 1 to 2 ft.—39¢ ea.; 2 to 3 ft.—49¢ ea.; 3 1/2 to 5 ft.—89¢ ea.	EACH 3 for	\$1.39
<b>PLUM TREES:</b> Varieties: Burbank, Mariana, American Golden. Prices: 1/2 to 1 ft.—39¢ ea.; 1 to 2 ft.—49¢ ea.; 2 to 3 ft.—79¢ ea.; 3 1/2 to 5 ft.—98¢ ea.		
<b>APPLE TREES:</b> Varieties: Red Delicious, Red Stayman, Early Harvest, Yellow Delicious. Prices: 1 to 2 ft.—49¢ ea.; 2 to 3 ft.—59¢ ea.; 3 1/2 to 5 ft.—98¢ ea.		
<b>PEAR TREES:</b> Varieties: Keffler, Bartlett. Prices on Pear: 2 to 3 ft.—88¢ ea.; 3 1/2 to 5 ft.—\$1.29 ea.		
<b>APRICOT TREES:</b> Varieties: Early Golden, Moorpark. Prices: 2 to 3 ft.—79¢ ea.; 3 1/2 to 5 ft.—\$1.39 ea.		
<b>CHERRY TREES:</b> Montmorency. Prices: 2 to 3 ft.—98¢ ea.; 3 to 4 ft.—\$1.49 ea.		
<b>HARDY PECAN:</b> 1/2 to 1 ft.—98¢ ea.; 1 to 2 ft.—\$1.29 ea.		

(All above TREES 1 or 2 yrs. old)



## EVERGREENS

<b>MAGNOLIA:</b> 1/2 to 1 ft.	EACH 3 for	\$1.60
<b>JAP. LIGUSTRUM:</b> 1 to 2 ft.	.30	1.00
<b>ABELIA:</b> glossy leaves, 1/2 to 1 ft.	.39	1.09
<b>GARDENIA:</b> white blooms, 1 to 1 1/2 ft.	.59	1.69
<b>PFTZER JUNIPER:</b> low spreading, 3 ft.	.89	2.59
<b>*MOUNTAIN LAUREL:</b> 1 ft.	.38	1.09
<b>WAX LEAF LIGUSTRUM:</b> 1 to 1 1/2 ft.	.59	1.69
<b>*RHODODENDRON:</b> 1/2 to 1 ft.	.65	1.98
<b>COLORADO BLUE SPRUCE:</b> 1/2 to 1 ft.	.65	1.65
<b>NANDINAS:</b> ferny red ones, 1 ft.	.59	1.69
<b>RED BERRY PYRACANTHA:</b> 1/2 to 1 ft.	.80	2.49
<b>BOXWOOD:</b> dwarf, 1 yr., 1/2 to 1 ft.	.49	1.39
<b>CAMELLIA SASANQUA:</b> 1 ft.	.89	2.59
<b>BURFORD HOLLY:</b> 1/2 to 1 ft.	.60	1.98
<b>*CANADA HEMLOCK:</b> 1 to 1 1/2 ft.	.40	.79
<b>MUGHO PINE:</b> 1/2 ft.	.40	1.20
<b>BLACK HILLS SPRUCE:</b> 1/2 to 1 ft.	.58	1.68
<b>WHITE SPRUCE:</b> 1/2 to 1 ft.	.59	1.69
<b>CHINESE FIR:</b> 1 ft.	.80	2.59
<b>HETZ JUNIPER:</b> spreading, 1/2 to 1 ft.	.89	2.59
<b>IRISH JUNIPER:</b> growing tall, 1/2 to 1 ft.	.79	2.29

## FLOWERING TREES

<b>RED BUCKEYE:</b> 1/2 to 1 ft.	EACH 3 for	\$1.39
<b>PINK FL. CHERRY:</b> 2 to 4 ft.	2.79	7.95
<b>FLOWERING PEACH:</b> popper, mint stick, 2 1/2 to 4 ft.	.98	2.79
<b>ALL RED PLUM:</b> 2 1/2 to 4 ft.	.79	2.29
<b>MIMOSA:</b> 2 1/2 to 4 ft.	.39	1.09
<b>MIMOSA:</b> 4 1/2 to 6 ft.	.79	2.29
<b>*RED BUD:</b> 5 1/2 to 7 ft.	.89	2.59
<b>*WHITE, FL. DOGWOOD:</b> 2 1/2 to 4 ft.	.39	1.09
<b>RED FL. PEACH:</b> 2 1/2 to 4 ft.	.89	2.59
<b>PINK FL. DOGWOOD:</b> 1 1/2 ft.	1.98	5.75
<b>PURPLE LEAF PLUM:</b> 2 1/2 to 4 ft.	.89	2.59
<b>RED LEAF PLUM:</b> 2 1/2 to 4 ft.	.69	1.98
<b>*TULIP TREE:</b> 3 1/2 to 5 ft.	.69	1.98
<b>GOLDEN RAIN TREE:</b> 1 1/2 ft.	.79	2.29
<b>PURPLE LEAF PLUM:</b> 1 to 2 ft. tall	.89	2.59
<b>GOLDEN CHAIN TREE:</b> 1 1/2 ft.	.69	1.98
<b>CHINESE RED BUD:</b> 1 1/2 ft.	.59	1.69
<b>MAGNOLIA SOULANGEANA:</b> 1 1/2 ft.	1.69	4.79

(All above trees are 1 or 2 yrs. old)

## DWARF FRUIT TREES

**DWARF PEACH:** Varieties: Elberta, Hale Haven, Red Haven, Dixie Red, Golden Jubilee. Prices: 2 to 3 1/2 ft. \$1.98 ea.

**DWARF APPLE:** Varieties: Red Delicious, Red Stayman, Yellow Delicious. Prices: 2 to 3 1/2 ft. \$1.98 ea.

**DWARF PEAR:** Varieties: Bartlett, Clapp's Favorite. Prices: 2 to 3 1/2 ft. \$2.98 ea.

**DWARF CHERRY:** Varieties: New North Star, Montmorency. Prices: 2 to 3 1/2 ft. \$3.49 ea.

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## IRIS SALE 20 FOR \$1.00

Special offer of 20 beautiful Iris for only \$1.00. You will be thrilled by their beauty. They come to you in an outstanding selection of colors. These planting stock Iris are root divisions, fresh, healthy, and inspected by the State Department of Agriculture. You receive 20 Iris for only \$1.00.

## CANNAS 10 FOR \$1.59

**DWARF CANNAS** come back year after year and grow to a height of about 30 inches. They produce large heads of majestic flowers. Colors: red, pink, yellow. Prices: 10 for \$1.59; 25 for \$3.49; 100 for \$12.98. Specify color.

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**EVERY PLANT** is nursery grown from seeds, cuttings, or budded stock. They are never transplanted, except those marked with (\*) asterisk, which means those are collected from the wild state. All plants are inspected by a State Department of Agriculture. Every plant is state inspected and packed to arrive in top shape. Plants are shipped Direct from the farm to you with expert planting advice accompanying each order.

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50 SOUTH PRIVET EVERGREEN HEDGE for \$1.19  
100 SOUTH PRIVET EVERGREEN HEDGE for 1.98  
25 MULTIFLORA FENCE ROSES for 2.49  
25 LOMBARDY POPLAR FOR HEDGE for 2.79

(All HEDGE 1 to 2 ft. tall, 1 or 2 yrs. old)

## FLOWERING SHRUBS

<b>*PINK SPIREA:</b> pink	AS LOW AS 9¢ EACH	\$1.41
<b>CYDONIA JAPONICA:</b> red flowers	.09	1.80
<b>*SNOWBALL:</b> huge, white flowers	.39	1.80
<b>*PINK AZALEA:</b> pink	.29	1.80
<b>FLOWERING CRAB:</b> red or pink	.65	4.20
<b>COMMON PURPLE LILAC:</b> purple	.38	1.80
<b>RED WEIGELA:</b> deep red	.28	1.39
<b>FORSYTHIA:</b> yellow	.19	.90
<b>DEUTZIA:</b> snow white	.16	.80
<b>MOCK ORANGE:</b> white	.19	.80
<b>ALTHEA DOUBLE:</b> red, pink, white	.19	.80
<b>PUSSY WILLOW:</b> bears catkins	.38	1.39
<b>RED BUSH HONEYSUCKLE:</b> red	.60	4.1
<b>ALTHEA ROSE OF SHARON:</b> mixed	.60	4.1
<b>PINK WEIGELA:</b> pure pink	.19	.80
<b>CRAPE MYRTLE:</b> red or pink	.80	2.69
<b>HYDRANGEA, P. O.:</b> pinkish white	.69	3.38
<b>SPIREA VAN-HOUTTEI:</b> white flowers	.28	1.39
<b>RED OZIER DOGWOOD:</b> red bark	.19	.80
<b>PERSEAN LILAC:</b> old favorite ornamental	.65	2.39
<b>WISTERIA VINE:</b> purple flowers	.65	2.39
<b>PINK BUSH HONEYSUCKLE:</b> pink	.29	1.38
<b>FLOWERING ALMOND:</b> pink buds	.89	3.29
<b>RED SNOWBERRY:</b> red berries	.79	1.39
<b>SMOKE TREE:</b> 1 to 2 ft.	.79	2.39
<b>RED BARBERRY:</b> 1 to 2 ft.	.69	2.39
<b>BUTTERFLY BUSH:</b> red	.89	3.29

(Above SHRUBS 1 to 2 ft. tall, 1 or 2 yrs. old)