Last 50 Years Good, Now What Can We Do? Push-Button Farming, Planetary Point 4 Ahead

By FERDIE J. DEERING (Editor, The Farmer-Stockman)

of any youngster. Those who can't carrying water. qualify as farmers will have to

CONGRATULATIONS FROM



Although historians have seldom found the farmer prosperous, his apparently serene way of life has often been the envy of his helterskelter urban neighbors. The farmer of a half-century hence may have such a wonderful occupation have such a wonderful occupation have as chopping wood and triad to describe the half-century the lowly that it will be the highest ambition ful chores as chopping wood and clod has come to be recognized as the first that it will be the highest ambition ful chores as chopping wood and clod has come to be recognized as the first three different from those of today. It they don't, come around on is doubtful if any crops now grown March 1, 2003, and The Daily Oklawill be left then. They will have homan circulation manager will respicately and the full purchase price of this kinds, much more productive and copy of your paper, if it is resolvently that it will be the highest ambition full chores as chopping wood and clod has come to be recognized. that it will be the highest ambition ful chores as chopping wood and clod has come to be recognized as

take up law, medicine or business gest that horses would be replaced crazy to find gold, but now the planets; to help dispose of our suras alternate choices.

by tractors to the extent they would be replaced crazy to find gold, but now the plus and to take care of the poliby tractors to the extent they would by tractors are those those in law. The past 50 years was without doubt the period of greatest advancement since Adam lost his job as horticulturist in the Garden of Eden. We can only speculate on what further progress may come in the next 50 years but it is doubtful if we can imagine anything as D. C.?

by tractors to the extent they would venturesome prospectors are those be kept mainly for recreational rid-public-spirited missionaries who include the public-spirited missionaries who included the fact that its cost will be the fact that its cost will be the fact that its cost will be shared by other nations and not conserved. Whether room to watch the actual ceremonthethey think it ought to be done by a chemist or an earthworm depends upon the point of view.

No Pellets, Please

It is safe to predict that folks will not stop eating by 2003, nor will their nature characters.

would own a car that would go 80 ods of profitable soil management miles an hour, much less jump into will come when we figure out the his own plane at attend a livestock workings of plant foods such as ni-

If you had been brash enough to we've barely started. offer such suggestions, chances are the other checker players would have laughed you out of the corner store.

Aren't we as likely to see as great advancement in the future as we have in the past? The editor thinks so, and has suggested that we predict the next 50 years in

the most precious thing we have. But would you have dared sug- A hundred years ago, folks were

It would have placed a strain on the imagination of even the dreamer of 1903 to suppose that a farmer to eat and wear. Phenomenal methods in the imagination of even to eat and wear. Phenomenal methods are the soil management to eat and wear and wear and wear and the soil management. meeting 150 miles away and be trogen, phosphorus, potash and the back home for supper. so-called trace elements. And

Soil Conditioners Valuable For example, at the plutonium plant in Washington, experiments are under way using 200 sheep to determine the effects of varying of the atomic energy plant on vege-tation which man consumes and way different cooks upon grazing land. Just what this may lead to is unknown, but the possibilities of increasing crop yields by using radioactive sheep manure—doesn't that just stimulate your imagination as to what we might discover in this atomic

Soon, through use of soil condi-tioners, some of which are now on the market, a farmer will be able sorghums and wheat to yield suto calculate exactly how much of perior sorts. A new hybrid grain each element is needed to produce sorghum, due within the next 10 a specified yield per acre of any years, will grow a short stalk suit-crop. He will be able to rearrange able for easy machine harvest the soil structure and by adding the proper plant foods, seasoned to leafy plant when forage or ensilage taste with vitamins and hormones, is desired. make the poorest land blossom like a rose. That will give some Oklahomans who own poor farms a distinct advantage over farmers living tinct advantage over farmers living of his soil, and when he decides he where land already is so good it wants to raise 1,000 or so bushels can't be improved upon.

Crops Without Soil

By means of chemicals now being developed, there will be ways
assigned to his project. to treat the soil so that weeds will

We will have advanced to the not even germinate, while favor-point that each farm will have its able insects and desirable plants complete staff of advisors, eco-will be stimulated. The humble nomists and technicians, so that earthworm will work harder than time won't be wasted going from ever to replenish the earth and the one farm to another. Each farmer

through the science of hydroponics, out any subsidies due him, a comcrops can be grown on a large modity credit man to keep him scale without soil. However, appli- closely advised on price supports cation of this method may be con- and other financial manipulations, fined mainly to the health resorts while the Bureau of Agricultural that will be established in the polar Economics will have a corps of regions, and on space stations in statisticians to keep track of what the stratosphere where fresh vege- he grows and sells. tables will be in demand by interplanetary travelers.

wonderful as the things that actual agriculture. So let's rear back and The plants and crops to be grown by will happen.

Suppose, for instance, you had that all we predict will come true. different from those of today. It

astute politicians will have set up a Point Four program for other plus and to take care of the politicians brothers-in-law. The re-

tent of relishing their food in tiny pellets. Servicemen who have tried a diet of dried eggs, dehy-drated milk and other concentrates have expressed a definite lack of enthusiasm for them.

Although it is possible to compress the same chemical and food elements contained in beefsteak into a single synthetic bite-size crunchy, there is no likelihood that a satisfactory substitute will be found for the enjoyment of cutting into a tender, tasty sirloin steak, way different cooks prepare what is called "French-fried potatoes" but even in the atomic age, that may be too much to hope for.

As the science of plant breeding moves forward, numerous plants from around the world and even from outer reaches of the universe will be introduced and utilized. An indication is the recent success in crossing grass varieties with grain when grain is wanted and a tall,

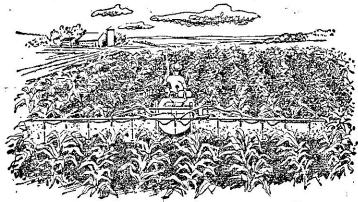
Scientists for Farms

Each farmer will have a complete analysis for all characteristics of any crop, he will simply call a cabinet meeting. His cabinet will

get to where they like people again. his own extension agent.

There is the possibility that cian, his own PMA man to figure

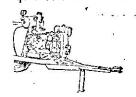
Naturally, these men and their assistants would have to be co-

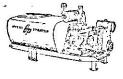


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ionary compared to our present ket before 2015 or 2020. levices as the combine is to the rain cradle. There will be no neessity for a man to sit all day riving a plow or a cotton harester. He will simply lay out a attern for operation of the mahine, set the electronic directionl controls, and turn it loose. A afety gadget will automatically top the machine and send a disress signal to the farmer if anyhing goes wrong. The machine vill do the rest, up hill and down,

vill enable the farmer to make use f whatever radioactive elements nay exist in abundance in his loality. The small volume of fuel induce precipitation. seeded will be supplied for the enire field when the work is set out. nanufacturer will build enough uel into the engine at the factory

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concerned about the weather and casting towers.

its effect on his prosperity and By directing hot and cold air diet. In the future, the concern will

solution the rest, up in and down, ways to increase the data of the control will make a certain glouds but this work is still in its most elementary stages. The spire.

Some time ago, one Oklahoman, won't stop for lunch and darkness rain or snow is only a small frac-probably a Democrat, suggested Even refueling won't be a probem. The science of atomic energy knows have defined as the science of atomic energy knows have defined as the science of atomic energy knows have defined as the science according to the science of atomic energy knows have defined as the science according to the sc can be seeded with silver iodide from the Great Lakes. He had in nuclear particles to simulate na-mind that the top could be used as

of the future know how to do that, ages. t is even possible that a method but he also will be able to move nay be perfected whereby the the cloud where needed. Then he can release over your farm what- a suggestion, but it is not likely ever amount of rainfall you and to be built. The reason is that irrio last the life of the machine, but your neighbor have ordered.

It won't do much good to be able to make it rain, though, unless you can get it to stop raining when you have all the water you want or need. That, too, is coming. Hazardous blizzards and gullywashing cloudbursts will be read of only in the history books. Even when most of an area wants a rain, an individual farmer-of-thefuture will be able to have it bypass his farm if he gives notice to the weather modification service. That way he won't lose a hay crop or miss a fishing trip.

Erosion or crop damage by wind also will be stopped. By installing a system of improved radar (possibly to be called windar) to detect the approach of high winds, the farmer will be able to press a button turning on a barrier of cosmic rays that will deflect the wind upward and away from his crops. If he happens to be away from home, he will be able to turn on the barrier by wrist-radio, so even unexpected storms can be nullified.

Temperature control will be a natural accompaniment to this system, with two possible ways ap-pearing. One will be to install devices for capturing and storing sol-

ems probably wont be on the mar-jar rays on bright days to be re-jwho regard themselves very m et before 2015 or 2020.

leased on cold days. The other as manufacturers, assembling will be to convert static electricity unit of beefsteaks or pot roading to redicate the results of the results and results. linto radiant heating that will pro- These will compile their form vated his first field with a sharp-tect a field from frost by a system or blueprints for a pedigree, guardened stick, the farmer has been of strategically located heat broad-ing them closely as trade secrets,

currents, it will also be possible planetary rocket ship trade. to adjust temperatures on the This will be possible by still be there but the farmer will Great Plains to suit the majority. be able to do something about the Home air conditioners will no longer be used, and even such dain-Already scientists have found ties as deodorants won't be need certain type of beef animals are ways to increase the amount of rainfall that may be obtained from and temperature control will make ficial insemination and ova trans-

tural rain-making conditions and a superhighway to Chicago, while induce precipitation. Not only will the weather man power, communications and bever-

Many Possibilities

One can see possibilities in such gation will become obsolete before White House, due to the aforementioned modifications in the weather. The present battle between agriculture, industry and municipaliand where needed.

With these marvelous developments, what about the future of milk plants the cost of taking it live stock? Well, here's another out. bright spot on the agricultural horizon. Beef animals will be grown to suit consumer preferences for choice cuts, there'll be no tough steaks and the stockman will always make an honest dollar on so the animals could graze would every head.

Some unrealistic persons have anticipated that scientists will some day be able to combine grass water, corn and other elements into the hopper of a fabricating machine and turn out reasonable facsimiles of beefsteaks, roasts or bacon, according to your tastes. We do not deny the possibility of such a machine, but as even a gullible public that will accept margarine for butter will still be satisfied only with genuine beefsteaks. The public demand here will be for tender quality and more of them.

Two Schools of Thought

Crossbreading of livestock will become an exact science. A complete analysis of the genes that a given dam or sire might possess will become a part of the pedigree, with marginal notes on which are dominant and which are recessive. By careful calculations and consultations with his cabinet of advisors, the progressive stockman will be able to produce an animal of whatever color, size, shape or style he desires.

veloped through careful selection of similar types over a period of room that will seal in all vitamins,

so they may turn out a quality product for the supersonic inter-

This will be possible by applying methods already far along in experimentation and practice. When the desirable parents of a certain type of beef animals are selected, it will be possible by artiplantation to produce an entire herd of calves from these same two parents within a year.

The possibility of introducing characteristics of certain other animals by crossbreeding with cattle is fascinating but that doesn't seem likely to occur in the foreseeable future. For example, the report that a Texan had crossed a bear with a Hereford to produce a Bearford that will hibernate all winter to save costly feed is without foundation in fact.

Built In Homogenizers?

So is the story of the fellow who crossed a Guernsey cow with a camel to produce a Cowmel, an the Democrats get back into the animal that would store feed in her hump during lush seasons and need to be milked only once a week.

However, it is possible, due to ties for rights to water resources the current strong demand for will be settled by the simple process of scientists being able to debe developed that will have builtliver rain in any amounts when in homogenizers, so there will be no cream or butterfat in the milk sold to the public, thus saving

> Like the short-lived wingless chicken of a few years back, the legless beef cow might become a reality but the added problem of installing endless belts in pastures offset any advantages that might seem to exist.

> Whatever they may look like, there'll still be cattle on a thousand hills 50 years from now, and there doesn't seem to be any way to teach them to come in of their own accord at roundup time.

However, the successor the modern electric fence will be widely used to solve that problem. When noted earlier, we will challenge its popularity. The next 50 years may become the age of synthetics, but them) he'll simply throw an invisible electronic lasso out over the range and gradually close in.

He Has Everything

The farmstead of the future will be a paragon of convenience. The up-to-date farm of 1953 has everything that modern genius and industry has been able to devise, including several items not found in urban homes, and that is only the beginning.

In the future, when the vegetables, meat and other products are carried to the kitchen by the belt conveyor, the homemaker will not have to spend days processing and preserving them. She will have only to place them in the hopper of her all-purpose food processor and set the proper controls for po-There will be two great schools tatoes, cantaloups, spinach or thought on this subject. One will what-have-you. The machine will be those who adhere to the present then automatically sort, wash, peel idea of a "breed of livestock," deif needed, cook as desired, package

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Push-Button Farming Next

CONTINUED FROM PAGE 9 on the market because no way has lior's basketball games. yet been devised to make the ma-

The gadgets that will grace the farm kitchen of the future will be a housewife's dream. Some of them will be so utterly useless that the little woman wouldn't even buy one from a hawker at the state fair. This culinary utopia will function, by the cook placing a recipe and designated ingredients around a mixing machine, setting the controls and then watching the appetizing dishes of food come out ready to eat. It will be cooked electrically without heat, and the electricity will be obtained from the atmosphere by a static-gathering machine which is still secret and cannot be described here.

There'll be no dishwashing, because everything will be prepared in disposable utensils. Neither will there be any clothes washing or ironing. Wearing apparel will be fabricated on the farm from farm frequency at 2 a.m. products so economically that each garment will be discarded as waste material after it has become soiled-if it ever does. Naturally, it will be water-repellant, wrinkleresistant, non-shrink and stainproof.

always imagined they wanted to the next township. do. Many changes from present

Spit-and-Whittle club or with Jun-This will be especially helpful

Just as the whoop-and-holler chine distinguish a potato bug from magneto party-line telephone has become obsolete, so will today's instruments that utilize wires and monthly bills. The radio frequency which will be assigned at birth to each person will serve as his communications system. He will be able to use it direct within a reasonable distance, or by relay stations to talk to Japan. That is, providing he speaks Japanese.

If the farm woman wants to talk to her husband down at the barn. or to her neighbor on the next a problem. ranch, she need only flash their respective frequency and begin talking. For formal conversations, of course, there will be three-dimensional personalized television so that each may see who he is talking to. It may be assumed that a shut-off apparatus will be provided for Papa down at the barn in case Mom talks too long, and for the visual conservation if somebody should get the wrong

The small fry of the future will enjoy farm life immensely. The time of their forebears either will be unnecessary or will be done automatically by machine. Neither will the youngsters have to go to All of these conveniences will school, except to play basketball, give the farmer and his family take examinations or to get acmore time to do the things they've quainted with the good-looker from

old-fashioned farm customs will be lessons will be learned at night. As the pupil goes to bed, he will Sunday. In the future, the farm ing the night will fix the facts and about farming. work will take only a couple of methods perfectly in his mind so

fere with Pop's attendance at the magazine and read them to him, ter of when.

when he is reading highly technical material, because it also will explain the big words scientists like to use. How will you keep such well-in-

formed persons busy and happy on a farm that takes so little labor to operate? Well, there won't be any place on such a farm for a person who isn't lazy. This opens up a whole new world of opportunity for today's hired men. And also for a lot of newspaper people. To a person who is naturally lazy, happiness on such a farm won't be History shows that a large proportion of our greatest leaders have been men who grew up on the farm. One of the encouraging aspects of the future is that farm boys will have more time to be leaders. Besides helping to solve

In addition to services performed for active farmers, the farm organizations will provide outlet for the social energies of the farm woman and will maintain an old folks home for retired farmers so chores that occupied the valuable they can spend the 50 or 60 years of their retirement playing golf and reminiscing over the days when farming was hard work,

farm problems, the farm organi-

zations they belong to may create

a few, just for the fun of it.

Farmers not only will have plenty of time to take an active interest in civic affairs in their own state, but because of almost instant transportation, they will be This will be possible because the able to participate in matters of the universe.

By thus enlarging the orbit of In the past, the farm family plug a tiny device into his ear, their travels, they may bring back worked five days, went to town on turn on a recording of the geog- from Mars, Venus or even Pluto Saturday and attended a dinner-all-raphy or history lesson and go to some new plants to grow, or perday with singing-on-the-ground on sleep. Repetition of the lesson dur- haps some startling new ideas

That, in brief, is what the farm days a week (in the busy season, that only honor roll grades may of the future will be like. If you that is). The 5-day weekend will be seen on his report card. The have any doubt about any of become a reality. Mom's home later he sleeps, the more he learns, these things actually taking place, demonstration, quilting and con- This same method may be used just ask any 7-year old member versation club can meet three by his father for studying improved of the Supersonic Space Patrol in fimes a week, and who knows, farming methods, except that he your neighborhood. To them it they might even get a quilt quilt-will have an additional gadget to isn't a question of whether these ed. Farm work will no longer inter-scan pages of his favorite farm things will happen. It's just a mat-