

January, 1971

Tennessee

MAGAZINE

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Tennessee's New Governor,
Winfield Dunn
Story on Page 10

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Volunteer Views

by J. C. Hundley

Executive Manager, TECA

Many people think of cooperatives and farmers as being virtually one and the same thing.

True, many cooperatives ARE farmer cooperatives and, along with electricity, have served more than any one or any several things that we can name to keep 11-million farmers at work on the 3-million farms still remaining in our nation. Without the capacity of each to feed and clothe himself and some 42 other persons, not only our nation but much of our entire earth would be in serious straits.

But cooperatives are by no means confined to farmers.

Most mutual insurance companies — whether they be life, accident or fire — are operated as cooperative businesses.

If you drank orange juice for breakfast, it may well have come from one of our larger citrus cooperatives.

The New York Stock Exchange, the inner sanctum and nerve center of American capitalism, is a cooperative operation.

Some newspapers which editorially blast cooperatives subscribe to the services of one — The Associated Press.

The list could go on and on.

Almost all cooperatives pay all the taxes that any other businesses pay — except income taxes — and these are not paid because cooperatives are purposely organized on a non-profit basis. All are owned by those they serve and every co-op owner has an equal vote in the business affairs of his cooperative.

Cooperatives in the United States employ 200,000 persons with a total payroll of more than \$1-billion. Big business? Yes. But more important, cooperatives, such as your rural electric co-ops, exist to provide services and goods, which might not otherwise be available, at the lowest possible cost and in maximum quality and quantity to assure all members the highest possible standard of living.

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J. C. Hundley, Executive Manager

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ON THE COVER

Following what is now an every four-year tradition, we are happy to present Tennessee's new Governor, Winfield Dunn, on our cover. (Story appears on page 10.)

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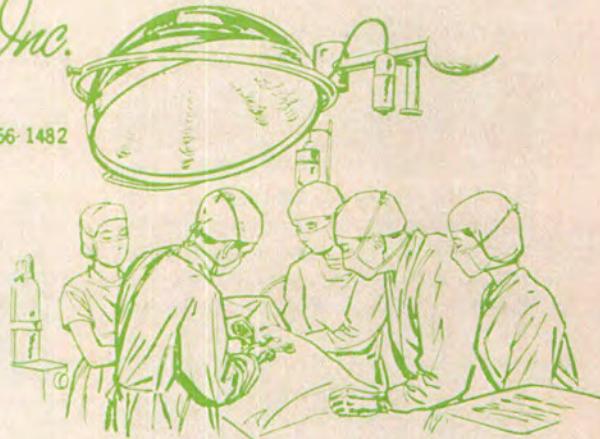
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MODEL CITIES PROGRAM PROVING "BOOTSTRAP" FOR DEKALB COUNTY



By Clarence Redmon
Industrial Representative
Caney Fork Electric Cooperative

It was only a few years ago — very few, in fact — that DeKalb County, Tennessee was depressed in just about every way that can be named, except for the quality of its citizens. Income per capita was low, there was little water under pressure available, the school system was in need of money for upgrading, and industries in the county were few and far between.

DeKalb County was a prime candidate for a turn-around, but how could this big job be accomplished?

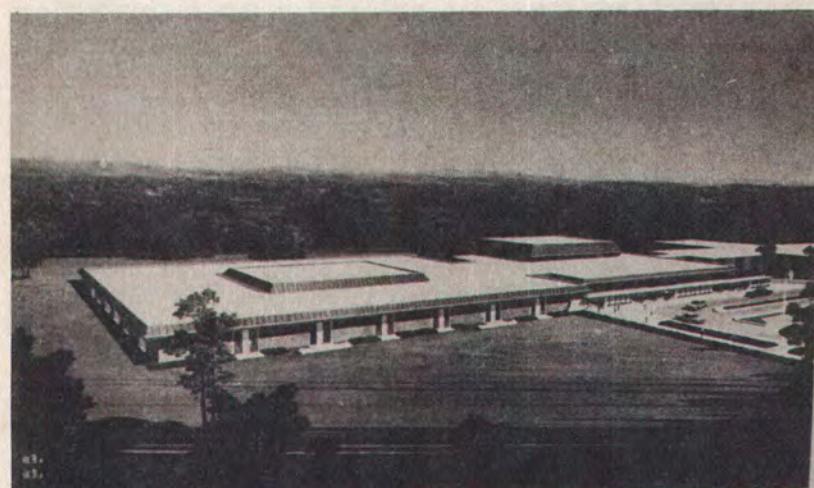
That's where the quality of its citizens, particularly of its leadership, came to the top. A series of meetings involving key officials and other interested persons brought forth some progressive ideas, among the most important being the decision to petition the Federal Government to include DeKalb County and its four towns in the Demonstration and Model Cities Act of 1966.

Happily, in 1968, DeKalb County and its municipalities, on the basis of a strong petition and with considerable and timely assistance from Fourth District Congressman Joe Evins, were accepted as one of four participants in Tennessee in the Model Cities Program. The other three were, and are, the City of Cookeville, part of the City of Chattanooga, and part of the City of Nashville. DeKalb County and Nashville were chosen for Tennessee in 1968 among only 75 selected throughout the United States that year. Chattanooga and Cookeville were among the 75 that were chosen for the Model Cities Program in 1969, making a total of 150 throughout the nation up to the present time.

The Model Cities Program is an operation of the Federal Government, with the prime or coordinating role being the function of the Department of Housing and Urban Development (HUD). And while the legal terminology, provisions and aims of HUD would more than fill this entire magazine,



Far along in construction is this Public Health Center, a Model Cities project located in Smithville.



A MODEL CITIES PROJECT

On the drawing board but a near-future project is this architect's sketch of the DeKalb County Middle School, which will be located in Smithville on a 52-acre "Community Campus." Children in grades 5-through-8 will attend school here.

suffice it to say at this point that the prime, hard-core purpose of the Model Cities Program is to help disadvantaged American citizens attain a higher standard of living. In order to do this, HUD provides some of the funds needed by the

Model Cities Program and works with other Federal Agencies, state and local government groups in raising sufficient funds to do a many of the local jobs, as possible that need to be done. In a very real sense, the Model Cities Pro-



This new Smithville Municipal Airport runway, 3,400 feet long, is due for completion and the beginning of operation early this year.



Symbolic of new industry which Smithville and DeKalb County have attracted is this Douglas Aircraft Company parts plant.

gram determines what jobs need to be done, seeks the involvement, cooperation and participation of citizens and governmental agencies and, altogether, works in a coordinating effort towards getting the job done.

In the operation under discussion, the local venture is officially known as the Smithville-DeKalb County Model Cities Program. Its headquarters are located at 104 East Broadway in Smithville, Tennessee. Director Glen Nichols and Physical Planner W. H. Thaxton, both retired officers from the Armed Services, work with a local

staff of approximately one dozen employees. The entire organization works cooperatively with a DeKalb County group known officially as the City Demonstration Agency, which is composed of the County Judge and the Mayors of the four incorporated towns in the county. Inasmuch as this is a "people" program, extensive help comes from the citizens through such organizations as nine neighborhood Advisory Councils, three specialized Task Forces, and a Citizen Participation Policy Board.

The first year of existence, 1968,



Local Model Cities Physical Planner W. H. Thaxton (left) explains some current and future projects to Clarence Redmon, Industrial Representative for Caney Fork Electric Cooperative, which serves the area.

was one of planning for the Smithville-DeKalb County Model Cities Program to cover a period of five years. The first "action year" began in October 1969, meaning that the "getting things done" part of the program is now about 15-months old.

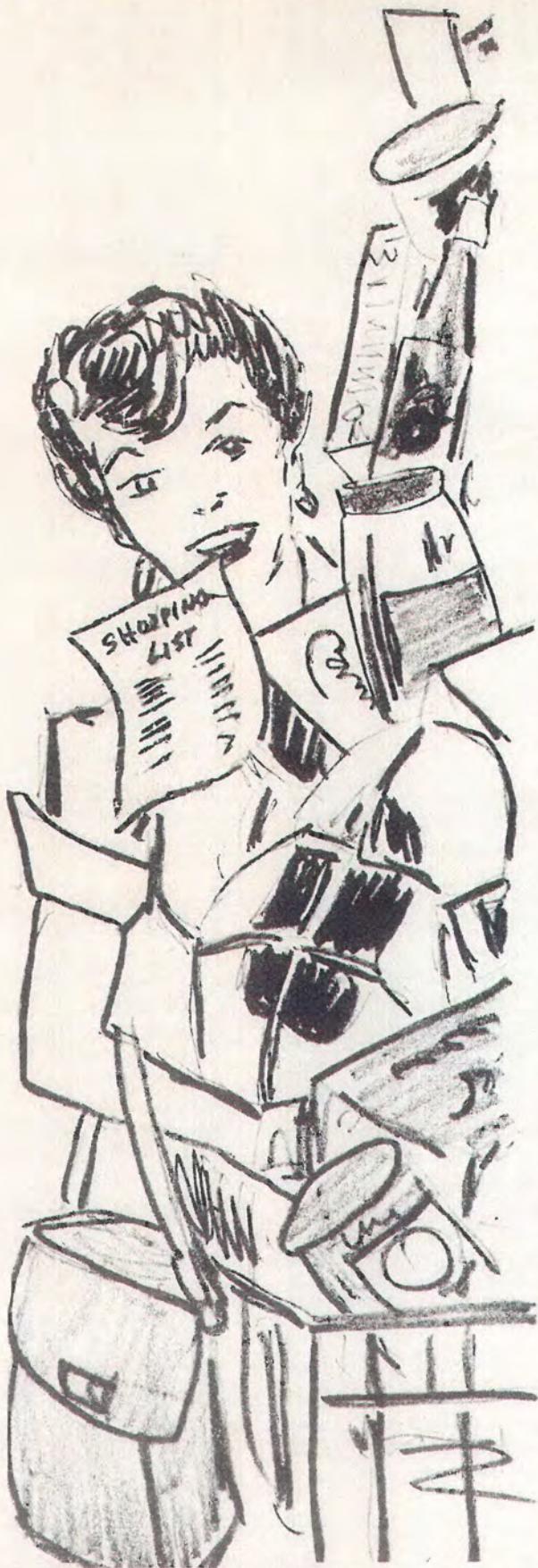
And "getting things done" is no idle phrase insofar as the Smithville-DeKalb County Model Cities Program is concerned.

Already in advanced stages of planning and/or under way are a County Health Clinic, an airport with a 3,400-foot paved runway, a new County Court House, a Mental Retardation Center, two Neighborhood Service Centers, a Vocational School, a new Middle School for grades 5-through-8, a new recreational area, 33 miles of potable water, a sanitary sewer system, the renovation of 27 miles of county roads and city streets, a senior citizens center, additional health personnel and supplies, projects for TV eradication and rabies control, optometry services for the elderly, and prevention of crime and delinquency. The Middle School, Health Clinic, Mental Retardation Center, Neighborhood Service Center, and Vocational School will be located on the grounds of the new DeKalb County High School, and the entire 52-acre area will be known as the "Community Campus."

The Model Cities Program is also vitally interested in housing, Urban Renewal being a major aim of HUD. In this phase, DeKalb County is in above-average condition. Since 1963, DeKalb County has built 74 low rent public

(Continued on Page 15)

Make Every



SHOPPING these days can be a traumatic experience for the homemaker. With prices going up, up and away—women are dismayed to know that this year's forecast is that inflation will hit a new high.

If you shrink when the girl at the register adds up your grocery bill, take heart. There are some ways to make every penny count. But you've got to work at it.

- **Be a listmaker.** The smart shopper maps out her strategy before she engages in the battle of Costs vs. Pocketbooks. Lists are indispensable aids in keeping impulses under check and making the shopper walk down the straight and narrow path of real economies. A list should be flexible enough to include the daily "specials" the store is featuring.

Shopping lists rarely contain items like Macadamia Nuts, grape leaves or sturgeon. Unless, of course, you're rich, and then these items might be absolute necessities—in which case you'd not be too worried about over-spending in the first place.

- **Coupon clippers unite!** This should be your battle cry because manufacturers and food processors do have periodic "deals" that are much to your advantage. Cents-off coupons and those lovely get-one-free offers really mean money in your pocket, so never carelessly toss away any that come your way.

- **Supermarket "specials" really are.** No need to be skeptical about those "special" signs in most markets. Often items are lower priced to move them out before a new shipment is expected. If you have a running familiarity with the specific prices on certain items you always buy, you'll know how valuable the "specials" can be. Those large end-of-aisle displays where food is especially price-worthy are called "loss-leaders" in market parlance. They are the bait to pull you into purchasing something you may not need.

Weigh the loss leaders carefully—if you normally use the product and it's well-priced, consider stocking up. If you don't like it to begin with, even a half-priced can of peas, for example, is no bargain.

- **Learn to read a label.** Any supermarket worth her salt should set about on a concerted label-reading program because under the new truth-in-packaging regulations all pertinent data is inscribed there—like weights and measures. Check comparative contents and prices of several brands and you'll find the one that's a slightly better buy. Even if the savings is smallish—remember those little pennies saved can grow into big dollars.

Penny Count

earned at the checkout counter.

- Always stock up in quantity on canned goods. The marvelous advantage of buying food in cans or glass jars is that they can be stored easily and for long periods of time. And because canned items range over just about everything—from soup to nuts—you'll always have a supply of something in the house and never have to "run out" for anything. Also, items that are out of season in your area are usually priced much higher than the same processed foods available all year round.

- Unusual package sizes? You pay for it. Some manufacturers put the same product into different kinds of packaging—sometimes in a decorator flacon. Other times it's a container made from a different material. Compare and you will see that with odd shaped packages, it's the customer who usually pays the bill. Most canned goods container sizes fall within a category of standardization. Unit costs are less, and you save without really knowing it.

- Less-than-perfect items are priceworthy. Day-old bread and slightly crushed ladyfinger cookies, a little overripe fruit, or bruised vegetables are not necessarily to be passed by. Consider your needs; if, for example, you are making French toast, day-old bread is perfect. And a toothpaste container that has lost its outer cardboard container still has all the product inside. Opened packages should not be bought, but where the container is slightly askew and there is a reduction because of it, it's worth your consideration.

- Practice the art of planning ahead. Read the food pages of your newspaper—they offer the specials of the week. Make out your shopping list according to your particular tastes and needs. Plan your meals.

- Finally, when you go supermarketizing, try to "go it alone." There is nothing that can wreck a carefully worked out budget faster than a winsome little boy or girl in the candy-ice-cream-cookies section. Children are impulse shoppers, and it's hard to refuse a pleading eye turned toward a totally unnecessary 79-cent bubble bath plastic toy (when you know the 39-cent kind in the plain carton is just as good).

In this day of the ever-rising price index, shopping can be a trauma or a triumph depending on how you go about it. Little economies all along add up to big savings when you finally reach the checkout counter. If you make every penny count—the dollars will take care of themselves!



New Governor Winfield Dunn Is Man of Many Dedications

By John Stanford

"Sorry to keep you waiting," said the tall, angular, handsome man with the instant smile, "but as you can see, everyone around here is quite busy."

"Busy" would have to be the understatement of the day in this instance. The speaker was Governor-elect Winfield Dunn and the "everyone" to whom he referred was the small staff occupying a small interim suite of offices in the old Tennessee State Office Building. For none, especially Dr. Dunn, have there been enough hours in a day since the General Election in November. This would be true for any Governor-elect in Tennessee, but when you are, as is Dr. Dunn, the first *Republican* Governor-elect in 50 years, every hour needs to be a day — a long one!

Bryant Winfield Culberson Dunn, the son of a former U.S. Congressman from Mississippi, was considered somewhat of a political newcomer prior to romping to impressive victories in the Republican primary in August and in the General Election in November. He has been politically involved, however, as an interested citizen since college days, this despite the fact that he has never before won an elective political office. He has, for many years, actively supported Republican candidates at various levels, served as Chairman of the Shelby County Republican Party and in 1968 was a delegate to the Republican National Convention which selected President Nixon as GOP nominee.

Friends and associates of the 43-year-old Dr. Dunn, who has been a practicing dental surgeon for more than 15 years, describe him as a man of great dedication in whatever he chooses to participate.

Fiscal responsibility became a dedication with Dunn as a high school and college student when he car-hopped, sold insurance, delivered newspapers and cut grass to help pay his own way towards a Commerce and Business degree from the University of Mississippi and a Doctor of Dental Surgery degree from the University of Tennessee.



Governor Dunn, then the Republican candidate, addressed the 29th Annual Meeting of the Tennessee Electric Cooperative Association in October prior to his spirited victory over John J. Hooker, Jr. in November, 1970.

During the past twenty years or so, Dr. Dunn has maintained a good, and busy, balance of family, church, professional, civic and political activities. His pride and joy is his family. He and his wife, the former Betty Jane Prichard, have three children: Charles, 18; Donna Gayle, 14, and Julie Claire, 9. Together they attend a Methodist church in Memphis where Dr. Dunn has seen extended service as a Sunday School teacher and Vice Chairman of the Administrative Board.

Among his many civic activities have been active participation in various capacities in Boys' Club, Hospital Board and the Junior Chamber of Commerce.

His few spare hours of the past have been filled flying (he and Mrs. Dunn are both licensed pilots), tennis, fishing, camping and water sports — most on a family basis.

Campaign statements help identify the Governor-elect's philosophies:

"I believe in a balanced budget at home and in government."

"I believe that government should work for the people and not people for the government."

"In these times of unrest, civil disobedience, rioting and destruction, I believe we must have leadership strong enough to meet the test. We cannot afford the luxury of leaders who are soft one

day or those who threaten our government and our campuses and who, the next day, pledge to keep law and order."

"In my judgment what is good for East Tennessee is good for all of Tennessee and what is good for Middle and West Tennessee is good for all Tennessee."

"The first thing I intend to do as Governor is to tear down those signs that say 'Welcome to the Three States of Tennessee' and replace them with signs which say, 'Welcome to the Great State of Tennessee.'"

The Tennessee Magazine says Welcome to Tennessee's 51st Governor, Winfield Dunn, and wishes for him outstanding success to the benefit of the 4,000,000 Tennesseans whom he will be serving as Chief Executive.

As was done at this time four years ago, The Tennessee Magazine is offering a free, full-color photograph, suitable for framing, of Tennessee's new Governor. If you would like to receive such a picture of Dr. Winfield Dunn, send your name, address and zip-code to:

Governor's Picture
The Tennessee Magazine
P.O. Box 7232
Nashville, Tenn. 37210

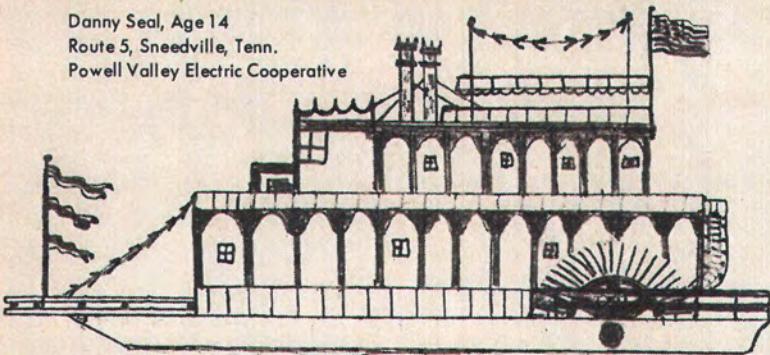
Uncle John's Page

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

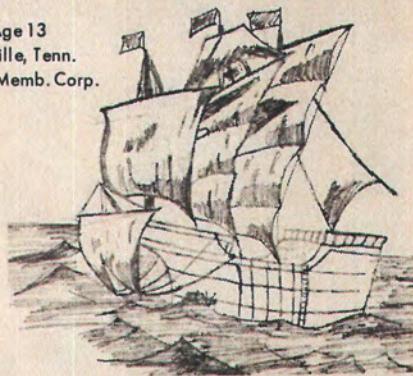
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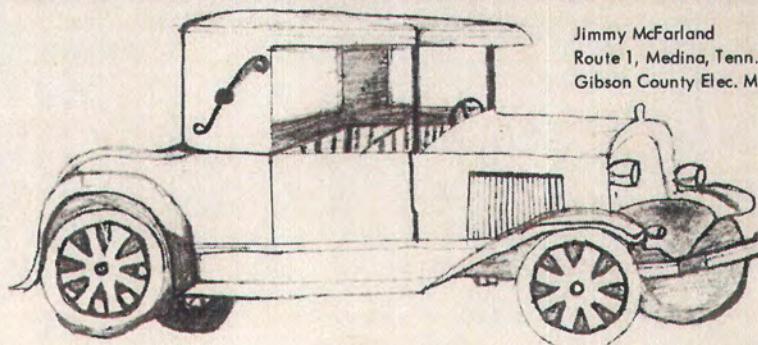
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A NEW OUTLOOK IN RURAL AMERICA



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... in Mankato, a small Kansas town that, until a few years ago, was typical of too many rural communities with empty stores, dwindling populations and abandoned farmsteads.

But now there's a new look to Mankato. Among other developments there's a large meat-packing plant, two housing projects, a hospital, a new high school, a million-gallon reservoir, a shopping center, a construction company and a new football field. And there's more to come.

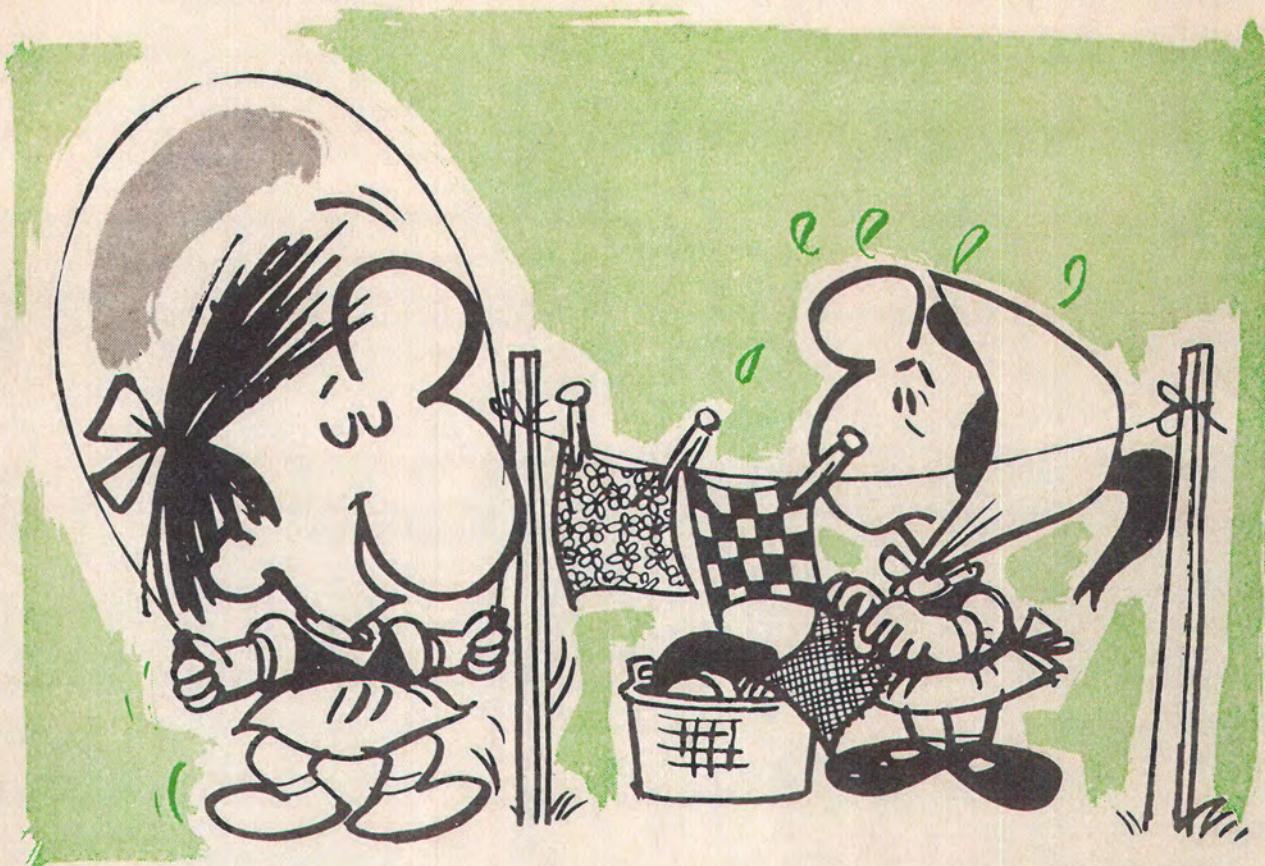
This community-building didn't just happen. It began when leaders of the Jewell-Mitchell electric cooperative sparked the community-wide effort to make their town, their area, abundant in opportunity.

There's a lot of work ahead—in Mankato and across the nation's countryside. Rural America is still plagued with too much unemployment and too few job opportunities.

But there's a new outlook in the countryside . . . with America's consumer-owned rural electric systems leading the way to progress . . . fulfilling their commitment to a better life for the people they serve.



Enjoy More Play Time with an Electric Clothes Dryer



An Electric Clothes Dryer lets you "Waltz through Washday" because you can do the family's laundry anytime . . . rain, snow or shine. Just load it, set the dial and walk away. In minutes, everything's fluffy dry, ready for folding.

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Safe for all types of fabrics, too, even delicate synthetics. With the new "wash-n-wear" fabrics, an Electric Clothes Dryer can even eliminate ironing!

Visit your favorite appliance store to find the Electric Clothes Dryer that is right for your home. Another big bargain in better living with low-cost rural electric power.



Timely Topics

NEW AGENCY TO CONTROL PESTICIDES

The job of regulating pesticides has changed hands, but a University of Tennessee entomologist believes that we can still expect further restrictions on chemicals with long residual life.

Harry Williams, assistant professor with the U-T Agricultural Extension Service, reports that the new Environmental Protection Agency (EPA) has now assumed the responsibilities of pesticide regulation from the Agricultural Research Service of the United States Department of Agriculture.

"The EPA will be independent of any cabinet department," Williams continues. "It will combine the environmental functions now scattered throughout agencies in the Department of Agriculture, Interior, and Health, Education and Welfare."

Williams believes that in the future, the long life pesticides will be restricted to essential uses. For example, chlordane and dieldrin someday may be used only against termites and some soil insect pests of field crops. DDT may be called out to control disease-carrying insects in emergencies. Williams bases this prediction on the reports of presidential committees appointed to study the pesticide situation.

The entomologist states that as a result of restrictions on pesticides, more research will be needed to develop biological control measures. "We have imported more than 500 different kinds of insects to control our harmful insects; 30 have become well established and have given good control. This is not a recent accomplishment but has been carried out over a period of more than 50 years," he says.

STOP WINDOW, WALL SWEATING

Max H. Falkner, a University of Tennessee agricultural engineer, reminds homeowners that there are several things they can do to keep the walls and windows in their homes from "sweating" during cold weather.

"Use storm windows on your house," says the Agricultural Extension Service associate professor. "Install a ceiling fan in the kitchen and bathroom to carry off moisture from cooking, washing and drying clothes, and bathing."

Falkner suggests that you make a practice of ventilating your house by opening windows or doors occasionally.

You can lay a ground cover of polyethylene or 55-pound roll roofing beneath the house if it has a crawl space instead of a basement. A vapor barrier near the inside of all exposed walls can keep moisture vapor from penetrating to a point where it can condense.

The engineer concludes by saying that the secret of preventing window and wall sweating is to prevent the buildup of humidity which condenses on areas in the warm house that are not insulated against colder temperatures outside.

FEED REPLACEMENT HEIFERS PROPERLY

If a heifer is not in good flesh or condition to conceive early in the breeding season, her chances of being a productive animal are much lessened.

This is the opinion of W. P. Tyrrell, a University of Tennessee Extension livestock specialist. He says that, on the other hand, heifers that are too fat may have severe calving problems.

"In some areas of Tennessee where grass has been plentiful, bred heifers may already be too fat for safe calving," says the animal husbandry professor. "Heifers bred to calve in late winter and spring need plenty of exercise on permanent pasture sods."

Tyrrell says that the problem on most farms is to provide adequate, balanced nutrition without overfeeding.

The specialist cites research work done at Miles City, Montana, which indicates that the first winter after a heifer is weaned may be the most important season in her life. He says that poor winter feeding is false economy. A heifer will not conceive early in the breeding season unless she is in a strong, healthy nutritive stage of growth. Proper feeding of replacement heifers Tyrrell concludes, can greatly affect your 1971 beef cattle income.

FARM BRIEFS

If you're planning to soil test pastures that have been top-dressed with fertilizer or lime since the pasture was seeded, be sure you don't sample any deeper than three inches. It is not likely that either the fertilizer or the effects of lime have moved into the soil any deeper than three inches, so soil below this level would not represent the fertility conditions in the field.

* * * * *

Contrary to popular belief, it is not when you cut timber, but how well you season it that counts in getting top value from posts, poles, logs or lumber.

* * * * *

A landowner planning to peel posts or poles will find the bark peels more easily in the spring.

* * * * *

A University of Tennessee Extension agronomist believes the importance of agricultural limestone and its role in increasing crop yields are often overlooked.

MODEL CITIES PROGRAM

(Continued from Page 7)

housing units and is now engaged in Urban Renewal projects involving 28 units, 18 of which are required to be upgraded, meaning to destroy the older units and rebuild. Thanks in large part to the work of the Farmers Home Administration during past years, 64% of the housing in DeKalb County is considered standard by Model Cities ratings, 23% is classified as deteriorating, and only 13% is rated as dilapidated.

Another big plus to the potential economic growth of DeKalb has been the availability of potable water under pressure made possible by the establishment of a Water Utility District. Water and electricity are two absolute "musts" for the attraction of industry to any area. Caney Fork Electric Cooperative electrically serves a major portion of the county and has been instrumental in making available a considerable quantity of the water supply.

A good example of how the Smithville-DeKalb County Model Cities Program operates might be found in the new airport facility, which is expected to be in operation about the time this story is printed.

Model Cities put what was an obvious need for an airport into its action program. It contacted and worked with other State, local and Federal agencies which were almost certain to be interested in such a project, to the end that this fine new facility has been jointly financed by the Federal Aviation Administration, the Appalachian Region Commission, the City of Smithville, the County of DeKalb, the Tennessee Aeronautics Commission — and the Smithville-DeKalb County Model Cities Program through HUD's Supplementary Fund.

A slogan we saw recently fairly well sums up what is happening in Smithville and DeKalb County, in large part through Model Cities Program efforts in bringing together and coordinating Government help at all levels — Federal, State and local — to bring about a higher standard of living for ALL the people in this given area. The slogan reads:

"Coming together is the beginning . . .

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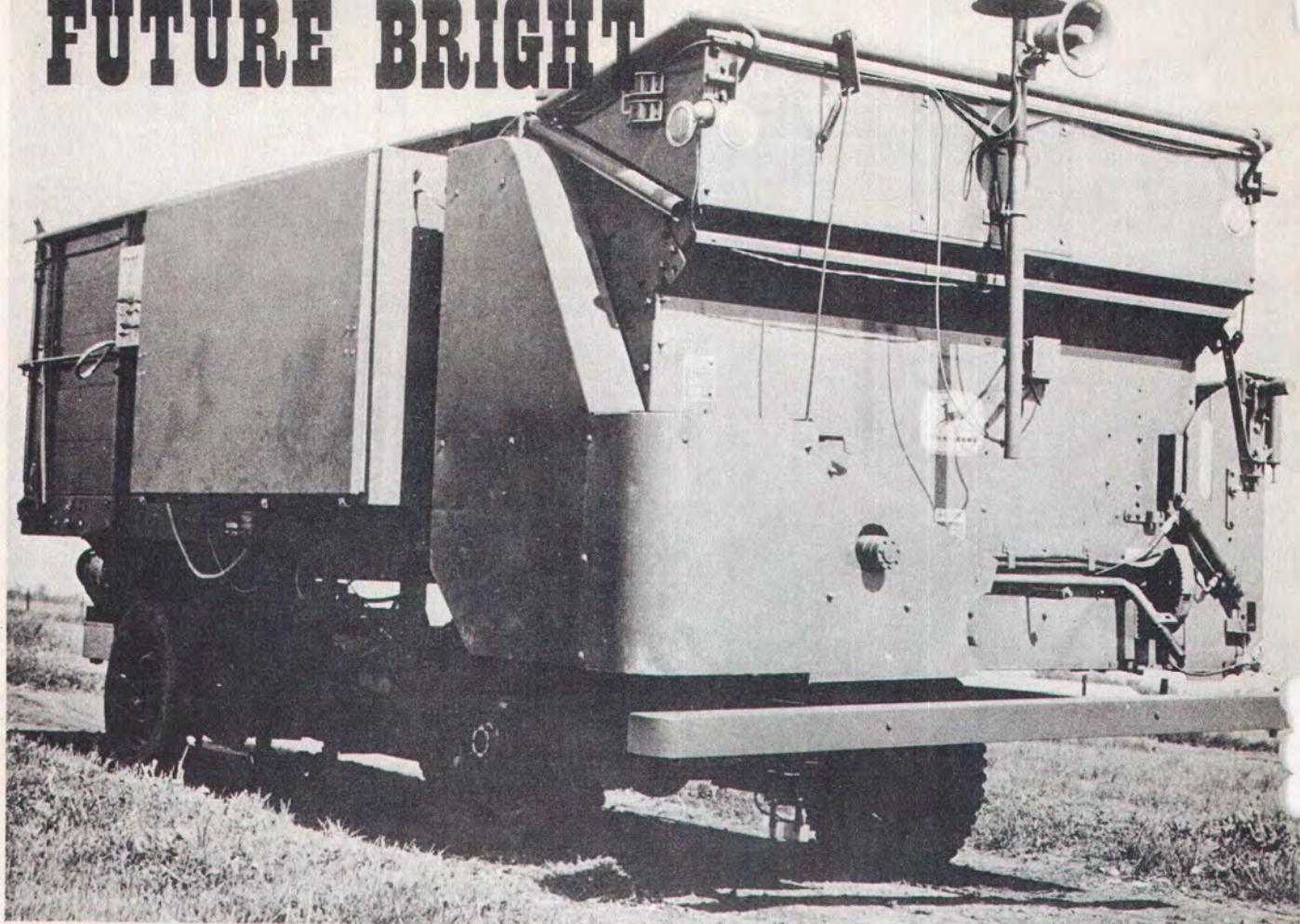
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FARM POWER FUTURE BRIGHT



The pilotless prime mover is being developed by USDA Agricultural Engineers at the University of Illinois as a guided, self-propelled, automatic feed distributing vehicle. Same basic vehicle could be used as a lugger to transport material from the field harvester to a central storage point. All on-board equipment and traction motors are hydraulically powered and are regulated by the electronic controls in the side-mounted cabinet.

Electric power is piped into farm homes, milking parlors, feedlots, farrowing pens, poultry houses, grain bins, silos, workshops and almost every other place a farmer works these days.

Almost, that is.

Thus far, electricity stops at the end of wires stretching from the transformer out by the mailbox to where it is used. No one has come up with a cheap efficient method of packaging electricity for use in the fields to run large tractors or grain harvesters.

But the dream goes like this:
A farmer backs his tractor up to a little black box, plugs in a terminal, finishes his chores and the next morning bright and early

drives off for a full day's plowing or cultivation.

And in the field, once he sets a few gadgets on the tractor's control panel, the operator leaves the field for other work. The tractor, emitting only a soft whir and no smoke, is programmed to follow underground wires along terraces — or even sensitized row crops? — and shut itself off after so many hours or miles.

Dr. L. B. Altman, Agricultural Engineer in charge of farm electrification research for the Department of Agriculture at Beltsville, Md., is one of those forward-thinkers who believes electricity is moving far beyond its present agricultural limits.

But don't sit up nights waiting for electric tractors for field work to hit the market, he says.

"The widespread use of electric tractors is further off than electric automobiles," Altman says. "Present technology does not permit the economic design of electric tractors for primary tillage and other field work."

However, Altman puts a big qualification on his prediction: If automobile manufacturers, hard-pressed because of air pollution to find new power sources, come up with a major breakthrough in large-power batteries or fuel cells, then farmers might see some fantastic changes.

Heating. That has a big future

for electricity on the farm as Altman and other engineers see it.

Not simply the use of electricity to heat rural homes, but a large variety of uses such as more heat or farrowing houses, poultry brooders and the like.

More and more farmers, Altman said, are finding the rising costs of LPG and other fossil fuels too much to handle. Electricity — thus far, at least — remains competitive.

Probably one of the most promising uses for electric energy is in drying grain, particularly corn.

"We've seen a tremendous shift from harvesting corn in ears to picker-shellers. Practically all commercial producers, because of this, must dry their corn," Altman says.

But most of this has been done at high temperatures and during brief periods of time. Result: Much grain is damaged during the process, raising objections from foreign buyers and U.S. industrial users over corn quality.

Altman says more refinements can be expected in grain dryers and that early efforts to dry corn with low-temperature electrical heat over a long period — say a month — show promise of preserving quality.

In this way, he says, the costs of electrical drying are held down by the low temperature. In fact, he says, much of the drying is accomplished simply by the movement of air and the heat generated by the dryer motors.

But again, the job of getting electricity to the heavy-duty equipment such as grain dryers can be troublesome as well as costly. Three-phase power means a permanent installation and often higher power rates. The heavier single-phase wiring needed to operate motors and heating units not only is expensive, but single-phase motors cost more than three-phase.

What is needed, the engineers say is a simple, inexpensive method of converting ordinary single-phase electric power into a three-phase system needed by dryer motors and other equipment.

Some converters are being used but the Department of Agriculture wants to explore the possibility of

expanding their use. The Agricultural Research Service, for example, has awarded a \$23,000 grant to the Agricultural Engineering Department of Iowa Agriculture and Home Economics Experiment Station, Ames, for a two-year study of phase converters and farm wiring systems.

Scientists hope to find ways for farmers to cut costs of wiring and provide definite cost information on the use of converters.

Meantime, the research quest for new machines and instruments has produced some exotic-sounding ideas, some of them already in use and others under study.

Electric-powered laser beams to control the depth of laying drainage pipe; computer-controlled feeding; electrostatic separation of seeds during cleaning processes; portable sensors to measure how much water plants lose during growth; and dozens of other devices are either under study or in limited use today.

Livestock feeding, of course, has been one of the very foremost examples of electric-powered automation. And the experts are still working on it.

Take dairy cows and air conditioning. Tests have shown for years that summer milk slumps could be eased by cooling sheds but costs of air conditioning entire buildings are too much for most producers.

One way to cut costs and do the job, the agricultural engineers have found, is to cool just part of a cow — her head.

Studies at the University of Missouri showed that if a cow's head and neck can be held in an air-cooled enclosure she can give 15 to 20 percent more milk.

Another way electronics may be put to work for dairymen involves the use of sensitized tags on cows giving individual average milk output and other information. Electric eyes or scanners "pick-up" the information, transmit it to a computer device which apportions the precise amount of feed ration each cow is entitled to.

ARS scientist Altman believes sophisticated uses of computer-type equipment for controlling farm machines is almost limitless. More of this is bound to come, he says, and perhaps soon.

Back to tractors. While Altman does not think the electric tractor is going to take over yet, he does see a great future for radio-

control devices to replace manpower in the field.

And using underground sensing devices to guide field machines is not far-fetched at all, he says. These could become the most reliable hired men on farms some day.

Altman, explaining further why he thinks big electric tractors are a long way off, says air pollution by farm engines still is minimal compared with the problems of the cities.

"Electric tractors are a good concept," he says. "But pollution problems with gasoline or diesel engines on farms are certainly less than in cities. And the need for power — the large size 100-150 horsepower you need for a tractor — is not going to be supplied, in the near future, by electricity."

One reason is cost.

"The gasoline engine is so inexpensive that it will be difficult to replace," say Altman.

Rechargeable batteries have been developed for small tools, from toothbrushes to drills. But these, Altman points out, require just small power performances. The five-or six-bottom plow capability needed in field tractors is another thing.

Another dream possibility is the use of the sun to generate electricity. Could solar energy cells store up enough power to run a farming operation?

Theoretically, maybe. And some day it might turn out that electric power lines will be outmoded by individual solar units on each fully automated farm unit.

Altman does not think this time is near. Again, he says, the electric power requirements of today's farm are too large to be met by solar cells. These can be used to control devices, tripping switches and operating low-power gadgets, but it is too costly under present conditions to think about solar power as a primary source of farm energy.

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Insect Pests Are World Travelers

By Harry E. Williams
Assistant Entomologist
University of Tennessee Extension

Insects are first-class travelers, and many of them are "one-way tourists." These small creatures are among the most successful immigrants in the world. How many of us could travel alone to a strange country without bag or baggage, adapt to the new environment, and leave many relatives when we pass on?

Perhaps you have questions about some of the foreign names of our insect pests. These names tell us a very interesting story about these insects. Insects are the most successful animals on earth when it comes to providing food, shelter, and protection for themselves. Their strength, their reproductive potential, and their ability to escape or resist an enemy is unsurpassed.

The *alfalfa weevil* is a native of Europe that was brought to this country around 1900 in a bale of hay. This weevil settled near Salt Lake City, Utah, and was very successful there. Since that time his relatives have moved all across the United States. In 1958 the weevil moved into Tennessee and has been very successful here. This insect is most active during cool, wet weather which decreases the effectiveness of chemical control. Biological control by a parasitic wasp looks very promising for the future.

The *Japanese beetle* is a native of the isle of Japan in the far East. This immigrant arrived in the



United States around 1916 and settled in New Jersey. The Japanese beetle feeds on approximately 300 plants and has found very favorable climatic conditions in this country. The beetle now has infested over 100,000 square miles and will eventually be a pest over much of the United States. Parasitic wasps and a bacterial disease are important natural controls for this pest.

The *white-fringed beetle* is a native of Argentina, Brazil, Chile, and Uruguay. Infestations have also been reported in New South Wales, and the Union of South Africa. This beetle settled in Florida, Alabama, Louisiana, and Mississippi around 1936 and has spread as far north as New Jersey at the present time. The adult insect cannot fly and will walk as far as one-fourth of a mile in its lifetime. There are no males in the population. All white-fringed beetles are females and can produce fertile eggs. With favorable climatic conditions that now exist and more than 200 host plants to feed on, this pest can spread over large areas of the United States. There are no known natural enemies of importance.

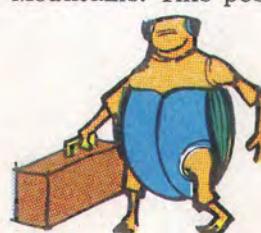
The *European corn borer* is a native of Europe that settled in Massachusetts in 1917. Since that time it has spread southward and westward over a large part of the important corn acreage east of the Rocky Mountains. This pest feeds

on corn, weeds, flowers, and vegetables and has been found in over 200 host plants. The natural enemies of the corn borer have been imported, but to date are not important in the control of this pest except in localized situations.

The *face fly* is a native of Europe. It was first reported in Canada in 1952. Since then it has spread over a large area of the United States. This fly is now one of our worst cattle pests. This fly is extremely annoying to livestock on pasture. The adult flies over winter in heated buildings usually in wall voids or in attics. As a result, it is also an annoying pest to the housewife during the winter. A parasitic nematode, which is a natural enemy, has been reported in this country.

The success of these travelers is a real challenge to our travel agencies. These tourists travel first-class at a very exclusive, economical rate. They are a constant, persistent headache to our customs service, and successfully avoid scrutinous inspections to detect their presence. On the basis of her past performance, "Madam Bug" should be most successful with a chain of franchised travel agencies.

(Ed. Note: Mr. Williams welcomes questions and problems concerning insects. Address correspondence to The Tennessee Magazine, P.O. Box 7232, Nashville, Tenn. 37210.)



PUZZLE CORNER

The December Puzzle Corner ran up one of its highest total number of entries to date, and most had the correct answer.

The Puzzle for December concerned inventory time at a bicycle shop. To make things more interesting and less a chore, the owner decided that, instead of counting the number of bicycles and tricycles in his shop, he would count the number of pedals and the number of wheels. He counted 153 wheels and 136 pedals. How many bicycles and how many tricycles did he have?

The answer: 51 bicycles and 17 tricycles.

The winner, as always selected by lot from all the correct answers, is William T. Harrison of Route 1, Box 184, Michie, Tennessee, a member of Pickwick Electric Co-op, Selmer. Mr. Harrison receives \$10 from The Tennessee Magazine for his good answer — and good luck.

Second and third prizes for \$5 each go to Deborah Briggs of Route 1, Ashland City, Tennessee 7015, a member of Cumberland Electric Membership Corporation, Clarksville, and to Mrs. Austin Leonard of Route 1, Thorn Hill, Tennessee 37881, a member of Powell Valley Electric Co-op, Jonesville, Virginia.

And now for the January Puzzle Corner, which may prove a bit more difficult:

Four baseball teams organized a league. Each played one game against the others. Each game had a different score, and each of the teams won a game, drew one and lost one. So the championship had to be decided by average score. The Owls scored 4 runs against 2; the Elks 2 runs to 2; the Bulls 3 runs to 4; and the Bees 2 runs to 3. What was the score of the Bulls versus Bees game?

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The "Instant" Home

WANTED: Young couple would like to buy new 2-bedroom home, fully equipped, fully furnished. Occupancy within 2 weeks. Price range; \$5,000-\$8,000.

An impossible dream? Not really—because the young couple are obviously shopping for a mobile home.

Mobile homes now make up over one-third of all new single family housing units being added to the Nation's housing supply.

This proportion varies widely, of course, throughout the country. In Michigan, for example, mobile home equalled 54 percent of permits for new housing units in 1969; in Connecticut, only 5 percent.

Shipments of the "instant" dwellings in the early 1960's ran about 100,000 annually. But with skyrocketing costs of conventional housing and tighter money for mortgage financing, mobile home production more than quadrupled to over 400,000 units in fiscal year 1970.

Both price and appearance of these factory built units makes them attractive to people with low or limited incomes.

Moreover, credit terms now available for mobile home purchases are more favorable than formerly. This makes it possible for many families to acquire the first home of their own. Or it may enable them to move out of old, dilapidated quarters into a home that not only meets modern dwelling standards but may even be above them in some respects.

About half of today's mobile homes are located outside metropolitan areas, in "rural" America.

And, since about a third of our population lives outside big city areas, mobile homes are contrib-



uting more to the housing needs of rural than of urban America.

The Department of Housing and Urban Development recently published a survey of new mobile homeowners. In summary:

The new occupants are highly immobile; resale is less than 10 percent per year during the early years of ownership.

Most buyers are satisfied with the product they've bought. Young families are the best customers. The proportion of buyers in the middle-aged and retirement-aged brackets is less than these age groups' proportion of the Nation's total population.

The price? Mobile homes sell for considerably less than conventional homes.

Average mobile home price in 1966 was around \$5,600, excluding payment on a lot. (The typical mobile homeowner rents his lot.)

Cost of a conventional home in 1967 averaged about \$21,500, and close to \$17,000 for those insured by the Federal Housing Administration.

Since 1967, the price of a conventionally built home has risen to an average of about \$27,000, but mobile home prices have not risen proportionately.

The terms? Monthly payments on mobile homes and conventional housing differ only slightly.

But, the mobile-unit buyer usually pays for his home in 5 to 7 years. The buyers of a conventional home generally has 30 years to pay for his.

The typical mobile homeowner in 1967 paid \$80 per month on his home and \$32 for a lot—a total of

\$112. The typical buyer of the conventional house had a monthly mortgage payment of \$126.41 on his house.

Consumer acceptance? To many, mobile homes still conjure up visions of coop-like trailers seen only on the peripheries of colleges, campgrounds, military bases, and migrant workers' camps.

But the mobile home has changed. For one thing, it has grown in size from a cramped 8' x 30' a decade ago to today's most popular size of 12' wide and at least 60' long. Newer designs provide for double-unit homes, shipped in two sections to be coupled together.

It has smartened its appearance, too. It has added amenities in the way of modern kitchen and bathroom fixtures, and interior furnishings. Its exterior design has been changed to overcome the boxy appearance of earlier years. And the newer concepts in mobile home courts—more spacious, well landscaped, with more recreational and service facilities—add to its livability.

Many rural development planners believe that mobile homes can help solve one of our biggest problems: providing low cost housing for low and moderate income families near new job opportunities in rural areas.

Moreover, the growth of the mobile home industry may be leading the way into an era of technological change throughout the housing industry. The economies of mass-produced housing—on or off wheels—are likely to be an important factor in our Nation's ability to meet its housing need in the future.



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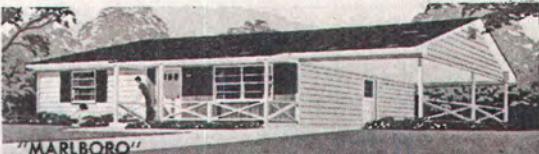
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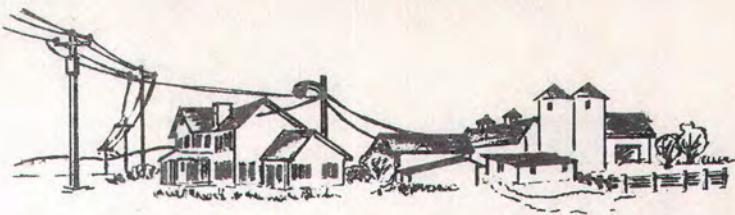
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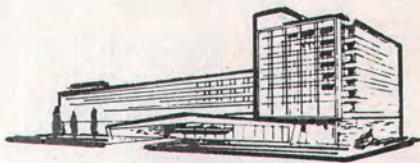


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