0th Anniversary of Agri. Extension Service

farm boys and girls, by the United States nt of Agriculture, was than 1,700,000 rural irls, between the ages 21 years, comprised rship of this organ-1952. The total memt the present time now two and one-third mil-

first 4-H Club in Texas nized in 1908 at Jacks-

rural young people, d as an integral part Co-operative Extension ns co-operating.

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citizenship, and a sense sciences. nsibility; to afford to "learn by doing:

he state extension servperation with the Ex-4-H camps, club picnics, exhibits, fairs, and

guidance of local volleaders, each member ose and carry out an iral or home economics This may be the growcrops, raising of liveoperating farm equipacticing soil conservaany other farm work. ing, caring for youngor problems in on and exhibit the retheir work at their lo-

ters of the four maons of the club pledge, state or private agencies. "I pledge my clearer thinking, my greater loyalty, my larger service, and my community, and

ing 177 acres.

THE FIRST

There came a time when one wiser than the rest, or possibly by chance, saved seeds through the winter. By poking the seeds in the earth when spring came, he had a garden — the first one in all history. It gave this man a little more assurance than any human being had had up to that time that he and his family would have something to eat when winter came again. Also, it kept this first farmer at home. He didn't roam restlessly from place to place. He waited for his crop to ripen and to be harvested. In some such way was agriculture born many thousands of years ago.

This first garden and others like it probably came about in such a warm fertile river valley as that of the Nile. Tigris, or Euphrates, or along one of the rivers of China or India. Along these rivers soil and climate were such that grain grew lub work is a voluntary, well in the rich sediment left d, educational enter- by the yearly floods. Many people could be fed from the products grown there.

Co-operative Extension These simiple beginnings as shepherd and farmer started nt of Agriculture, the man slowly stumbling toward cleges of agriculture, civilization. When a man becounty extension or- gins to own land and animals or begins to cultivate crops that inctive educational ob- require time for ripening, he are: To help rural boys needs laws to protect him in to develop desirable the ownership of property. A d standards for farm- settled life gives him free time nemaking, community in which to develop arts and

For thousands of years these astruction in farming two cultures progressed: the aking; to provide an growing of plants and the raising, or husbandry, of livestock. e value of research; At what dates each of the grassrains now known was they may increase developed or made tame, no aments and, one can be sure. Neither is it ciated efforts, bet- certain how long ago the jungle solving rural prob- fowl of Asia was first caged develop habits of by man, who captured the first iving, to provide in- wild pig and kept it for future and direction in the use, nor how long it has been use of leisure, and since the ancestors of modern worthy ambitions and cattle ran wild in western Eurcontinue to learn; ope. Items found in old graves and to demonstrate give modern man some idea of esigned to improve what grains were raised and agriculture and eaten in some countries long

Wheat and barley were first der the general direc- raised; then peas and beans, and perhaps cotton and rice. Farming methods were crude. ervice of the United Plows were forked sticks, held partment of Agricul- in the earth by the plowmen ervises the organiza- while lurching oxen dragged 4H Clubs. He guides them slowly forward. Slaves ation of the club pro- smoothed the ground with or the year, supplies crude wooden hoes. Seed was federal bulletins, con- scattered over the surface of h members of the coun. the ground. Sheep were driven bub council or commit- on the fields to press the seed the local club leaders, into the soil, or the seed was covsuch gatherings as ered by dragging branches of trees over it. Until the seeds had taken root, women and chilent days, and evaluates dren frequently guarded the Its at the close of the newly planted fields from the

Agricultural **Research Service**

The Agricultural Research made of the effectiveness of tasks, such as caning, caring for young, United States Department of techniques in most countries Agriculture, conducts research were being revised with conser-Members and regulatory programs form vation of soil and water the erly carried on by the Agricul- chief goal. And, especially in tural Research administration tropical regions, there was a in the fields of livestock, crops, new understonding of and inprojects may then farm and land management, huat county, state, and man nutrition, home economics, conservation treatments to soil and utilization of agricultural and climatic conditions through and utilization of agricultural and climate conducted scientific products. Much of the work is carefully conducted scientific carefully conducted scientific co-operative with other federal, experiments and field tests. In

day produces more than five before studied from the point times as much food and other of view of conservation. th to better living for crops, as it did in the period of from 1919-21. Crop production expanded greatly in the United per acre is 70 percent higher States. By the end of the 1953and the output per breeding 54 fiscal year, more than fourthe early Mexican col- and the output per breeding of Texas faminal is 90 percent greater. fifths of the farms and ranches, fifths of the farms and ranches, Texas, farmers enStephen F. Austin farm worker now produces

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Texas, farmers enStephen F. Austin fa received a "labor" of food, fiber and other farm coma Spanish land with farm worker now produces in organized soil conservation in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation of the nation's privately owned light and the partly in organized soil conservation or the partly in organize a Spanish land unit modities for himself and 28 districts. The needed conservation of the nation's privately owned against starvation of the nation's privately owned against starvation. other people.

Natural Born Tinkerer . . .

Farm Boy's Favorite Toy—1935 Tractor



Off with a roar. To start the 1935 tractor, Rollin and his 13-year-old brother, Roy, wind a length of rope around the belt pulley and yank. Though not recommended, the method works.

trying them out on his favorite bers. -a farm tractor, vintage

rented for grazing the Heifrin family's three horses. Spade lugs for the tractor's big iron wheels were found in a nearby shed. He put them on and spent a month anything he makes up his mind reconditioning the 29-year-old rig to do." with the help of local garage mechanic, Billie Schultz. Even his mother pitched in to

square bolts.
"With the new coat of paint I

just gave it, the old Allis-Chalmers looks pretty good," said Rollin. "It runs good, too, except that the transmission must be worn because it seems to 'hang' in third gear."

In Milwaukee, Wis., the manu facturer dug out an old oper ator's manual and parts book from its archives to make er for him to work on the

starting the engine. Instead of using the hand crank to turn it of rope around the belt and then pulls hard and fast to fire the engine. Though highly unconventional, the method

With the old tractor, Rolling and his 13-year-old brother, Roy farm 97 acres of rented land Earnings from crops of oat wheat and hay, and from the put aside for their education. Born in Weatherford, Tex. Rollin's interests in farming

HUTCHINS, TEX. - Like | Hutchins. Since moving to rural | you'll find him a little while later which has about 2,500 4-H mem-His father now manages the

grain elevator at Lancaster. Rol-In 1962 he found it parked in lin has an older sister, Kathlene, the weeds on some land he had Darrell Brown, assistant (Dal-

las) county agricultural agent, says of Rollin: "Chances are that he will go to the top in almost

His vocational agriculture instructor at Wilmer-Hutchins high school believes he is one of help him find odd parts such as the best students he has had in 21 years of teaching.

HUTCHINS, TEX. — Like Hutchins. Since moving to rural Besides being able to maintain many youngsters, 15-year-old Hutchins, the youngster is extended the antique Allis-Chalmers traction the firm is a natural born tremely active in 4-H Club work. The state of the control of of the cont tinkerer. Give him a shiny new He was chosen one of the top good driver. He took first place set of wrenches, and chances are three boys in Dallas County, in the Dallas county tractor driving contest in 1963, and went on to place second in the 19-county district meet. He ranked 10th in the state contest and was the youngest entrant.

Rollin takes special pride in a limerick he wrote for an English

I love my tractor with all my I hope that we will never part.

The engine it misses, It fires and hisses

I just hope that next time it will start!



Only 29 years old and still going strong. Discussing fine points of the Rollin's interests in farming dates back to a dairy farm his father, Roy, operated near the Allis-Chalmers model is used in Rollin's farm operation.

AGRICULTURE

By 1954, about 40 countries of the world had organized programs for carrying on soil conservation work. Although some were still handicapped because of lack of sufficent numbers of trained conservationists, or economic or political difficulties, there was no apparent inclination to abandon any of the important projects or objectives.

A broadening of conservation objectives appeared to be the most outstanding development of the year. Many studies were a few instances, new conservation techniques were develop-One hour of farm labor to- ed to fit land conditions never

> Soil and water conservation tion treatments, as determined agricultural land.

Agriculture is the oldest and greatest of the world's industries. It provides man's food, most of the fiber for his clothing, and much of the material for his buildings.

The art of tilling the soil and of keeping livestock has been and passed upon to protect the developed through thousands of years, how many, no one knows. Until man learned to farm in some simple way, there could drainage, buildings, machinery, be no civilization. His time and strength were taken by the struggle to keep alive. People lived in caves, in trees or where ever else they could escape their many enemies.

Man's worst enemy was starvation. He was first of all a hunter. He depnded mainly on the animals he killed for food, clothing, and for the materials with which to make his shelters.

He gathered wild berries, fruits and nuts. He learned to use some roots for food and medicine. Tribes wandered in whatever direction food might be found. There was nothing to hold them in any one place.

Many people believe that man tamed animals and raised animals before he learned to plant came first. It is certain that as found it necessary to cultivate food plants and to tame wild animals as a source of meat, hides and milk. In mountainous

The Department of Agriculture helps agricultural groups of the nation. It is one of the most scientific of all the departments. Many experts conduct experiments and make studies. Their findings are passed on to farmers. Animal diseases, plant diseases, and insect pests are studied. Many classes of foods and drugs are examined people from impure or dangerous articles. Farmers are advised on problems of farm and water supply.

The Department of Agriculture tries to adjust he production of crops to the demand for them so that there will be no great surpluses or shortages.

Almost a million persons in the nation suffer from epileypsy the nation suffer from epilepsy.

Grasshoppers can leap ten times as high as they are long.

The Alamo Cenotaph, located in front of the Alamo, was erected in 1939 by the U.S. Texas Centennial Commission.

Dr. J. R. Schwarty, a New York dentist, carves ivory as a hobby, using dental tools.

seed, but no one knows which or hilly lands, where the soil was not fertile, goats and sheep the population increased, man were raised. As the grass in one could be moved in flocks to der to look after his herds or flocks, man gave up some of his freedom to roam, but gain-

Farming In The United States

th of a wide variety of crops. soil as they went. When the ers. fields no longer yielded well they went on to new land and Stations are strategically lo-used it badly until it, too, became unproductive. There were exceptions, of course. Some farmers protected their land and better crop seeds and from erosion by rain and wind, better methods of farming and fertilized their soil. But and ranching. Many crops waste was the rule. It went on and grasses have been daptunitl all of the country's virgin ed to areas where it was land had been settled.

Later, farmers began to take measures to preserve the soil. In some places as much fertility was added to the soil as was lost, and an ever increasing number of farms actually became more productive.

sion remained a problem. from their soil.

Many farmers took pride in The County of plowing long, straight furrows, corn field or where potatoes, were grown, too much soil was exposed to the action of the

water can be reduced to a minimum. The first step is to take steep land out of cultivation and plant either trees or grass. procedure. The second is to get rolling land

every third or fourth year in years ago. each field, with close-growing small grain and grass crops grown in other years, farmers

Farm **Co-operatives**

To lower their selling costs, for many years doing co-operative marketing. They have built their own grain elevators in which to store their grain so that nobody can speculate on it. The fruit growers of south- Clubs and assist them much ern California sell their fruit the same as the County co-operatively. They have selling agents in the East who aid them in getting a good market for their fruit. Various other co-operatives have done well for their members, particularly in crops requiring skilled handling in transit and marketing.

prices for the produce during dairy heifers, swine, sheep the depression which followed and horses. World War I. Some agricultural leaders felt that the problems of farmers brought about by these low prices could not be met by farming guided simply all phases of home economby agricultural research and ics. education. To meet special needs. federal government units commonly calld "action" agencies were set up - the Agricultural Adjustment Administration, Farm Security Administration, Soil Conservation, Commodity Credit Corporation, Agricultural Marketing Administration and several others. These agencies were largely based on the lending or paypasture was eaten, the animals ment of money to farmers in return for the adoption of cerseek new grazing lands. In or- tain recommended farm practices. Most of the agencies were started after 1933. Some were believed by many people, to be permanent, but others ceased operation or were substantially changed in later years.

One of the greatest services offered in the State is that of the Agricultural Extension Service of A & M University. This is the 50th year farmers and ranchers In the United States there have benefitted from this was an unlimited supply of virgin, or untilled land in the earlgin, or untilled land in the earlafter the Extension Service iest days of settlement. The was inaugurated, the first climate was suited to the grow- 4-H Club was organized in The very early settlers swarmed Jacksboro, Texas, as an aid to the frontier, exhausting the to young farmers and ranch-

Agricultural Experiment cated all over the state. Their task is to develop new not thought possible they

would grow satisfactorily. County Agents, using information gathered from the Experiment Stations nad the Extension Service, work with farmers and ranchers, In some areas, however, ero- helpnig them to get the most

The County Agent is busy some of which ran right down in the field, helping with hills, aiding the flow of water plans, giving advice and not-when it rained. Then, too, in a ing the results.

Wichita County has some tobacco, and rows of vegetables 750 farmers, which is a big size group to ride herd over. However, all of the work

In recent years, under the in planning is not left up guidance of the Soil Conserva- to the County Agent and tion Service, definite commun his assistant. Farm men and ity programs have been set up women of the county plan a so that waste of both soil and program of work, with the County Agent as coordinator. All counties follow this

According to B. T. Haws, farmed on the contour. The County Agent, more farmthird is to make sure that all ers are using fertilizers than land is farmed in accordance any time in the history of with the principle of crop ro- the county. And the results Farmers must, of course, raise are highly gratifying. Avera good many acres of corn, po- age yields of farm crops tatoes, tomatoes, and other in this area have gone up clean-cultivated row crops. But and up to yields that were by growing the cultivated crop not believed possible a few

Ranchers have progressed right along with the can usually keep soil losses farmers. They have found out that better sires bring better offsprings, which grow faster and produce a profit much earlier. Improved practices with grass land have paid off in more and better feed for livestock.

Bob Wuzbuch is assistant agent to Mr. Haws.

Miss Thelma Wirges is the wheat farmers have been County Home Demonstration Agent. Miss Sandra Herrill is her assistant.

The H. D. Agents work with Home Demonstration Agent assists farmers and ranchers.

The County Agent also works with the Boys' 4-H Clubs, while the H. D. Agent works with Girls' 4-H Clubs. 4-H Club boys' projects

The farmers received low include feeding beef steers,

Girls sometimes work on some of the above projects, plus clohting, cooking, and

Pasadena, Texas, is a Spanish name meaning "Land of Flow-

At least 32 Texas streams are known as Spring Creek.

Texas is the leading agricul-

tural state in the nation. Captain Cook reported find-

ing Jade in North America. Chinese office buildings have statues of fierce dogs or lions at the door to scare demons.

Trained elephants recognize 20 to 2 different work commands.





Mesquite. which is becoming a problem in parts of Texas where is was previously un- with a fine emery cloth, giving known, is sometimes spread by special attention to scuffed animals. Animals transported peeling or powdery places. It from infested areas carry the you want to oil the leather, apmesquite beans in their digesply the oil next; oil can't be tive systems. Confinement of applied after leather is lacqueranimals to a drylot for three to five days after they arrive with a leather dye if ncessary. in a new area will allow mesquite seed to be eliminated the market in aerosol bomb and from their systems.



Those valuable old books you nherited or bought at auction Do they have leather bindngs that are slowly disinte-

If so, take a tip from Thelma Wirges, county home demonstration agent and give them lacquer treatment. Lacquer will improve their appearance and postpone, perhaps indefinitely, the necessity for rebind-

Here's how — from leather specialists of USDA's Agricultural Research Service:

Gently rub the leather smooth ed. Touch up light colored areas Ready made lacquers are on liquid forms. The areosol spray

4·H CLUB







among the many planned tasks.

They should analyze to see how

time, and if they have hte cor-

rect environment. Interrupa-

Time is available for all and how well it is used to ob-

tain daily goals depends on

serving as a storage demonstra-

lity closet and later kitchen

Classified Acs Get Results

NEW COTTON

Insecticide

LASTS FOR

EIGHT WEEKS

he plant-especially to the new terminal growth

that early-season cotton

Mrs. Floyd Stermer is now

Reagan Brown, sociologist for the Texas Agricultural Exten-Service, has announced gressive Farmer may that the "Texas Rural Minister the Texas Town and of the Year Award" will again be made in 1964. Its objective is to honor those ministers who to honor those ministers who award Brown and contribution outstanding contribution award Brown and Recommendation award Brown a are making outstanding contri- award, Brown said

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easier to use. Be sure the ed productivity immediately, or lacquer is recommended for it may be a matter of "A Stitch leather, cloth, or other flexible in time saves nine." An hour material. Spray or brush on thin for planning early in the day coat, let dry, apply a second may be worth more than later

Lacquer protects leather bind. is divided. ings very well. However, it does | Homemakers also need to dechange the natural leather ap- termine if they are providing a pearance, giving it a rather balanced distribution of time shiny finish.

They give off vapors and fumes effectively they are using their which ignite easily and burn freely. Apply them in the open or where fresh air circulates tions by telephone calls and vis-Keep away from fire. itors can change the work schand don't smoke while using edule considerably

Time management is a problem for many people. They wor- each individual, the agent says. ry about failure to get things done, without making a plan for better use of time, says tor. Mrs. Stermer has plans for Thelma Wirges, county home organizing a sewing center, utidemonstration agent.

Time use can be analyzed in storage. This organization will terms of the familiar questions save time, energy and effort of what, where, why, who, and in homemaking activities. now," she says.

Persons interested in improving the use of time should plan complish it. Where they spend tion of place, and a worthwhile well-arranged work area can save considerable time.

Knowing when to do things may pay off in terms of increas-



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Ticks that haven't dug their way into your hide(or your dog's), can be removed by plastering them with adhesive or cellophane tape. It binds the little buggers and holds them while you throw away.

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Old Methods

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Improve Slowly On The Farm

threshed by fails or by driv- After World War I, many of ing oxen back and forth over the large estates of Europe the grain. Improvements in were broken up. farming methods were slow. Old systems persisted for centuries. It is said that a grain farmer from the fields along the Nile of 8,000 years ago, transplanted to an American wheat field in 1800, would have found himself familiar with most of the work.

Methods of cultivation were very primitive. Nevertheless, some ancient peoples came to and the things it could be made to produce. Books written beforce the time of Jesus Christ tell about the fertilization of the soil, crop rotation, soil drainage, and irrigation. They explain how to cultivate, harrow, and weed, and how to select seed for planting.

In Europe, agriculture was developed by a system in which great areas of land were held by the ruling class. Work on the land was done largely by slaves. Later, the landowners lived in towns and left the work of farming to slaves and serfs. When feudalism went out, a system developed in which free tenant farmers took over the

work on the land. Under this system, peasants either work the land for the owner for a share of the crops, or they pay rent and own their own pro-duce. A farm might be held for a long time under one lease, even for generations of the same family. In France, Denmark, England, and several other countries, there came to harvest time the grain was be a strong middle class of with crude sickles. It was farmers who owned their land.

> of Agriculture was established in 1862 for the purpose of encouraging and spreading knowledge of agrculture among peo-

IT'S UP TO YOU

Howard E. Kershner, L.H.D.

RUSSIAN youth are writing letters to Radio Moscow defending their right to believe in

God. The discus sion was started by an eleventh grade girl named Tania who sent a let ter to the radio editors informing them that she believes in God and that she is offended when people laugh at her. "Why is it

Tania, "that believe in God?"

Tania's letter invoked a wide response, and the radio editors continue to receive many let-ters from young people such as the one from Oleg Obalensky an eighteen year old "believer" from which we quote as follows:

I graduated from high school, but after completing the entire school curriculum, I cannot (as you express it) free myself from "religious prejudices," surprising as that may appear to you. I con-tinue to believe in God. Of course you, as usual in cases like this, will dispute my religious belief.
Prepared for that, I will warn
you that together with my faith
in God I also have faith in the new discoveries and achieve-ments in the world of science and technology. If you are astonished that I have faith in science and technology, then I will ask you: Has not science proved that the world is an infinite universe? It is known to everyone that the cosmonauts and the rockets never penetrate beyond our solar system. Even when they may eventually penetrate other systems they nevertheless will encompass only a very small fraction of the immensity of the universe. The universe never will be bounded.

I write you all of this to show you that God is not some sort of an effigy which sits in the seventh heaven and manages the affairs of the world. I want to tell you that God is incarnate in people, as well as in everything that sur-

In religious discussion one always reaches for help to the Christian Bible . . . Let's not laugh at believers.

Howard Kershner's Commentaries, Inc., New York 19, N. Y.

Chemurgy Aids The Farmer

Chemurgy is the development of industrial uses for agricultural products. Through chemistry, millions of tons of farm wastes are being turned into valuable products. After the oil is taken out of cotton seed, the remains are used to make fertilizer and other important products. Cornstalks may be used for many purposes, such as making fiberboard and other building and insulating boards. Research men find that plastics as strong as steel can be made from soybeans, milk and other farm products. Such plastics are suitable for articles that range all the way from buttons to automobile bodies. Acted on by bestroic protects by bacteria, potatoes can produce alcohols for which there is much use in industry. Grains are also fermented to yield industrial alcohols.

Chemurgy has been important in the devolopment of synthetic, or artificial rubber. Corn is used to make the alcohol needed for rubber, as well as for smokeless powder. The guayule plant is raised to use in rubber manufacture. Milkweed floss is used to make fillings for life preservers, and its seed is used for oil. Peanuts have been used by chemurgy in the manufacture of many articles. Chemists have learned how to use the sawdust from lumber and many other articles formerly wasted. The income of farmers has been greatly increased by the sale of articles to be used by chemists in making new products.

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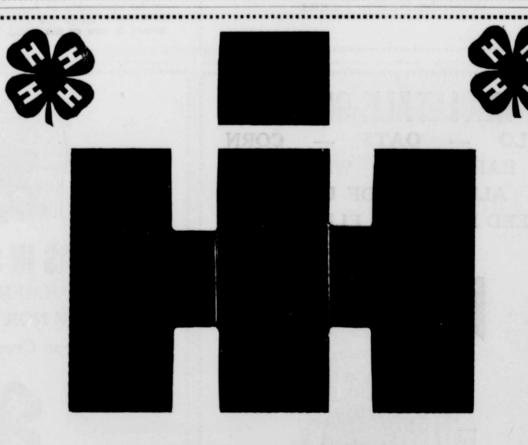
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Do you have the idea that | convenience foods are more expensive to prepare than their old-fashioned counterparts? .A. recent USDA study showed that such things as instant coffee, frozen orange juice con-centrate and cake mixes are actually less expensive than ground coffee, fresh orange juice and homemade cake,

Whether you're counting pen-nies or calories or food values, you can count on cottage cheese Just three-quarters of a cup gives you about half the pro-tein you need for an entire day, the Fairmont Food people re-

Ever wonder how much of the American food supply comes from abroad? Last year, 13 per cent of the total food supply used by civilians in the continental United States was imported. Coffee accounts for more than half the imports.

Americans are eating twice as much sausage today as they did just 20 years ago, according to Armour and Company. Franks, weiners and bologna lead the popularity parade, but with more than 100 varieties being marketed, it's not hard to find one for every taste.

Are you aware that vanilla ice cream and chicken have replaced apple ple and hamburger as the most popular American menu items? The abundance of low-priced broilers and fryers mated at 308,000 tons, 80 per accounts for the latter replace- cent higher than 1962 and 38

Choose New Range With Care— It's a Sound, Lasting Investment

Company supplies us with some information on those inspection

and grading marks that you see on so much poultry. They're two different operations, both carried on during slaughtering

and processing. Inspection is re-

quired by law for all poultry in interstate commerce, to deter-

mine its wholesomeness. Poul-

try grading determines its level of quality and about half of all poultry sold is federally graded.

You may want to stock up on beef for the freezer in the near

future. The number of cattle on

feed January 1 was less than a

year ago and prices may be ex-pected to advance by March.

Potato processing operations continue to grow. One of the largest processors in the coun-

try, Ore-Ida Foods, Inc., says

that only 73 per cent of today's potato crop is sold in its natural unprocessed state. Potato chips,

frozen french fries and other frozen forms and dehydrated

products take better than a

The National Cotton Council

reports that more all-cotton

stretch fabrics will be seen in

ready-to-wear sportswear this year. A number of major manu-

facturers are featuring gar-

ments made of such fabrics in

It appears that 1963 was a

record year for tree nuts. The crop of the four major edible

nuts and pecans - was esti-

per cent higher than average.

resort and summer lines.

quarter of the crop.

If you're shopping for a new range this year, don't be an impulse buyer. Remember you may be using it for up to 15 years, so take time to look around care-

fully before you buy. This advice is given by Constance Burgess, Extension Home Management Specialist of the University of California, in a new bulletin, "Choosing and Using Your Household Range," who points out that probably no other large appliance offers so many choices of size, style, accessories,

New electric ranges, for instance, may have pushbutton or rotary infinite heat controls. Some have a high-speed surface element that gives instant heat for short, fast cooking at high temperatures. Many new ranges have one or more of the thermostatically controlled surface elements that maintain the right cooking temperature without being watched.

Some ranges have low-temperature controls that turn oven heat down when food is cooked and hold it for several hours at serving temperature. Electric oven thermostats can be set as

improved to be easy to use. Removable automatic rotisseries, automatic meat thermometers, the kitchen stays cooler.









HERE ARE FOUR BASIC TYPES of electric ranges to consider low as 150 degrees, Miss Burgess if you're updating your cooking: top left-free-standing unit with double ovens; top right-high-oven range with double ovens and Although on and off oven tim- slide-out surface elements; bottom left-built-in double ovens and ers are not new, they've been separate counter cook-top; bottom right-ene-piece built-in.

and griddles are also among the Manufacturers of electric range that's easier to clean. features to look for on new elec- ranges point out that many of Appliance manufacturers have

est heat efficiency, which means You may want a double oven, to clean inside and out,

the deluxe features introduced made the new electric ranges As for styles, "New trends in a few years ago are now found easier than ever to clean. Food ranges are exciting," Miss Buron medium-priced models. gess says. "You'll see an amazing Ask yourself what you like automatic controls help prevent array of sizes, shapes, and colors." about your present range and burn-ons and spill-overs, and im-Electric ranges give the high- what would you like to change? proved design makes them easy



HOW TO MEASURE WATER DISTANCES

As a woodsman, you can want to measure. The probably make fair distance very slowly and steady estimates over land. But esti- your heel. Now "read" mating water distances are deceiving. Here's how to do it. Stand straight and pull your brim.

hat brim down until it t far shore of lake or rive e Uni-Syste

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WATER CONSERVATION AWARD

Senator Ralph Yarborough of Texas, right, is host in his Washington office to Judge J. E. Sturrock, left, the 1964 winner of the Department of Interior Conservation Service Award. In the center is Harry Eurleigh, head of the U.S. Bureau of Reclamation Office in Austin, Texas. The award was presented by Secretary of the Interior Stewart Udall for Judge Sturrock's outstanding contributions to conservation goals. Judge Sturrock, general manager of the Texas Water Conservation Association, is from Austin. Senator Yarborough, a Vice-President of the National Rivers and Harbors Congress, said, "Some of the major achievements in water conservation in Texas are directly attributable to the leadership of Judge Sturrock and Texans like him who have made the state's future their business." The award is one of the nation's highest.

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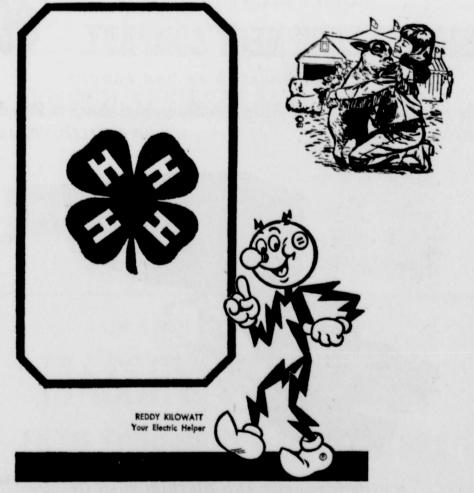
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The first flour mill in Wichita Falls was built in 1884. The predecessor of the recent General Mills plant was built in the early 1890's, near the old Wichita Valley Railroad tracks. In 1896, Frank Kell, J. A. Kemp and M. Lasker purchased controlling interest in this mill. After a diastrous fire destroyed the structure on December 16, 1900, the owners rebuilt on the tracks at the foot of present 10th and 11th Sts. In 1914, Frank Kell, having privately gold his interest in

rebuilt on the tracks at the foot of present 10th and 11th Sts. In 1914, Frank Kell, having privately sold his interest in the Wichita Mills and Elevator, built and began operating the elevator that has been continously serving the public at 18th Street between Bluff and Burnett. He added the present flour mill structure in 1917-18 and then merged it into the newly formed General Mills, Inc., organization in 1929. A second elevator structure was built at the present location in

Fifty years of service to the grain producers of the Wichita Falls and Burkburnett area have been very rewarding to General Mills. Inc., as well to to their friends in the community. In co-operation with the Extension Service and the 4-H members who will soon be their friends and customers, they are confidently looking forward to many more years of growth for the Top of Texas.







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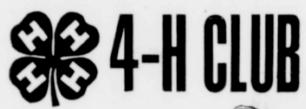
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U. S. Department of Agriculture Works With Farmers & Ranchers

their own tests of new crops. For this reason the United States Department of Agriculture, the experiment stations, and the knowledge or development ers. state extension services pass which will improve farming or along to farm people the results farm living. of their tests. They keep a large staff of scientific experts, and the story of their discoveries fills many books.

The Department of Agriculture was established by an Act of Congress of May 15, 1862. This department has many divisions, each doing research or helping in some phase of improving agriculture. It has an Plentiful Foods annual appropriation of many millions of dollars. This money is used largely to work on ag ricultural problems affecting the entire nation. It also handles problems which require money and equipment no one state can supply

A great deal of scientific experimental work is done by the Service. experiment stations of the state Lincoln signed the bill making possible the first "land grant" agricultural college to teach the science of farming and related subjects. Now every state maintains at least one such free institution, where men and wogent work upon the land and ral life. The regular four-year course leads to the degree of B. S. Two or three year courses are also available, and agriculture is a standard subject n many public schools of the

THE EXTENSION SERVICE The college extension service of people trained in the science of farming and keep up-to-date on new developments. They are also in touch with farm people and are able to supply answers for their questions. Some colleges have an accoutancy department with experienced bookkeepers who help the farmers. The bookkeeper or accountant, goes over the farmer's books, and analyzes the figures with him. The farmer thus knows, like any careful businessmen, where he has lost money and where his business has been most profitable. He can plan fu ture work accordingly.

A most beneficial phase of extension service is the countyagent system, which has now become a county-wide instituarmers of the county, and is paid from federal, state, and county appropriations. He will est a farmer's soil and tell him what sort of fertilizer it needs



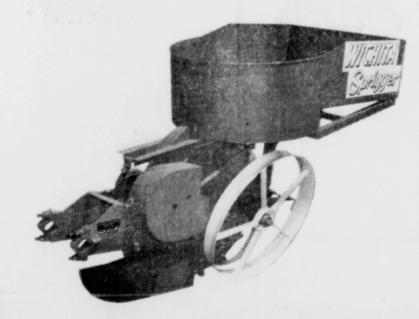
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WICHITA SPRIG HARVESTERS

Very few farmers find it He holds demonstrations of new altogether practical to make farm practices. He tells the poultryman where they can get the sort of breeding stock they tion Tuesday, April 7, to need. He acts as messenger to elect three City Commissionagricultural colleges, the state bring to the farm any new

April Brings Shower of

Agri. Extension Service COLLEGE STATION, Texas-

April brings a shower of foods, along with traditional rain ,...... showers, as seven foods are especially plentiful, reports the Agricultural Extension

Such items as beef, cottage cheese, eggs, rice, canned ripe olives, dried beans and canned corn are expectd to be abunaccording to the Agricultural Marketing Service, the U-S. Department of Agriculture agency that compiles the monthly list of pentifuls.

Egg prices paid to farmers between mid-January and late February. April supplies are expected to be above those of a year ago, with prices below last year's attractive retail level. As of January 1, canned corn stocks were at a record high, and heavy supplies also should be much in evidence during

Substantial January-to-March increases in the number of fed beef cattle have resulted in a much larger meat supply.

Creamed cottage cheese production is expected to exceed last year's 878 million pound record. Dry bean production netted a record 12 percent crop and the possibility of a record canned olive supply make these big items for April. Most of these foods are pro-

duced extensively in Texas, says the Service. Foods listed as "pentifull' by AMS are expected to be more

than adequate to meet normal

Good Eggs Rate Lots Of 'T.L.C.'

trade needs.

There's nothing so all-purpose as an egg. Eggs have been sculpted, thrown, worn, used in painting, hidden and rolled at Easter, and hung on trees at Christmas. But mostly they're

Soft-boiled egg yolk is baby's first solid food, and eggnog-with or without "an ounce of bounce" -may sustain him in his old age. In between, he eats thousands of eggs - boiled, fried, scrambled, creamed, deviled, shirred and souffléed, to say nothing of the hundreds of foods eggs are mixed into-ice cream, cakes and pan-cakes, meat loaf, mayonnaise and Hollandaise, for instance.

Nutritionists recommend an egg a day for everyone because they're high in protein and sup-ply iron and vitamins A and B-2. And they're inexpensive to serve.

There's only one drawback to eggs-they're delicate. They need tender, loving care.

"If you submit eggs to high temperatures, the value is destroyed," says Adelle Davis, renowned nutritionist, in her book, "Let's Cook it Right." And any homemaker who's had a souffle fail or a custard separate can tell you that temperature is vital in egg cookery.

That's why homemakers find eggs and automatic electric ranges a natural go-together. Accurate heat controls and automatic timers on today's electric ranges take the trick out of egg cookery. Even beginning cooks, with the help of a good cookbook and a new electric range, can turn out delectable, nutritious egg

Eggs should be fried or scram-bled in a lightly oiled skillet on a thermostatically controlled surface element set at 250-300 degrees. For poached eggs, water with salt or vinegar added should be brought to a boil, then the control should be set at 175-200 before the eggs are slipped in.

When making a soufflé, custard, angelfood cake or other egg dish in the oven, the housewife with a new electric range has only to follow the recipe carefully, set the oven control at the right tem-perature and the timer at the correct cooking time. She can be assured that the food will turn out perfectly every time, with no failures from uneven heat.

3 To Be Elected **City Election** Tues., April 7th

There will be a City elec-

Three persons, all incumbents, appear on the ballot in the following order. JACK ALEXANDER

MRS. P. A. CARPENTER JAMES E. FRYE

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UTH MUST KNOW:

ollege Education Costs xpected to Double by '70

parents are able to finance these costs than ever before.

ad parents are addy of source materials by the Savings Banks Association of New York shows that a college education is certain to cost more in the future, with experts e shows that by 1970, costs of tuition, books, fees, room and board expenses will dou-And, they point out, these costs have just about doubled since the end of World

What is significant, the ex-

Another major source of

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each with the annual worth of

from \$250 to \$700, depending

A recent and successful de-

velopment in college education

financing is the student loan

through a financial institution.

up a guaranteed loan system.

with low interest rates to be

paid, along with the loan, after college graduation. In New York

State, the Higher Education

Assistance Corporation, created

by the legislature and adminis-

tered by leading citizens, has

underwritten loans made by fi-

nancial institutions of the state

to more than 104,000 students

since it began operations in

June 1958. These loans have to-

SAVINGS BANKS PLAN

No interest is paid on the

money borrowed by the student

while in college. After gradua-

tion, he then pays 3 per cent

interest and has up to six years

cial institutions are cooperating

in the HEAC program. A typical

viewpoint was expressed recent-

ly by Charles W. Carson, president of the Savings Banks As-

sociation of New York State and also president of The Com-

munity Savings Bank of Roches-

ter: "It's a good plan, not only

from the student's point of view, but also from our coun-

try's, for no greater contribu-

tion can be made to our state

and nation than to lend assist-

ance to our young people who

seek the benefits of a higher

education.'

Most New York State finan-

taled nearly \$78 million.

to repay the loan.

A number of states have set

Many states, through acts of

perts note, is that paralleling

full, four-year college education at a private eastern college today costs about to \$10,000; and at a university from about

Education predicts, a college education at a private school will cost from \$14,400 to \$20,-000, and at a state university 1970, the U.S. Office of | from \$9,600 to \$12,800.



rd total of foreignentered the United iring 1963. This sur-e old record of 4.4 milillion tons imported in shown in this chart by American Iron and

ed in-lified

those

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MILLIONS OF NET TONS

imports were rising to high in 1963, U.S. extayed at about 2.0 milthe same as the pre-

A record tonnage of 775,000 tons of wire rods were imported in 1963, and hot and cold rolled sheet imports reached 500,000 tons, up sharply from the 1962 total of 174,000 tons. Galvanized sheets totaled 200,000 tons.

Japan retained its position as the largest single source of steel imports, accounting for about one-third of the total. Other major exporters to the U.S. Belgium, Luxembourg, Canada, West Germany, France and the United Kingdom

TABLE TYPEWRITERS:

'more at home than in office'

New York — (HK) — The portable typewriter may become as the of a household necessity in the home of tomorrow as the ne and television set is today.

F. P. Ryan, president of Royal McBee Corp., makers of Royal rs, said a study by his company indicated that the use table typewriters in the home was on the upswing and prethat an estimated 1,400,000 will be sold in 1964. It is esti-that 20 per cent of all homes now are equipped with port-The study also showed that even though the portable is ated with high school and college student use, 40 t of all these writing machines are actually used by people

ong the functions the portable is used for in the home inriting of personal letters by the housewife, typing recipes, ng shopping lists, students doing homework and the busiin who has office work to do after hours. One sidelight of dy: women seem more attracted to the portable typewriters en, accounting for about 60 per cent of the machines in use.

The "Good Old

"Those were the good old days." How many times have we heard these words? What about the "good old days" of

The use of farm animals for by hand and by hoe. Up one row - down the next. Hour after back-breaking hour.

mechanical age: the reaper, in- savings - 85 per acre. vented by Cyrus McCormick, followed by a succession of powered machines to help the farmer increase his productivity.

One hundred years ago one farmer produced enough food and fiber to support five peo-ple. By 1940 he could produce others. enough for 11 people

And then came the chemical age. During World War II our country was called on to help tists were pressed to produce newer, more effective agricultural chemicals to raise crop responded.

tive chemicals are produced, this figure will continue to

What are the enemies of the farmer that these chemicals says. control, Insects, rodents, weeds, and plant diseases - to name

tive, more useful, more profit- tional 4-H Club Congress.

Today, one of the most expensive cultivating practices in farming is the control of grass and broadleaf weeds. USDA estimated that in 1952, weeds cost farmers \$4 billion a year. This high loss figure is attributed to the fact that many farmers are still not making use of the most efficient weed control methods.

Recent reports, for example, indicate that many farmers are still employing both hand weeding and machine cultivation methods to rid their fields of destructive vegetation. Both of these methods are costly for several reasons. Too often weather prohibits either method. Use of machinery presents the

Homemaker's Memo

BY MARY TROY, Homemaking Consultant Jones & Laughlin Steel Corp.

Young America is on the move. Most brides, for example, will move at least three times during the first five years of marriage-and some of them will move as often as every six months.

1. Pack for common sense, not sentiment. Great Aunt Susie may be quite loving about her gift of fragile family teacups, but if you like them, leave them . until the day when you have proper and safe storage space and the teacup life. The same rule applies to fancy linens and glassware suitable only for party use as well as breakables that require extra care.

Pack first for every day: Take all the small appliances you can accommodate: electric skillet, coffee pot, mixer, toaster. Appliances of stainless steel, are durable, good travelers and easy to care for - soap or detergent and hot water, plus a stain. less steel scouring sponge, if needed. When you're on the move you may often find yourself in a poorly equipped temporary kitchen which you can trans-form in a twinkling with versa-

tile portable appliances. 3. Pack for a pretty table. Here, too, you can be practical, and have convenience and beauty at the same time. Good stainless steel flatware, now made in heirloom patterns, survives the mobile years - and the settled ones to follow. Pack it - and re-pack it. It will never tarnish, is easy to care for, and will look. just as good if you want to pass it on to your daughter ..

4. Pack for a slim pocketbook. The first years probably will be budget years. So take along a practical trousseau of linens, sheets and tablemats you can launder yourself with the help of a communal or apartment house do-it-yourself laundry.

5. Pack for a purpose. You'll know in general what kind of a life you'll be leading at first so pack for it. If your bridegroom is in the service and you can go with him, your life will be im-promptu and informal. Take along serving dishes for one-dish meal parties. If your husband's on his way up the business-ca-reer ladder, entertaining - even on the move - may have to be a little more lavish. Certain items, however - like stainless steel serving dishes - are adaptable to either an informal supper or a candlelight dinner.

These are just five hints for the new bride who is packing up her household for the first time.

constant threat of damage to

No wonder, then, that the Days" of Farming search has been expanded for new ways to reduce infestations of weeds which compete with of weeds which compete with desirable plants for food, light and water

A Colorado onion grower, for example, found that his hand hoeing costs were approximately \$35 an acre and had to be done three times a season. The very first season that he used power. The weeding of fields DACTHAL (r) herbicide, he found that a single application was sufficient for season-long The 19th century brought the of only \$20 per acre. The net weed control - ond at a cost

A diversified truck farmer in Wisconsin reports DACTHAL saves him \$500 weekly by eliminating costly hand weeding formerly required. He raises such crops as peppers, onions, cabbage and egg plant among

Drugs and machines touted to cure everything from a hangfeed half the world. Our scien- nail to terminal cancer keep popping up on the market and people keep buying them. False and misleading claims for vitayields and quality - and they mins. minerals, and other food supplements have led millions Today, one farmer can pro- of Americans dosing themselves duce enough for 25 people. And with nutritional nostrums of as newer and still MORE effec- every description, reports the U. S. Food and Drug Administration. It is estimated this racket is costing Americans over \$500 million each year, FDA

President Lyndon B. Johnson has accepted the honorary Chemicals are also fertilizing chairmanship of the National and or amending the soil, mak- 4-H Service Committee, and has ing plants stronger, and increas- consented to the presentation ing plant yield. In short, they of silver trays in his name to are helping the farmer make six ranking 4-H Club members his entire farm more produc- next December at the 43rd Na-



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News From The County Agent

More than 2,000 publications or farmers, ranchers, homeagricultural leaders.

The publications available are written specifically for Texas residents, he said. The range of subjects includes prctically every phase of agriculture and

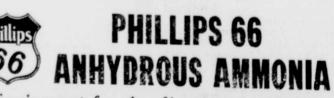
and 4-H Club members are list- during farrowing time because in the latest catalogue or success or failure for the swine publications by Texas A&M Uni- enterprise depends on it says rsity's Cooperative Extension County Agent B. T. Haws. And

each year, is available He offers these suggestions or study at all county Exten- for making the season a success sion Service offices. County ful one. Increase the sow's feed Agent B. T. Haws and those during the last 30 days before interested in obtaining publi- farrowing to allow for maxications frm the list or from mum development of the pig those he has available in his embryos. Clean the farrowing office have a special invitation house thoroughly and disinfect

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with lye and hot water before the sow is moved in. Wash the sow, he advises, with warm wa-ter and soap before the move and give special attention to her underline.

The move to the farrowing house should be made two to three days in advance of the expected farrowing date and decrease her feed to half normal ration and half wheat bran. Provide the needed bedding for the farrowing house, he adds.

Be present at farrowing time to clean up the baby pigs and to place them under a heat lamp which can be placed in a corner of the pen. He adds that the pig's needle teeth should be clipped during the first 24 hours to about a fourth of their original length. The naval cord should be clipped about two inches below the belly and dipped in a solution of 2 percent odine to lessen the chances for

The sow should not be fed during the day she farrows but should have plenty of fresh, clean water. The second day after that she should get two to three pounds of feed and then a pound per day increases until she is again on full feed.

As an aid for preventing anemia, the county agent suggests placing a pan of clean fertile soil in the house for the pigs to root in or iron shots be given on about the

The pigs should be creep fed from the first week until should be castrated at 2-3 weeks they are weaned, the county agent says. The male pigs of age and all should be vaccinated for cholera at six weeks of age. Pigs should be weaned at six weeks and wormed when ten weeks of age.

Make this farrowing season a real pig harvest by following management practices, concludes the county agent.



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