

Kansas Farmer

What Kind of Hogs Do They Want?

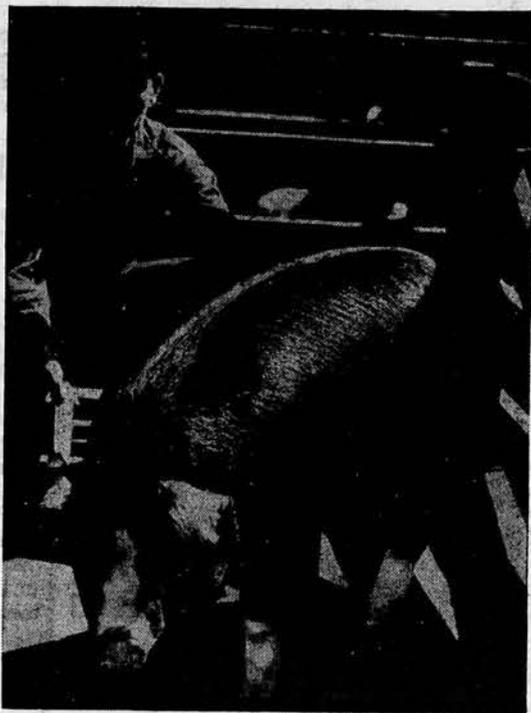
Producer needs more premium for putting new meat-type hog on market

A NEW KIND of livestock event is gaining favor in Kansas. It is the market animal show, combined with a type demonstration and carcass grading event, followed by voluntary sale of show animals to packer buyers, usually at above market value.

A good example of this trend was the recent first annual Wichita Fat Barrow Show and Carcass Type Grading and Trimming Demonstration.

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CARL ENGSTROM, Toronto, at the first annual Wichita Fat Barrow Show.



CHAMPION BARROW of show was this lightweight Poland China shown by Kansas State College and exhibited here by Sam Murray, of the animal husbandry staff.



BAD AND GOOD types of hogs were shown during type demonstration at Wichita show. Hog in foreground would grade U. S. No. 3, hog in rear is U. S. No. 1.

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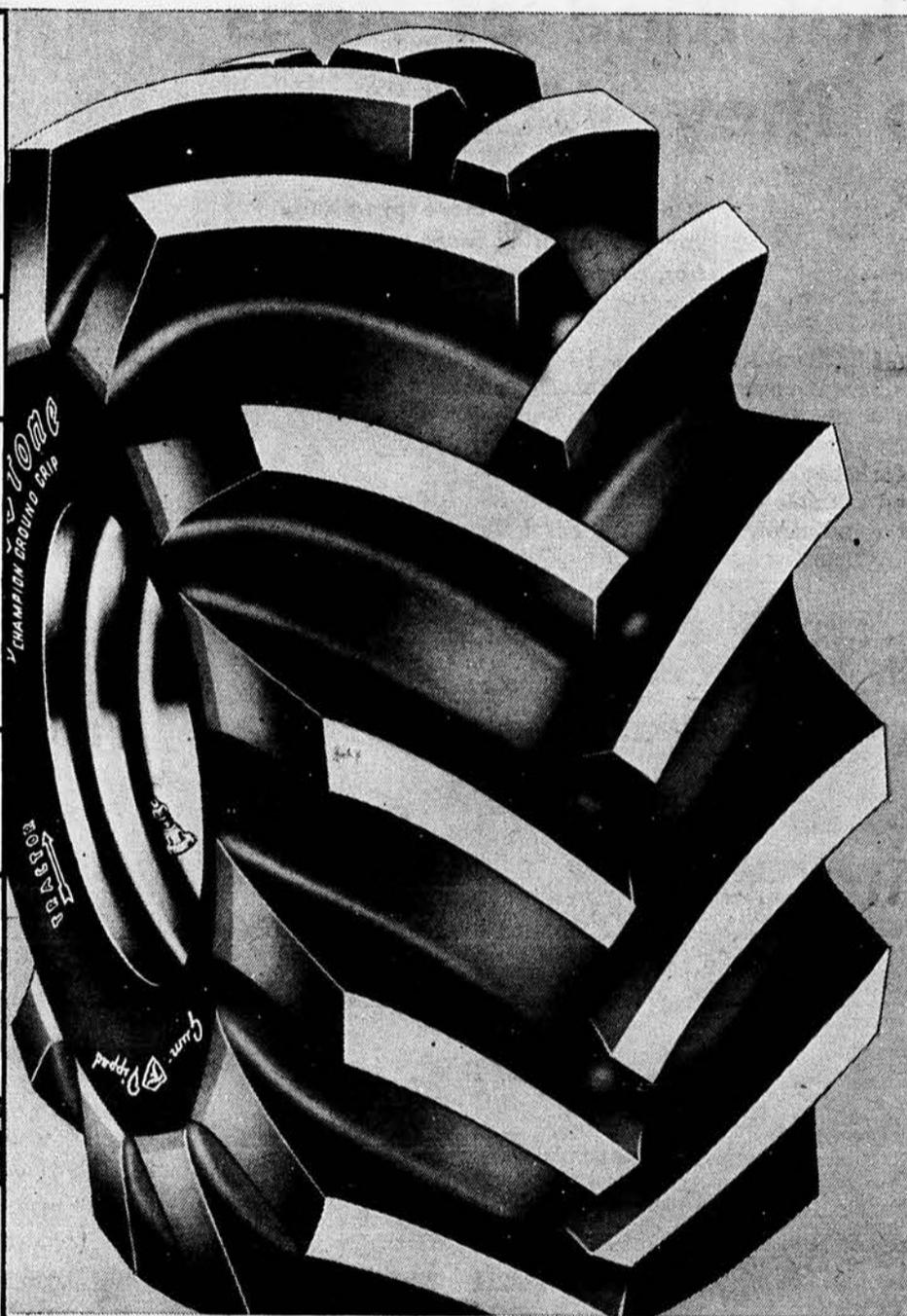
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What Are Isotopes?

AMONG great accomplishments of using atomic energy for peaceful pursuits is radioactive isotopes in agriculture. What are isotopes? They are tracer atoms or atomic energy by-products which are powerful scientific tools. Results of this newest and exciting agricultural research activity will mean more and better crops and livestock.

Among the 29 agricultural institutions co-operating in studies with the Atomic Energy Commission and the U. S. Department of Agriculture is Kansas State College. Departments concerned with isotopes research are agronomy and physics. Work is underway in studying use of iron by sorghum plants, and radioactive isotopes are used in fertilizer and crops experiments by agronomists.

Isotopes, or "tagged atoms," are used to probe into the nature of functioning of life processes. Radioactive isotopes throw off radiations that can be traced wherever they go in the plant or animal, and thru all chemical combinations. Because of this ability to chart their course, isotopes have been called the most important scientific tool developed since the microscope. More than 700 research institutions in U. S., and 250 in 31 other countries, are using AEC radioisotopes.

First agricultural research with isotopes began in 1946 thru the USDA Bureau of Plant Industry, Soils and Agricultural Engineering. In 1947 and 1948 work was expanded to include 4 state experiment stations. Now, in the short time of 6 years, work has spread to many states, will continue to more. Radioisotopes are being used in research with plants, animals, soils, fertilizers, insecticides. Equipped with new facts, fertilizers can be more scientifically and more properly measured and applied. Plants will be able to use chemicals more effectively, for increased yields and better fruits. Animal health and production will improve. There will be less insect damage.

Agriculture is moving into a newer, more wonderful "Golden Age" than even in 19th century, due to atomic energy application.

Help Organize Flood Programs

Four Kansas Agricultural Extension service workers aided Extension personnel from the flooded states of Iowa, Nebraska and South Dakota in organizing flood emergency programs. Called to University of Nebraska to assist were John Ferguson, head of department of extension engineering; Keith Collins, Extension agricultural engineer; Mrs. Bessie Loose and Mrs. Winona Starkey, Extension home economists. They took with them information kits, survey forms and letters of instructions that were successfully used in the Kansas disaster area last summer.

KANSAS FARMER

Continuing Mail & Breeze

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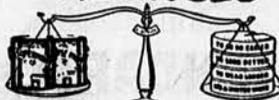


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No. 5 in special series telling how scientists at Kansas State College improve your crops

Planting Sorghum in 21-Inch Rows Beats 42-Inch Seeding

RESEARCH WORK at Kansas State College with width of rows in planting dwarf combine type sorghums has shown an advantage for 21-inch rows over the 42-inch row width now general over Kansas.

Eight years of work have gone into this experiment, and it is being continued. Its objective is to find a more economical way to produce sorghums from an expense, labor and time-saving viewpoint, and to increase yields.

Dr. H. H. Laude, agronomist at Kansas State, has worked on the belief a different distribution of sorghum plants would give better weed control and be helpful in other ways. Wide spacing leaves more land on which weeds can grow, more area is available for the sun's rays to heat the soil, and more rapid evaporation results.

During the 8 years of research there has been no disadvantage from the 21-inch rows as compared with the 42-inch rows, and there have been advantages. In no year has the yield from the narrower rows been less than from the wider spacings. In 2 of the 8 years rainfall was low in midsummer when plants were growing, but the 21-inch rows produced as much grain as the 42-inch rows. Average yields over the 8-year period have been 25 per cent greater from the 21-inch rows than from the 42-inch rows.

Rows Soon Shaded

Plants in the narrower rows soon shade the soil between rows and help prevent or retard growth of broad-leaf weeds and grass-type weeds. This method of planting has been effective, Doctor Laude has found, in controlling grasses such as crabgrass and foxtail. When sorghum plants get a start they destroy or set back weeds, and the sorghums make better growth.

As a general rule some post-planting cultivation should be done in 21-inch sorghums. The ordinary drag harrow will do some good most seasons. Doctor Laude suggests cultivation be done as soon as plants are large enough not to be covered by soil moved by the harrow. The plants soon are large enough to shade the soil, making further cultivation unnecessary where stands are good and uniform.

Preplanting seedbed preparation is important when narrow-width rows are to be used. Research has shown that a fall or early spring prepared seedbed



Dr. H. H. Laude

is much better than ground plowed shortly before sorghums are planted. The seedbed should be prepared early.

Many combine-type sorghums grown in Kansas have been tested in the Kansas State experiments, and all have responded favorably. Doctor Laude sees no reason why planting sorghums in 20- or 21-inch rows cannot be statewide. He emphasizes that the best row width has not been determined. His opinion is that it is between 16 and 30 inches.

When this research was started there was no change in the rate of planting. As much seed per row was planted in the narrow as in the wide rows. This doubled the number of sorghum plants. From the experimental work it appears the land can support more plants than are grown in 42-inch rows. How many more is still a question, as is the question about how wide the rows should be.

In the narrower row method, wheat drills can be used. Wheat tillage implements and combines already are used in sorghum production. With the drill added, it is no longer necessary for farmers to have 2 sets of equipment. Ten-inch semi-furrow wheat drills can be adjusted by stopping up every other hole.

One limitation of wheat drills is that too much seed is put into the soil. Some attachment or adjustment by which wheat drills will plant sorghum seed at lighter rates would be a real contribution, Doctor Laude points out.

No. 1 in series of farm biographies of agricultural "greats" . . .

JUSTIN S. MORRILL

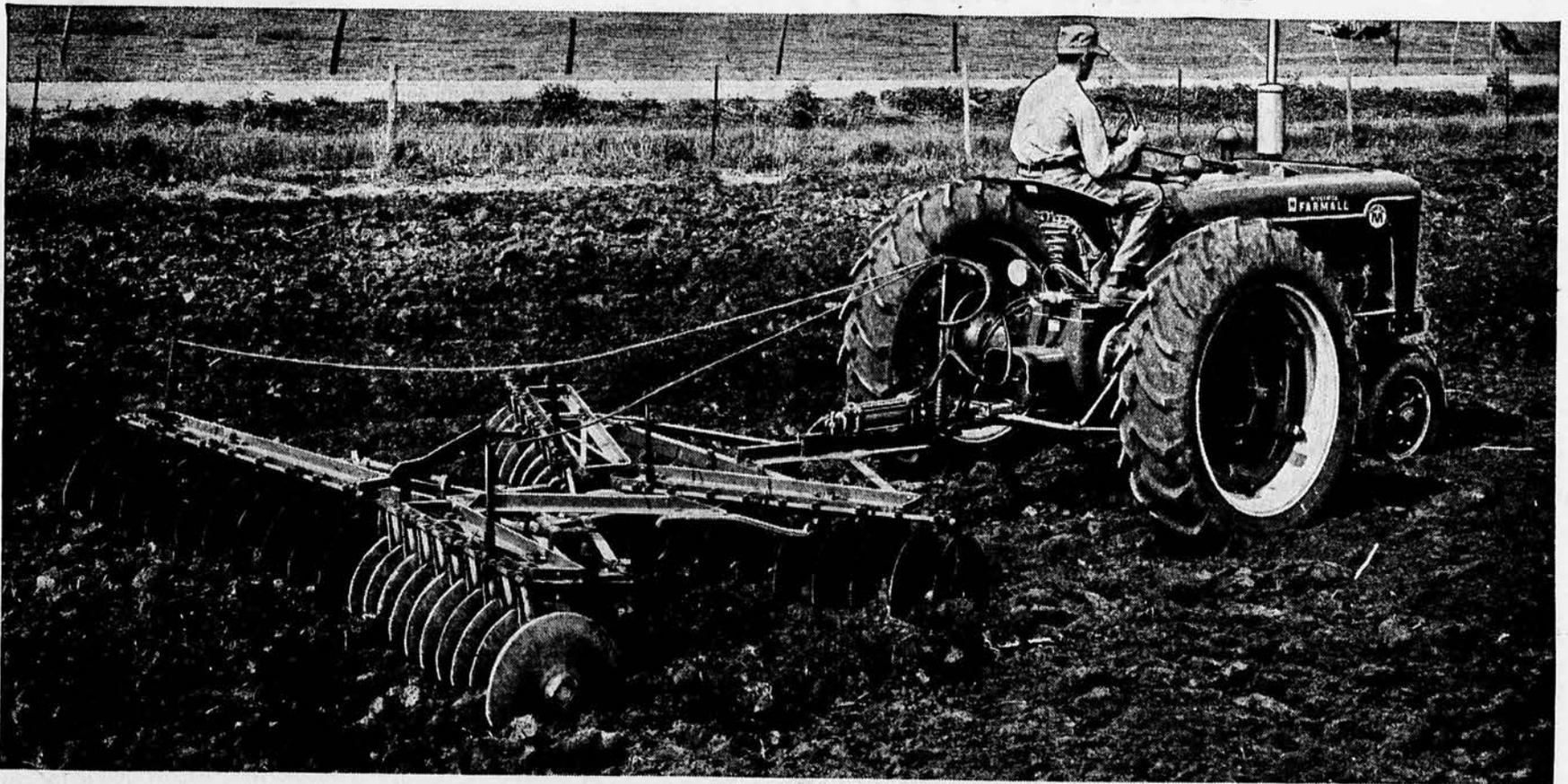
Justin Smith Morrill, father of the U. S. Land-Grant Act, was born April 14, 1810, in Strafford, Vt., eldest of 10 children. Education in a district school was supplemented by study at Thetford Academy.

For 21 years he was a clerk and merchant, then retired. For next 7 years he farmed, keeping up his life-long practice of reading good books. In 1854 he was elected to U. S. Congress, became a leader in sponsoring farm legislation. In 1861 he helped obtain passage of the Morrill Tariff of 1861. This measure chiefly kept the U. S. treasury in funds during the Civil War, and after its close, made possible steady repayment of the enormous debt incurred. This measure characterized protective tariff legislation for years.

The Land-Grant Act is believed by many to be the most important single specific enactment ever made in the interest of education. The act made possible the founding, before his death, of 64 colleges devoted primarily to agriculture. Today, each state has a land-grant college. Justin Morrill also was author of a bill approved August 30, 1890, for more complete endowment of land-grant colleges. The Land-Grant Act was one of the outstanding achievements of the Lincoln administration. On March 4, 1867, the ex-farmer took his seat in the Senate, became known as the "grand old man" among statesmen.

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How About

HOPPER DAMAGE IN 1952?

GRASSHOPPER infestation in Kansas this year is in a smaller area than last year, reports Dell E. Gates, Kansas State College Extension entomologist. Only counties having a heavier infestation than last year are Sherman, Hamilton and Greeley.

Counties in problem areas still maintain bait mixing stations and baits do have a place in control, especially late in season when vegetation is no longer attractive to grasshoppers. Baits containing Aldrin, Chlordane, or Toxaphene give quicker and longer killing action than sodium fluosilicate baits, according to U. S. Department of Agriculture Bureau of Entomology and Plant Quarantine.

How Much to Use

When sprays or dusts are used, quantity of technical material applied per acre should conform to the following recommendations:

Sprays—Aldrin, 2 ounces; Chlordane, ½ to 1 pound; Toxaphene, 1 to 1½ pounds.

Dusts—Aldrin, 3 ounces; Chlordane, ¾ to 1½ pounds; Toxaphene, 1½ to 2½ pounds.

Use lower dosages of Chlordane or Toxaphene for young grasshoppers in short, dense, succulent vegetation and on open stands of taller growth when long-continued killing action is not essential.

Use higher dosages when vegetation is tall and dense, or when long-continued killing action is desired.

When it is necessary to control young grasshoppers before main hatch is completed, higher dosages may extend residual action long enough to kill rest of hatch, thus saving cost of second treatment.

Dosages higher than those listed may be needed for treatment of barrier strips or for late-season use when grasshoppers are adult and vegetation is maturing.

How to Do Job

Farmers using these insecticides as sprays or dusts for grasshopper control should proceed as follows, the Bureau reports:

1. Determine main sources of infestation. Spray or dust these areas when main hatch is completed or when young grasshoppers begin to move off hatching grounds. Grasshoppers that damage row crops generally hatch in field margins.

2. Prevent corn damage by treating margins of cornfields and nearby small-grain fields or weed patches when small grains begin to mature and before grasshoppers move into corn.

3. When entire alfalfa field is infested with damaging numbers it is usually best to cut alfalfa and then apply chemical dust or spray to protect next cutting. Spray or dust field margins, ditch banks, patches of weeds or uncut strips of alfalfa where hoppers have concentrated. Grasshoppers



frequently hatch in considerable numbers after first cutting of hay. To control these late ones spray or dust next crop when it is about 6 inches high. This protects new growth and avoids heavy residues at the next cutting.

4. Range grasshoppers can be controlled more completely and economically with Aldrin sprays than with baits. Use 2 ounces of Aldrin in 1 gallon of solvent per acre. Begin control measures when hatching of dominant species is completed, and finish before egg laying by such species begins.

Precautions: Keep Aldrin, Chlordane or Toxaphene off skin and away from eyes and nose. Avoid breathing vapor fumes or spray mist. Bathe thoroughly and change to clean clothing daily after spray or dusting. If spray materials are spilled on skin or clothing, bathe immediately with soap and warm water.

Not for Dairy Animals

Do not feed forage contaminated with Aldrin, Chlordane or Toxaphene to dairy animals or to animals being finished for slaughter.

Because of danger of killing bees, do not apply these insecticides to legumes while in bloom. If grasshoppers must be controlled during bloom period to save seed crop, spray in early morning or late evening. Sprays are less harmful to bees than dusts.

In wet baits, Aldrin at 2 ounces, Chlordane at ½ pound and Toxaphene at 1 pound have given at least as good kill as 6 pounds of sodium fluosilicate per 100 pounds of dry bran and sawdust. Spread wet bait uniformly at rate of 20 pounds an acre.

In dry baits use 2 ounces Aldrin, ½ pound Chlordane, or 1 pound Toxaphene in each ½ gallon of solution. Kerosene and fuel oil are best solvents. Apply oil solution as finely divided spray at rate of ½ gallon to 100 pounds of coarse, dry bran containing no flour-like material. Be sure you get uniform distribution of oil solution thruout the dry bran. Dosage recommended is 5 to 10 pounds of dry bait an acre, which is equivalent to 20 to 40 pounds of wet bait in terms of bran content.

Baits containing Aldrin, Chlordane, or Toxaphene are very toxic if eaten by livestock. There is little danger after bait is spread but baits stored in sacks or piles or where heavy accumulations are on ground offer considerable danger if livestock can reach it.

OLD FARMER'S INSTITUTE

Dear Editor: In the April 5 issue of Kansas Farmer an article on Watson Farmer's Institute asked whether it is the oldest institute in Kansas. There are 2 Farmer's Institutes in Kansas that are recognized by the State Board of Agriculture, the Cowley County Farmer's Institute and the Clay County Farmer's Institute.

The Clay County Farmer's Institute will hold its 63rd annual meeting this coming September 24, 25 and 26. Our Institute is held in conjunction with the Wakefield Free Fair. In 1949 we celebrated our 60th anniversary.

The day the April 5 issue of Kansas Farmer arrived several persons called me about the article and wanted me to write about the Clay County Farmer's Institute.

I was the only delegate at the State Board of Agriculture this January representing a County Institute.—William Steffen, president, Clay County Farmer's Institute.



One man's faith in Justice makes this date memorable...

April 9, 1952

YEARS AGO a dream came true for Harry Ferguson. He obtained a patent on a device he had created—a hydraulic device that was to enable one man to do the work of many on the farms of America.

OTHER PATENTS were issued to this man, patents on devices that ended back-breaking farm tasks—that saved time and money. So good were these devices that eventually, by a handshake agreement, a large motor car company manufactured a tractor equipped with them. It was marketed as the Ford Tractor with Ferguson System, integrating tractor and implement into one efficient machine.

AS SOMETIMES HAPPENS, this arrangement terminated and Harry Ferguson, Inc. made and marketed its own tractor using the Ferguson System. The Ford Tractor continued to be made and sold, embodying some of the Ferguson patents and inventions.

THUS HARRY FERGUSON found himself in competition with his own creations. He believed deeply in justice and in the rightness of his claim against the Ford Motor Company. It was this man's faith in these things that found justification on this date . . .

April 9, 1952

ON THIS DATE the United States District Court for the Southern District of New York entered a final judgment, with the consent of all parties which ended four years of litigation between Harry Ferguson, Inc. and Ford Motor Company and others.

IN THIS ACTION, it was ordered and adjudged that:

1. The sum of \$9,250,000 shall be paid to Harry Ferguson, Inc. as royalties on Patents Nos. 1,916,945; 2,118,180; 2,223,002 and 2,486,257.
2. Ford Motor Company shall not manufacture, after December 31, 1952, such tractors, and Dearborn Motors Corporation shall not sell any such tractors manufactured after December 31, 1952, as have
 - (a) a pump having a valve on its suction side, as for example in the present Ford 8N tractor, arranged to be automatically controlled in accordance with the draft of an implement, or
 - (b) a pump for a hydraulically operated draft control

system for implement control and a power take-off shaft both driven by the lay shaft of the transmission, as for example in the present Ford 8N tractor, or (c) a coupling mechanism on the upper portion of the center housing, of the form employed in Ford 8N tractors manufactured prior to November 22, 1949; and Ford Motor Company and Dearborn Motors Corporation must affix a notice on any long coupling pins, manufactured by them, to the effect that the pin is sold only for replacement on 8N tractors made by Ford prior to November 22, 1949. This notice will continue to be affixed until October 25, 1966.

3. Ford Motor Company and Dearborn Motors Corporation shall have a period of time, expiring not later than December 31, 1952, in which to make these changes.
4. All other claims and counterclaims are dismissed and withdrawn on the merits.

A COPY OF THE CONSENT JUDGMENT is available to anyone interested in reading it. This settlement between Harry Ferguson, Inc. and the Ford Motor Company resolves the issues. The inventions in their entirety with which this action was concerned will be found only in the Ferguson Tractor and in the Ferguson System in the future.

Harry Ferguson, Inc.

Detroit 32, Michigan

KANSAS STATE UNIVERSITY LIBRARY



INSPECTING A WELD on some spray equipment in the Little River school shop are this year's FFA officers: left to right, Kermit Case, second-term president; Dick Hubbard, secretary; Norman Reed, reporter; Delbert Hayes, vice-president, and Bob Lundstrom, treasurer.



FUTURE FARMERS of Little River honored their officers at this meeting last year. Standing from left are Milton Kohrs, adviser, and Delbert Hayes, reporter; Bobby Joe Lundstrom, vice-president; Kermit Case, president; Paul Hubenett, secretary; Jack Richardson, treasurer.

Doing Many Jobs All on Their Own

By **MIKE BURNS**

PRACTICAL experience, I think, will do my boys the most good," says the Vocational Agriculture instructor at Little River. The treatment apparently is having the desired effect, too. His boys are getting the kind of inspiration that brings out ambition and initiative to go ahead on their own and do a mighty big job.

It's showing up in work of their FFA chapter, too, which last spring had a net worth of \$2,075 and has "never had a money problem."

Sparkplug at Little River is Milton Kohrs, who isn't content with just demonstrations and book learning. He wants his boys to get firsthand experience and develop confidence enough to do the job strictly on their own.

Before he left for military service, a hard-won Kohrs' dream had come true. He was able to stay in his office and confidently dispatch groups of responsible students to farms over the county to take care of such requests as docking, crop spraying, and even shearing, knowing they could handle any problems that arose.

When Mr. Kohrs came back from service there was a new group in school, and he had to start all over again. The record of progress of that FFA chapter, however, is evidence aplenty of results. His boys have won the FFA Gold

Emblem chapter award the last 2 years. With Winfield, Little River has been picked to represent Kansas this year in the National Better Chapter Contest. And look at this record of their production last year: pork, 13,828 pounds; beef, 21,545 pounds; lamb and mutton, 2,677 pounds; wool, 732 pounds; milk, 64,270 pounds; sorghum grains, 1,819 bushels; oats, 200 bushels; wheat, 288 bushels; 83 per cent of members have livestock and 65 per cent produce feed for livestock; 90 per cent used purebred sires; 85 per cent treated seed; 52 per cent sprayed their livestock and buildings; and we could go on.

Of the 41 members, 100 per cent had productive enterprises. Their project investment goals were set at \$100 for freshmen, \$200 for sophomores, \$300 for juniors and \$350 for seniors. Their accomplishments reached an average of \$250 for freshmen, \$650 for sophomores, \$450 for juniors and \$490 for seniors. Every boy kept accurate records of his investment.

In their community, at no charge or to cover expenses only, these FFA'ers sprayed 700 acres of crops and 80 miles of township roads for insect and weed control. They collected and baled 43,740 pounds of paper, [Continued on Page 31]

MYRON HEINLY, below, operates FFA sprayer on the Q. E. Reams farm, near Little River. Mr. Reams is at left. Myron is an FFA member out of school now helping his father farm.

Firsthand experience is important part of FFA training at Little River



OFF COMES another tail, as Gene Wilson lowers a heated iron which quickly and almost painlessly docks a lamb. Holding board and tail is Neal Moss, and holding the lamb is Dwight Voth.



Kansas Farmer

News
and
Comment



NATURAL GAS

"What a man stands for is important. What he falls for also counts."

"Said the exasperated little girl: 'We got our parents when they are so old it's impossible to change their habits.'"

Benjamin Franklin said: "If a man could have half his wishes he would double his troubles." Just the same we would like to wish some of our taxes away.

"Being rich may not bring happiness, but seems like it could be mighty pleasant misery."

"Broken every day but never impaired—the Ten Commandments."

"My wife certainly changed after we were married. My job, my friends and my habits."

"Instead of a clear conscience, maybe you just have a poor memory."

"The speaker said we are what we eat. Is that why some folks are always in a stew?"

"Thinking separates wishes from facts, by which the wise obtain their wisdom."

Fight Anthrax

AS LEADERS IN LIVESTOCK and livestock products, Kansans are deeply interested in preventing spread of disease and maintaining good health in their animals. Serious outbreaks of anthrax disease in several Midwest states and 2 outbreaks in Kansas are causing concern. It is believed infected bone meal imported from foreign countries is cause of the trouble.

April 18, at the office of Secretary of the State Board of Agriculture at Topeka, a representative group of leaders took important action concerning anthrax control. This resolution was endorsed:

"That the Secretary of Agriculture formulate and carry out regulations to prevent importation of bone meal, products containing bone meal, or bones, into the United States for use as feed or fertilizer, except when properly sterilized to kill anthrax spores, and that the Secretary of Agriculture require feed manufacturers to tag all feed containing bone meal and moving in interstate commerce, certifying that the bone meal has been properly sterilized."

This resolution has been sent to the U. S. Secretary of Agriculture, USDA's Bureau of Animal Industry, and the Kansas Congressional delegation. Present at the Kansas meeting were representatives of feed companies, Kansas State College, fertilizer companies, State Board of Health, State Livestock Commissioners office, farm organizations.

Jack Dean, of American Feed Manufacturers Association, stated the feed industry is policing itself, doing all possible to stop spread of anthrax, and will continue to co-operate in every way. It was pointed out properly processed imported bone meal is good livestock feed but that concern is with improperly processed imported bone meal. To date, no improperly processed Kansas bone meal has been found.

Altho Kansas has been relatively free of anthrax for 50 years, 3 dairy cows have died from this dangerous disease. Vaccination is about 95 per cent effective and other precautions are being taken in the state. Watch for a complete story on anthrax in a future issue of *Kansas Farmer*.

Costly Pest

WHEN TALKING ABOUT CORN BORERS we don't need to spend all our time on the European variety. Southwestern corn borer isn't any piker. In the last 14 years corn acreage has been reduced—almost entirely by borers—from 800,000 acres to 18,000 acres in a 9-county area in Southwest Kansas, according to C. C. Burkhardt, of Kansas State College. The area includes Barber, Pratt, Kiowa, Pawnee, Edwards,

Reno, Barton, Stafford and Rice counties. Just think of it! The borer has knocked out more than 97 per cent of the corn acreage in that area.

Fortunately something is being done about it. Kansas State College is on the job in the person of Mr. Burkhardt. This entomologist is working with 3 farmers in corn studies—Alvi Harden, Nickerson; Don McGuire, Sharon, and Melvin Siefkes, Hudson. Test plots are being seeded on their farms with 4 corn varieties, hybrids, on specific dates ranging from April 15 to June 15, to determine best dates for planting to avoid Southwestern borer.

Important Visitors

COMING TO THE UNITED STATES August 17 to 23 this year will be the sixth International Grassland Congress. It will be held at Pennsylvania State College. Its importance to us in Kansas is that it will bring together, at one time, results of practical grassland farming research from all around the world. Information that fits Kansas conditions will be gleaned from the congress, brought to you thru *Kansas Farmer*.

You know grassland farming is tremendously important in Kansas. Good progress has been made in its development. But more needs to be done, can be done. We are just beginning to realize how much greater production is possible from our grasslands thru more careful grazing, adequate use of fertilizers.

Grasslands of the world occupy more than half the earth's entire land surface. In several countries pasture management and forage crop production have reached a high state of development. Perhaps we can learn a thing or two thru this congress from other countries.

We hope, too, other countries will find information available in the United States helpful to them. Governments of more than 60 countries have been invited to send official delegates. After regular sessions are over visitors from these 60 or more nations will make scientific and educational tours thruout our country. We invite them to come to Kansas. We hope they carry back home with them much valuable agricultural information. We also sincerely hope they get a true picture of how we live and work; that they can see and feel our sincere desire for peaceful neighborliness. We'll be glad to swap grassland information and understanding with them, just like Kansas farm folks swap work at haying time.

You can imagine some management problems would develop in handling a meeting of delegates from 60 countries. One is how to understand one another. That is solved by stating ahead of time that official languages of the congress are to be English, French and Spanish. Any member finding it necessary to speak in a non-official language will be expected to bring his own interpreter.

All previous Grassland Congresses have been held in Europe. First was held in Germany in 1927, second in Sweden and Denmark in 1930, third in Switzerland in 1934, fourth in Great Britain in 1937, and fifth in the Netherlands in 1949. Here is a great opportunity for the United States. This is recognized by individuals and industries alike, both of whom are contributing to its success.

You will be interested in knowing official sponsors of the congress are the United States Government, United Nations, U. S. colleges and universities, American Agricultural Editors' Association, American Bankers Association, American Feed Manufacturers Association, American Farm Bureau Federation, National Farmers Union, The National Grange, Ameri-

can Petroleum Institute, American Plant Food Council, Chamber of Commerce of the United States, Farm Equipment Institute, National Agricultural Chemicals Association, National Association of Silo Manufacturers, National Council of Farmer Cooperatives, National Fertilizer Association, American Meat Institute, and many national and international agricultural societies.

Eyes of the agricultural world will be on this sixth International Grassland Congress in the United States in August.

Beautiful Kansas

YOU WILL SEE a beautiful sight if you drive thru the Flint Hills section of Kansas this spring. This is our Bluestem Pastureland, grass is mighty good, and more of it has been leased than ever before. Secretary Roy Freeland, of the Kansas State Board of Agriculture, reports 97 per cent of available pastures were under lease early in April. This compares with 96 per cent a year ago, 59 per cent 2 years ago and 82 per cent for the 10-year (1940-49) average.

Lease prices are at record levels, exceeding previous high of 1951 about 43 per cent. Bulk of leases for steers and cows were from \$25 to \$32 a head, with young cattle at \$18 to \$20 a head. That is a good indication of how valuable grass is in Kansas.





He's feeling his CHEERIOS...

**-THE OAT CEREAL
THAT NEEDS
NO COOKING!**

Yes ... a ready-to-eat OAT CEREAL
with a whale of a lot of GO power!

For a better breakfast every day, include Cheerios! It's made from that good grain, *oats*... and *no cooking needed*. There's no easier way to serve your folks that grand oat energy they want at breakfast time. So get Cheerios... the *only* cereal shaped like golden, little doughnuts. Truly delicious. So crisp, light, appetizing that you'll be glad you asked for the Family Size package. Contains 50% more ready-to-eat Cheerios than the regular size!



IN
REGULAR
AND
FAMILY
SIZE

**Our Tame Grass Pastures
Can Do Much Better With Fertilizer**

By DWIGHT E. HULL

ARE WE GIVING our tame grass pastures a whole meal or just part of a meal? A question we have asked ourselves many times the last year or so. Also, what is a whole meal? How much of a meal will tame grass pay for? Naturally we are referring to the amount of fertilizer we should use on our brome, sweet clover, rye or whatever supplementary pastures.

Driving thru northwest Butler county first week of April, we saw a few dairy cows already contentedly feeding on brome and sweet clover. In fact, we started pasturing our brome and sweet clover shortly before the first of April. We also saw a lot of dairy cows eagerly looking over the fence at a few spears of green grass in the distance. Then we saw some cows already on native pasture, doing their best to pick off the first spear of grass that dared to push up thru the ground. However, the dairyman's problem is not just to keep his cows from starving, but to have lush enough growth of grass so his cows can fill up by working, at gathering their meal, only a portion of the day.

Good Results from Brome

Now to get back to the meal for grass. Stopping for a visit with E. B. Regier and Jake Webie, both good dairymen, near Whitewater, we inquired how much they are feeding their brome, and how much brome is feeding their cows. They both used around 150 pounds of super-phosphate when they planted their brome.

Mr. Regier said he top-dressed his brome in January or February with about 250 pounds of ammonium nitrate, with the exception of one 10-acre field. Mr. Webie said 2 years ago he top-dressed with 150 pounds of ammonium nitrate on half of his 13-acre brome field, and all summer you could see from considerable distance the exact line where he stopped spreading the nitrate. Then last year he put nitrate on the other half of the field and that half showed up just like the other did the year before. Since last year was exceptionally wet both men said they pastured their brome nearly the entire season, and that it provided sufficient roughage for one cow per acre.

Talking with other dairymen about this problem, we didn't find anyone who had pastured brome and obtained any

greater carrying capacity. Some felt they hadn't obtained quite as good results. We will admit Mr. Regier's and Mr. Webie's soil is very good upland soil and probably above average. One acre supplying sufficient roughage for one cow for 5 or 6 months is a good investment, considering an average DHIA cow will gross between \$35 and \$50 a month. If we subtract half of this amount for grain and other expenses, it would still leave a very satisfactory return per acre for use of the land.

However, the question still remains. Is one cow to the acre the limit of our possibilities for our tame grasses, and are we giving our grasses a full meal or just a piece of a meal.

Amazing Word from South

Searching for the answer to this question, we recently wrote to Washington county, Tenn., for a report on their accomplishments with grass. It seems for some time they have had several farmers co-operating with the Extension department trying to find the answer to this question. Reports I received are extremely interesting, and results they have obtained are amazing. In fact, they are so amazing no doubt some will call them fantastic.

W. J. Mauk reported he seeded a 5-acre field in August, 1949, using 15 pounds alfalfa, 10 pounds orchard grass, 10 pounds Kentucky 31 fescue, and 3 1/2 pounds ladino clover per acre. The field was limed, using 3 tons per acre, before preparation of the seedbed was begun. As the seedbed was being prepared he worked into the soil the following amounts of fertilizer: 1,200 pounds of 27 per cent phosphate, 800 pounds of 0-12-12 with 5 per cent borax, 800 pounds of 47 per cent phosphate and finally mixed 600 pounds of 3-9-8, 100 pounds of nitrate of soda, and 100 pounds of muriate of potash. All of this amount applied per acre. To put it another way he used 3,600 pounds of fertilizer per acre, which included 800 pounds phosphate, 182 pounds potash, and 84 pounds of nitrogen.

His production record follows: Started grazing October 1, 1949, with 30 head and grazed until April 18, 1950, along with other pasture on the farm. His estimated breakdown of grazing during 167-day period for this field was 500

(Continued on Page 11)

GRANDMA By Charles Kuhn



CHAS. KUHN 2-19

cow days per acre. There was a month during January when cows were run on the pasture, but it was short and they did not get their fill. This period was not counted in estimating cow days of grazing. On May 30 he mowed and baled 67 bales of hay per acre, and June 30 he baled 51 bales per acre and again on August 7 he baled 30 bales per acre. This was all in 1950.

His estimated cost of seeding was \$115 per acre, net profit \$120 per acre.

To supplement this I wish to quote from a letter I received from E. M. Henry, in charge of pasture work in Washington county, Tenn. "One secret of good pasture our farmers have is the heavy fertilization they use. Farmers do use more seed than you will find in many sections; however, by seeding their pastures early in fall, fertilizing heavy and using some nitrate fertilizer, and by seeding at a heavy rate, farmers get an abundance of quick grazing for the particular fall and winter following their seeding."

And a little more about W. J. Mauk's 75-acre river bottom farm. Only 53 acres are cleared, upon which he runs a grade-A dairy of 23 cows and keeps 11 replacement heifers. The last corn crop grown on the farm yielded 120 bushels per acre. But Mr. Mauk says he cannot afford to raise corn, and explains it this way: "I keep my farm in orchard grass-ladino clover pasture and carry more cows. The cows I can carry on the additional pasture, where I would otherwise have corn, will far more than pay for the concentrates I purchase."

Judged on 3 Points

We also were interested in a bulletin from New Jersey Extension department. This bulletin is entitled, "The New Jersey Green Pasture Program for 1950." Three hundred farmers located in 19 counties participated in this program. Each farmer's program was judged according to 3 main points: Pasture Production, Pasture Quality, Pasture Management. Winner of this contest used 500 pounds of 5-10-10 fertilizer per acre at seeding time and top-dressed annually with 500 pounds 0-14-14 fertilizer per acre.

We realize fertilizer formulas used by farmers in Tennessee and New Jersey do not suit our soil conditions. For example, our soil tests do not indicate we need to use potash in many Kansas soils. However, I believe our soil tests will show we do need considerable more nitrogen than they are using. Undoubtedly dairymen in these other states consider a whole meal for their grass to be much more than we are accustomed to think necessary in Kansas.

Note: Since we have planned a trip East in May, we expect to visit Washington county, Tenn. Mr. Henry has promised to take us to visit farmers in this area where they seem to be away out front of most of us when it comes to grassland farming. We expect to get firsthand answers to many questions, and anticipate with pleasure trying to share with *Kansas Farmer* readers the answers and our reaction.

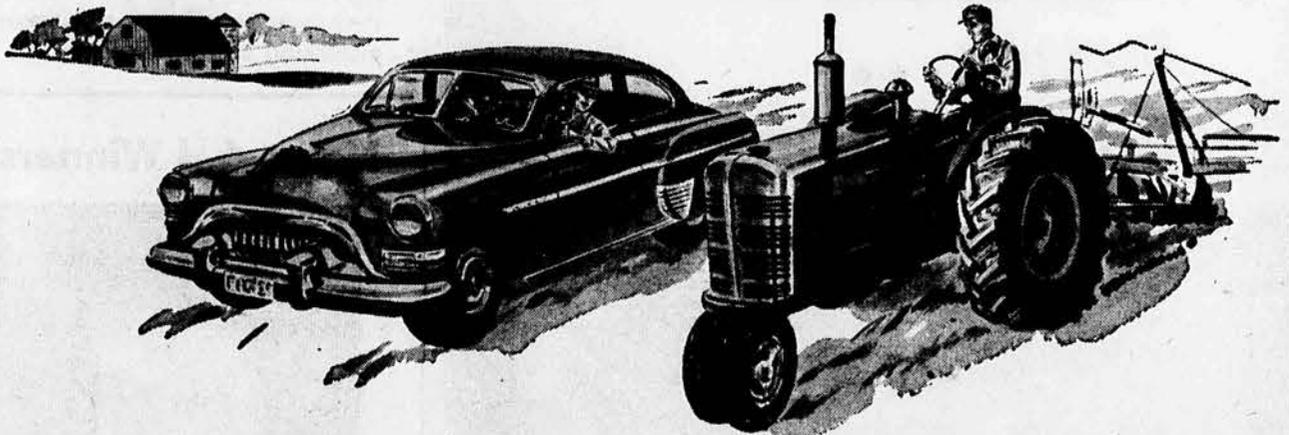
Wins Scholarship

One of three \$100 college scholarships awarded April 15 by the Kansas City Press Club, professional chapter to Sigma Delta Chi journalism fraternity, went to Richard Fleming, Paola, Kansas State College agricultural journalism student. He is editor of the *Agricultural Student*, campus ag magazine.

Pass the Strawberries

Umm! Who doesn't like plenty of ripe red strawberries served with thick cream? Strawberries can be grown successfully in all parts of Kansas. For tips on care of this popular crop, write us for a copy of Kansas State College Extension leaflet 4, "The Aristocrat of Kansas Fruits." No charge. Write Farm Service Editor, *Kansas Farmer*, Topeka.

YOUR CAR NEEDS IT



YOUR TRACTOR, TOO



Mobiloil more than meets all requirements for a heavy duty motor oil set up by the American Petroleum Institute and today is recommended by leading car and tractor manufacturers.

And you get famous Mobiloil triple action for top performance: High V. I. for minimum change in body over a broad range of temperatures... Anti-Acid Agents to give greater protection against corrosion . . . High Detergency to help keep engines clean.

For all heavy-duty farm work, insist on heavy-duty Mobiloil. Call your Mobilgas-Mobiloil man!

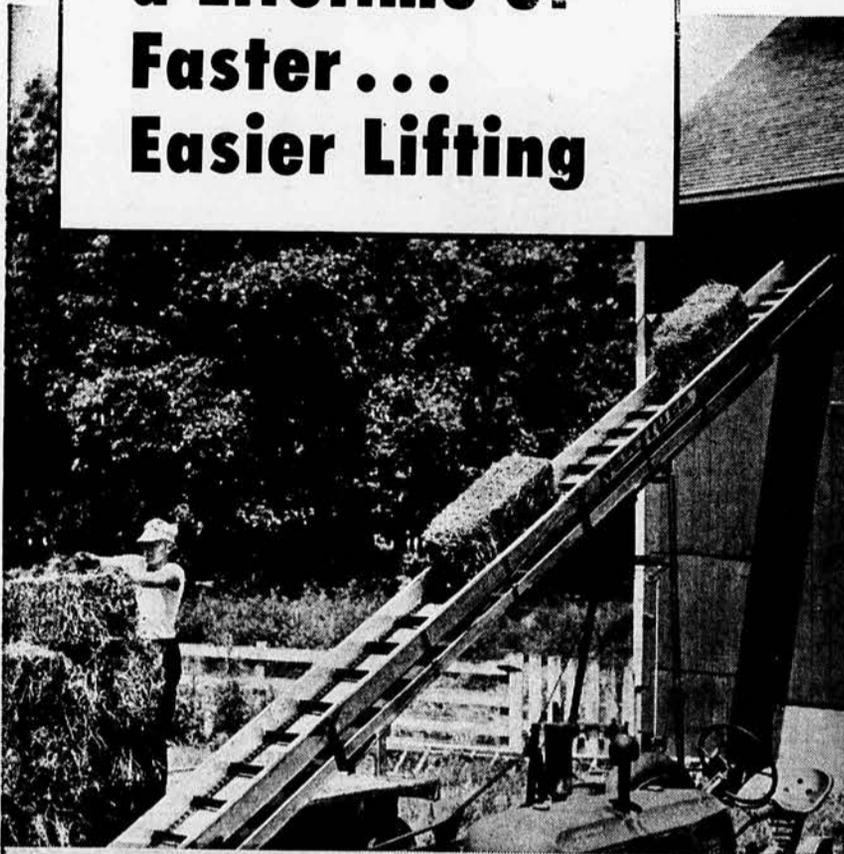


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IN TOWN Look for the Sign of the Flying Red Horse

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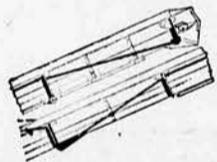
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Like all New Idea machines, the New Idea elevator is built to last. This many-purpose elevator stays in alignment... bottom and sides... year after year because suspension trussing and box-crimped sides will take unusual strains or twists and stay in alignment.

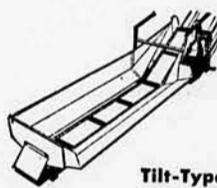
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This well-balanced elevator can be rolled easily from one job to another. Various length combinations are obtained by interchanging 8 and 10 foot sections. Available for gas engine, electric motor or power take-off drive.

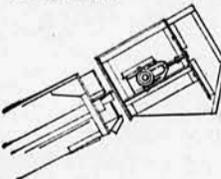
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Suspension Trusses
Adjustable suspension trusses eliminate sagging and bowing, insure long life.



Tilt-Type Hopper
70" long trough for grain and ear corn. Heavy coiled springs make tilting of hopper easy. Shovel type hopper also available.



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End of head section removable for handling bales or bags without interference.



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Send free folders as follows:

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Name _____
Address _____

COMING, NEXT ISSUE . . .

Maybe you can't arrange to take a long vacation trip this year. There isn't any reason, however, why you can't enjoy some of the recreation facilities right here in Kansas. In the next issue of **Kansas Farmer** we will tell you about our own 22 state parks and what they have to offer you in the way of fishing, boating, swimming, picnicking and sight-seeing.

Name 4-H Winners of Washington Trip



Erma Christiansen



Sam Miller



Agnes Smith



Harold Couchman

ANNOUNCEMENT IS MADE of 1952 winners in 4-H leadership to attend the 22nd National 4-H Club Camp in Washington, D. C., June 18 to 25. They are Agnes Smith, Salina; Sam Miller, Milford; Erma Christiansen, Columbus, and Harold Couchman, Garfield.

Agnes Smith, 18, of Saline county, has claimed nearly every home economics exhibiting and judging honor in her 7 years of club work. She is particularly successful at home economics judging. An active exhibitor of project work, Agnes has won 125 prizes, 18 county championships.

Sam Miller, 19, Geary county, is a familiar figure at livestock shows where his Shorthorns rank in the championship class. He was a member of the state poultry judging team that placed

3rd in the nation in 1949. His net income from 66 projects tops the \$7,000 figure.

Erma Christiansen, 18, Cherokee county, has been a member 9 years, was 1951 state garden champion. She has won many honors in garden, food preservation, and sheep production. Her 4-H income has been used for music education.

Harold Couchman, 18, of Pawnee county, excels in wheat production, dairy production and showmanship. He has been superintendent of the county 4-H show for 3 years. He places a value of \$13,375.70 on his projects over 9 years.

The Washington trip awards are provided by the Kansas Bankers Association, are given yearly. State 4-H office officials accompany the group.

Watch these three points for

GOOD SORGHUM YIELD

SUCCESSFUL SORGHUM production depends upon at least 3 major cultural practices, members of the Garden City, Colby and Hays Experiment Station staffs agreed in a recent (April 17) meeting at Hays.

These are seedbed preparation, rate and date of planting, and varieties. Much trouble in sorghum production, the scientists said, stems from poor seedbed preparation. It should be weed free, well supplied with moisture, warm, mellow and firm at seeding time.

Best seeding dates listed: Southwest Kansas, June 5 to 20; Central Kansas, May 25 to June 10; Northwest Kansas, June 1 to 10.

Recommended seeding rates: Southwest Kansas dryland, 2 to 3 pounds an

acre; irrigated, 6 to 8 pounds; Central Kansas, 3 to 3½ pounds; Northwest Kansas, 2 to 3 pounds. These rates are for 42-inch rows. In far Western Kansas the rate should not be more than 3 pounds an acre if narrower-width rows are used. (See **Kansas Farmer** story page 4 this issue on Kansas State College row width studies.)

Variety recommendations, in order of importance: Grain—Southwest Kansas, dryland, Westland, Midland, Martin; irrigated, same; Central Kansas, Midland, Westland, Martin; Northwest Kansas, Colby milo, Coes, Midland, Norghum, Martin. Forage—Southwest Kansas dryland, Early Sumac, Axtell; irrigated, Atlas, Axtell; Central Kan-

(Continued on Page 13)

sas, Ellis, Norkan, Atlas (on bottom land); Northwest Kansas, Early Sumac, Leoti Red, Norkan.

Fallow land doubles the yield of sorghums, experiments at the 3 stations have shown. In 38 years of tests at Hays, grain sorghums have averaged 32 bushels on fallow, 16 bushels on continuously-cropped land. Fallow has tripled Ellis silage tonnage at Hays.

Staff members at the 3 stations agree also on the value of seed treatment before planting. This practice protects seedlings against fungi attacks and aids emergence of plants in cold weather. Arasan, Cemesan, Spergon, Copper carbonate, and Panogen are chemicals which are recommended for seed treatment.

Honor 28 4-H Adult Leaders

About 300 adult 4-H leaders and Extension agents attended the annual state 4-H Club Leaders' Conference April 14 to 16, at Hutchinson. Honors went to 28 long-time 4-H leaders who have served their communities for 10 years or more.

Leaders awarded scholarships to attend the event and who were honored were: Bernice Sievers, Allen county; Mrs. C. C. Cole, Bourbon; Mrs. S. Y. Curry, Butler; Mrs. Pete Jessee, Cherokee; Mrs. Harry Vanskike, Cowley; Mr. and Mrs. Everett Taylor and Mr. and Mrs. M. A. Rohrer, Dickinson; Ben Meyer, Edwards; M. L. Russell, Finney; Mrs. Ralph Kirkpatrick, Ford; Mrs. Ruth Leu, Jefferson; Mrs. Steve Hardesty, Kingman; Claude Gray and O. M. Stevens, Labette; Lucille Davis and Mrs. John Wingert, Lyon; Mrs. Guy Harlow, Mitchell; Mrs. Henry Watkins, Neosho; Mrs. Orville Baker, Norton; Mrs. Ernest Windhorst, Ottawa; Walter Holtom, Reno; Mrs. Charles Pivonka, Rush; Mrs. Emil Smerchek and Lloyd Cole, Shawnee, and Mrs. Albert Dautel, Sherman.

New College For Kansas

A general course in agriculture is planned in course of instruction of a new 4-year college at Dodge City. Western Kansas will have two 4-year colleges with the opening of St. Mary of the Plains in September. The college served from 1913 until 1942, when the buildings were destroyed by a tornado. Students of all religious denominations will be accepted.

Wins Purina Fellowship Award

Winners of Ralston Purina Research Fellowship Awards for 1952-53 school year have been chosen, at a meeting in St. Louis, Mo. Among 8 winners was one Kansan, Harold A. Ramsey, now at Raleigh, N. C. He won a dairy husbandry fellowship award for study at North Carolina State College.

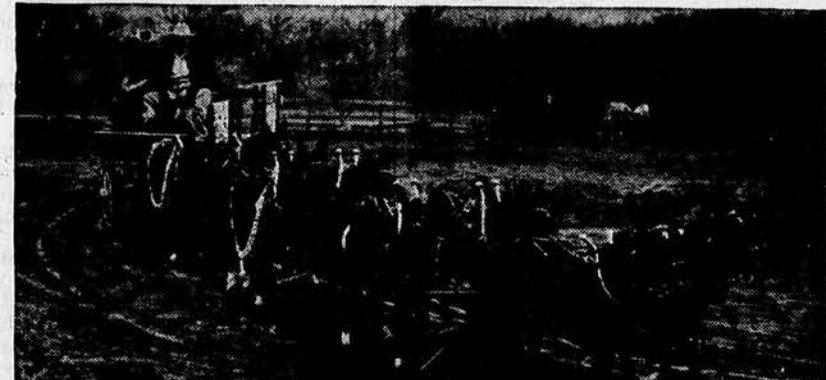
Lights for Chicks

Effect of how long lights are on in raising baby chicks has been studied by USDA Research Center at Beltsville, Md. Rhode Island Red chicks, during first few weeks of age, were used in tests. It was found "best growth was obtained when lights were on one hour and off succeeding 3 to 4 hours in each 24 hours."

Lambs for Profit

Proper care of lambs during the growth period will mean extra profits and better animals. For tips on this subject, write us for a copy of Kansas State College Extension Circular 217, "Lambs for Profit." No charge. Write Farm Service Editor, Kansas Farmer, Topeka. Your order will be given prompt attention.

LLOYD BURLINGHAM'S
SKELLY FARM NEWS



"World's Smallest Mule Team" with Mr. F. H. Cox at the reins.

For twenty years I've saved with Skelly

"There's nothing new to me about your Skelly slogan, 'Switch to Skelly and Save,' because I've known it for at least twenty years. We've never used anything but quality Skelly products."

With about 2000 acres of farm land, over 300 head of registered white-face cattle, 100 hogs, 13 cars and trucks, and four tractors Fred H. Cox, Jenks, Okla., has plenty of activity about his place. Also, plenty of opportunity to

use Skelly products, which he does exclusively.

He buys Tagolene oils and greases by the barrel. He uses a lot of regular Skelly Oil for chain saws and outboard motors. Mr. Cox is the Mall tool distributor for Oklahoma, also sells outboard motors . . . and strongly recommends Skelly Oil to his customers.

His hobby is driving and showing "the World's smallest mule team." He exhibits frequently in state and county fairs over the country.

Coming to Oklahoma about 30 years ago from "Carolina," Mr. Cox recently was awarded the "Arkansas-Verdigris Soil Conservation District Award for Meritorious Achievement."

"Not only do we use Skelly petroleum products, but we save by using Skelly Paint. 'Switch to Skelly and Save' . . . you don't need to tell that to a man running a 1930 McCormick-Deering 15-30 tractor thanks to Skelly lubrication."



F. H. Cox and Skelly Farm Service Man Truman Dotson of Broken Arrow, Oklahoma.



Is your car all set for safe and warm weather motoring? If not, drive into your nearby Skelly Service Station now for a complete Skelly Spring Change. It includes all these car-saving services:

Oil Change—to new Skelly Supreme, the great Heavy-Duty Motor Oil for passenger cars.

Chassis Lubrication—genuine Skelly Grease-Master Lubrication with the finest Skelly lubricants.

Battery—a careful analysis to make sure it will serve you well during the hot weather to come.

Radiator—a thorough checkup on the cooling system to assure cool, carefree engine operation.

Switch to Skelly and Save with Skelly Tagolene Long Life Greases and Skelly Fortified Tagolene H-D Motor Oil for your farm trucks and tractors. See your Skelly Farm Service Man!

KEEP UP WITH THE NEWS!

Every Saturday, hear Lloyd Burlingham's late farm news and his story of the current winner of the Skelly Agricultural Achievement Award, along with Alex Dreier's quick summary of world news. Monday through Friday, hear Alex Dreier and the First Network News Analysis of the Day—7:00 A.M. over your local NBC station.



SKELLYLAND'S FAVORITE RECIPES

Cheese Salad Roll

- 1 cup chopped pecans
- 1 lb. American cheese, grated
- 2 hard-cooked eggs, chopped
- 1 to 3 cups chopped sour pickle
- 1/2 cup chopped pimiento
- salt to taste

Blend all ingredients together and form into a long roll. Wrap in waxed paper and chill in refrigerator over night. Slice and serve on crisp lettuce leaves.

Submitted by: Mrs. D. L. John
Route #1, Little River, Kansas



\$500 REWARD

Want to receive \$5.00 for your favorite recipe? That's what you'll win if your recipe is printed here. Send recipe to us, but keep a copy, for none can be returned. Address Skelly Oil Company, Dept. KF-552, Kansas City, Missouri.



SKELLYMAN Truman Dotson says:

"Your farm tractors, trucks and other farm machinery are the most valuable 'business machinery' you own. Your production and your prosperity depend on it. Protect all your farm machinery with the finest lubrication that money can buy. Keep engine wear to a minimum with regular changes to Skelly Fortified Tagolene Heavy-Duty Motor Oil. Reduce bearing wear with Skelly Tagolene Long-Life Greases. Switch to Skelly and Save. Save real money!"

Food is our job . . .

Food—more than ever before produced—is the job of American farmers. Called on by the government year after year for greater and greater crop yields, the men on the soil have responded with fabulous totals. Last year six million fewer people on farms than the number in 1940 turned out 7 per cent more food per person for a population increased by 22 million. Now in 1952, with even fewer farmers than last year, national food goals are 6 per cent above those of 1951. They are nearly 50 per cent higher than the average of 1935-39 productions!

I tell you the record of our country's farmers is a proud one. Never before anywhere have so few people produced so much for so many. If we are to have war, our food production power is a unique weapon for victory, one no other nation on earth can equal. If we are not to have war, a well-nourished population and a substantial food reserve are guarantees of a continuing peace.

Food is our job. We're on top of it, day after day, all day long. Our determination is that 1952 must better the impossibly high totals of harvests already made.



HINTS for House and Garden

To remove paint spots from windows, wash with a strong solution of soda.

Garage floor musty? Odors will disappear and concrete will clean easily when newly cut grass is spread on garage floor. Let stand several hours before sweeping clean.

Over-salt your soup? Drop a sliced raw potato into cooking utensil and boil for a few moments. Before soup is served, remove potato.



PRIZE WINNING HINT

To speed up that much-dreaded ironing job, remove the ironing board cover, place aluminum foil on pad, replace cover and see how much faster you can finish ironing. Foil reflects heat back up through the article being ironed.

Submitted by: Mrs. Nadine Cross
Route #4, Lamar, Mo.



Corn goal up again

Corn production must advance sharply again this year, if we are to fill the needs for feeding, commercial uses and to build up critically low reserves. According to the U.S.D.A., a substantial increase in yields on 89 million acres is required. This is 3 million more acres than were planted to corn in 1951.

A total of 3,375 million bushels is needed—and huge as it is—it's only an indication of the future. In a few years, our goal will be a whopping 3,700 million bushels, based upon the fact that the U.S. population is increasing at the rate of 2 1/2 million per year. With 90 million acres about the limit that America can devote to corn, the future will call for an average increase in yield of about 8 bushels per acre.

See or call your Skelly Farm Serviceman today!

SKELLY OIL COMPANY

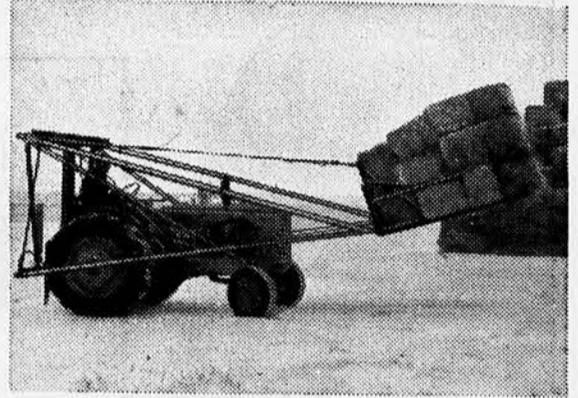
P. O. BOX 436, KANSAS CITY, MISSOURI



"Baling hay? Cut handling costs with a FARMHAND Loader!"



"WE HANDLE 140 BALES AN HOUR with our Farmhand Loader. It does away with one man—and an awful lot of back-breaking lifting."



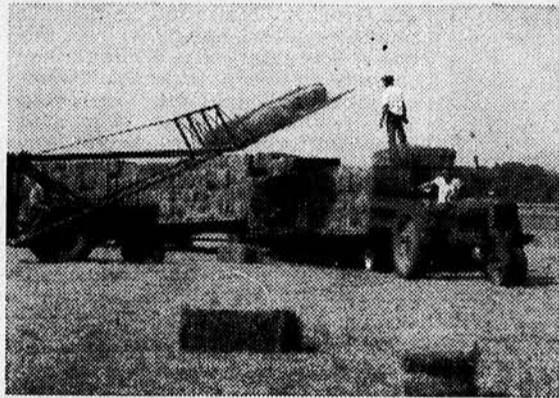
STACK BUILDING. No costly loading and unloading, no heavy lifting! One man on a tractor with Farmhand Hydraulic Loader sweeps bales . . . transports them directly to the stack . . . raises them over 20 feet, quickly, easily, surely, with smooth hydraulic power.



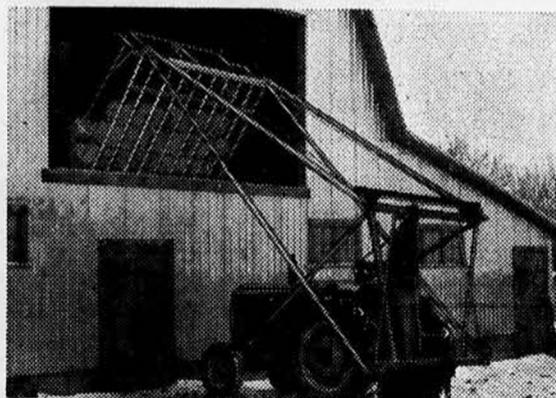
5 to 7 TONS AN HOUR—with just two men. Government surveys show costs of stacking loose hay the Farmhand way are 50% less than other mechanical stacking methods. Farmhand Heavy Duty Loader with Hay Basket and Push-Off stacks 27 feet high—saves time, labor.

"I CAN SWEEP 10 to 12 BALES at a time without stopping—or 16 bales by pausing to straighten them," says Donald Thexton, Ennis, Montana. Field-to-stack, or field-to-transport, the Farmhand Loader speeds bale handling—cuts costs—saves manpower!

"I COULDN'T AFFORD to bale my hay if I still had to handle bales the slow, old-fashioned way," says another Farmhand owner. My Farmhand Loader eliminates costly double handling in the field, makes bale handling so easy I can use green, inexperienced help.



ONE-MAN LOADING. It used to take two husky men or more to load the bale-hauling trucks. Last year my youngest son handled the job alone, using our Farmhand Loader with Hay Basket Attachment. Two men's wages for 9 days made a welcome addition to our hay profits.

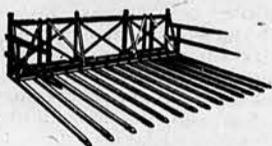


I PUT BALES ANYWHERE. Farmhand Heavy Duty Loader with its big 21-foot reach lets me store my bales quickly, easily—anywhere. All my lifting and moving jobs are easier, faster, far less costly since I replaced back power with Farmhand power.



FOR BETTER CHOPPED HAY. The quick, convenient Farmhand way of stacking chopped hay saves the most valuable part of my hay—the finely chopped high-protein leaves . . . speeds up stacking and unloading . . . keeps my wagons rolling.

ATTACHMENTS FOR FARMHAND LOADERS



HAY BASKET



HAY BASKET WITH PUSH-OFF



GRAPPLE FORK



SEND COUPON NOW FOR COMPLETE FACTS!

Dept. 609 The Farmhand Company
Hopkins, Minnesota

Name
Address
Town
State

Pictures, complete facts about Farmhand Hydraulic Loader and Attachments.

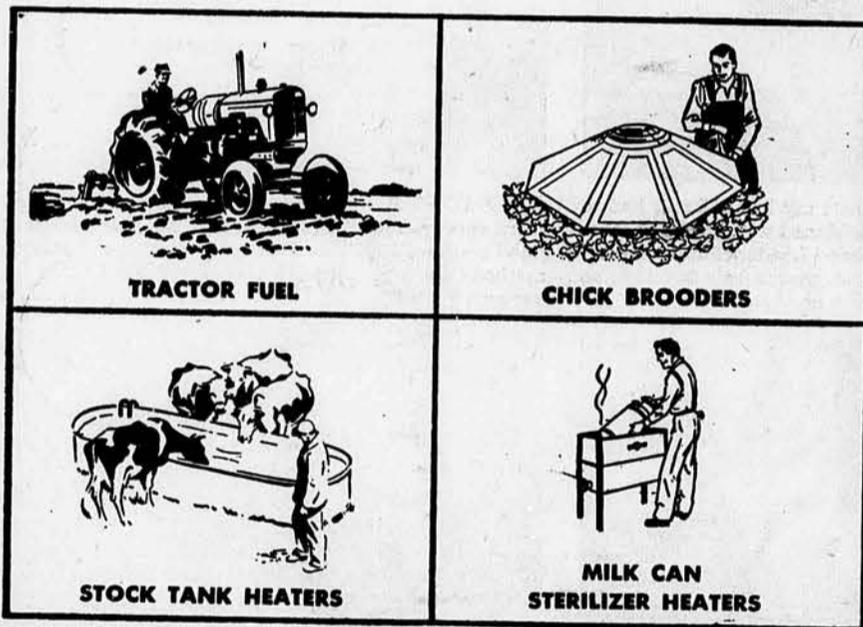
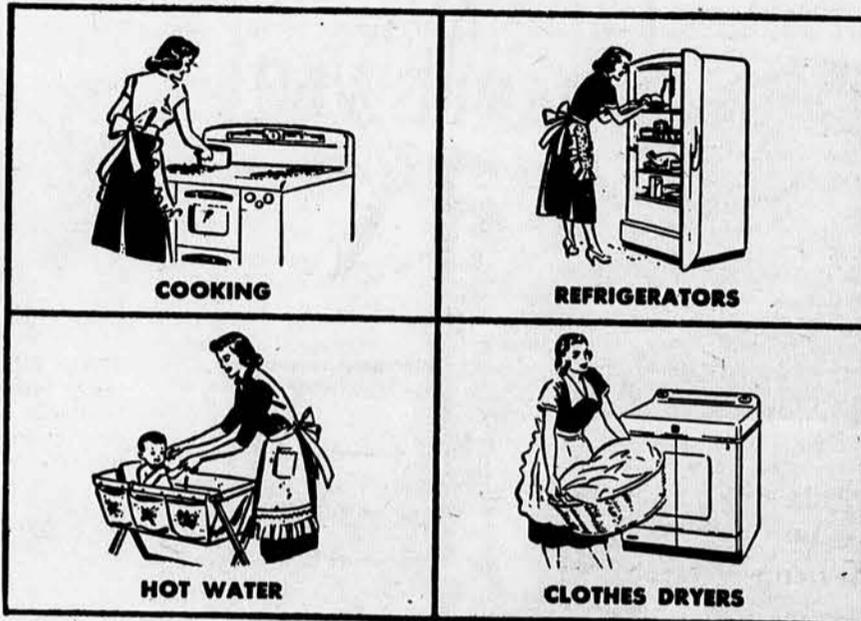
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Modernize Your Farm with PHILGAS!



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You can't beat Philgas as a tractor fuel. It's a low-cost, high octane fuel that can save you money in tractor operating expenses. And for other jobs around the farm, like heating chick brooders, hay drying, stock tank heaters, milk

can sterilizer heaters and many more—Philgas is always dependable.

When you use this modern all-purpose fuel you have your fuel supply tank right in your own backyard. Never any worry about bad weather cutting off your heat or power. See your Philgas Dealer . . . get the full, complete details about the many, many advantages Philgas has to offer.

*Philgas is the Phillips Petroleum Company brand-name for its high quality LP-Gas.



SEE YOUR NEAREST PHILGAS DEALER FOR FULL INFORMATION AND FREE LITERATURE
PHILLIPS PETROLEUM COMPANY
Bartlesville, Oklahoma

Seeing America

(Continued from Page 14)

treacherous river. Since discovery of the Colorado in 1540, until completion of the dam in 1936, the river has defied the puny efforts of humans. Construction of the dam, authorized by Act of Congress, was begun in 1931.

Hoover dam, world's highest, 726 feet, and third largest in total yards of concrete used in construction, is dwarfed by the surrounding canyon, but its construction challenged the ingenuity of engineers and is considered a great achievement.

Solve Building Problems

Before construction could begin, tunnels were bored thru the solid rock walls of the canyon, to divert the stream around the dam site, no small feat in itself. These tunnels are now a part of the outlet system. Hoover dam is unique in that no water flows over the dam. Instead one of the main east-west highways crosses the crest of the dam. Intake towers channel the water thru the power plant to generate electricity. Generating equipment is operated under contract and provides power to cities of the Southwest. Sale of energy will in time pay for construction of the dam. Hoover dam creates a huge reservoir, Lake Mead, which extends 118 miles and stores water from spring floods for irrigation of crops in the Imperial and other fertile valleys.

Boulder City, designed as a construction camp for the personnel engaged in building the dam, was planned to afford all modern conveniences to its residents. All land is owned by the Federal Government and leased to homeowners or those awarded business permits. It is a city of modern homes, schools, churches, tree-lined streets, green grass, parks and thriving business houses, a great contrast to the surrounding desert. It is the starting place for trips to Hoover dam and the Lake Mead recreational area. At the visitors bureau in Boulder City a motion picture film depicting actual construction of the dam is run continually during the day. One should see the film before inspecting the dam. For a fee of 30 cents, trips thru the dam are conducted every hour or more often if the occasion demands. The elevator descends 528 feet to the level of the powerhouse, and workings of the complicated machinery are explained by the guide. An exhibit building, near the crest of the dam, may be visited where a scale model of the region shows the problems and accomplishments of the project.

See Desert Resort City

From a mere stopping place on the Old Overland Trail route in the 1850s, Las Vegas, Nev., has grown to a fabulous desert resort city. While the town sprawls out over considerable distance, activities and highlights are centered in a few blocks called "The Strip" where glittering ornate casinos crowd both sides of the street. Equipped with every known device to separate the visitor from his bank roll, so called "gaming" places never close and the gambling business is state regulated.

Plush resort hotels featuring swimming pools, night clubs furnishing entertainment by big name bands, restaurants serving exotic foods, draw people to Las Vegas. Swanky motels and deluxe tourist courts line highways into town. It is the place of "quickie" marriages.

Las Vegas is a meeting place of the old and the new West. Cowboys, ranchers and miners mingle with Hollywood stars, notable from everywhere and the ordinary tourist. One establishment has created an entire Frontier Town complete with stores, a schoolhouse, jail, saloon, and Chinese joss house to attract visitors. Prairie schooners, surries with the fringe on top, all sort of vehicles and hundreds of articles of a by-gone era have been collected and are on display.

Home-Talent Playlet

"The Rehearsal," is for school-age children, either grade or high school, and requires little stage setting. The playlet is easy to coach and suitable for any time of year. Write to Entertainment Editor, Kansas Farmer, Topeka. One copy, 5c, 10 copies for 30c.

State FFA Farmer Degree Goes to 135 Members

STATE Farmer Degree, highest honor to a state FFA member, went to 135 members at 24th annual convention of the Kansas Association of Future Farmers of America at Manhattan April 28. Only 2 per cent of total state FFA active membership receives the degree so competition is keen. Strict requirements in the boys' record books and farming programs must be met before the degree can be won.

The 1952 class of State Farmers include:

Keith E. Schultz, Robert Ray Watkins, Alma; Charles Dale Miksch, Altamont; Gayle Carswell, Marvin Dimond, Merlin Grimes, Warren Nichols, Alton; Donald Hunt, Arkansas City; Le Roy Luedders, Atwood; Dewey Brubaker; Kay Klaumann; Willis Naysmith; Karl Morgan, Belleville; Neal McKee, Arden Treaster, Beloit.

Lucren Allen Bunjes, Bird City; Jack Rehm, Bonner Springs; Alfred Schmidt, Buhler; Ronald Cheyney, Hal Sinclair, Glenn Wrestler, Chanute; Robert Riffel, Chapman; Billy Ray James, Clay Center; Jay Disberger, Bill Scholes, Council Grove; Glenn Butler, William E. Gerety, Stanley Larson, Floyd Oswald, Gorman Wallingford, Effingham.

Stanley Weldon Braman, Gene Dickinson, John Unger, El Dorado; Dwight Bush, Ronnie Hughes, Albert Spencer, James Thomas, Emporia; Dale Allen Sharp, Fredonia; Clifford Mayo, Jim McMillan, Garden City; Leo J. Hall, Great Bend; Norwood Blanke, Hanover; Richard J. Baker, Hays; Jarry Moore, Burton Smith, Holton.

Rex A. Bantz, Roy Irvin Lister; Bill E. Perkins, Howard; Richard H. Mosier, James O'Dell, Hoxie; Kenneth Kirten, Iola; Arliss Lyle Adams, Leonard Dale Sprague, Kincaid; Wayne E. Blumanhourst, Rex M. Brown, Julius Weber, Kingman; Lyle Botkin, Kiowa; Calvin G. Weeks, Lawrence. Elbert Leroy Fiene, Daryl L. Haegert, Bob Haresnape, Lebanon; Kermit Case, Delbert Hays, Little River; Leon C. Marrs, Longford; Glenn R. Bauck, Lyndon; Alan Phillips, Anton Straufus, Manhattan; Ferris W. Chilcott, Marvin McDill, Bob Murphy, Mankato; Bruce Ungerer, Marysville; Raymond Hartman, John Hiller, Bill Metcalf, McCune.

Gordon Courtright, Ronald Moreland, McDonald; Clinton Krehbiel, Delano Schafer, McPherson; Dean Bloom, Medicine Lodge; Albert L. Wheelock, Medicine Lodge; Ronald D. Parks, Charles R. Pettijohn, Castle I. Thompson, Shawnee-Mission; Bilby Empson, Paul Shannon, George Wehking, Miltonvale; Stanley Flett, LaVon Schmidt, Minneapolis.

Marvin LeRoy Heck, Morrowville; Nelson Dale Galle, Moundridge; Dwayne Reuser, Mulvane; Clayton Harms, John O. Huebert; Maurice Kurr, Newton; Gary L. Miller, Norcatar; Leo F. Beckman, Norton; A. Carroll Chambers, Aard W. Erickson, Earnest E. Huff, Arnold W. Morton, Oberlin; Billy Ketter, Joe Dale Green, Osborne; Jimmy Allen, Ottawa; Robert Louis Dickinson, Paradise.

Arlen Ehm, Dennis Ehm, Phillipsburg;

Raymond Ganoung, Plainville; Jerald L. Draney, James R. Moynagh, George L. Wright, Powhattan; Merlin R. Krehbiel, Stanley Wingate, Pretty Prairie; Leon C. Neher, Virgil Norton, Quinter; Roger Carlson, Warren Carnahan, J. W. Johnson, Randolph; Melvin Vincent Martinek, Silver Lake; Billy Lee Bolton, Delvin Duane Duntz, Smith Center.

Gene Cook, Gary Neilan, St. Francis; Darrel Odle, Stockton; Ronald Squire, Syracuse; J. Martin Quaney, Topeka (Washburn); Duane C. Seitz, Wakefield; Jackie Froehlich, Willis Razor, Jim Stamm, Washington; Mark Drake, Amos Hann, Jr., Marvin Dean Krepps, Leland D. Shoup, Ralph Waite, Winfield, and Altis Gordon Ferree, Yates Center.

Members of the executive committee who chose the 135 winners (there are 6,865 FFA members in Kansas) included L. B. Pollom, Topeka, state FFA adviser; R. I. Throckmorton, dean of the School of Agriculture, Kansas State College; A. P. Davidson, state FFA executive adviser; L. F. Hall, FFA executive secretary; Clem Young, Cheryvale, president, Kansas Vocational Agriculture Association, and Marvin Decker, Holton, president, Kansas FFA Association.

Guest speaker at the annual convention was Donald Staheli, of Utah, president of the national FFA organization. He also met with state FFA officers and reviewed candidates for state offices, reviewed entries in state better chapter contest and attended the state FFA public speaking contest.

Lift Ban on Mexican Meats

The ban on livestock and meat shipments from Mexico into United States, in effect since 1946 will be lifted September 1. USDA officials state Mexico will be able to ship more than 500,000 head of cattle across the border annually.

The 5-year battle against foot-and-mouth disease is being won and lifting of ban may make it possible for Mexican beef shipments to hold down American meat prices. Altho more than 1,000,000 animals were slaughtered in the joint U. S.—Mexican campaign to wipe out aftosa, herds there were built up to enable Mexico to regain its former position as a major meat exporter.

Shipments from Mexico will counter-balance recent losses from Canada, due to banning shipments because of outbreak of the dreaded livestock disease there.

WINS \$50,000 VFW CONTEST

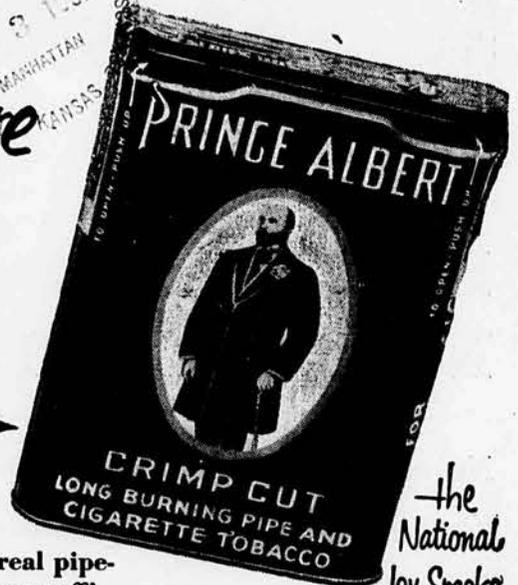


DONALD H. DUNN, former Marion county farmer, and his family receive news that Mr. Dunn is national winner in a \$50,000 farm contest sponsored by the Veterans of Foreign Wars. Presenting the award is Herbert L. Rosenkrantz, chairman of the VFW National Agriculture and Development committee. Also shown are Mrs. Vernetta Dunn, and daughters Deanna 8, and Sally Ann 5. On May 29, the Dunn family will receive an 80-acre, ready-to-use farm in the Columbia Basin in Washington state. A World War II veteran, Mr. Dunn lost everything on his farm in the 1951 floods.



BITES' OUT PLEASURES' IN

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Prince Albert's patented* "No-Bite" process means real pipe-smoking comfort with every puff!

*Process patented July 30, 1907

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You'll get more smoking enjoyment from Prince Albert than from any other tobacco. P.A. is specially treated to insure against tongue bite. It's favored by pipe smokers and roll-your-owners, too, because it smokes cool and mild. Get P.A. today.

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Sizes 11-16-21 & 28 ft. GET PARTICULARS AND PRICES TODAY! LINK MFG. CO. FARGO NORTH DAKOTA

An Informational Advertisement on Fertilizer by Spencer Chemical Company.



"I'VE SET 80 BUSHELS as my corn production target," says Victor Mares (left) of Schuyler, Nebraska. He is talking to A. F. "Uncle" Svoboda

of Wagner Mills, Schuyler, who has supplied his fertilizer and advised him upon its effective use. The Mares farm consists of 500 acres.

His "Corned-to-Death" Field Now Makes Up To 90 Bushels

Nebraskan uses balanced fertilizer to build "worst land on farm" into heavy producer

EVER WONDER WHAT WOULD HAPPEN if you left one of your fields in corn for 50 years straight—without any legumes or manure? Big, friendly Victor Mares knows what would happen. He had such a field on his 500-acre farm near Schuyler, Nebraska. Ten years ago the yield from this 20-acre field had dropped alarmingly. It had been literally "corned-to-death" since the days of the early pioneers.

THAT'S WHEN VICTOR MARES began using fertilizer. His yields began to increase at once. By 1950 he was putting on 150 pounds of Spencer Ammonium Nitrate Fertilizer per acre, plus 80 pounds of 8-32-0 for starter fertilizer. Result: this "corned-to-death" field produced 90 bushels of corn per acre! Even in 1951, a poor year for Nebraska corn, he harvested 60 bushels from this field once considered the poorest of his 500 acres!

A THOROUGHLY PRACTICAL MAN, Mares now has set 80 bushels as his production target for corn. When he makes this goal, Mares feels that he is doing a good job of farming.

NOTE: Current demand for Spencer Ammonium Nitrate Fertilizer exceeds supply. Your dealer may not be able to fill your order. We are operating our plants 7 days a week, 24 hours a day, and are doing our best to increase output.



PROF. EMIL TRUOG (left), Chairman, Wisconsin University's Dept. of Soils, talks with James Menn, Spencer's Wisconsin agronomist. "Many millions of dollars," says Prof. Truog, "are being added to the annual income of farmers by the use of fertilizer. By greatly increasing crop yields on the more level lands, this use is lessening the need of growing crops like corn on sloping lands subject to serious erosion."

"USE OF FERTILIZERS becomes a major factor in lessening erosion and promoting conservation of our natural resources. The need of including more and more nitrogen in the fertilizer being used is becoming increasingly apparent each year."

"MR. N" - NEW SYMBOL OF NITROGEN

SPENCER

AMMONIUM NITRATE FERTILIZER

FREE BOOKLETS: Write to Spencer Chemical Co., 617 Dwight Bldg., Kansas City, Mo., for these free booklets.

- "Nitrogen Timetable" for My State.
- "You Can Grow Corn for 25c a Bushel."
- "Soil Building for Extra Profits."

Thoughts TO LIVE BY

"A Penny for Your Thoughts"

I WAS WALKING down the street one morning when Bill Smith, the practical joker, approached. On this particular day, he appeared to be strangely serious. With a note of urgency in his voice, he asked, "Larry, can you spare a minute?" One always has time to do the needful things so I assured him my time was at his disposal. His impishness began to reappear as he said, "Good. Sit down and tell me all you know."

Bill Smith may underrate my mental capacity, but so help me, I'll never underrate the value of thought. Never will I sell my thoughts for a penny. Thought rules the world. Historically the conduct of men and nations closely follows their concepts. "As a man thinketh in his heart, so is he." The big difference between communistic Russia and democratic America is seen primarily in the ideas to which we give our loyalty. We grow in the direction of our dominant mental imagery. The man who thinks studiously and covetously about the perfect theft and clueless murder is heading toward a life of crime. The program of the farmer whose thought centers in crop research will be different from the one whose thought centers about the financial security of his family. It is usually assumed that theologians are good men. Why? They are human beings like all other people! But the assumption prevails that their lives will be colored by the thoughts they entertain. That means the choice of

our thoughts is of great importance. To us and to others.

But, someone says, my thoughts are not only small and inconsequential, often they are base and mean. How can I rid myself of these inferior thoughts? It is obvious one can never banish a thought by thinking about it. The only way to eliminate an inferior thought is to replace it with a superior one. Resentment kept a man tossing sleeplessly upon his bed. In the long, lonely hours of the night, he took himself to task. Why should he wear himself out? Resentment was hurting him and not the person who had wronged him. But how could he discard his resentment? Well, this particular person forced himself to think about the Good Shepherd who leads his sheep into the lush pastures and beside the gently flowing waters. With his thought on the Shepherd Psalm, he relaxed and fell asleep.

Paul has given us a helpful formula: "Whatsoever things are honest, whatsoever things are just, whatsoever things are pure, whatsoever things are lovely, whatsoever things are of good report; if there be any virtue, and if there be any praise, think on these things."

No one who follows this formula should undersell his thoughts. They are worth far more than a penny. But this is also true: he is so rich that he can afford lavishly to share his thoughts with others. What he will not sell, he can generously give away.

—Larry Schwarz

No. 9 in flower series written by a man who grows them by the acre

MARIGOLDS Come From South

By FRANK PAYNE

THE MINUTE YOU MENTION the flower "Marigold," right away someone will wrinkle up his nose and say, "Phew, oh my, surely Frank, you are not going to write about such stinky flowers as Marigolds?"

Well, why not? I like Marigolds and do not mind their spicy odor. I think they are a wonderfully decorative flower for the home garden. They are sturdy too, and when all other flowers are wilted in a hot July or August sun, you will find your bed of Marigolds in full bloom, fresh as can be, and smiling at you. The reason is they were found in Old Mexico and South America and can stand lots of hot sunshine.

Now, I will agree that to some folks the odor from a cut marigold might be offensive, but others do not mind at all. Let us consider some actual facts for a moment. That odor does not come from the flower, but from foliage and stems just like the herb peppermint. You can cut a bloom of marigold, pull off leaves at bottom of stem, place in a vase of cold water. In a few minutes come back to the vase and there will be no odor, provided you do not again touch or bruise the foliage or stems.

Another thing to remember is you can now buy varieties of Marigolds that do not have any odor in leaves or stems. A lot of improvements have been made the last 10 years. In this article I will give you a list of new varieties well worth your time. For a few pennies for seed that are good ones for you to try and find which one suits you best.

Marigolds are so easily grown I will not take up much of your time with cultural directions. I always sow seed outdoors about May 1 to 10. When they are about 6 inches high, about middle of June, transplant just as you would tomato plants. Select a cloudy or rainy day to do this and plants will not even wilt. I plant 18 inches apart for the tall-growing types in a sunny spot. If you want your marigolds to bloom real early you can start seeds in the house in March, then transplant when frost danger is past. The little dwarf French type can be sown thinly right where they are to remain.

Marigolds do not require a rich soil. Bugs do not bother them so that is another point in their favor. Just give them plenty of room in a sunny spot

(Continued on Page 19)

"Shower" Leaflets

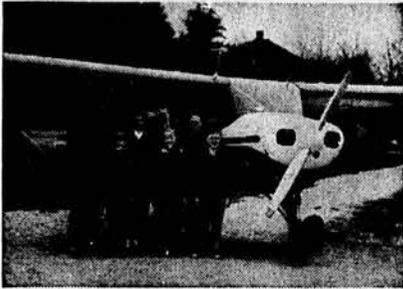
If you are planning a stork shower or a party for the June bride, we can recommend these leaflets:

"Streamlining the Stork," clever suggestions for entertaining and presenting the gift.

"Sewing Shower for the Bride-to-Be," suggested lunch table decorations and a quiz program.

Write to Entertainment Editor, Kansas Farmer, Topeka, and enclose 5c for each leaflet desired.

FLIES CHILDREN TO SCHOOL



Imagine the thrill the four Scott children get when their dad flies them to school! Some fun for them, but that's only one of hundreds of uses Hersil Scott of Huntington, Indiana, finds for his Piper Tri-Pacer.

"An airplane's just as handy and useful on the farm as a car or truck is," says Mr. Scott, who raises hogs and dairy cattle. "And the new Tri-Pacer has made flying really safe and easy for the average person."

And Mrs. Scott adds, "I think flying's grand. We make many family trips we just couldn't make otherwise. Last year we even flew to Havana, Cuba."



Easiest plane to fly today! That's the Piper Tri-Pacer with simplified controls and tricycle landing gear. You just steer it like a car. FREE lessons when you purchase your own Piper.

YOUR FARM'S YOUR AIRPORT

With a landing strip on your own farm, such as the Scotts have, think how convenient a Piper would be for you—to survey your land and crops, to fly to market or cattle sales, to get urgently needed parts or just for glorious trips with the whole family.

For full details on how safe, simple and economical Piper flying is, see your Piper dealer or write for FREE CATALOGUE to Piper Aircraft Corp., Lock Haven, Penna., Dept. 5-KF.



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 Everlasting TILE
 Cheap to install. Trouble Free. Also Tile Stave Silos. Outside Reinforcing.
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Dump it BODY HOIST
 gets more work done with less help
QUICKER!
EASIER!
LESS COST!
 Now you can handle crops, feed, gravel, etc., at a fraction of former costs—with a DUMP IT Hydraulic Body Hoist. Fits any chassis, 1-1/2 tons and up.

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St. Paul HYDRAULIC HOIST
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 36113 Main Street, Wayne, Mich.
 Send details on Dump It Hoist
 Name _____
 Address _____
 City _____ State _____
 Dump it for extra profits!

and you will not have any worries. They will do well regardless of weather conditions. Keep the old flowers cut off so they will not go to seed. You cut off one old bloom and 4 more come back on the same stem, so you can see they are very generous in blooming.

Now a few words about the various types. The large-blooming types are called "African Marigolds" but they really came from Old Mexico. They are wonderful for making up large baskets of flower arrangements and easily keep a week when cut in the very hottest weather. Simply change the water each day, and cut a tiny piece off the stem each time you change the water so fresh water can feed up thru stem to flower. I have grown this type of marigold as large as 6 inches across.

Orange Prince and Lemon Queen are 2 good double African varieties. If you want all shades of the very largest size flowers be sure to get a packet of "Sunset Giants." You will have some flowers so large they will amaze you. Now you also can get some of the new kinds with large flowers and INCURVED petals, fully double and at a glance you would think they were the large, shaggy chrysanthemums folks wear to a football game at Thanksgiving time. They are: GLITTERS, a mum-type. FRILLS has blooms like carnations and the foliage is odorless.

Found in Old Mexico

Now the low-growing types are called "FRENCH MARIGOLDS" but they did not come from France; they, too, were found in Old Mexico. You can get them in all shades of orange, yellow and red combined colors. They make wonderful border plants, or a flower you can sow the seed where you have a lot of bare space to cover and you want plenty of color. These cute little marigolds are dandy to cut and make dainty little table bouquets or for Halloween time decorations. The seed is not costly and will not take up much of your time.

I promised I would give you names of some newer types and novelties which show great improvements over old-time marigolds. You will find them on sale at your seed store: HAPPINESS, a mum-type, golden yellow. MAMMOTH MUM, fluffy ball-type, sulfur yellow. ORANGE SUPREME, peony-type, orange flowers. YELLOW SUPREME, peony-type, yellow. CUPID, double-dwarf, African-type, odorless foliage, golden yellow. COLOR MAGIC, double-dwarf, French-type, red and gold, 6 golden yellow. COLOR MAGIC, double-dwarf, French-type, golden yellow with red border, 12 inches in height. The correct botanical name for all types of Marigolds is "TAGATES." It is a Mexican name.

(My next article is about Cockscomb and other old-fashioned flowers.)

Name IFYE Winners for 1952

Announcement is made of 5 Kansas youths as winners of International Farm Youth Exchange awards for 1952. Each will spend a year working on a farm in a foreign country.

The group includes Nadine Entriakin, Abilene, who will go to Finland; Jack Grier, Pratt, Norway; Irene Rawlings, Eureka, Scotland; Marion J. Tongish, Herndon, Austria, and Joan V. Engle, Abilene, Denmark.

Four Kansans participated in the program last year. Kansas Farmer brought you letters telling of some of their experiences.

Plan Your Farmstead

For a beautiful and practical yard, garden and farmstead, plan your yearly plantings and use of buildings. For aids on this subject, write us for a copy of Kansas State College publication, "Planning the Kansas Farmstead." Address Farm Service Editor, Kansas Farmer, Topeka. No charge.

Don't Depend on Rain...

depend on **FAIRBANKS-MORSE**
the POMONA LINE!

You can depend on Fairbanks-Morse Deep Well Turbine Pumps... *the Pomona line.* You're always assured a steady water supply... just when you need it.

Improved features make the difference in Fairbanks-Morse pumps... the modern impeller design for either semi-open or closed impellers... the easy, above-surface adjustment... and "Fairmorflecting"—a rust-repellent developed for all steel parts subject to corrosion.

This difference shows up in more profits for you, so drop in and see your Fairbanks-Morse Dealer. He's also a competent irrigation man and can help you increase your yield and put more money in your pocket!

FAIRBANKS-MORSE,
 a name worth remembering
 PUMPS • DIESEL LOCOMOTIVES AND ENGINES • ELECTRICAL MACHINERY • SCALES
 HOME WATER SERVICE EQUIPMENT • RAIL CARS • FARM MACHINERY • MAGNETOS

kitten-soft... *...A BEAR FOR WEAR!*

Here truly is the combination you want for solid comfort, long wear. Sweat-proof insoles won't curl or crack. Extra-wide, spring steel arch support cradles your foot—keeps you stepping lightly throughout the day.

AT YOUR DEALER'S

Write for our booklet—**"YOUR SHOES"** FREE!

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ELEVATOR**

*For Farm
Profits!*



- HOWRY-BERG All-Purpose Elevators are wide—will take bales lying flat, big loads.
- Portable—can be taken almost anywhere behind car or truck.
- Versatile—will handle all kinds of farm products...small grains, ear corn, beets, potatoes, chopped hay or alfalfa, square or round baled hay or alfalfa.
- Easily assembled, completely adjustable to desired angle, extra sections (8-foot) easily added or removed for desired length.

**SPIRAL GRAIN
LOADER**

**1,000 bushels
per hour—**



Saves Time, Labor, Money!

- HOWRY-BERG Spiral Grain Loaders are among the world's best.
- Five convenient lengths available: 12, 16, 21, 31, 41 feet. Available with or without carrier.
- Lasts Longer—Heavy-duty auger spiral flanged to reduce wear.
- Completely adjustable—angles and situations are no problem...engine mounted low on tube. Countershaft drive available.
- Handles all grains, cereals, beans or other free-flowing material with ease and speed.
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- Accessories available: Gravity Hopper, Feed Control Gate, Flexible Discharge Spout, etc.

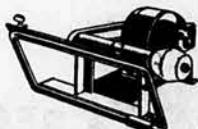
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GARDEN INSECT CONTROL

By WILLIAM G. AMSTEIN, Kansas State College



"Sometimes it seems you need a dozen hands."

GARDEN INSECTS do too much damage every year to most farm gardens. Prevention by early control measures is important if useful products are to be produced. Garden insect control is much easier now with rotenone, DDT, Cryolite, Methoxychlor, Chlordane and other new materials now available.

Cabbage worms are getting underway in good style on cabbage, cauliflower, broccoli and related crops. There are several different cabbage worms. You may recall the white or mottled butterflies lately flying or hovering around cabbage plants. You can expect to find cabbage worms or evidence of their injury very soon on plants that have made any growth.

Cabbage worms, chewing insects, may be controlled by stomach poison sprayed or dusted on crops when they are noticed. A small hand duster is often convenient for applying the material. Better results will be had by dusting than by spraying cabbage since it is difficult to keep the mixture from running off. A one per cent rotenone dust or a 3 to 5 per cent DDT dust can be used for cabbage worms according to directions on the container.

Plant lice or aphids may be causing leaves of peas or cabbage to fold. Use of nicotine sulphate (Black Leaf 40), Lindane or rotenone either as a dust or spray works quite well. Often leaves are rolled before presence of aphids is

noticed and resulting control is poor. Many of us blame the control measure if results are unsatisfactory. Earliness and alertness in detecting insect or disease outbreaks is fully as important as knowing and using the correct control measures.

Early radish plantings should be destroyed as soon as you are thru with them. Do not allow them to remain to serve as host crop for a fine buildup of flea beetles. The small pinholes on the leaves of crops, such as radish, tomatoes, egg plant, cabbage, beans, and many other crops, are often the work of flea beetles. These flea beetles vary in color and size. Usually they are black or brown with or without stripes and about the size of a pinhead.

If a heavy outbreak of flea beetles occurs, use a 3 or 5 per cent DDT dust for best results. Remember that lower sides of leaves must be treated as well as top side. Also, do not expect one application to give control for all season. Rotenone could be used.

Many bean leaves have been badly injured the last few years. Bean leaf beetles have been very common. This beetle may be confused with the cucumber beetle, but is smaller than the cucumber beetle and reddish-yellow in color with black spots. There are several materials used for control of bean insects. Cryolite is a very satisfactory

(Continued on Page 21)

GOOD DAIRY HERD START

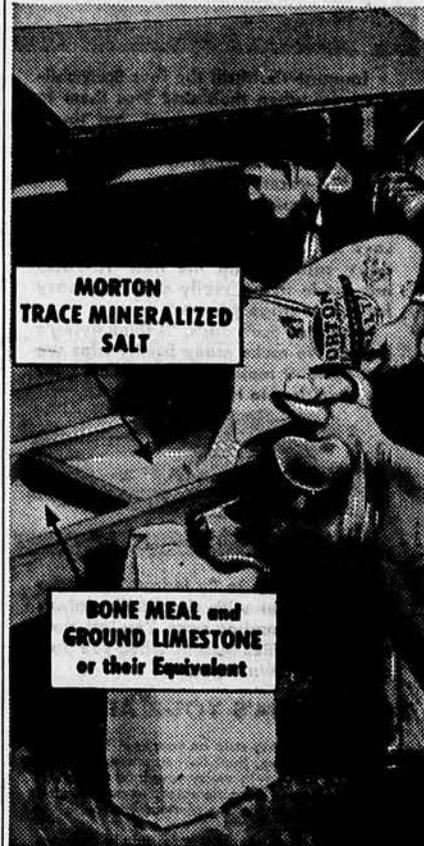


THIRTEEN-YEAR-OLD David Templeton proudly holds Prairie Blue Tea Rose, registered Ayrshire cow, while his father Edgar Templeton (left) and Floyd Bacon, Butler county 4-H Club agent, keep firm grip on Rosie's identical twin calves born February 28, on the Templeton farm, 17 miles northeast of El Dorado.

Rosie was purchased from Dwight Hull, Butler county Ayrshire breeder, (who writes dairy column for *Kansas Farmer*), and the calves, both heifers, were sired by Nesheminy Jim, registered herd sire on the Hull farm. The twins were named Du-Ayr-Judy and Du-Ayr-Jane.

David started his dairy project in October, 1949, with purchase of Prairie Blue Tea Rose. He doubled his herd last fall by purchasing Prairie Blue Jazebel, also from the Hull farm. Prairie Blue Tea Rose is now producing 30 pounds of 4 per cent milk each day. She was judged reserve champion Ayrshire at Butler county 4-H show in 1950 and 1951.—By L. P. Klmtworth.

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livestock need this
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GROUND LIMESTONE
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**MORTON
Free Choice
TRACE MINERALIZED
SALT**

material. It should be used according to the manufacturer's directions, but in most cases a 50 per cent Cryolite dust is used. Rotenone also can be used with good success on this problem. Be sure to cover the lower surface of leaves. Avoid use of lead arsenate on beans since it seems to injure plants. Likewise, avoid working in beans when foliage is damp or wet.

Potato bugs, leafhoppers and tip and margin burn on foliage are often very damaging. Materials such as lead arsenate, calcium arsenate, or Paris green have been used in the past for potato bugs. However, new materials such as a combination DDT and copper dust can be used. This gives good results on both potato insects and tip and margin burn caused by leafhoppers, as well as for other diseases.

Striped cucumber beetles working on cucumbers, pumpkins and squash should not be handled ordinarily by use of DDT. Severe plant injury has often been re-

ported even the good beetle control has been obtained with DDT. Use of one per cent rotenone dust starting when plants are small, or as soon as you plant the seed, is a good practice.

For many years, control of squash bugs has been a question. You recall the wood control method. That was using 2 blocks of wood with the squash bug in between and perhaps your thumb, also. A 20 per cent Sabadilla dust is now recommended. It will control many kinds of stink bugs, harlequin cabbage bugs, blister beetles, as well as squash bugs, and many others that are hard to control. Methoxychlor and Lindane also will do a fair job on this insect. Rotenone used early and often can be used.

If you want to grow sweet corn more nearly free of worm injury, plan to dust ears with a 5 per cent DDT dust just as the ears show silks. Use of a hybrid sweet corn variety such as Golden Cross Bantam or Ioana will permit you to dust most of ears at one time.

Other officers chosen at a recent election are George Wingert, Wellsville, vice-president; Ellen Banman, Centralia, secretary-treasurer; Harold Reed, Lyons, reporter; Neil Atkinson, Winfield, marshal; Evelyn Haberman, Heizer, song leader; Nancy West, Nekoma, pianist.

Two Kansas State College professors have been awarded Fulbright grants by U. S. Department of State to do research in New Zealand during 1952-53 academic year. They are Kling Anderson, agronomist, and Lucile Rust, home economist.

Mr. Anderson, pasture improvement specialist, will do research in agronomy at Massey Agricultural College at Palmerston North, New Zealand. Mrs. Rust, professor of home economics education, will do home economics research at University of Otago, Dunedin.

The 2 grants were among 340 in the United States for lecturing and research abroad next school year. Funds supporting the Fulbright program are foreign currencies from sale of surplus property abroad. The program is offered in 19 countries.

Several honors came to active rural life organizations in counties. Commended for increasing membership and percentage of increase, were Sherman county, 93 per cent; Riley, 37 per cent; Nemaha, 17 per cent; Crawford, 46 per cent, and Douglas, 15 per cent. Recognized for leadership were Shawnee, Dickinson, Sherman, Douglas and Crawford. Service to community activities were outstanding in these counties: Nemaha, Sherman, Rush, Marion, Shawnee, Riley, Clark, Cheyenne, Dickinson and Johnson.

When sewing on plastic materials, "baste with paper clips, not pins or needle and thread. Plastic shouldn't be punctured, except by permanent stitching.—Mrs. B.

Aids for Homemakers

Homemakers, we have 3 USDA publications available to help you with some of your home problems. Write us for a copy of any of these, no charge:

- FB 1474—Stain removal from fabrics: Home methods.
 - FB 1954—Making a dress at home.
 - FB 1968—Pattern alteration.
- Address Farm Service Editor, Kansas Farmer, Topeka.

Funds Increased For ACP Program

A small increase in funds for Kansas for the Agricultural Conservation Program has been made by the U. S. Department of Agriculture. Money available for conservation practices now totals \$6,393,000 for 1952, an increase of \$100,000. Funds are appropriated by the State PMA Committee, Manhattan, to various county committees, are then assigned to individuals. Public money pays for about half of the out-of-pocket costs for soil and water conservation work.

Collegiate 4-H Club Elects Officers

Newly-elected president of Collegiate 4-H Club at Kansas State College is Ivan Schmedemann, Junction City. He was an International Farm Youth Exchange delegate to Germany 2 years ago. You'll remember reading his stories of his trip in 1950 issues of Kansas Farmer.

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Honor Rural Life Groups

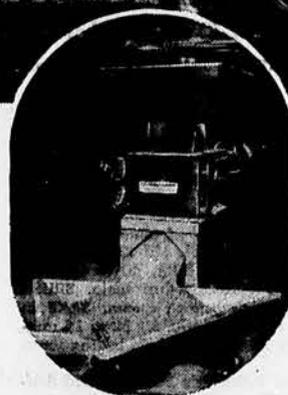
During 15th annual state conference of Kansas Rural Life Association, at Kansas State College, 3 new district directors were elected. They are Bill Putthoff, Effingham, eastern; Frank Garten, Abilene, northwest, and Mrs. Marvin Hampton, Dodge City, southwest. Each serves a 2-year term.

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Baste With Clips

When sewing on plastic materials, "baste with paper clips, not pins or needle and thread. Plastic shouldn't be punctured, except by permanent stitching.—Mrs. B.

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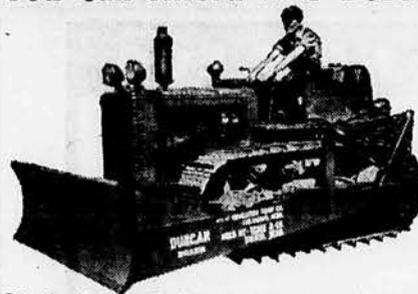
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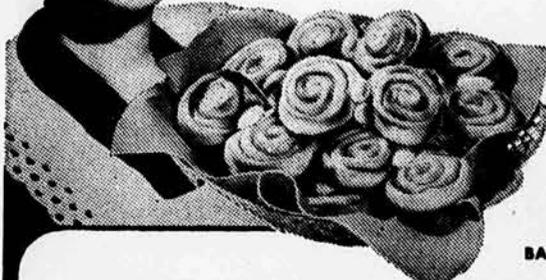
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\$1,000 BEAUTY BOW ROLLS

BAKE at 400°F. for 12 to 15 minutes.
MAKES 2½ dozen rolls.

DISSOLVE 1 package RED STAR Special Active Dry Yeast (or 1 cake Red Star Compressed Yeast**) in ¼ cup warm water (110° to 115°F.). COMBINE ¼ cup shortening, ¼ cup sugar, 1 teaspoon salt*, 1 tablespoon grated lemon rind, ½ cup scalded milk. ADD ½ cup cold water; cool to lukewarm. BLEND IN 1 egg, slightly beaten, and the dissolved yeast. ADD GRADUALLY 4 cups sifted Pillsbury's Best Enriched Flour*, beating well after each addition. Cover. LET RISE in warm place (85° to 90°F.) until almost double in bulk, 45 to 60 minutes. COMBINE ½ cup melted butter, ¾ cup firmly packed brown sugar, 2 tablespoons flour, 2 teaspoons almond extract; mix well. Reserve as filling for rolls. DIVIDE risen dough in half. Roll out each half on lightly floured board to 12x10-inch rectangle.

SPREAD with almond-butter filling. Roll as for jelly roll, starting with 12-inch edge. "Tie-off" ½-inch slices with a piece of thread. Arrange slices in pairs on greased baking sheet. Flatten to ¼-inch thickness and pinch each pair together to form a "bow-knot". PLACE a blanched almond in center of each roll for "knot". LET RISE in warm place until double in bulk, 30 to 45 minutes. Pinch rounds together again. BRUSH tops of rolls lightly with cream. BAKE in moderately hot oven (400°F.) 12 to 15 minutes. Remove immediately from baking sheet.

*If you use Pillsbury's Best Enriched Self-Rising Flour, omit salt.

**If compressed yeast is used dissolve in ¼ cup lukewarm water.

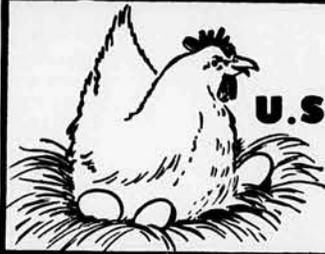
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9339
SIZES
2-10

4816
SIZES
12-20

4893
SIZES
12-20

4816—That tiny-waisted look! Bodice-back wraps to front for easy fit. Shirred bodice, graceful skirt. Sizes 12 to 20. Size 16 takes 4 ¾ yards 35-inch fabric.

4551—Here's your new sun-and-housedress with princess lines and frills. Sew-easy, too. Sizes 12 to 20 and size 40. Size 16 takes 4 yards 35-inch fabric; ¼ yard contrast.

9339—Adorable sundress for play. Add ruffy collar for dress-up. Sizes 2 to 10. Size 6 takes 1 ½ yards 35-inch fabric; ¾ yard contrast; bonnet ¾ yard.

9390—Slenderizing sport outfit! Playsuit plus button-on wrap skirt. Sizes 34 to 48. Size 36 playsuit and skirt take 5 ½ yards 35-inch fabric.

4898—Just right in sheer. Dirndl skirt with deep hem, seamless cap sleeved shoulders and square neck. Sizes 12 to 20. Size 16 takes 3 ¾ yards 35-inch fabric.

9332—Jiffy-sew for sunny hours. Halter is one main part, slips over head, wraps and buttons. Skirt is half-circle. Sew one seam, add belt. Sizes 12 to 20. Size 16 takes 4 yards 35-inch fabric.



9332
SIZES
12-20

4551
SIZES
12-20; 40

9390
SIZES
34-48

Pattern Numbers	Size	Name
		Route
		Town
		State

Kansas Farm Home and Family

FLORENCE McKINNEY, Editor



Whipped topping trims a variety of desserts, yet it's low in calories, high in nutrition and low in cost because it is made of nonfat dry milk.

Use It Often - Use It Freely

SOMETHING modern to the homemaker as the nipped-in waistline is nonfat dry milk, or in our language, dry skim milk. It is taking a part in the Nation's progress toward improved nutrition.

Every homemaker can find it on the shelf at her grocery, or the grocer can get it for her. For the 32,000 farms in Kansas without a cow, dry milk will be a convenient, inexpensive way of getting milk into the everyday meals. For everyone else it is one way to get more milk into the diet. For children who dislike drinking milk, it is a life-saver. Five quarts of nonfat dry milk may be bought for about 38 to 40 cents a package, which will make 5 quarts of liquid milk. But it need not be made into liquid milk. There are almost countless ways to use it.

Add some to the morning cereal, add it with the flour to your scalloped potatoes, use it instead of whipped cream on desserts, add it to soups, meat loaf, chowders, chocolate milk, bread and many other baked foods. It steps up the nutritional value of any food to which it is added. In most cases it does not change the flavor appreciably.

There are 2 great advantages to the consumer in using nonfat dry milk; first, it reduces the waste and increases the efficiency of our use of the milk produced. Second, it enables more of

the essential food values to reach the average person at a low cost.

If it is used as the entire milk supply in the day's diet, the fat and fat-soluble materials which have been removed from the milk in the drying process, should be increased. This may be done by eating a bit more butter, eggs, cheese, green vegetables, carrots, liver, sweet potatoes and yellow corn. If it is added to the diet over and above the whole milk needed, the diet is so much the better. It's a bargain, in fact.

Topping for Desserts

1/3 cup water	1/2 teaspoon vanilla
1 tablespoon lemon juice	1/2 cup nonfat dry milk

Put water in a 1-quart mixing bowl. Stir in lemon juice and vanilla. Sprinkle dry milk over top of liquid and beat with rotary beater or electric mixer until stiff; about 10 minutes.

Orange Topping

1/3 cup water	1/2 cup nonfat dry milk
1 tablespoon lemon juice	1 tablespoon grated orange rind
1/2 teaspoon vanilla	

Pour water, lemon juice and vanilla in deep

1-quart bowl. Sprinkle dry milk over top and beat with rotary beater or electric mixer until stiff; about 7 to 10 minutes. Fold in grated orange rind. Chill in refrigerator 1/2 hour before serving.

Maraschino cherries, or grated lemon rind may be substituted for the orange rind.

Pudding Mix

1 1/2 cups sugar	7 cups nonfat dry milk
1 1/2 cups corn starch	
1 teaspoon salt	

Combine all ingredients well and store in covered container. It need not be kept in refrigerator.

To prepare pudding, use 3/4 cup pudding mix to 1 1/4 cups water. Add water gradually, stirring until smooth. Bring to a boil over low heat. Add 1/4 teaspoon vanilla. Makes 3 to 4 servings.

For variations, to 3/4 cup mix and 1 1/4 cups water, add:

1. One tablespoon chocolate sirup or 1/2 square bitter chocolate shaved.
2. One-fourth cup chopped fruit, fresh, canned or dried.
3. One-fourth cup chopped nuts.
4. One-fourth cup toasted coconut.

[Continued on Page 24]

Pattern Service

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What We Owe a Speaker

WHOEVER speaks in public must understand there is a great deal more than just knowing what to say and how to say it. The speaker must be on time, she must be well-groomed, she must walk gracefully, refer to notes easily and freely, but never glue her attention to them.

She must not fidget with a necklace, a handkerchief or the notes in her hand. She must speak clearly, enunciate distinctly, speak with poise and confidence, smile sweetly before she begins to talk, then when she does, hold the interest of her listeners. Yes, much has been written on what is expected of a speaker. But very little on what the speaker should expect of her audience.

Have you, as a member of a club, a church group or any other group, ever considered your manners toward the speaker?

First of all the speaker is a housewife like ourselves more often than not, and just as busy. Because she is willing and able to serve her community, she is in demand.

A speech worth listening to must be prepared. She reads on the subject, she may even spend some hours in the library, she recalls her experiences, she outlines, condenses, makes notes, then memorizes quotations she plans to use as highlights.

When we invite a speaker to give of her time, it is rude to fail to provide her transportation if she receives no fee. Provide her with train or bus fare or call for her in a car.

The speaker wants to face her audi-

ence, the rules say she must. She looks hopefully at the chairman and asks, "Where shall I stand?" And her hostess says, "Oh, just anywhere you please."

By this time knitting needles are clicking or fingers are busy making crocheted pot holders, the ladies are rooted firmly in the chairs they selected. The speaker moves a small table or plant stand so she can stand as close to a wall as possible. The women are seated along all 4 walls of the room. It's not possible to face all her audience. No speaker enjoys having part of her audience behind her.

If the crowd is large, guests sit in 2 rooms. The speaker stands in the doorway between the 2 rooms. Try talking for 15 minutes, turning your head first to one side, then to the other. If your neck isn't sore the next morning, it isn't made of the usual makings.

The speaker may adore children, but she will not enjoy trying to speak loudly enough to be heard above the laughter and romping of little folks.

The speaker may be a coffee-drinker but she will not appreciate the best coffee ever perked, if her hostess tips-toes out of the room to start the percolator at the climax of her speech.

So-o-o-o, let's mind our manners. First, transportation, then chairs arranged in schoolroom fashion, then respectful silence for 15 to 20 minutes. We are not intentionally rude. We want our guest speaker to enjoy being with us as much as we have enjoyed being with her.

Freeze Eggs Now

WHILE EGG PRICES are low, now is the time to freeze them. They are one of the easiest foods to freeze. Here are directions. Freeze only clean, strictly fresh eggs. First, break them into a bowl, breaking each yolk. Add one tablespoon of corn sirup or sugar, or one teaspoon of salt to each cup of eggs. Mix well, but do not whip in any air. Adding salt, sirup or salt decreases the gumminess and makes the eggs more fluid when thawed.

The way you plan to use eggs will determine whether you sweeten or salt them. Sugar or sirup is desirable in baked products, but not in scrambled eggs or omelets.

News to You?

SOME foods should be stored only a month or less in your food freezer at zero temperature. Here's a list: leftover cooked foods, cake batters, sandwiches, ice cream, sliced bacon, frosted baked cakes and cupcakes, unbaked yeast rolls, unbaked quick bread, poultry livers and unsmoked sausage.

From now on all the rayon yardgoods will be marked either acetate or rayon. In the past both were called rayon, altho the 2 fabrics have entirely different characteristics. Acetate sheds wrinkles, washes easily and dries quickly. It melts when too much heat is applied in ironing. Rayon, on the other hand, is more of a utility fiber and stands more heat. Watch for the labels, say the manufacturers, so you will get the best service from your purchase.

Cut grapefruit in half. Remove every other section. Fill the empty sections with strawberries or other fruit. An interesting first course or dessert.

Window curtains are due for spring cleaning shortly. As for washing, most marquisettes, except spun glass, may be washed in the machine. Put the curtains in laundry-size mesh bags, 4 to a bag and 2 bags to the washer load. Run only a few minutes and rinse twice.

A squaw skirt for the summer is almost a "must." They are fun to wear, easy to make and require no ironing. Just roll up the skirt to a tight rope, tie at each tier and squeeze it into a nylon stocking. Hang up the stocking for drying. When dry take the skirt out, give it a few brisk shakes and presto, the squaw skirt is ready to wear.

Clean waffle iron by placing paper napkin soaked with household ammonia between the grids. Leave the napkin overnight. Ammonia loosens the grease. Wipe off with a cloth and grease

You may freeze yolks and whites separately. Add 2 tablespoons of sugar or sirup, or one teaspoon of salt to each cup of egg yolks and mix. Label the package as to whether salt or sugar was added.

To freeze egg whites, package them just as they are without mixing or adding salt or sugar. Package in moisture-vapor-proof containers and freeze immediately.

One tablespoon of thawed frozen egg yolk is equal to one egg yolk. One and one-half tablespoons of thawed frozen egg whites is equal to one egg white. Eggs frozen by this method will keep 6 to 12 months in your food freezer.

the grids again with lard or oil and heat before using.

You'll like garlic bread. Mix a little garlic salt or a drop or two from a garlic clove to softened butter and mix. Spread on bread and wrap slices in aluminum foil before heating in oven. Heat in oven, about 400° for 20 min.

Use It Freely

(Continued from Page 23)

Breakfast Cereal

½ cup oatmeal
½ cup nonfat dry milk
1 ½ cups water
½ teaspoon salt

Mix cereal with dry milk. Salt water, add slowly to oatmeal and cook 15 or 20 minutes or desired time.

Dry milk may be added to other cooked cereals in the same way.

Scalloped Potatoes

4 large potatoes
¼ cup flour
1 ½ teaspoons salt
pepper
1 cup nonfat dry milk
1 tablespoon butter
2 cups water

Pare and slice potatoes. Combine flour, salt, pepper and dry milk. Place ½ of potatoes in casserole, sprinkle ½ of flour mixture over, then another ½ of the potatoes, then remainder of flour mixture, then remainder of potatoes. Add water, dot top with butter, bake in moderate oven (340°) for 1 ½ hours, or until potatoes are done. Cook covered the first hour. Serves 5 to 8.

NOTES FROM THE BEET SUGAR KITCHEN

By Nancy Haven



HERE COMES THE CANNING CAMPAIGN

We endorse a platform of preparedness—early shopping for your canning supplies and, of course, Beet Sugar, which aids so much in preserving the natural color, shape and texture of foods.

PRESERVED STRAWBERRIES

Our nomination to launch your canning campaign! The berries are bright and red—plump and whole in luscious, thick, transparent syrup.



2 cups (1 basket) whole strawberries
2 cups Beet Sugar
2 tablespoons water
1 tablespoon lemon juice

Sort, wash and hull strawberries; drain in colander. In a wide-bottomed, shallow, (3-qt.) preserving kettle, combine sugar, water and lemon juice. Mix together; place on medium heat until bubbles form on surface, about 6 minutes, stirring frequently. (Mixture becomes liquid but not transparent.) Add berries; bring back to boil, stirring often; boil just 4 minutes. Remove from heat; pour carefully into shallow platter, skim. Let stand at room temperature 48 hours, stirring occasionally. Pack into hot, sterilized jars; seal at once. Makes about 4 half pints.

WHY LEMON JUICE? To aid thickening of the syrup and help preserve color.

WHY 48 HOURS? To help plump the berries, thicken syrup and prevent separation.

WHY BEET SUGAR? To be sure of perfect performance in all your home-canning and freezing. There's no better sugar in the world than U.S.A.-grown Beet Sugar.

ON THE PRESS. Watch for our June ad that will offer you Beet Sugar's new home-preserving booklet of unusual recipes, interesting facts and helps. Freezing tips, too.

Ready Now. "Answers By The Canning Doctor"—free booklet that takes the puzzles out of home-preserving. If you don't already have your copy, send at once.

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Raising Baby Chicks

Mrs. C. M. Bradshaw, Diagonal, Ia., says: "I have been using Walko Tablets for 35 years with splendid results. I would not think of trying to raise Baby Chicks without them. I also use them for my grown birds with the same satisfaction."

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Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 60c, \$1.20, \$2.50 and \$4.00.

Walker Remedy Co. Waterloo, Iowa

THE POET'S CORNER

Boy on a Creek Bank

A freckled boy beside a shallow creek
Needs nothing more than dreams and
fishing pole,
Here in the shadows silver minnows
streak
And here in quiet depths sun perch
grow bold.
Under the blue parasol of summer sky
A boy fishes and dreams as white
clouds scuttle by.
—By Mary Holman Grimes.

Moods

Sometimes a windy washday
Just suits me to a "T"
The flapping clothes in tossing wind,
Talk right back at me!
"Now see here, Madam," says a shirt,
"Why all this fuss and stew?
Another patch won't hurt me much
And I'll be good as new."

My inner calm restored at last
As down the line I go,
The pep talk from that old blue shirt
Helped soothe my world of woe.
—By Mary Scott Hair.

Disguise

There's mischief in his shining eyes,
On his cheek a dirty smudge,
And in his grimy little hand
A piece of my warm fudge.

His pockets both hold rusty nails,
And some dirty wads of twine.
But dirt and all, he's still so sweet;
I wish that he were mine!
—By Marjorie M. Griffiths.

Our Susan

I see her from my window
Come skipping down our street,
I watch her homeward coming,
On nimble, girlish feet.

Her cheeks are round and rosy,
The wind blows back her hair,
I'm sure as I behold her,
One never was more fair.

Oh, may I keep this picture,
So when the years have flown,
My memory can recall it,
When she's a woman grown.
—By Marjorie M. Griffiths.

Good Job for Home Freezer

HERE again the home freezer comes in handy for the busy farm homemaker. Make a concentrated base for bean soup. Dry beans are plentiful and because the base is concentrated it is economical of freezer space. All it needs is thawing, thinning with added liquid and seasoning.

About 2 cups of dry beans will make 4 cups of puree which is enough for about 6 servings and about the amount the average family will want to put in one freezer container. Once the puree is thawed it should be used soon and not refrozen.

Bean Puree

Sort and wash 2 cups of beans. Boil beans 2 minutes in 5 cups water. Remove from heat and let stand for an hour. Add 2 teaspoons salt, cover and boil gently in the same water until tender. This will take about one hour for lima beans and a little more for other beans. Then put thru a food mill or colander, or press to remove skins, using all the cooking liquid.

For freezing, cool quickly by setting in pan of cold water. Pack in rigid moisture-vapor-resistant containers, glass, metal or plastic. Leave a half-

inch of headspace for pint containers with wide top openings.

When ready to make into soup, remove from container, thaw in a saucepan over low heat, stirring constantly. Season as desired. A cream bean soup may be made by adding milk and a little fat and flour. Or add meat stock or tomato juice as the liquid instead of milk. Chopped onion may be added for extra flavor, and bits of cooked bacon may be crumbled over the top. Some people like steaming bean soup with grated cheese on top.

Apple Recipes

A new pamphlet, "Apples in Appealing Ways," suggests ways of using this versatile fruit. Pointers are given on choosing a variety to suit the intended use, and other information on selection and home storage. Also included are 30 or more recipes. For a copy of the USDA leaflet, No. 312, please address Bulletin Service, *Kansas Farmer*, Topeka.

EASY CROCHET DOILY



7225

New doily, a background for plants, vases or lamps, perfect for a buffet set or party table setting. Large doily is 18 inches in No. 30 cotton; small is 13 inches. Pattern 7225 includes crocheting directions.

Pattern 25 cents. Address Needlework Editor, *Kansas Farmer*, Topeka. Twenty cents more for Needlework Catalog with complete pattern printed in catalog.



You'll make
wonderful bread if you use
Betty Crocker's Recipe
with
GOLD MEDAL FLOUR

- Mrs. Alice DeFehr, Mt. View, Calif., writes: "I won't use anything but Gold Medal. It kneads up in no time, the texture is fine and even."
- Mrs. Arthur Bronner, St. Cloud, Minn., says: "I think Gold Medal is just wonderful. My friends think my bread can't be beat."
- Mrs. Sam Bushlow, Overland Park, Kansas, puts it this way: "I've tried all kinds of flour and have found Gold Medal is the best... My friends just rave over my bread."
- And from Westport, Indiana, Mrs. Lucille Schwering wrote: "I bake all our bread, pies, cookies, rolls, biscuits—all with Gold Medal Flour. Always have perfect results."



Betty Crocker recipes are
tailored to fit
GOLD MEDAL FLOUR

Gold Medal is the modern bread flour. Its mellow qualities make your dough easier to handle. But it's important to use the Betty Crocker bread recipe with Gold Medal. The recipe you may have been using with a tougher, harsher flour, may not work best with Gold Medal. When used with the Betty Crocker bread recipe, Gold Medal produces wonderful bread...

And Gold Medal is just as good for cakes, pies—everything you bake. Each sack contains a folder of tested recipes developed by Betty Crocker's staff at General Mills. Each recipe is tailor-made for Gold Medal. For baking success, always use the flour that fits the recipe—Gold Medal "Kitchen-tested"® Enriched Flour. Valuable silverware coupon in every sack. 50 and 100 pound sacks are fine cotton with no printing.



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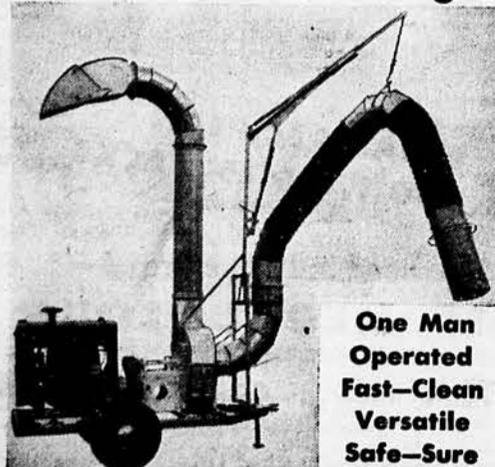
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Your Santa Fe freight man knows how to make your hard shipping jobs look easy—and how to handle your common jobs uncommonly well. Call him today—find out how easy it is to ship via Santa Fe all the way!

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Santa Fe Lines, Topeka, Kansas

Read the Ads in This Issue

If You Own a Forage Harvester . . .



You Need a
Pieck Blower

The Pieck Vacuum Blower is an ideal unloading device for anyone who owns a field-chopper, for hay, wet or dry, straw and for corn silage. Its capacity is ample for any forage harvester on the market.

The blower can be used with ordinary farm wagons or trucks. It is a one-man operation. The Pieck Blower eliminates wagon conveyors and dump systems, shoveling, raking and choked feed tables.

It is all but impossible to plug the pipe of the Pieck Blower. There is no feed table to back to or lift out of the way—just drive under the tube and start to unload.

Available with belt pulley for 3-pow tractor or motor mounting.

One Man
Operated
Fast—Clean
Versatile
Safe—Sure

KUCKELMAN IMPLEMENT CO., Seneca, Kansas

Proven Machine
That Unloads
by Vacuum

Right for Home, School, Library

A set of books has been called recently to our attention. We have looked over these 14 volumes carefully, have discussed them with teachers and parents. They are especially written to help parents and teachers guide their children to become healthy, happy, successful, well-adjusted adults.

Four of the volumes are packed with down-to-earth tested answers to the perplexing problems of parenthood. Six of the books contain a treasury of children's literature and art. Two more books are filled with creative activities of children and 2 are a beautifully illustrated primer of the arts and sciences.

We have learned that teachers feel fortunate indeed to have a set of these books in their schools. Alert, modern parents are buying this set for their homes. They serve equally well for home, and school. They will make a fine addition to the small public library.

The books for children from preschool to adolescence are remarkable for beautiful colored illustrations and decorations. The publishers provide supplementary services to aid libraries and teachers.

This set is called Childcraft and is published by Field Enterprises, Inc., Educational Division, 35 East Wacker Drive, Chicago 1, Ill. Price of the set varies according to binding and terms of payment.

Award Winner Writes Us

Dear Editor: After reading with interest the themes of recent winners, I thought I would write a follow-up letter concerning myself. I won first-prize last year.

As I told you in the article about myself, my father has some grade Hereford cattle, so last spring he purchased a purebred Hereford bull and I put my prize money in on that purchase.

I am still enjoying theme writing in my freshman English class at Peru high school. I noticed last year every contestant mentioned a farm pond so it seems to be near the heart of every girl and boy. I suggest as a title for the themes next year this subject, "The

Farm Pond, Source of Pleasure and Profit."

The library books which the Chautauqua grade school received from *Kansas Farmer* last year have been more pleasure than I could ever tell you. We thank you again for this valuable asset. —Sincerely yours, Chiquita McElroy.

We'd like to hear from other winners. We like ideas, too, from contestants who were not lucky enough to win. If you have suggestions for another contest, send them to us. Do you think library books make the very best award? We'll be happy to have your ideas.—The Home Editor.

Father's Day Leaflet

We now have a new leaflet for a Father's Day program. Nine boys and 2 men take parts. Suitable for a school, a Sunday school or any other community group. Father's Day comes this year on Sunday, June 15. Order by sending 5 cents to the Home Service Editor, *Kansas Farmer*, Topeka. Ask for "What Father's Day Spells."

Another Verse

Dear Editor: I sang the song, "Kansas Land" (printed in January 19, 1952, *Kansas Farmer*), but the chorus was:

*O Kansas Land, Sweet Kansas Land
As on this burning soil I stand,
I look away across the plains
And wonder if 'twill ever rain;
Then Gabriel's trumpet sounds the call
And says the rains have gone around.*

—Mrs. Paul Hunt, Conway.

New Recipes Leaflet

We now have a supply of the leaflet on baking with yeast. It includes 4 recipes for rolls and coffee-cake that require only 30 minutes. There are 21 recipes in all about bread, sweet rolls, rye bread, whole-wheat bread and coffee-cakes. This has been prepared by the Red Star Yeast Company.

Send 3 cents to cover cost of mailing. Write to the Home Service Editor, *Kansas Farmer*, Topeka.

Sand-Tire for the Small Fry



SAND-TIRE is a favorite playground for 2½-year-old Monica McMillion. It's easy on the pocketbook, attractive and safe.

A SANDBOX for the small fry, made from an old tractor tire has several advantages. First, there are no construction costs as most farmsteads have discarded tires and most filling stations are glad to give them away.

And due to the soft rounded edge, there is no chance for injury, no splinters, no nails, no sharp edges. Brightly painted, these tires are an attractive addition to any play yard. Aluminum paint particularly adheres well to the tire and imparts a soft silvery sheen.

Too, these large tires make a wonderful play pool when not filled with sand, by spreading a large tarpaulin over them, pressing down in the center and filling with water. The rounded edge forms a comfortable seat for little folks to sit while splashing their feet in the water or playing about in the sand.

Sand-tires do not rot in wet weather and they compliment the private play yard, the nursery school or the large community playground. — By Mrs. Ruth McMillion.

COMING EVENTS

May 3—Jefferson county-wide 4-H style review, Oskaloosa.
 May 3—39th annual livestock feeders day, Manhattan.
 May 3—Finney county, district 4-H crops judging school, Garden City, fair grounds, 10 a. m.
 May 4—Shawnee county-wide 4-H Sunday services.
 May 4-10—American Royal Dairy Cattle Show and Rodeo, Union Stock Yards, Kansas City.
 May 4-10—National Home Demonstration week.
 May 5—Morton county 4-H council meeting, Richfield.
 May 6—Morton county, joint meeting of Farm Bureau and Extension Council, Wilburton.
 May 6—Morton county, Borderline 4-H Club.
 May 6—Leavenworth county—National Home Demonstration celebration, Leavenworth.
 May 6—Cheyenne county, wheat storage and condition district school, Colby.
 May 6—Dickinson county, district flood control discussion, Abilene.

May 6—Thomas county, district grain conditioning school, with N. V. Whitehair, KSC specialist.
 May 7—Ellsworth county, septic tank demonstration.
 May 7—Chautauqua county, rural electrification meeting, with Ethel Self and Russell Herpich, KSC Extension specialists.
 May 7—Miami county, National H.D.A. celebration, Osawatomie.
 May 7—Lamb and Wool show, St. Joseph, Mo.
 May 7—Ottawa county, National Home Demonstration week, Minneapolis Methodist Church.
 May 7-8—Smith county soil conservation meeting, with R. C. Lind, KSC specialist.
 May 8—Allen county, district home demonstration meeting, Fort Scott.
 May 8—Elk county, household electrical equipment care meeting with Russell Herpich and Ethel Self, KSC Extension specialists. For Elk county home demonstration week.
 May 8—Ottawa county, septic tank demonstration, Sidney Jagger home.
 May 8—Cheyenne county, terrace maintenance and one-way adjustment demonstration, St. Francis.

May 8—Norton county, district home demonstration meeting, Norton, 10 a. m.
 May 8—Phillips county, women's home demonstration unit week, Norton.
 May 9—Barton county-wide sheep tour across north half county, with Lot Taylor, KSC animal husbandry specialist assisting, 10:30 a. m.
 May 9—Cheyenne county, National Home Demonstration week, Goodland.
 May 9—Cloud county, septic tank demonstration, Leslie Claycamp farm, Ames.
 May 9—Thomas county, terrace maintenance and one-way adjustment meeting.
 May 10—Cloud county, district 4-H livestock judging school, Minneapolis.
 May 10—Johnson county, 4-H livestock judging school, with Wendell Moyer, KSC specialist.
 May 10—Thomas county, 4-H livestock fitting and showing school, Ralph Brown's farm.
 May 10—Ottawa county—5-county judging contest, Minneapolis fair grounds. Ellsworth, Lincoln, Cloud, Mitchell and Ottawa counties co-operating.
 May 12—Barton county, district 4-H camp planning meeting, Great Bend, 10 a. m.
 May 12—Morton county, DIY 4-H Club, Slips schoolhouse, Elkhart.
 May 13—Anderson county, farm management association meeting.
 May 13—Anderson county, crops and soils tour, with E. A. Cleavinger and Harold Harper, KSC specialists.

May 13—Labette county, 4-H council meeting, Altamont city building, 8 p. m.
 May 13—Barton county-wide dairy tour, across south half county, with Ralph Bonewitz, KSC extension dairyman.
 May 13-20—Finney county, special interest children's clothes, with Naomi Johnson, KSC Extension specialist.
 May 14—Wichita county, crops and plant disease school, Leoti courthouse.
 May 14—Morton county, Yucca Club, Rolla, Veteran's Hall.
 May 14—Norton county, soil judging school.
 May 14—Washington county, farm management board of directors meeting, Beloit.
 May 14—Smith county, outlook and farm management meeting, with C. E. Bartlett, KSC specialist.
 May 14—Ottawa county, home demonstration unit leader training in home management, with Vera Ellithorpe, KSC specialist. Topic, "Fix it for fun and convenience"; Minneapolis Extension office.

May 15—Dickinson county, grain storage and drying meeting, with Harold Stover and Leo Wendling.
 May 15—Washington county, grain conditioning school, Abilene.
 May 15—Miami county crops tour.
 May 15-17—Allen county, home management leader training meetings.

May 16—Finney county, annual dairy field day, Garden City Experiment Station.
 May 16—Wichita county, clothing school, Leoti.
 May 16-23—Jefferson county, leader's training lesson on frozen foods.
 May 17—Barton county 4-H Club secretary's training school.
 May 18—Jefferson county 4-H Sunday.
 May 19—Jefferson county crops and soils tour.
 May 19—Elk county crops tour, with E. A. Cleavinger and Claude King.

May 19—Norton county, fifth annual 4-H livestock judging school, J. A. Schoen farm.
 May 19—Miami county, 4-H foods lesson with Elizabeth Randle, KSC specialist.
 May 19—Klowa county, crops and livestock tour, Greensburg Chamber of Commerce co-operating. Frank Bieberly, KSC specialist assisting.
 May 20—Miami county, Extension council budget meeting.
 May 20—Kingman county, garden tour with Jerry Amstein.

May 20—Kingman county, garden tour with Jerry Amstein.

Give New Agronomy Scholarship Award

First annual \$100 scholarship for highest grades in agronomy courses at Kansas State College has been awarded to Armin Grosse, agronomy senior student from Jamestown. Announcement is made by Harold E. Myers, head of the agronomy department.

Armin Grosse has been a member of the college poultry and crops judging teams, is a member of several honorary societies, and has won scholastic honors many times.

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Personal To Women With Nagging Backache

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.
 Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!



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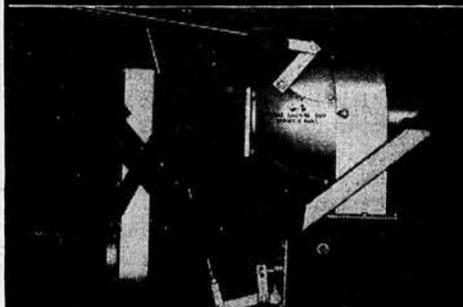
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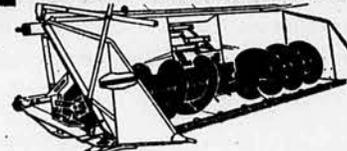
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Permits combine to travel any of 48 forward speeds so separator can operate at maximum capacity. V-Belt drive not used as a clutch gives 25% faster or 50% slower in each of the four forward speeds. Instant speed selection. Easily installed.

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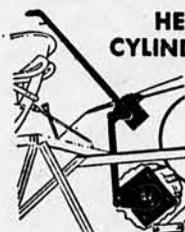


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 Instant cylinder adjustments accurately controlled from operator's seat. Fits all IHC, SP, and 122 combines, and Massey-Harris SP.



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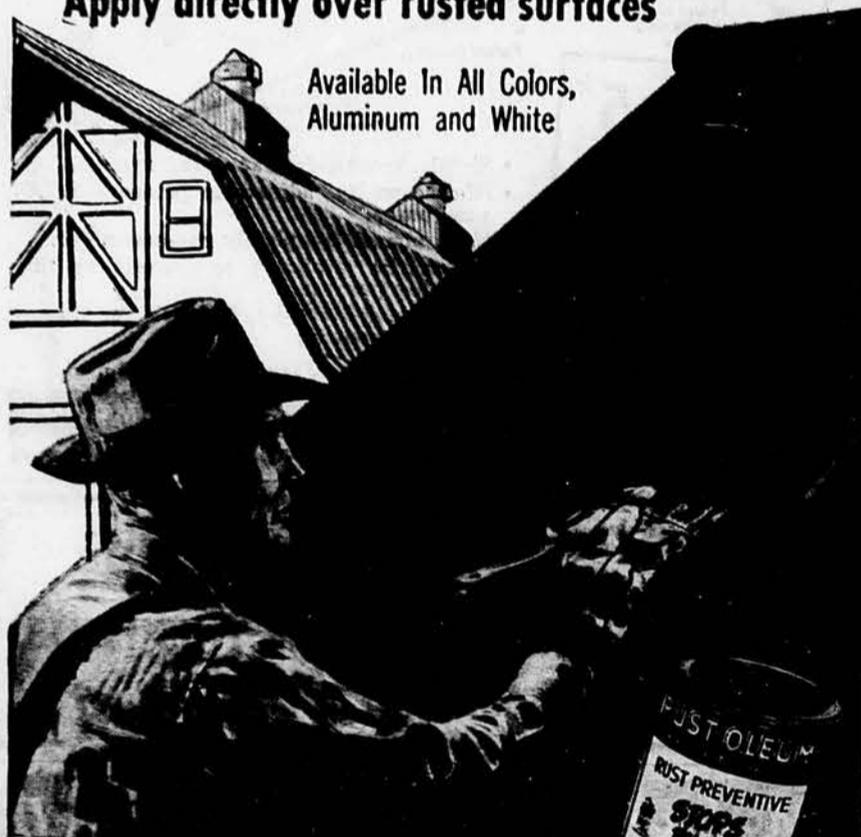
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Tests at Hays Station Show What to Expect of Calves

TESTS AT FORT HAYS Branch Experiment Station, reported at Hays Roundup, April 25, showed one sire consistently sires calves that do best on roughage and grass, while another sire will produce calves that do better when they get to the feed lot.

Experiments along this line have been carried 3 years, using 5 different sires and studying their influence on efficiency of feed use on yearling steers, yearling heifers, and on steer and heifer calves.

Yearling steers were sorted and lotted according to their sires and full-fed 150 days. Steers in lot 1 made greatest gains on full feed and had highest rate of gain from birth to 2 years old. These steers as calves also were heaviest when weaned. However, they ranked third in gains as calves on winter maintenance rations, fourth in grass gains.

Average of figures to date seem to indicate bulls siring calves with heaviest weaning weight at the same time produce calves more able to achieve greater gains when full-fed on grain; while bulls siring calves with lowest weaning weight tend to produce calves able to make greater gains on roughage and grass, and less gain on grain when full-fed.

Difference of 43 Pounds

When yearling heifers instead of steers were used and fed a good maintenance ration for 140 days, there was 43 pounds difference in average weight between heaviest and lightest lots.

Heaviest group averaged 992 pounds, but was lightest as calves at birth. There seems to be a reverse correlation between abilities of sires to transmit gaining ability to steers on a concentrated full-feeding ration, as compared to heifers from the same sire on a maintenance ration. For 3 years sires that produced steers having highest average daily gain from birth to 2 years old on a concentrated ration, produced heifers that made lowest average daily gain from birth to 2 years old on a maintenance ration. Sires that produced steers making lowest average daily gains on concentrated rations produced heifers that made highest average daily gains on maintenance rations.

There were some interesting points in comparing steers from the standpoint of economy in feeding, and in how they graded out when marketed.

Lot 1, for instance, had lowest cost of feed for 100 pounds gain as yearlings. This cost was \$21.57 a hundredweight. Lot 5 showed a cost of \$24.48. When steers were marketed, however, lot 5 graded all choice, brought \$38 a hundredweight and dressed out at 62.05 per cent. Lot 1 graded 2 prime, 16 choice and 4 top good, sold for \$33.43 a hundredweight and dressed out at 61.92. Dr. Rufus Cox, head, animal husbandry department, Kansas State College, explained that the larger, growthier steers were at a disadvantage when all the

steers were marketed at once. Larger steers, if on a farm, would have been held a little longer before marketing.

Feed required for 100 pounds of gain as yearlings for lot 1 included 1,450.17 pounds of silage, 487.51 pounds of ground grain sorghum, 69.02 pounds of cottonseed cake and 3.52 pounds of ground limestone. Lot 5, by comparison, required 1,753.26 pounds of silage, 557.08 pounds of grain sorghum, 80.11 pounds of cottonseed cake and 4.12 pounds of ground limestone.

How steers varied thruout the 2-year period is interesting. Lot 2 steers weighed least when calved, when weaned ranked second, and were third at close of winter feeding season. They then dropped to fifth at close of summer grazing, but came back to make top average daily gain in the feed lot as 2-year-olds, and ranked second in total average daily gain from birth to market.

Lot 4 steers ranked third in birth weight, fourth in average weaning weight and first out of winter maintenance feed lot. They also ranked first in average summer pasture gains. These steers ranked fourth in average daily gains as yearlings, and third in average daily gain from birth to 2 years old.

Steer and heifer calves weaned in fall of 1951 were lotted according to sires and fed a maintenance ration for 150 days. Average total gains from birth to April 11, 1952, ranged from 505 pounds for lot 12 to 472 pounds for lot 16. Lot 16 calves, however, were all from heifer mothers. Average daily gains varied from 1.14 to 1.08 pounds. Silage required for 100 pounds gain varied from 6,301.59 pounds in lot 15 to 3,892.16 in lot 16. Ground alfalfa required for 100 pounds gain varied from 946.03 pounds in lot 15 to 584.31 in lot 16.

More About These Later

These calves will be used in this summer's grazing experiments. Steers will be full-fed as yearlings, and heifers grown out on maintenance ration as replacements in the breeding herd as 2-year-olds.

Three years of testing have proved corn distillers dried grains, and sorghum distillers dried grains, about equal to cottonseed cake when used as protein supplements with ground sorghum grain and sorgo silage for fattening yearling steers.

Corn distillers dried grains showed a slight advantage over sorghum distillers grains 2 out of 3 years, but the sorghum distillers grains appeared to be a little more palatable. It took 4 pounds of each of the distillers dried grains to equal 2 pounds of cottonseed cake, so you could determine value by price and availability.

Over the 3-year period steers fed cottonseed cake showed less variation in grade and last year brought \$4 a hundredweight more.

Here's Who Won at Hays Contests

FOUR HUNDRED AND FORTY Vocational Agriculture and 4-H Club teams competed in the 1952 judging contests, held April 26, at Hays. Seventy-five teams competed in crops, 209 in livestock and 156 in home economics. It was the second largest number of teams ever entered in the contests.

Results of the contests were as follows:

4-H Livestock

High team, Ft. Zarah 4-H Club, Barton county; 2nd, Big Timber Boosters, Smith County; 3rd, Noble 4-H Club, Ellsworth.

High individual, Ronald Zvolanek, Noble 4-H Club, Ellsworth; 2nd, and 3rd (tie) Gary Lindsey, 4-W 4-H Club, Rooks county, and Herman Schwarz, Angelus 4-H Club, Sheridan county.

Vocational Agriculture

High team, Lebanon High School; 2nd, Lakin Rural; 3rd, Edson High School.

High individual, Oliver Isom, Lebanon; 2nd, Arden Treaster, Beloit; 3rd, Roy Garvert, Plainville.

4-H Grain Judging

High team, Grant Eagles 4-H Club, Norton county; 2nd, Mt. Pleasant 4-H Club, Rooks county; 3rd, Liberty Bell 4-H Club, Osborne county.

High individuals, Warren Nichols, Liberty Bell 4-H, Osborne county; 2nd, Dick Rudman, Wise Owl 4-H Club, Graham county; 3rd, Darrell Baker, Grant Eagles 4-H Club, located in Norton county.

(Continued on Page 29)



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Vocational Agriculture

High team, Bazine High School; 2nd, Belleville; 3rd, Coldwater.

High individual, Virgil Norton, Quinter; 2nd, Darrel Odle, Stockton; 3rd, David Popp, Sheridan County Community High School, Hoxie.

Home Economics

High team, Peppy Workers 4-H Club, Kearny county; 2nd, Southwest 4-H Club, Kearny county; 3rd, Lorraine 4-H Club, Ellsworth county.

High individual, Anna Ploeger, Kearny county, Peppy Workers; 2nd, Lois Jean Lenington, Kearny county, Peppy Workers; 3rd, Norma Ann Trussall, Kearny county, Southwest Kearny 4-H.

Farming "Firsts"

First Secretary of Agriculture: A Missourian, Norman J. Colman, was first U. S. secretary, in 1889. In 1885 he had become Commissioner of Agriculture.

Originator of spray-calendar idea was E. G. Lodeman, horticultural investigator and writer. In 1896 he published "The Spraying of Plants."

First Farm Village: University of Chicago archaeologists announce the finding of the world's oldest village—Jarmo—in northeast Iraq. There, 300 people lived in 50 mud huts 7,000 years ago! They depended on farming and crude peasant life instead of hunting, for their existence.

First Packaged Oats: Oatmeal, as steel-cut or Scotch oats, first was packaged for the market in glass jars by Ferdinand Schumacher, of Akron, O., in 1854, according to the USDA 1951 Yearbook.

First Agricultural College in the United States was Michigan State College, in 1857. Pennsylvania State College was established earlier but did not open until 1859.

The First One: The first ice cream manufacturing plant in the U. S. opened in 1851, in Baltimore, several years after the invention of a hand crank and salt brine freezer.

Before the Birth: In 1887, Congress passed the Hatch Act which established the present system of state agricultural experiment stations in connection with land-grant colleges. By 1886, nine states already had established experiment stations on their own.

First Milk Powdering process was introduced between 1900 and 1910 in the United States.

First Outbreak of Epizootic horse disease was in 1872, in New York City. It provided vaudeville with a joke that lasted more than 50 years. "Epizootic" means epidemic and in 1872 was a form of influenza, sometimes called horse distemper, states 1952 Bell Telephone Almanac.

Dust Collector: For 65 years discovery of formula for DDT lay dormant in records of the Chemical Society at Strasbourg, Switzerland. In 1874, Othmar Zeidler recorded in his notes a new chemical—dichloro diphenyl trichloroethane—DDT for short.

Smooth Riding: A veterinarian was first man to make an air disc tire. He made a wooden disc wheel and around edge fastened an inflated rubber tube, held in place with linen cloth tacked to wheel.

Father of American agricultural press was John Stuart Skinner. For 32 years he was a prolific contributor to agricultural literature. On April 2, 1819, he established The American Farmer at Baltimore, Md., first U. S. farm paper. It began as an 8-page weekly.

Brown Swiss cattle are descended from the Brown Switzer or Schwyzer cattle, established from a time beyond historic record in Switzerland.

First imports of Brown Swiss cattle into the United States were in 1869—7 cows and one bull were taken to a Massachusetts farm.

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What Washington Is Talking About Farm Price Fixing

By CLIF STRATTON, *Kansas Farmer's National Affairs Editor*

SENATE ACTION may come this month on proposals to postpone effective date of the "new" parity formula in fixing price supports. Senate Agriculture committee completed hearings 2 weeks ago on 3 proposals, all of them calculated to raise price-support levels after 1953. Present law (Hope-Aiken) provides flexible price supports, based on the so-called "new" or "modern" parity formula.

Under this act, supports on 1954 crops would be lowered between 27 and 31 cents a bushel on wheat, 15 to 21 cents on corn, and around 2 cents a pound each on cotton and peanuts.

Senate committee has completed hearings on 3 bills:

S. 2115, proposed to keep the old (higher) parity formula for basic crops. Probable compromise would be to keep the old parity formula for wheat, corn, cotton and peanuts for the duration of the (present) national emergency—containment of Russia—which General Eisenhower and others have warned may last for 20 years, barring actual fighting of World War III. Then at the end of the "emergency" a transitional parity formula for price support purposes would go into effect. This would call for lowering price supports for basic commodities 3, 4 or 5 per cent each year until the "modern" flexible support program became effective.

S. 450 would fix price supports at 90 per cent of old parity on all crops for which USDA asks increased production. This bill was opposed by all major farm groups except the Farmers Union. USDA gave qualified support.

S. 2996, proposed 100 per cent of parity support on almost all major farm commodities, was opposed by the same groups. It had the approval of Charles Brannan, Secretary of Agriculture—provided the direct payments (to guarantee farm income as a whole) to farmers were included in the measure; in other words, the so-called Brannan Plan to provide cheap foods to consumers, high incomes to farmers, thru subsidies from the Federal Treasury.

Since the changes under the present law will not become effective until 1954 crops, and since this is an election year, the present Congress may not act on any of the 3 proposals.

On the political front, Wayne Darrow (Washington Farmletter) sees all the Democrat presidential prospects—with Gov. Adlai Stevenson, of Illinois, out of the picture—as high farm price support men. If corn and wheat prices are below support levels next fall, which Darrow lists as "probable," he believes this situation will benefit the Democrats, with the Republicans more or less tied to the flexible price support program. He says, also, the GOP will have to come up with something more appealing to farmers than flexible price supports, freedom from regimentation, and economy in government spending.

Primaries and conventions the last 2 weeks, including Pennsylvania, New York and Massachusetts, give General Eisenhower a lead in delegates to the GOP convention over Senator Taft, if the claims of the Eisenhower camp as to uninstructed delegates from Pennsylvania, New York and Michigan are accurate; on popular preference, running about even. The Ohio primaries this month could tip the scales slightly in the Ohio Senator's favor.

Still looks as if neither will be better than within striking distance of the 603 delegates needed to nominate, when the first ballot is taken in the convention. Gov. John S. Fine, of Pennsylvania, whose lead the bulk of Pennsylvania's 70 delegates are expected to follow in the GOP convention, may be the decisive factor in nominating the Republican candidate for President. At this writing Governor Fine has not ex-

pressed himself, beyond admitting admiration for General MacArthur.

General Eisenhower, expected "home" the end of this month—"home" for the General can mean Texas, where he was born; Kansas, in which he spent his youth; Colorado, where he was married, and where he plans to headquarter this summer; New York, where he registered as an Independent voter; or Pennsylvania, where he owns a farm and residence—is understood to be planning only 3 or 4 major speeches before the GOP convention. These will be on a high plane, general in nature, and only "mildly" controversial. General Eisenhower, by latest reports, still considers himself barred by Army traditions from campaigning for delegates. He will depend on the famous Ike smile and winning personality to put his boom over the top at Chicago.

Once nominated, he has announced, he will doff the uniform, resign his commission, and lead a fight to win.

Department of Agriculture's latest estimate on farm prices and costs is that farm prices will average 1 or 2 per cent below parity, as compared to 7 per cent above for 1951; production costs will be somewhat higher, prices 4 to 5 per cent below last year.

President Truman's seizure of the steel industry to compel the steel companies to accept the CIO Steelworkers demands for increased wages, the union shop, and pay the higher costs out of "profits," is justified, the President says, by his "inherent powers" as Commander in Chief and President—a 20th century derivative of the "divine right" of the 18th century kings.

President Truman also stated that it was necessary to avert a threatened strike in steel to back up our fighting men in Korea, and to continue the rearmament program and carry out our commitments in Europe and elsewhere without interruption.

Of course, if the President can seize one industry under the plea of emergency, he can seize another. Come to think of it, President Truman in 1946 suggested the Government might take over the beef cattle in the country, because of the "black markets" brought about by OPA.

So, there may be some basis for the following analysis of "Who cares about seizure?" circulated by General Electric among its employes:

"Who cares about Government seizure?"

Everybody in one or more of the following groups, estimated in round numbers to be:

700,000 savers who have invested their money in steel mills.

16,000,000 other shareholders in American industry.

4,000,000 owners of farms.

78,000,000 owners of life insurance policies—who are all investors in property subject to similar seizure.

64,000,000 people with bank accounts—whose savings are invested in 'seizable' property.

80,000,000 owners of Government and other bonds.

100,000,000 adults and 50,000,000 children—who enjoy the benefits savings provide them in the good jobs, fair interest or dividends, and the availability of good products that represent good values. In short—EVERYBODY."

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Doing Many Jobs All On Their Own

(Continued from Page 8)

pruned 230 trees, and purchased 300 multiflora rose bushes, making them available to the public at cost. A recent project has been to prepare bait and bait stations for a county-wide war.

Service to their school started as soon as the new Little River school building was completed in 1938. The FFA chapter landscaped the school grounds and has kept trees and bushes pruned and replaced ever since. Chapter members assist with marking playing fields, putting up markers, setting up and taking down extra bleachers and clean-up details, in addition to their heavy membership on athletic teams. They also assist other departments in school, such as sharpening knives for home economics, and they present at least one school assembly.

Chapter meetings are well attended and interesting—so much so a large percentage of parents attend. Last year's parent-son banquet saw 95 per cent attendance by parents and sons.

Investment in a war-surplus 3-horsepower electric paper baler has given the chapter treasury a boost. Certain days are set aside when folks can bring in paper. The boys do the baling with very little school time lost, and parents and others haul paper to market.

With a jeep and sprayer investment, the chapter program last season included spraying 300 acres of bindweed, working with the county weed supervisor. The 20-foot boom, 150-gallon sprayer cost the boys \$200. The jeep, a 1947 model, cost \$750. It grossed \$1,500 the first year, \$900 a year since. Boys do spray work on both school and personal time. More than once their job of spraying has saved a farmer's crop. After each season, the boys take their rig apart, clean and repair it.

They built their 2-man sheep shearing outfit one year and sheared 1,500 sheep. By the time Mr. Kohrs went into service, the boys were doing shearing on their own. While boys now in school are just beginning to master the art, many former students now do their own shearing and rent the school equipment to do theirs and neighbor's shearing. Several former students are now in veteran's training groups which Mr. Kohrs supervises.

Jim Bush, Rice county farmer, repaid the class for docking 437 lambs

by buying all scrap metal at an estate sale and giving it to the boys for picking up and working over to sell. Usable pieces are going into shop projects. Balance is being sold. Five tons have been collected so far.

A profitable popcorn machine is operated at school games. A new project is testing soils for farmers in the area who bring in samples.

A gilt program, now in its second year, started with 2 bred gilts. Each year 2 gilts from each litter are turned back to the chapter and boys compete for them.

For a pest control campaign, the chapter was divided into 2 competing groups. Losing team was in charge of a program for the winners. Pest toll last year was 150 rats and mice, 6 coons, 4 coyotes, 50 prairie dogs and 10 possums.

Stressed thruout the program is farm safety—on posters and in meetings. Livestock loss prevention also is emphasized.

Each year a busload of FFA members plans to spend at least 2 days attending national FFA convention sessions in Kansas City. Their machinery exhibit at the State Fair last year won 5th place.

At least one meeting with FHA girls of Little River is planned. This group of 33 also is active in the community, making hospital favors at Christmas, refinishing furniture, presenting a spring style show and tea. Local club president, La Rue Fuller, is now historian for the State FHA group. Their adviser is Mary Simmons.

But before the season is out, students and teacher always find time for some complete relaxation, a chance to talk over all they have done, and to enjoy themselves. That's when the chapter takes a couple of days off for a fishing trip. After such a busy year, the rest is well earned and appreciated.

For Young Stock

We find some fence panels 10 or 12 feet long and 3 feet high handy when handling young livestock. Two of them wired together can be set in corner of hog lot and pigs have feed by themselves. They quickly make an extra pen for a farrowing sow or a lambing ewe.—L. E. R.

The Farmer's Daughter Invades "All Men" School

Women Enjoy State Ag Course

STUDYING agriculture at Kansas State College appeals to many Kansas farm daughters, women students from other countries, too.

Three new students majoring in the School of Agriculture are LaVonne Campbell, freshman in floriculture and ornamental horticulture; Diantha Collingwood, sophomore in general agriculture, and DeEtta Jean Clark, freshman in general agriculture. *Kansas Farmer* for May 19, 1951, brought you a story on 10 women students in agriculture.

Diane Blackburn, a sophomore in floriculture and ornamental horticulture, elected Queen of the Ag Barn-warmer event last fall, is horticulture reporter for the *Kansas Agricultural Student* magazine. Suzanne Sykes, a junior in general agriculture, is assistant business manager of the *Ag Student*. Kathleen Brubaker, of Clifton, Ariz., is a junior in floriculture and ornamental horticulture, and Marion Alice Rogers, a freshman, is studying the same courses.

Tamara Chajuss, from Tel Aviv, Israel, graduated in milling industry and married James Hendricks, a radio station worker at Wichita. Betsy Stienstra, from Buenos Aires, Argentina, graduated in landscape design and returned to her home there. Two students who married and have not returned to col-

lege are Barbara Collins and Patricia Fegley.

All girls mentioned here are Kansans except Mrs. Hendricks, Miss Brubaker, and Miss Stienstra. Lovers of the soil and growing things, all plan to make use of their new knowledge in agriculture, whether it be as homemaker or out in the "used-to-be" male-dominated agricultural world.



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SPECIFICATIONS
Width of Cut—30 in. Bearings—Timken.
Power—3 H.P. Briggs & Stratton
Frame—Fabricated Electric Welded Steel.
Differential—Auto Type Drives From Both Wheels.
Drive—Standard Auto V-Belts. Gears—Machine Cut.
Tires—400x8 Pneumatic. Self Propelled.

The F & H heavy duty 24" or 18" self-propelled rotary type lawn mower cuts fine grass or large weeds. Powered by a Briggs & Stratton 3 H.P. air-cooled engine. V-belt and roller chain drive. Ball bearing spindle. Electric welded steel frame. No castings to break. Auto type differential, pulls from both wheels. Foot proof V-belt clutch. All bearings and gears are unconditionally guaranteed for one year. Drive wheel 12"x3.00 semi-pneumatic puncture proof. Front wheel 10"x2.00. Two blades with each machine. Only one nut to remove to change blades. Satisfaction guaranteed.

Manufacturers of Power Equipment

Foushee & Heckendorn
Cedar Point, Kans.

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KANSAS FARMER Classified Advertising

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Assorted Heavies, \$6.80. Reds, Barred, White Rocks, Hampshires, Australorps, Wyandottes, \$7.80 pullets, \$12.85. White Leghorns, Austra Whites, \$8.80; pullets, \$14.95. Leftovers, \$4.85. Assorted, \$3.95. Odds, \$2.95 as available FOB. COD 100% alive, latest price list, catalog, free. Bush Hatchery, Clinton, Mo.

Best Quality AAA and AAAA chicks. Fast broilers. Profitable layers. 100% pulorum tested. New Hampshire red, White Rock, Barred Rock, Wyandottes, Production Reds, Austra-Whites, Large Type White Leghorns, \$9.95 per 100. Heavy cockerels, \$7.90. Pullets, \$14.95. Hybrid Cockerels, \$5.95. Leftovers, \$2.95. Free catalog. 100% alive. Pleasant View Hatchery, Gerald, Mo.

White Leghorns, Austra-Whites, White, Barred Rocks, Hampshires, Hamp-Whites, Wyandottes, Reds, \$8.95; pullets, \$12.95; heavies, \$6.85; mixed \$6.45; locker special, \$3.95; 100% alive F.O.B. as available. Hi-Grade Chicks, Deepwater, Mo.

DeForest Blueblood Chicks, broiler and egg breeds and crosses. Hatching year around. Broad-breasted Bronze, Beltsville White Poults. Guaranteed livability. DeForest Hatcheries, Box E, Peabody, Kan.

Superfine Chicks, eggs, Jersey Giants, Buff Minorcas, Silverlaced Wyandottes, Anconas, Buff Orpingtons and other leading breeds. Literature. Thomas Hatchery, Pleasanton, Kan.

Surplus Chicks—Immediate delivery, \$5 per 100, guaranteed not all Leghorns or all cockerels. Hawk Hatcheries, Atchison, Kan.

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Best Quality Ancona chicks, eggs. Wonderful layers. Beautiful birds. Other breeds. Literature. The Thomas Farms, Pleasanton, Kan.

● MINORCAS

Superfine Golden Buff Minorcas, Chicks, eggs. Reduced prices. Bantam eggs. Literature. Thomas Hatchery, Pleasanton, Kan.

● BROWN LEGHORNS

Helm's Imported Danish Brown Leghorns. Big-ger bodied, Holder three world records. Pulorum clean. Leading breeds. Certified Leghorns. Illinois Hatchery, Metropolis, Ill.

Helm's Imported Danish Brown Leghorns—Holder three world records, bigger bodied, larger whiter eggs. Leading breeds. Pulorum clean. Certified Leghorns. Helm's Chicks, Paducah, Ky.

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Superfine Silverlaced Wyandotte Chicks, eggs. Reduced prices. Bantam eggs. Literature. The Thomas Farms, Pleasanton, Kan.

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Assorted Heavy Goslings (No Chinese), April, 1.50—May, 1.65. Toulouse or Embden \$1.70, in quantities. Swanford Hatchery, Balaton, Minn.

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● POULTRY SUPPLIES

Special—Goose incubator custom hatching, 25 cents per egg. Day old goslings, \$1.50 each. Anceil-Lawson Hatchery, 3600 Gateway Drive, Joplin, Mo., Phone 2127.

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Black English Shepherd Puppies. Breeder 30 years. Special price for this month. H. W. Chestnut, Chanute, Kan.

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Cash for Feather Beds. Our boys need feather-filled flying suits and sleeping bags. New and old feathers—goose or duck wanted right now! We give you top prices and allow you 5c extra per pound for shipping charges, and return your ticking, if desired. For complete shipping instructions with free tags mail small sample of your feathers in ordinary envelope to: Northwestern Feather Company, Department D, 212 Scribner, Northwest, Grand Rapids 4, Mich.

West Chicago Pays More! Get highest cash prices for your goose and duck feathers. Send sample for prices of used feathers. Free shipping tags, prompt payment. Company highly rated. West Chicago Feather Company, Dept C. G., 172 N. Aberdeen St., Chicago 7, Ill.

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Rabbits—Blocky, baby beef type New Zealand Whites, few pedigreed, from 4-H Blue Ribbon Winners. Anne Marie Vap, Atwood, Kan.

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Strawberry Plants—Hardy northern grown, double inspected Dunlap, Beaver, Blakemore, Premier, Giant Robinson, Bellmar 200—\$2.00; 500—\$4.50; 1,000—\$8.50. Giant Gem, Streamliner, Minnesota 1166 everbearing, 100—\$2.00; 500—\$8.50. Gladious—Florist-Mix, 17 varieties, blooming size, 125—\$1.00. Fresh plants, prompt shipment. Iowa Nursery, Farmington, Ia.

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Strawberry Plants—Certified Premier, Robinson, Dunlap, Blakemore and Klondike. Reduced prices while they last 100—\$1.00; 500—\$4.50; 1,000—\$8.00. The great New Armored Heavy Yielder Blakemore Aroma cross 100—\$2.00; 500—\$6.50; 1,000—\$12.00. Everbearing Strawberries—1st Century, Superfection, Mastodon, Streamliner and Gem 25—\$1.00; 100—\$2.25; 500—\$10.00; 25 Blackberries or Thornless Boysenberries \$1.50. 25 asparagus \$1.00. Everything postpaid. Ideal Fruit Farms, Stilwell, Okla.

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Gladious, 100 Giant exhibition varieties, Dahlias, Tuberos Begonias, Gloxinias, Lilies, Cannas. Money saving specials. Free catalog. Foley Gardens, Freeport, Ill.

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Save 50% on One-Way Discs. Adam's hard-faced discs stay sharp for the life of the disc. Breakage, scouring difficulties eliminated. Information and prices on Adam's complete line of hard-faced tools furnished free. Adams Hard Facing Company, Wakita or Guyton, Okla.

Farmers: Send for circular on our push button electric control, with the regulating ball bearing screw, for combines, windrowers, plows and other implements. Hyatt Mfg. Co., Kimball, Nebr.

Massey Combine 14-ft. Late 1947, Airplane Tires, Lights, Hydraulic spare wheel, Tire, Parts, Motor, just overhauled. All \$2,450.00. Floyd Richard, 1 North 5 1/2 west Tonkawa, Okla.

Austin-Western 99H Motor Patrol, with cab and scalfier—good condition, 1949 model. ID9 Wheel Tractor, less than 500 hours, 1949 model. W. B. Wilson, Clinton, Okla. Phone 430.

New and Used Tractor Parts. Write for big, free 1952 catalog; tremendous savings. Satisfaction guaranteed. Central Tractor Parts Co., Des Moines 3, Ia.

One-Way and Disc Sharpener. Guaranteed satisfaction or money refunded. Write, Hyatt Mfg. Co., Kimball, Nebr.

D4 Caterpillar Traxcavator; 5T serial; good condition, \$4,500. Joe Richter, Ash Grove, Mo.

The Buller Coupler is completely automatic—saves enough time to pay for itself with attached to the rear of our pick-up baler, field ensilage cutter and corn picker. Money back guarantee. \$5.00 postpaid. Buller Mfg. Co., Hillsboro, Kan.

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A business with a future! It's simple with Uni-Grader elevating type terracer. Uni-Grader is the only terracer with rolling disc and many other exclusive features. Engine or PTO models. Prices start at \$2,350.00. You can have the best—only in Uni-Grader. For descriptive folder, contact HEMCO MFG., Inc., Argonia, Kansas

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Want 50 Used Combines in trade on new Massey-Harris, 7 to 16 ft. on lot. Will Sheridan, Sutton, Nebr.

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Gigantic Surplus equipment sale. Amazing bargains. Savings to 70%. Farm engines, A-C generators, hay winches, telephones, air compressors, paint spray outfits, water pumps, electric saw-drills, welders, chain saws, battery chargers, binoculars, contour levels, many other items. Special, finest farm telephones, \$12.40 each. Freight prepaid. Rush card, illustrated sale catalog. Burden Sales Company, 877 "O" Street, Lincoln, Nebr.

Baler Twine—Binder Twine—Rope, 20 carloads. Treated, guaranteed quality, strength, footage, uniformity. For sample bale send \$13.00 for baler and \$14.50 for binder. Big discount to quality buyers, dealers and distributors. See your local dealer or write Bob Stone Cordage Company, National Twine Distributors, Charleston, Ia.

Booms All-Purpose Wagon Unloader. Inexpensive, easily attached to your present wagon. Unloads five tons in seven or fourteen minutes. Free literature. Booms Silo Co., Harbor Beach, Mich.

Safe-Cord Baler Twine \$12.95 per bale. Roto Baler Twine for all round balers \$13.95. All twine guaranteed to be first grade. Mansfield Machinery Co., Clinton, Mo.

Wire Winder. Roll and unroll barbed wire with tractor power and speed. Low cost. Free literature. Midwest Wire, Dept. 28, South St. Paul, Minn.

Ford or Ferguson 24" Hus-Kee Tractor tool box. Heavy steel. Low priced. Order from dealer or write Metal Box Co., Valparaiso, Ind.

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Order now to insure delivery. We install. Call or write for free literature.

FAGER INSULATION CO.
Osage City, Kansas

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For Sale—Implement Shop. Have case contract. Good inventory parts and machines. Owner selling account health. Schrupp Imp. Shop, Balaton, Minn.

Florida Offers You many farm opportunities plus a happier living in its mild climate. If you are interested in farming in this new land of opportunity write State of Florida, indicating type of farming you are interested in. State your specific requirements and request your copy of beautifully illustrated booklet: Farm Opportunities in Florida. Get complete information without cost or obligation. Write: State of Florida, 6155D Commission Building, Tallahassee, Fla.

● WANTED TO BUY

Pups Wanted: Fox Terriers, pay \$6.00 for males, \$5.00 for females. Boston \$20.00 each. Parakeets \$5.00 each. We buy all kinds for cash. Write for shipping instructions first. National, 3107 Olive St., St. Louis, Mo.

Wanted—Meteorites and Tektites. Free circular. Write Joe Ullman, Birchard, Nebr.

Send Us Wool or Woolen Rags. Trade for woollens. Bating and blankets. Write for free circulars. Litchfield Woolen Co., 303 Sibley Ave. No., Litchfield, Minn.

Canaries, Parakeets Wanted—Best prices. Write for shipping directions. American Bird Corp., 2610 W. 25th Pl., Chicago 8, Ill.

Highest Cash Paid for Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free information. Satisfaction guaranteed. Rose Smelting Company, 29-KA East Madison, Chicago.

● FARMS—MISCELLANEOUS

Strout's Two Spring Catalogs—World's largest, 62nd year. Farms, Homes, Businesses. 3646 bargains East and Mid-West Green cover; West Coast edition Yellow. Either Free. Strout Realty, 20-V West 9th St., Kansas City 8, Mo.

155 Acre Farm, mile from Benson, other farms. Paul Moline, Benson, Minn.

Spring Possession good 80-acre central Minn. Dairy Farm. Priced very low, \$4,750. House. Full basement. Furnace heat, electric. Telephone. Barn, granary, double garage. Write Box 151, Route 2, Onamia, Minn.

Good Homes in the Ozarks. Free lists. Owensby, Buffalo, Mo.

United Farm Agency's new Free Summer catalog of farm and country real estate bargains—just off press—can help you plan soundly for your future security in the country. Good pictures, many states, easy terms, many equipped, growing crops included. For special service, state requirements, desired location. Write for your catalog today. It's Free! United Farm Agency, 2825-KF Main St., Kansas City 8, Mo.

Stock Farm for sale by owner, 209 acres well improved, electric pump, 80 acres creek bottom land, 135 acres cleared, S. A. Bell, Harding College, Searay, Ark.

● SEEDS

King Ranch Bluestem Grass Seed. Planting instructions and prices. Guy Hutchinson, Uvalde, Tex.

Kudzu—Greatest pasture, hay plant and land builder known. For information, write: Rock Glen Farm, Hampton, Ga.

● KANSAS CERTIFIED SEED

Certified Wabash Soy Beans, Six Dollars per hundred. J. C. Schubert, Raymond, Kansas.

Ellis Sorgo—Field inspected and passed for certifi- cation. Commercial laboratory germination, 77%; state laboratory germination, 72%; purity, 99.62%; inert, 0.38%. Friced in line with germination test results, \$8 per cwt. Victor Doubrava, Wilson, Kan.

Certified S-100 Soybeans, 99.5% purity, 97% ger- mination. 4 miles north, 6 west, 1 north Parsons, Lewis Weidert, Rt. 1, Galesburg, Kan.

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3c Deckledge Reprints 3c

Reprints size as negative 3c and oversize prints 4c. 6- or 8-exposure roll developed and printed one each 25c or two each for 35c. Three 6x7 enlargements for 50c. Four 8x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 65c. **Summers Studio, Unionville, Mo.**

20 DECKLEDGE REPRINTS 50c

6-8 Exposure roll developed and printed 25c; 12-exposure, 30c; Jumbo prints 4c each. Request complete prices.

MINY'S PHOTO SERVICE
Topeka, Kan.

25c FILM FINISHING 25c

Two Enlarging Coupons with trial order 8-ex. roll developed and printed 25c. 12- or 16-ex. roll, 35c. Double size prints in Album, 8-ex. roll, 35c.

THE CAMERA CO.
Oklahoma City, Okla.

Two Sets of "Deckledge" Prints with every 8- exposure roll finished 40c. The best quality. "Deckledge" reprints 3c each. Jumbo reprints 4c each. Brown Photo Company, 1910-32 Emerson, Minneapolis, Minn.

Jumbo Prints—8-exposure, 35c. 12-exposure, 50c. 16-exposure, 65c. Reprints, 5c each. The Foto Farm, Dept. KF, Box 228, Norfolk, Nebr.

Eight-Exposure Roll printed one of each 25c; two each 3c; one each Jumbo 35c. Star Photo, Denver, Colo.

12 Jumbos from Roll, 35c. 8 Jumbos, 25c; with this ad. I. Skrudland, Lake Geneva, Wisc.

Only 25c. Your roll developed and 8 finest quality enlarged prints. Pictures plastic bound in beautiful album. Trial offer; limited time. Daily Service. Ball Studio, Dept. 51M, Box 275, St. Louis, Mo.

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Read Capper's Weekly and receive a gift. It's the most interesting and informative weekly newspaper you have ever seen. Write Capper's Weekly for details. Circulation Department K, Topeka, Kansas.

Stainless Steel. Three thickness Vaporseal. One quart sauce pan, \$6.00; Two, \$7.00; Three, \$8.00; Six, \$12.00; Eight \$14.00; Twelve, \$20.50. Paracoters, \$10.00. Roasters, Falls. Major Co., 71 Milford, Springfield, Mass.

Fairmount Maternity Hospital—Seclusion and delivery service for unmarried girls. Adoptions arranged; low rates; confidential. 4911 E. 27th St., Kansas City, Mo.

● OF INTEREST TO ALL

BINOCULARS

For Sale—16 x 50 Naval sixteen power precision prism binoculars. Practically brand new. Finest leather case. Coated lenses, achromatic. Tremendous power. See for miles with them. Check on predatory animals. Originally cost \$250.00. Sacrifice \$85 for quick sale. Will send C.O.D. express with examination privilege to interested buyer if you pay postage. **ED PRIEST, Box 251, Rt. 1, Evanston, Ill.**

Save Chicken Feed! Don't feed the sparrows high priced chicken-feed. My homemade trap guaranteed to catch them by the dozens. Easy to make. Plans 10c and stamp. Sparrowman, 1718 Lane, Topeka, Kan.

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Fish Bait—Over 20 recipes and suggestions only 10c and stamp. Many favorable reports received. K. F. Fisherman, 1715 Lane, Topeka, Kan.

Don't Feed Sparrows. Make your own trap and catch thousands. Write for details. Roy Vail, LaGrange 15, Ind.

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Boots and Shoes—Highgrade, fancy, handmade. Western style. Made to your measurements. Latest catalog. Cricheet Boot Company, El Paso 8, Tex.

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Extracted—Pure as bees can make it.
60-lb. Can Clover, FOB..... \$12.00
60-lb. Can Mixed, FOB..... 10.50
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Order Promptly—Supply Limited
HAHN APIARIES, 1715 Lane St., Topeka, Kan.

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Please remember that prices given here are Kansas City tops for best quality offered:

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$36.50	\$36.25	\$36.50
Hogs	17.85	17.60	21.00
Lamb's	30.50	31.50	33.00
Hens, 4 to 5 lbs.21	.23	.33
Eggs, Standards32	.32 1/2	.45 1/2
Butterfat, No. 165	.67	.62
Wheat, No. 2, Hard ...	2.51 1/4	2.53 1/4	2.44 1/4
Corn, No. 2, Yellow ...	1.92 1/4	1.94 1/4	1.79 1/4
Oats, No. 2, White ...	1.02 1/4	1.03 1/4	1.01
Barley, No. 2	1.46	1.44	1.49
Alfalfa, No. 1	35.00	35.00	38.00
Prairie, No. 1	25.00	26.00	19.50

Beef CATTLE

REGISTERED SHORTHORNS

Polled 5-year-old herd sire. Dark red. Banbury breeding. Guaranteed every way. Will sell for 2c above market price. Also a few 1- to 5-year-old registered cows. Phone 16F31. EARL HAZMAN, Clafin, Kansas

REGISTERED SHORTHORN

For Sale. Good red bull calved March 24, 1951. A full brother was a blue ribbon winner at Kansas Free Fair in Topeka in 1951. Priced to sell. GLENN E. LACY & SON, Miltonvale, Kansas

REGISTERED

SHORTHORN BULLS

All ages. — Priced to sell. W. A. YOUNG & SON, Clearwater, Kansas

REGISTERED POLLED

SHORTHORN YEARLING BULLS

Sired by Redwood Chief, out of well bred polled dams. EARL J. FIESER, Norwich, Kan.

FOR SALE 20 CHOICE REGISTERED

Angus Bulls

Coming 2 years old. Rugged, thick and plenty of scale. Raised together. Inspection invited. L. E. LAFLIN, Crab Orchard, Nebr.

REG. ABERDEEN-ANGUS BULLS

For sale. Also a few Females. CHESTNUT & RAILSBACK, Quinter, Kansas

BEEF CATTLE

POLLED SHORTHORN—For Sale both Bulls and Females. Well bred, properly marked and good individuals. Bang's vaccinated. Ready to go out and do good for their new owners. Come see our herd before you buy. HARRY BIRD & SONS, Albert, Kansas

8 ABERDEEN-ANGUS BULLS

Well bred, high quality bulls, 10 months to serviceable age. Priced \$250 to \$375. UNRUH'S ANGUS FARM, Moundridge, Kansas

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For Sale. From the bloodlines of Worthmore, Bocaldo, Plato Aster and other prominent breeds. From 12 to 18 months old. IRL TINKLER, Gypsum, Kansas

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Out of Polled Cows by a top Polled Bull. Depth and thickness with plenty bone. Ready for service. Priced for immediate sale. DOERSCHLAG POLLED HEREFORDS, Alamo, Kansas

REG. HEREFORD BULLS

10 to 18 months old. Sired by: OJR Jupiter Star 12th, Domino Lad KTO 11th and F. Elation 22. Top range and herd bull prospects. WAITE BROS., Winfield, Kansas

POLLED

HEREFORD BULLS

A few young, registered really good sons of our A.L.F. Real Dom. 13th. Attractively priced. Walter F. Anderson, Scranton, Kansas

For Sale

JSA Baca Elation

Calved 6-10-50

Son of a Register of Merit sire and one of our very best cows. A good quality bull ready for a Registered Herd. Atha Hereford Farm, Grandview, Mo.

Atha Hereford Farm

BYRON PLANCK, Manager P. O. Lee's Summit, Mo.

Established in 1907

BANBURY'S HORNLESS SHORTHORNS

Senior herd sire Cherry Hill Hallmark, third in get of sire at Kansas State Fair in 1950. Scotch blood through Royal Clipper. For sale some of the choice of the herd. 20 young bulls and 20 young females. Some will be at the Kansas State Fair. Calhoun vaccinated. 9 miles southwest of Hutchinson, then 14 miles west on blacktop road.

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Public Sales of Livestock

Aberdeen-Angus Cattle

May 13—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, 3500 A.I.U. Bldg., Columbus, O. May 19—Red Oak Farms, Rocky Comfort, Mo. J. B. McCorkle, Sales Manager, 3500 A.I.U. Bldg., Columbus, O. October 29—Kansas Breeders' Association Sale, Hutchinson, Kan. Don Good, Sale Manager, Manhattan, Kan. December 8—Annual Commercial and Purebred Sale, Dodge City, Kan. Chester I. Bare, Sale Manager, Protection, Kan.

Hereford Cattle

September 5—Lull Hereford Farms, Smith Center, Kan. October 6—Hiland Stock Farms, Superior, Nebr. Melvin Schliermeyer, Owner. October 6—Beeks-Cleland, Baldwin, Kan. October 9—Jim Riffel, Junction City, Kan. October 11—CK Ranch, Brookville, Kan. October 21—Twin Oak Farm, Moundridge, Kan. October 27—John W. Spencer, Straight Creek Farms, Whiting, Kan. Sale at Marysville, Kan. October 30—Flint Hills Association, Cottonwood Falls, Kan. November 6—Lincoln County, Sylvan Grove, Kan. November 7—Cowlitz County Hereford Breeders' Association Sale, Arkansas City, Kan. Charles H. Cloud, Sale Manager, Winfield, Kan. November 11—Tonn & Fishburn, Haven, Kan. November 24—Summer County Hereford Breeders' Association Sale, Wellington, Kan. Paul M. Phillippi, Secretary-Treasurer, Argonia, Kan.

Polled Hereford Cattle

October 20—Cowgill Polled Hereford Ranch, Milan, Mo.

Holstein Cattle

May 15—Annual Dairy Heifer Sale. B. H. McConnell, Ft. Morgan, Colo. May 23—East Central Kansas Holstein Sale, Tonganoxie, Kan. Grover Meyer, Sale Manager, Basehor, Kan. October 8—Kansas State Holstein Association Sale, Herington, Kan. R. L. Evans, Hutchinson. Chairman State Sale Committee. October 23—Central Kansas Breeders Fall Consignment Sale, Hutchinson, Kan. T. Hobart McVay, Sale Manager, Nickerson, Kan. October 29—Nebraska State Holstein Association Sale, Lincoln, Nebr. Robt. Koehler, Fremont, Secretary. T. Hobart McVay, Sale Manager, Nickerson, Kan.

Jersey Cattle

May 3—Hyer Jersey Classic, Springfield, Mo. Chester Folck & Son, Managers, Springfield, O.

Shorthorn Cattle

May 19—Witter-Yearington-Hirsch, Parkville, Mo. Mervin F. Aegerter, Sales Manager, Seward, Nebr. June 6—W. A. Cochel and D. W. Bishop, Gashland, Mo. Mervin F. Aegerter, Sales Manager, Seward, Nebr. October 31—Mid-Kansas Shorthorn Breeders Show and Sale, Salina, Kan. Mervin Aegerter, Sale Manager, Seward, Nebr.

Hampshire Sheep

May 8—Missouri Breeders' Association, South St. Joseph, Mo. Glen Armentrout, Sales Manager, Norborne, Mo.

Poland China Hogs

October 20—C. R. Rowe & Sons, Scranton, Kan. Sheep (all breeds) May 12—Sixth Annual Purebred Show and Ram Sale, Hutchinson, Kan. June 27 and 28—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, Jefferson City, Mo.



In the Field

MIKE WILSON TOPEKA, KANSAS Livestock Editor

The 15-cow herd of registered Holstein-Friesians owned by R. L. EVANS & SON, Hutchinson, has completed a test year with the Holstein-Friesian Association of America. Production was an average of 502 pounds of butterfat and 13,074 pounds of milk, testing 3.8 per cent. Milking was 2 times daily.

Clyde Hill Dora Dolly Rock, registered Holstein-Friesian cow owned by GROVER G. MEYER, Basehor, has completed a 306-day production test with the Holstein-Friesian Association of America. Production was 618 pounds butterfat and 15,928 pounds of milk testing 3.9 per cent. Milking was 2 times daily, and cow was 8 years 6 months when testing period began.

In the ANNUAL SPRING ST. JOSEPH, MO., ABERDEEN-ANGUS SALE, 23 bulls averaged \$300 per head. These bulls were all young and none of them carried any special fitting. Top bull of sale was Shadyland Eileenmere 4th, consigned by L. C. Thornton, of Maysville, Mo., selling for \$570 to Artie Pew, Kidder, Mo. Second top of sale was Bakers Blackcap, consigned by L. C. Baker, Faucett, Mo. This bull sold for \$500, to Lester Wilkinson, Jr., Parnell, Mo. C. C. McGinnis was auctioneer, and sale was managed by Donald J. Bowman, Hamilton, Mo.

Entries for the Shortfied carlot cattle classes of the 1952 International Livestock Exposition are being listed now. Preliminary filing of entries for these classes is required to be made before May 1. This year's classification includes 2 classes—one for 15 head of steers weighing under 1,000 pounds each, and a class for steers averaging 1,000 pounds and over. Prizes of \$100, \$75, \$50 and \$25 will be awarded in both classes to ranking 4 carloads in that order; a large sterling silver trophy will be presented to champion carload.

Entry forms may be obtained from the Exposition headquarters, Union Stock Yards, Chicago. There is no entry fee.

SUTOR HEREFORD FARMS, of Zurich, sold 84 head of registered Herefords in the annual Spring Sale at the farm on April 16. Fifty-one bulls, many of them 1951 calves and selling in ordinary breeding condition, averaged \$401 per head. Thirty-three females, mostly open heifers, made an average of \$424. Top bull was a mature poll bull Plato Worth, selling at \$940 to Edwin Barell, Dighton. Top female was MB Alpha Domino 2nd, selling to Everett Matheson, Natoma, at \$550. The 84 head selling made a general average of \$410 per head. Sutor Hereford Ranch is owned and operated by Earl Sutor and his son, Darrell. Freddie Chandler sold the offering.

RED OAK FARMS ANNUAL SALE Monday, May 19 — Rocky Comfort, Mo.

Consisting of 6 Bulls, 28 Bred Heifers and 28 Open Heifers



BLACK PEER 34TH OF ANGUS VALLEY. He was top-selling bull at Angus Valley's 1949 sale, a son of Prince Sunbeam 105th, 5 sons and 13 daughters sell and 18 females bred to him.



PRINCE ERIC OF FERNDAL, the \$17,500 many times champion of Prince Eric of Sunbeam. 10 females carry his service.

RED OAK FARMS, Chester & Crystal Davidson, Owners

G. E. Goostree, Manager; James Dugger, Herdsman; Rocky Comfort, Mo. For catalog address J. B. McCorkle, Sale Mgr., Suite 3500 A.I.U. Building, Columbus 15, O. Auctioneers: Roy Johnston, Ray Sims and Paul Good Bert Powell with this publication Attend the following sales: Rose & McCrea, Maysville, Mo., May 12, 1952; Marycrest Farms, Maloy, Ia., May 13, 1952; Red Oak Farms, Rocky Comfort, Mo., May 19, 1952.

THE ANNUAL FIELD DAY

Will be held at the WRS Ranch in



Hutchinson, May 17, 1952

There will be a free barbecue, a livestock judging contest, a type demonstration by Dr. A. D. Weber, Associate Director of the Kansas Agricultural Experiment Station of Kansas State College, and a meats cutting demonstration by Prof. David L. Mackintosh of Kansas State College. Frank Richards, who is the national secretary of the Angus association, will give a talk, and other interesting activities will take place.

Other dates to remember:

Annual Feeder Calf Show & Sale, middle of October at Salina, Kan. Annual State Show & Sale, October 29, 1952, Hutchinson, Kan. Annual Commercial & Purebred Sale, Dec. 8, 1952, Dodge City, Kan. We are looking forward to seeing you May 17 in Hutchinson Don L. Good, Secretary-Treasurer, Kansas Angus Association

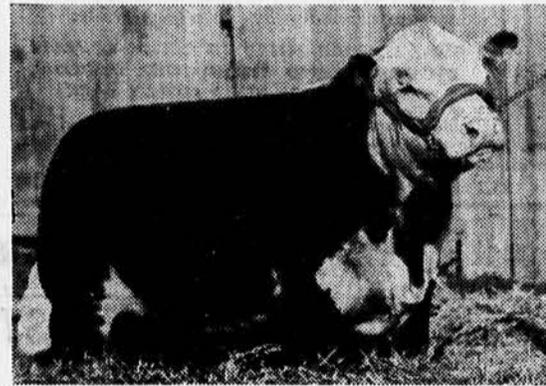
POLLED HEREFORD SALE

May 19 1952

Hays, Kan.

at ranch 3 miles west, 2 miles north of Hays.

SELLING 50 HEAD 20 Bulls and 30 Females



Captain Domino 7th, a full sister selling.

Selling top sons and daughters of Captain Plato 8th, Real Plato Domino 26th, Beau Domino 1st, Real Plato 8th, and A. L. F. Beau Mixer 8th, son of A. L. F. Pawnee Mixer 21st.

With the exception of several heifers bred to Col. R. P. D. all the heifers will be open. The bulls are of serviceable age and top herd bull prospects. Colonel R. P. D. son of Real Plato Domino Jr., the Kerbs herd sire, was champion and top-selling bull of the 1951 Kansas Polled Hereford Show and Sale. We had one of the top sales in Kansas in 1951, and the cattle are of higher quality than last years offering. The offering consists almost entirely of 1951 calves of top quality. Nearly all the cattle selling are out of polled sires and polled dams. They are smooth headed and not a scur in the entire offering.

JOHN N. LUFT, LaCrosse, Kan., a guest consignor.

For catalogs write: VIC ROTH, Owner, Box 702, Hays, Kansas Freddie Chandler, Auctioneer Mike Wilson for Kansas Farmer

REGISTERED Polled HEREFORDS

Bulls and Heifers 10 to 12 months old sired by P. V. F. Advancemore 8th, a 3/4 brother to the 1951 Fort Worth grand champion bull. Also 6 or 7 bred cows.

George L. Riffel & Son Hope, Kan. Phone 1404 Woodbine

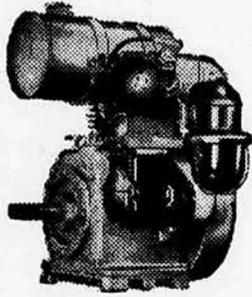
POLLED HEREFORDS

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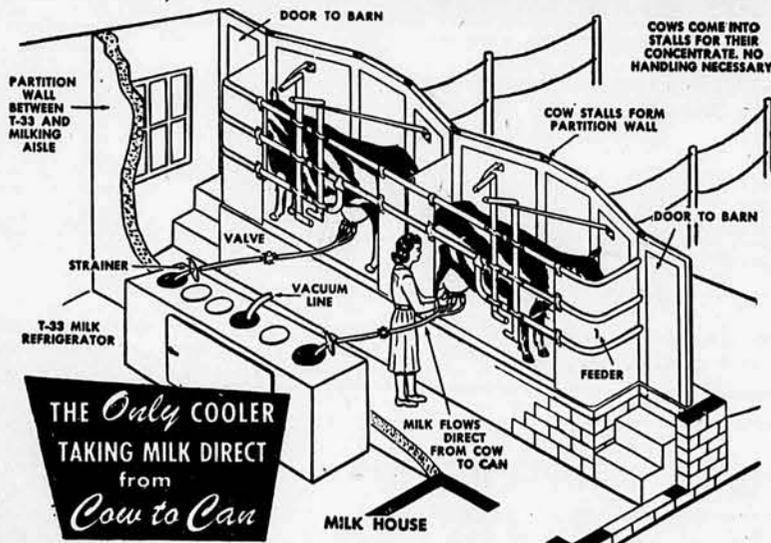
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ZERO MANUFACTURING COMPANY, 635-E Duncan, WASHINGTON, MISSOURI

What Kind of Hogs Do They Want?

(Continued from Page 1)

This event was sponsored jointly by the Wichita Union Stock Yards Co., Wichita Livestock Exchange, Kansas Extension Service, Kansas Swine Breeders Associations, and the Wichita Chamber of Commerce. Following the show and demonstration Cudahy Packing Company purchased all hogs in the show at premiums of \$1 to \$3 a hundred-weight.

Hog breeders from over a wide area entered 179 barrows in the show. Competition was for individual animals and pens of 3 in both open and junior divisions. One advantage of the show, which was held late in March, was that it gave 4-H and FFA members a place to show and sell their fall litters of pigs.

During the day a type demonstration was given by packer buyers, using live hogs picked to represent U. S.

Grades Nos. 1, 2, 3, Mediums and Culls. The various types of hogs were run thru the show ring and were individually analyzed as to desirable or undesirable qualities.

Litter mates to these demonstration hogs were slaughtered before the show. After seeing the various types and grades in the show ring, visitors were taken to the Cudahy Packing Company plant, where they were shown the carcasses. Packer representatives then demonstrated waste thru trimming required on undesirable type hogs, and visitors had a chance to compare the same cuts of meat from all various grades of carcasses.

Ray Hoss, Kansas State College marketing specialist, talked on marketing trends. "The type hog wanted by packers" (Continued on Page 35)



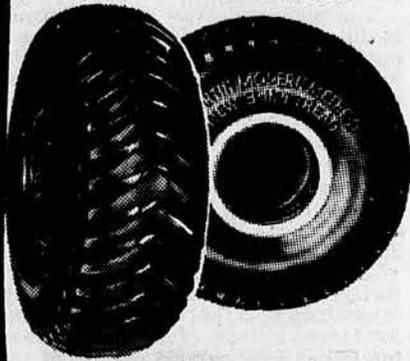
CARCASSES of litter mates to hogs used in type demonstration were exhibited so breeders could better understand what packers want. Carcass on left is No. 1, one on right is No. 3.



COMPARING NOTES are judges M. E. Corcoran, left, of Omaha, and N. G. "Pat" Barton, Wichita. Both men are Cudahy Packing Co. buyers.

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Martin BOMBER TIRES**

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FASTER, ON ROUGH FIELDS
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Model 48
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FAMOUS HOL-DEM FENCERS are guaranteed to hold all your stock, even on driest ground. Hol-Dem delivers the wallop in all soil and weather conditions—controls stock the year 'round on thousands of farms. "Weed Kutter" feature kills weeds on contact!

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ers during the war is no longer needed," he said. "At that time lard was very much in demand, now it is selling for 6 cents a pound and is a drug on the market. The modern housewife also is rebelling against fat meat. Either we must market a meatier-type hog or take a big loss in grading down.

"Biggest stumbling block to the new meat-type hog," said Mr. Hoss, "is that the producer isn't yet getting enough premium for putting it on the market. In recent months the spread between No. 1 and No. 3 hogs has run from 50 to 75 cents a hundredweight.

"One reason for this," Mr. Hoss continued, "is our method of marketing, perhaps. We may have to learn to top our hogs like we do our cattle and just market those hogs that meet top grade requirements on the day we ship."

What is a No. 1 carcass? Packer buyers told visitors to the show and demonstration that a No. 1 carcass should be from 27 to 31 inches long, with a trim jowl, and carry back fat averaging from 1.3 inches to 1.8 inches.

Breeders were told by Mr. Hoss that producing just the type of meat hog now in demand might not be practical from an economic standpoint. "For the present, at least," he said, "breeders should strive for a good, medium-type hog that will finish out to a good weight within a reasonable time without putting on too much fat. Like in cattle, no one breed has all the desirable qualities. Getting a good market hog is a matter of selection and feeding."

Those we talked to after the show were enthusiastic. "This type event is a real help to us in solving our production problems," many breeders told us.

**More 4-H Reporters
Enter Contest**

Here is a 4th list of 4-H Club reporters who have written *Kansas Farmer* about the 1952 Kansas 4-H News Writing Contest and for one of our "Suggestion Sheets" of stories to prepare. *Kansas Farmer* is new sponsor for this contest.

Reporters and home include: Louise Ravenstein, Adams; Grace Henry, Seneca; Marilyn Stephaneh, Cuba; Karen Geist, Plevna; Sandra Sue Johnson, Talmo; Donna Jeanne Schoof, Route 1, Council Grove; Jayne Rue Wyatt, Route 3, Garnett; Patty Goings, Ruleton; Linda Ayers, Selden; Margaret Fielt, Route 4, Box 44, Junction City; Beth Sterling, Canton; John R. Seimears, Jr., Piedmont; Anna M. De Fries, Havensville; Jay Kapp, Route 2, Liberal, and Belle Gates, Route 2, Moran.

Several adult leaders and officers of clubs also have written for more information about the contest. To date, 60 reporters have written *Kansas Farmer*, more names will be printed in future issues. Write us for contest details. First prize in contest is a \$50 college scholarship to winning reporter and \$15 cash to winning reporter's club.

**Borden Award
Goes to Kansan**

Annual U. S. Borden Award in Chemistry this year goes to Dr. C. H. Whitnah, Kansas State College chemistry department, for "outstanding study in milk chemistry since 1929." Award, which includes \$1,000 cash, will be made at American Chemical Society meeting in Milwaukee, April 1.

Doctor Whitnah pioneered investigation of minor constituents of milk and developed methods to determine calcium, magnesium and phosphorus in evaporated milk. Also, he has contributed important information in detection and quantitative assay of vitamin C, riboflavin, lactoflavin, carotene, foreign fats and of substances that produce "off flavors" in milk. He has developed machines and equipment for his work, and written many scientific papers and articles dealing with milk.

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Sweaters will dry in half the time if crumpled paper is placed in sleeves and between front and back of wet sweater.
Mrs. L. H. M.

Gives CHICKS



Faster GROWTH

Even With Vitamin B₁₂ and Antibiotics In The Feed
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**DR. SALSBUARY'S
Ren-O-Sal**

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REN-O-SAL helps chicks gain weight 15% faster as proved by tests with 90,000 chickens. Chickens mature quicker at heavier weights. They start laying up to 15 days earlier, and have sufficient weight to help them through the laying season. Additional tests show that **REN-O-SAL** produces faster gains even with Vitamin B₁₂ and Antibiotics in the feed.



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"We used Dr. Salsbury's **REN-O-SAL** on 500 pullets from the time they were hatched. They were fully grown at 4 months. **REN-O-SAL** sure makes them grow and feather faster, and they weren't sick a day with coccidiosis."

Mr. & Mrs. Vernie Kivett
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The Preferred
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In Easy-to-Use Tablet Form

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**CANVAS HOSE IS ECONOMICAL
IT'S TRIPLE-STITCHED. NO BREAKAGE AT SEAMS. LASTS FOR YEARS.** This pump irrigation hose saves water and labor costs because it is easily handled and eliminates ditches. Takes water over and around obstacles. Canvas dams also. Write for illustrated folder.
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**CHOLERA
SEASON IS NOW HERE**

**ARE YOUR HOGS
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Don't take chances on hog cholera wiping out YOUR herd. Have your hogs vaccinated NOW—Tomorrow may be too late.

**CONSULT YOUR
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His training and experience are your best assurance of proper immunization for dependable safety.

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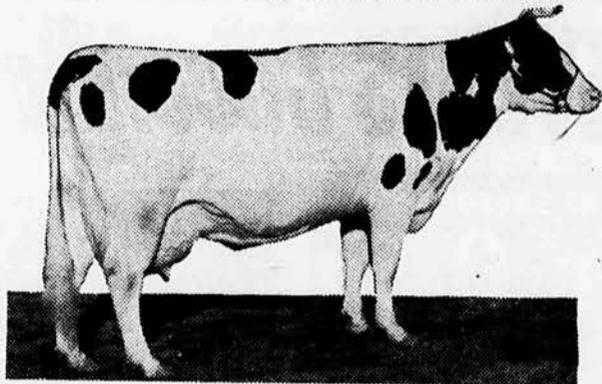
EAST CENTRAL KANSAS REGISTERED HOLSTEIN SALE

Fair Grounds

Tonganoxie, Kan., May 23, 1952, 11 A. M.

(25 miles west of Kansas City on U. S. Highways 24 and 40.)

65 Head of Reg. Holsteins and 8 High Grade Cows and Heifers



- 30 Registered Cows with H.I.R. and D.H.I.A. records up to 700 lbs. fat.
- 15 Bred Heifers from high-producing cows and proven bulls.
- 7 Open Heifers from cows with good production and type.
- 18 Heifer Calves suitable for 4-H Club boys and girls.
- 6 Young Bulls with very desirable type and production back of the sires
- 8 High Grade Cows and Heifers sired by registered bulls.

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GROVER G. MEYER & SON, Basehor	D. L. HIGGINS, Lyndon
G. J. PARKS, Lawrence	

Health: All animals will be tested for Tb. and Bang's disease within 30 days of sale and health certificates will be furnished with each. Many of the animals are calfhood vaccinated and from accredited herds.

The Sale Force

Chas. Cole, Wellington, Kan. Mike Wilson with Kansas Farmer
Raymond Zimmerman, Leavenworth, Kansas
Sale under direction and management of Sale Committee.
Grover G. Meyer, Chairman, Basehor, Kan. Martin Dickinson, Homewood, Kan.
Ronald Robb, Lawrence, Kan.
Raymond Appleman, Broken Arrow, Okla., will read pedigrees.

SECOND ANNUAL DAIRY HEIFER AUCTION

Thursday, May 15, 1 P.M.

Farm 9 miles west of

Fort Morgan, Colorado

on U. S. Highways 6 and 34.

Sale will be held inside, selling—115 head of extra large native Colorado Holstein heifers. To calve within 4 months of sale date. 80 head close up. Bred to purebred Holstein bulls. Calfhood vaccinated. Health certificates furnished. Laws of other states complied with. Cattle may be seen anytime at the farm. Lunch on grounds.

B. H. and R. K. McCONNELL, Owners
J. I. Hawley and C. E. Reed, Auctioneers



BUYER'S OPPORTUNITY SALE OF MISSOURI SHORTHORNS

Complete Dispersal 1 Herd and Reduction Sale of 1 Herd

52 Head Sell at 1 P. M.

on May 19 at Parkville, Mo.

(Sale to be held at the Yerington Farm 11 miles north of Kansas City, Mo., on highway 71 or 4 miles north of Parkville, Mo.)

12 BULLS including 1 3-year-old herd sire, Keystone Goldfinder 25th.
40 FEMALES—Including 19 cows with calves at foot, 7 bred heifers and 14 open heifers. A REAL OPPORTUNITY to buy the right kind of Shorthorns that are well bred—of good ages and that will make money in their new owners hands because they are either in production or ready to produce. For catalog and other information address

MERVIN F. AEGERTER, Sales Manager, Seward, Nebraska

6TH ANNUAL PUREBRED RAM SALE AND SHOW

STATE FAIR GROUNDS

Hutchinson, Kansas

Monday, May 12

Judging of Rams—3 P. M.—Auction Sale 7 P. M.

140 Purebred Rams—selection from the best flocks in Kansas. Every Ram offered for sale carefully selected and approved by a committee from: Kansas State College and the Breeders Association.

Hampshires—Suffolks—Shropshires—Southdowns—Dorsets
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Write for catalogs of these two sales sponsored by

KANSAS PUREBRED SHEEP BREEDERS' ASSOCIATION

T. DONALD BELL, Secretary-Treasurer, Kansas State College, Manhattan, Kansas.

W. H. MOTT, Herington; E. A. Dawdy, Salina, and J. Heersche, Mulvane, will be Kansas representatives to the 67th annual convention of the Holstein-Friesian Association of America, in Roanoke, Va., June 2 to 5.

The NORTHEAST KANSAS ABERDEEN-ANGUS BREEDERS annual spring sale took place at the sale pavilion, at Hiawatha, April 22. Seventy-four head of registered cattle sold, and averaged \$395. Nineteen bulls averaged \$400; 55 females, 44 of them open heifers, with no special fitting, averaged \$391. Top-selling bull came from the Angus Acres consignment, owned by Henry Tegmeier, Bern. The bull was Burgess Eileenmere AA, selling to E. J. Phillips & Son, Sabetha, for \$700. Top female was consigned by Ward & Menon, Highland; she was Miss Blackbird of Highland the 9th, an open heifer; sold to Bruce Simon, of Martell, Nebr., at \$855. Sale was managed by Harry Dandliker, Hiawatha. Gene Watson and Charley Cole did the selling.

Fifty-two head of Shorthorns in the HENRY DIETZ & SONS SALE, at Wakeeney on April 12, sold for \$24,150. Seven bulls averaged \$512; 45 females averaged \$457. Lot 53, an extra lot, was top bull in this auction. He was Favorite Stamp Express, and sold for \$750 to Solomon Fabrizius, Wakeeney. Top female brought \$970; this was a cow and calf combination selling to Robert Stencil, Wakeeney. Bull calf was purchased by Clem Zeigler, Collyer, at \$500. Top individual sold at \$650 to George Nal, Wakeeney. This was the first production sale of Dietz Shorthorns. Quality of cattle was very good and readily accepted by buyers. Pete Swaffar sold the offering. Sale was managed by Merv Aegerter, Seward, Nebr.

TWIN OAK FARMS of Moundridge, owned and operated by MR. AND MRS. PHIL ADRIAN and DR. AND MRS. JOHN HERTZLER made their 1st production sale of registered Hereford cattle at the farm, April 17. Weather conditions were very adverse. Heavy rains the night before, and morning prior to sale, made roads almost impassable. However a large number of farmers and breeders were successful in getting to the farm. Entire offering was made up mostly of yearlings and calves. Fifty-two head were sold for an average of \$343; 25 bulls averaged \$300; 27 females averaged \$387. Top bull was TOF Tredway 29th, bringing \$650 on the bid of Mellow Hereford Ranch, Marion. Top female was Miss Dandy Larry 99th, she brought \$755 and sold to Dr. W. P. Callahan, Wichita. Freddie Chandler sold the offering.

In the annual MID-KANSAS SHORTHORN SALE at Salina, April 11, 83 head of Shorthorn cattle were sold for a general average of \$420. Fifty-nine bulls were sold, many of them 1951 calves, at an average of \$432. Twenty-four females were sold in this consignment sale for an average of \$390 per head. Ralph D. and James M. Collier, Alta Vista, consigned top-selling bull, at \$1,000, to Richard Bird, Coldwater. Tomson Brothers, Wakarusa, consigned 2nd top-selling bull, going to Homer Humphrey, Larkinsburg. William E. Thorne consigned top-selling female, at \$1,025, to Leroy Bashor, King City, Mo. The 2nd top-selling female was from the W. V. Harshman consignment, Clements, was purchased by J. M. Reusser, Mulvane. Sale was managed by Merv F. Aegerter. Pete Swaffar was auctioneer.

In the SOUTHEAST KANSAS ABERDEEN-ANGUS BREEDERS' ASSOCIATION SALE in Iola, on April 2, 111 head of Aberdeen-Angus cattle averaged \$457 per head. Forty-one females averaged \$549 and 70 bulls averaged \$402; 51 of the 70 bulls were 1951 calves. A great majority of the 41 females were open heifers. Top-selling bull in sale, BPR Eileenmere 1039th, was consigned by Blackpost Ranch, Olathe, and sold to Kenneth Cunningham, Greeley, at \$1,260. Top-selling female was Zara 2nd of Creek Valley, a bred heifer consigned by L. F. Gorges, Fall River, and purchased by Robert A. Finney, Humboldt, for \$1,950. Mike Wilson and Russ Feeback sold the offering.

At the annual meeting prior to the sale, these officers were elected: President, Robert A. Finney, Humboldt; vice-president, Dr. John Hudelson, Pomona; secretary, Joe Devine, Iola; and Clarence Ericson, Savonburg, was re-elected sale manager. Mr. Ericson has very successfully managed a number of sales for this organization.

NORTHEAST KANSAS GUERNSEY BREEDERS held their annual District Spring Show at Horton, Wednesday, April 16. The show was smaller than usual, but about 40 head of cattle from 10 individual herds were shown before some 75 enthusiastic spectators. Judge was Joe Simmons, Meadow Lodge Farms, Oklahoma City, Okla. Show committee in charge were co-chairmen Carl and Raymond Olson, Willis; Charles Dornes, Sabetha, and Chester Wenger, Whiting. Officers for the district are Walt Wohletz, Effingham, president; Raymond Olson, Willis, vice-president, and Mrs. Forrest Johnson, Home, secretary-treasurer.

Junior champion bull of show was Cooper's Mar-Valliant shown by Walt Wohletz, Effingham. Senior and grand champion bull was Hycrest Butterfat Danny, owned by Harvey Buhler, Mayetta. In female division, a heifer calf Vansdale King's Jubilee, owned by Keith W. Van Horn, Sabetha, was junior champion and senior and grand champion honors went to Glencliff Wanda's Frances, owned by Forrest C. Johnson, Home. Champion 4-H animal was Hunnicutt King's Harriet shown by Donald Hunnicutt, Sabetha, and reserve champion was Prairie View Susianne Topey, shown by Raymond Olson, Willis. Blue ribbons were won by Lambert and Dickerson, Hiawatha, on the Get of Mar-Max Captain Lee and on Produce of Rock Creek Lassie, and by Forrest C. Johnson, Home, for Best Three Females.

On April 12, the annual NORTHEAST KANSAS BETTER BEEF DAY was held at the Horton Civic Center Building. An interesting day was spent in judging various classes and breeds of livestock.

In the evening a registered Hereford sale was sponsored by the Kansas Hereford Breeders' Association. Forty-three head of registered Herefords were sold for an average of \$424 per head. Twenty-four bulls averaged \$435; 20 females averaged \$411. Top-selling bull in the sale was S. R. Royal Larry, consigned by Stelbar Ranch, Douglas, and brought \$1,650; was purchased by J. B. Pritchard, Dunlap. O. C. Hicks, Garden City, consigned top-selling female. She was sold at \$840 to Ellen Rebenstorf, Wetmore. Considering the weather, attendance was very good. It had rained all way Saturday and all during the sale; perhaps had the weather been better, average of sale would have been somewhat higher. Quality of cattle offered was very desirable. Col. Gene Watson, Hutchinson, managed and sold the offering.

County Soil Labs Reach 30 Mark

NUMBER of county soil-testing laboratories in Kansas has reached the 30 mark! A story about the first one appeared in *Kansas Farmer* for February 19, 1949. The county was Cowley, with agent George W. Gerber in charge. Laboratory No. 30 is in Greenwood county.

This popular service idea for farmers to improve their yields mushroomed until more and more counties saw the benefits to be derived for their area from soil testing.

Kansas Farmer editors encouraged development of these county laboratories even before the first one was put in operation at Winfield. Dr. R. V. Olson, state soil-testing laboratory at Kansas State College, has been in charge of special schools for agents of counties who are interested in setting up laboratories. Full story on Cowley county's laboratory was told in *Kansas Farmer* for March 5, 1949. Since then, succeeding issues have carried reports of each new laboratory as well as many crop results where fertilizer was applied according to soil-test recommendations.

Many Join List

Brown county began operation of a laboratory in 1949, following Cowley county's lead. In 1950, these counties joined the list: Mitchell, Dickinson, Nemaha, Wyandotte, Morris, Crawford, Bourbon, Butler, and Labette. Other early-leading counties were Clay, Marion, Jefferson, Jackson, Doniphan, Lyon and Franklin.

In Labette county, during first 2 weeks of operation of new laboratory in 1949, about 100 soil samples were brought into office of Warren Teel, county agent. Degree of plant food deficiencies in many cases was more extreme than expected.

For the most part, these county laboratories have been purchased with money provided by farmers in the communities. And that is a healthy situation. In some cases the money was already available. In others farmers advanced sufficient money to make the purchase. The advances are being applied to soil tests on these farms.

There is one thing certain about these county laboratories. They are placing even more work on the county agents. But these agents believe the extra effort will be well worth the time, since knowledge of soil and plant food use is basic in today's agriculture.

Agents Give Views

It is interesting to hear reactions of county Extension agents who have laboratories. One says, "I feel the soil laboratory is a grand educational device, especially the pH values and organic matter per cent. The pH meter allows us to determine the acidity in the soil and also the lime requirement. Organic matter, which determines the water-holding capacity of a soil, is another important part of the test. We can explain to farmers that they have lost half their organic matter. But if they bring in 2 soil samples, one from their cultivated fields and one from their pasture, they can see the difference between 2.5 per cent and 4.5 per cent organic matter respectively. Seeing this they are convinced it is time to start plowing under straw, rather than burning it, and plant some type of a legume, preferably sweet clover or alfalfa."

Another says, "In regard to a laboratory serving one or more counties, I am perfectly willing to serve surrounding counties, but I don't think it will do the farmers of those counties as much good as it would if they had their own laboratories."

Altho laboratories are rather expensive for a single county (almost anywhere from \$500 to \$1,500), another agent says, "The program is well worth the money from the standpoint of the local farmer."

In Jefferson county, nearly 100 samples were tested in January, despite adverse soil-testing conditions. Total number of samples tested since May, 1951, is near 400. Plans are to test between 600 to 700 samples during the laboratory's first year of service!

Lengthens Wear

To double life of slacks and trousers, reinforce bottom of each leg with strip of matching "press-on" tape. The tape takes wear instead of the garment.—Mrs. Paul Norris.

Ability to produce good yields even in poor seasons boosts . . .

GROWING SORGHUMS IN KANSAS

By GORDON WEST

IF KANSAS were limited to growing only one cultivated crop for feed and grain, sorghum probably would best meet such a requirement. The high place of the crop in the state is due to its ability to produce in poor seasons. There are several varieties to choose from for various purposes and areas.

Sorghum refers to a large number of crops. It includes broomcorn, kafir, milo and Sudan, sweet forage sorghum (incorrectly called "cane") and many others.

There is a sorghum variety for almost any purpose and region in Kansas. Unless pure seed is planted, varietal differences are of minor importance because sorghum varieties cross-



pollinate so readily within a few years, without use of pure seed, varietal characteristics disappear.

Westland and Midland are well-adapted grain sorghums for Kansas. Other grain varieties grown are Early Kalo, Martin, Colby, and Oklahoma 44-14. Best forage sorghums for Western Kansas are Ellis, Early Sumac and

JANSONIOUS BROS., Prairie View, held their annual production sale of Hereford cattle at the sale barn in Phillipsburg, April 15. Fifty-seven head were sold, everyone produced on the Jansonious farm. Twenty-three bulls were sold, making an average of \$473 per head; 34 females, mostly yearlings averaged \$331 per head. Top-selling bull in the sale was Double Mixer 20th, going to G. G. DeBey, Cawker City, for \$850. Top-selling female was Miss D. Mixer 8th, purchased by H. G. Hereford Farms, Colby. H. G. Farms were also purchasers of a number of females selling. The fifty-seven head of Jansonious bred Herefords averaged \$389. Freddie Chandler sold the offering.

HOGS

Featuring these top herd sires.

CK CRUSTY 70TH
bred by CK Ranch, Brookville, half-brother to 1951 American Royal Champion.

CK ROYAL DUKE 3RD
bred by CK Ranch

P. ROYAL DUKE 7TH
bred by Parcel Herefords, Coldwater, grand champion bull at the 1948 Kansas State Sale. A number of his heifers are being retained in the herd.

Visitors are welcome to see the Get and Service of these bulls.

STRAIGHT CREEK FARMS, Whiting, Kan.
JOHN W. SPENCER, Owner

Livestock Advertising Rates

Effective February 1, 1951

1/2 Column inch (5 lines) . . . \$3.50 per issue
1 Column inch \$9.80 per issue
The ad costing \$3.50 is the smallest accepted.

Publication dates are on the first and third Saturdays of each month. Copy for livestock advertising must be received on Friday, eight days before.

MIKE WILSON, Livestock Editor
912 Kansas Avenue
Kansas Farmer - Topeka, Kansas

Norkan for upland. Atlas and Axtell have good adaptation on bottom lands and where heavy tonnage is required. The Fort Hays Experiment Station is actively engaged in developing and testing new combine and forage types. Some new white-seeded types are being developed for industrial use, but should be equally as good for feed use on farms.

Sorghum is a warm-weather crop, should be planted during latter part of May and early June. A well-prepared seedbed is of primary importance. Planting in warm soil in shallow furrows at 3 to 3 1/2 pounds in rows 40 or 42 inches apart and about one inch deep, and firming soil over seed with packer wheels, will help greatly to insure stands. Same rate of planting applies if a grain drill is used and when row spacing is from 20 to 28 inches apart. In seasons of abundant rainfall the drill method may give higher yields than when listers are used. There is also greater danger from weeds when the drill method is used, but cultivation with some type of duckfoot tool may help control them. Weeds may be controlled by using 2,4-D but plants are sometimes injured when sprayed. Even so, if the crop is about to be lost to the weeds, spraying may be very helpful.

Good Seedbed a Must

A sorghum crop well planted on a good seedbed is half raised. Losses in yield occur when number of plants per acre are insufficient to occupy the land. When the stand is thin and uneven, the crop usually is irregular in height and maturity, difficult to harvest and weedy. Ideal seedbed has an abundance of stored moisture. Soil is warm, mellow and in good tilth. Sorghum seed then will germinate quickly and plants grow vigorously.

In Central and Western Kansas, highest yields usually are obtained where tillage is begun in late fall or early spring. Present surface tillage implements will prepare a proper seedbed. It is also important to reduce to a minimum the danger of washing and covering. This usually can be done effectively with a planter that has disk furrow openers that make a wide furrow bottom and short gentle slopes. Or, land may be listed about 4 inches deep several weeks before planting time. Then the lister and planting attachments may be run in the furrows deep enough to throw the soil out of the ridges to cover weeds.

When to Work Field

In Eastern Kansas, seedbed can be prepared in the fall, disking perhaps twice in the spring, and harrowing just before planting. Early spring plowing usually gives good results, especially for those soils which may run together badly during the winter. Listing is advisable only in lightest soils and where erosion of ridges and bottoms of furrows is not likely to be serious. Use large disk furrow opener planters for best listing advantages.

Sorghums require from 90 to 120 days to mature. Best growing season is from May 20 to September 20. After September 20, night temperatures begin to fall and ripening is greatly slowed down. Therefore, planting should be early enough for combine sorghums to be well along in maturity by last of September. A good freeze on ripened grain helps reduce moisture content below 13 per cent. Grain then can be fairly safely stored thruout the winter or until sold or fed.

Seed of high vitality planted under favorable conditions should germinate 50 per cent with normal weather conditions in the field. There are 12,450 feet in an acre when rows are 42 inches apart. Large seeded sorghums have about 12,000 seeds per pound, intermediate seeded sorghums have from

20,000 to 25,000 seeds per pound, small seeded sorghums have about 37,000 seeds per pound. If these were seeded one pound per acre, seed would be spaced from about 4 to 12 inches apart in row. It is advisable to plant from 2 to 5 times this amount, depending upon size and quality of seed to get stand desired. Sorghum should not be planted too thickly, especially in Western Kansas. Experimental results show that 2 pounds of good-quality seed of the combine grain sorghum varieties per acre is sufficient for optimum results. Excellent results may be obtained by planting forage sorghums for silage at the rate of 3 to 4 pounds per acre.

Sorghum should be cultivated to control weeds and to keep the soil in condition to absorb rain water and to allow for proper aeration. Cultivation should be shallow, with any kind of implement that will control weeds and maintain proper soil conditions. Care should be taken not to injure roots severely. Best and cheapest cultivation is that done before the crop is planted, as weed crop is more easily killed then.

Combine Does the Job

In harvesting sorghum crop, most general practice is harvesting and threshing in one operation with combine. When crop is ripe and dry, this method is satisfactory. When sorghums are used for hay and silage, harvesting methods should conform to methods in use of other silage or hay crops, with modification to compensate for the high yield and coarseness of the crop. Forage sorghum should not be cut for silage until the seed has reached the hard dough stage. To avoid difficulty in storing grain, combine sorghums should not be harvested until they are fully mature. Grain sorghum should stand at least 2 weeks after a killing frost before being combined. If grain is to be stored for some time, moisture content must be not more than 12 per cent.

Continuous research is conducted by Kansas Agricultural Experiment Station in breeding varieties of sorghums that are higher yielding, more adaptable, easier to harvest, disease-resistant, and have better standing qualities. Chinch bugs and smut have been enemies in sorghum production, and in some years, charcoal rot. The February 3, 1951, issue of *Kansas Farmer* brought you a story on what to do about charcoal rot. Scientists are working on new varieties which will be resistant to chinch bugs and smut. Iron chlorosis of sorghums also gives trouble to growers. Researchers are working on this problem, say experiments give hope the iron deficiency condition can be corrected. *Kansas Farmer* for March 1, 1952, brought you a special article on this problem.

Grain sorghum production in 1951 in Kansas was outstanding—57,310,000 bushels, largest on record. With new results from research available in the future, Kansas is well on her way to a new era in sorghum production.

Screw Easily Removed

To remove a screw embedded in an enameled surface, heat an old screwdriver and hold it on the screw slot until the enamel in it has melted and the screwdriver will fit into the slot. Reheat the screwdriver and hold it on the slot again until the screw and the surrounding enamel have become warm. Gently turn the screw and you will find it will come out easily without cracking or breaking any of the enamel.—A. E. Klein.

Protect Farm Structures

Nukemite is a protective paint, especially good for concrete silos where it prevents ensilage from spoiling. It's ideal for feed troughs, storage bins, drinking troughs, dairy barns, milk rooms. For more information write us for a copy of "Nukemite." Send your name and address to Farm Service Editor, *Kansas Farmer*, Topeka. No charge.

Dual-Purpose CATTLE

20 Polled Hereford Bulls



Sired by polled sons of C. K. Cadet

Bloodlines intensely polled from 40 years of constructive breeding. 12 months to serviceable-age bulls offered. Priced reasonably.

GOERNANDT BROS.
Ames (near Concordia), Kansas

WISCONSIN DAIRY CATTLE

Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Delivered to your farm C. O. D.
Dennis R. Grosse, York, Nebr., Bx. 48, Ph. 1410

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MILKING SHORTHORN HERD
Cows classified and DHIA tested. Visitors always welcome.
LEROY HARVEY, Hill City, Kansas

MILKING SHORTHORN

HERD SIRE

Retnuh Choice Goods, classified V. G. Dam; Retnuh Princess Rose 5th, classified Ex. R. M., 355.9 butterfat. Would sell several heifers.
J. E. EDIGER, Inman, Kansas
8 East and 3/4 South

BULLS FOR SALE

Red Milking Shorthorn. Senior herd sire. Retnuh Show Bates, classified very good, scored 93 points, color roan, weight 1,875 pounds, age 4 years. Very gentle. Also young bulls, red and roan dams, R. M. classified V. G. This 4-year-old bull is a fine bull, you will like him.
W. E. LEWIS, Jewelcrest Farms, Esbon, Kan.

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Visit Artesia Ayr Farms for HIGH QUALITY AYRSHIRES

Cows, heifers and young bulls for sale, including an approved cow and several sired by approved sires. Females have official records. Females are bred to and calves sired by Shirley-Ayr Headman, son of Peshurst Jim, Approved, and Neshaminy Headline, Excellent, full sister to Woodhull's Approved Neshaminy Prince. Priced reasonable. Bang's and Tb. free and califhood vaccinated.
J. E. ROBINSON & SON, Fowler, Kan.

SHEEP

SUFFOLK SHEEP

Booklet, list of breeders free. Write National Suffolk Sheep Association, Box T, Middleville, Mich.

LAMB SALE

for 4-H and FFA Boys and Girls

May 10, 1952

Time: 1:30 P. M., Valley View Ranch

Haven, Kansas

75 LAMBS

50 Southdowns and 25 Shropshire

Buyers: FFA and 4-H Boys and Girls

Auctioneer: Harold Tonn

HOGS

FLACH DUROCS

Fall Boars and Open Gilts by W. F. Promotor 2nd, for the best in Durocs come and see.
J. H. FLACH, Paxico, Kansas

Duroc Boars and Gilts

Leading bloodlines. Excellent color. Firm fleshed, good doers, vaccinated, registered. Phone 25F12.
C. E. Molder—G. M. Shepherd, Lyons, Kansas

REGISTERED DUROC FALL BOARS
Sired by Hillside Distinction, a son of the \$2,500 Indiana Junior Champion of 2 years ago, and by Crusader's Leader, a son of Proud Crusader. These boars are well grown, husky, vaccinated and ready for new homes.
LESLIE A. STEWART, Americus, Kansas

FOR SALE

Poland China FALL BOARS

Choice individuals, sired by the Aristocrat and Advancer. Priced reasonable. Write
BAUER BROS., Gladstone, Nebraska

SPOTTED POLAND CHINA

Fall Boars and Fall Gilts, of popular bloodlines. Vaccinated and registered.
EARL J. FIESER, Norwich, Kansas

May 17

Will Be Our Next Issue

Ads for the Classified and Livestock Section must be in our hands by

Friday, May 9

If your ad is late, send it in Special Delivery to 912 Kansas Ave. Kansas Farmer, Topeka, Kan.

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Hog raisers who try Occo once—stick with Occo! They
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**IF YOU RAISE HOGS THIS SUMMER
TALK WITH YOUR OCCO SERVICE MAN
HE CAN SAVE YOU MONEY
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OELWEIN, IOWA

HAVE YOU HEARD?



Notes on New Products and Folks Who Make Them

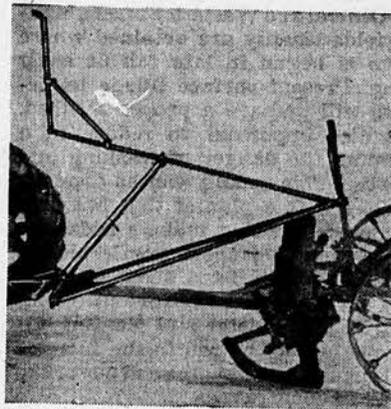
A PPLYING aldrin to soil shows great promise for checking corn root-worm, says Shell Chemical Corp., New York. Tests at Iowa State College gave good results when aldrin was mixed with the starter fertilizer and applied in bands along the hills at planting time.

Wood Forage Box has been added to wagon box line of Winpower Mfg. Co., Newton, Iowa. Box is complete with built-in hydraulic loader. There is com-



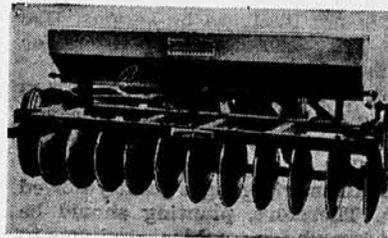
plete control by operator over action and speed of false endgate. Fingertip control lever at rear of box controls forward and reverse motion. A 5-ton load can be unloaded in 1 to 10 minutes as desired.

Automatic Power Unit for corn planters and cotton planters is now on market. Unit raises and lowers planter runners automatically on turns, allows



fast, efficient and easy planting. Automatic Power Co., Greenfield, Ia., states Unit can be adapted to all planters having lever control. It's easy to install—there is only one pin to unhitch planter from the tractor.

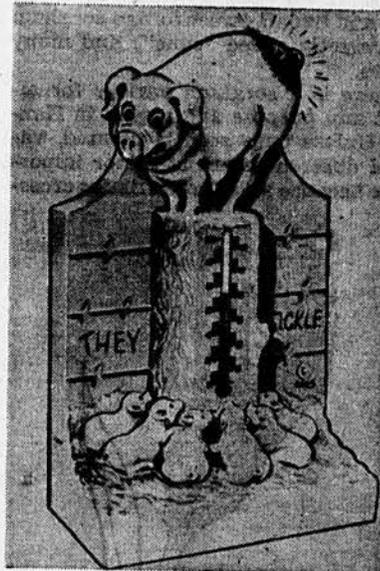
Farmtec Harrowplow-seeder saves time, saves power and increases yield, says Farmers Tool and Equipment Co.,



Oakland, Calif. Machine plows, discs and seeds in one laborsaving operation. It mixes finely cut humus thruout topsoil. It improves soil texture and retention of moisture; increases yield. Seeds accurately and uniformly distributed without waste.

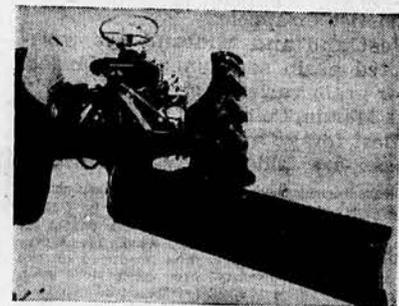
Ralston Purina Company announces construction of a new solvent soybean processing plant at site of present expeller plant in conjunction with company's Kansas City Chow Mill. Announcement is made also of purchase of Shellabarger Mills, Inc.

"Tickle Pigley" is a Weather Fore-caster and Thermometer, made by A.M.



Spors Company, Le Center, Minn. They say, "Tickle your friends with this novel and useful gift." Weather fore-caster is on mama pig's back; magic chemical changes color from blue, for fair and sunny weather, to pink for cloudy or rainy weather.

Servis "3-Way" Ditcher-Terracing Blade is designed for cutting a narrow irrigation ditch in hard ground; blade is completely reversible by releasing one pin from operators seat; by removing 2 pins, blade assembly is easily



moved on circle projecting end of cutting edge about 24 inches beyond rear tires, thus permitting close cutting near fences, buildings and can be used for back-filling ditches in forward direction of tractor. "3-Way" is made by Servis Equipment Co., Dallas, Tex.

To Get Greatest return in productive hours and obtain life built into equipment, a preventive maintenance program is a "must," says Allis-Chalmers Mfg. Co., Milwaukee, Wis. In picture, the electrical system—battery, wires, starting motor, generator, and lights—is inspected. Allis-Chalmers says,



"Check level of water in battery weekly or as often as necessitated by operating conditions. In extremely hot weather, frequent checking is essential because water is used rapidly. Filler caps should be kept tight. Trace all wires."

Marketing Viewpoint

C. P. WILSON, Livestock
BERNARD J. BOWLEN, Feed Grains
PAUL L. KELLY, Dairy Products

In view of present low feeder pig prices and possible higher hog prices in July and August, do you think one would be taking a great deal of risk in buying corn and 75- to 100-pound pigs and feed for August market? In what month could one expect the hog market to reach its peak? At what price range do you expect the hog market to reach at the high time this summer and early fall?—C. M.

Hog prices probably will reach their seasonal peak in the latter part of August or the first part of September. The some market forecasters believe it will go higher, it is probable the top will not exceed \$21 for any significant period of time. Should the cutback in this spring's pig crop be much greater than presently anticipated, the price could go some higher.

You would be taking a risk in buying corn and feeder pigs, but if you manage well the risk probably is worth taking. You should, of course, secure the right kind of pigs soon and at as low a price as possible; endeavor to maximize the gain with a minimum feed cost, and try to hit the market at right time. Unless some unforeseen situation develops, the pork producer should be in a more favorable position in relation to beef producers in 1953 than he has been in recent years.

WHY BUY A PICK-UP REEL?



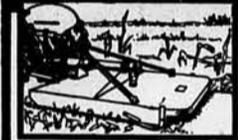
Rel-Tuh Reel Batt Attachments lock on your present reel and give you all the advantages at a fraction of the cost. Fits all combines and windrowers. No conversion—15-minute installation. Ask your local dealer for Rel-Tuh, or write: **M. D. McDONALD CO.** Box 1298C, Wichita, Kansas

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The modern "Rapidigger" for Ford, Ferguson tractors. No gears, drive-shaft. Revolutionary invention. Guaranteed Performer. Write for information. **RAPIDIGGER, 4605 Lowell St., Lincoln, Neb.**

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- MOWS

Quickly and easily attached to any 3-point hook-up tractor. Cuts corn stalks, weeds, crop residue, buck brush, heavy growth of all kinds. Cuts a swath 42" or 60" wide, 1-18" high. Operates forward or reverse. Save time! Save work! Save money! If your dealer can't supply you, call or write **BMB COMPANY, INC.** HOLTON 1, KANSAS

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SILOS • CORN CRIBS GRAIN BINS

Champion preservers of grain, corn, silage. All-steel construction, strain-proof, leak-proof, rust-proof, rat-proof. Precision made for easy assembly. Forty years of leadership.

Dealers and Agents Wanted
No Capital Required

Write for complete information
Clayton & Lambert Mfg. Co.
1701 Dixie Highway Louisville 10, Ky.

Do you expect an increase in the price of wheat between now and the time the new crop will start reaching the market?—J. K.

There is enough free wheat to meet expected domestic requirements plus a small amount for export. An increase in export sales would likely result in some price increase. However, increased foreign sales are unlikely until the new crop is harvested and therefore no significant price increase is likely for wheat in the near future.

Will we see the usual amount of surplus milk in fluid markets this summer?—B. B.

It is extremely unlikely Kansas markets will have the usual amount of seasonal surplus milk this year. However, this should not encourage producers to abandon plans for more level production because most factors point to shortages of milk next fall. There is still little indication of any up-turn in cow numbers in this area and consumer demand for milk continues strong.

Cattle Like Salt KSC Tests Show

Free access to salt makes a big difference in both weight gained by cattle and amount of feed they eat. That's the opinion of Prof. E. F. Smith, who supervised tests at Kansas State College studying effects a saltless diet had on steers.

Steers on silage and salt gained about 139 pounds each during winter, while those on silage without salt gained only 80 pounds each. Steers with no salt in their diets ate 60 per cent more silage and 74 per cent more soybean pellets for each 100 pounds gained. Steers with free access to salt will eat more feed and gain more efficiently, particularly on full feed. During a summer period on grass, salt-fed steers gained 36 pounds more each than those of the no-salt group.

KSC Chooses New Sheep Area

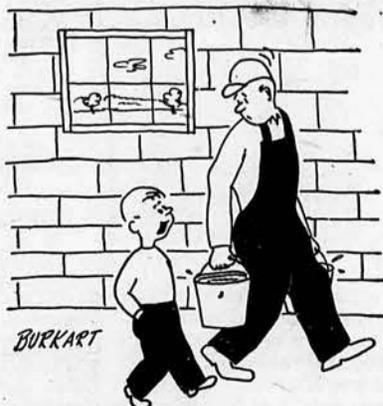
A new location for Kansas State College sheep barns built in 1927 has been selected and animals will be moved soon. T. D. Bell, animal husbandry professor, says the new area, 1/2 mile north of the college, will provide about 100 acres of pasture, divided into 12 lots.

About 10 miles of new woven wire fence will be required for the 12 pens. A 140-foot-long sheep nutrition barn will be moved to the new area. Old sheep barn site consisted of only 16 acres. Chief advantages of new location are increased pasture areas and room for class instruction.

Kansan Edits New Dairy Book

Jim Cavanaugh, Kansas State College graduate in dairy husbandry, is editor of "Gotham Herdsmen II," a 12th anniversary yearbook of young men who served as herdsmen at the Borden Company Exhibit at the 1939 New York World's Fair.

He was one of 61 college students who worked with dairy animals at the exhibit. The new book gives experiences and information of the "Borden Boys," and what they are doing today in field of dairying and agriculture. Mr. Cavanaugh is now assistant secretary,



"Her crankcase sure was loaded, wasn't it, Uncle Bill?"

American Jersey Cattle Club, Columbus, O.

Other Kansans mentioned in the book are Harold Clay, Meade, and Don Kliesen, Dodge City. Mr. Clay is in partnership with his brother and raises Holsteins, swine and poultry. Mr. Kliesen has a Holstein herd on his farm, also feeds swine and poultry.

Productive Waterway

Seeding 2 acres of waterway on the W. Duange Hadorn farm, Miltonvale, brought 300 pounds of brome grass seed in the first growing season.

Mr. Hadorn says, "Grass seed my waterways produced this year was worth twice as much as anything else I could have produced on that land... establishment of these waterways has stopped erosion that had caused gullies to form in natural drains. Because of this experience, I've put in one more waterway than was contemplated in the original conservation plan." Land was fertilized with a generous application of chicken manure.

Discover New Oak Wilt Disease

Discovery has been made of a relatively new oak wilt disease, in Baldwin and Bonner Springs. An infected tree becomes diseased in about 2 weeks, according to Kansas State College botany department.

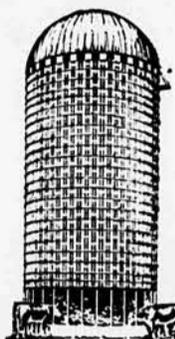
Best control is removing infected trees and burning them. Before they are felled, trees can be killed with 2,4,5-T chemical. If not burned, infected trees will harbor oak wilt fungus which can cause further infections. Diseased trees have distinct red or bronze coloring from June until fall colors appear. Red oaks are much more susceptible than white oaks.

Blanket Suggestion

When washing blankets that have colored borders, I hang them so the stripes hang down. This will prevent streaking if the colors should run.—M. O.

DODSON HAYKEEPER-AND SILO

Only \$38

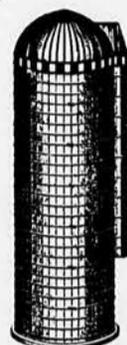


Delivers Balance from Income

The New Dodson self-feeding hay-keeper is the easiest way to feed cattle. You can save all the leaves and make your feed produce twice as much.

SAVE ALL YOU RAISE

Use of Dodson silo and hay-keeper will put on more beef or butterfat than any known feeding method... and do it quicker and easier... Write for literature on grass silage.



Send This Coupon Today To

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DODSONS, 1463 Barwise, Wichita, Kansas, or First and Cedar, Concordia, Kansas.

Send me literature on Haykeeper Silos Dodson Cattle Shed Dairy Barn Special leaflet on grass silage

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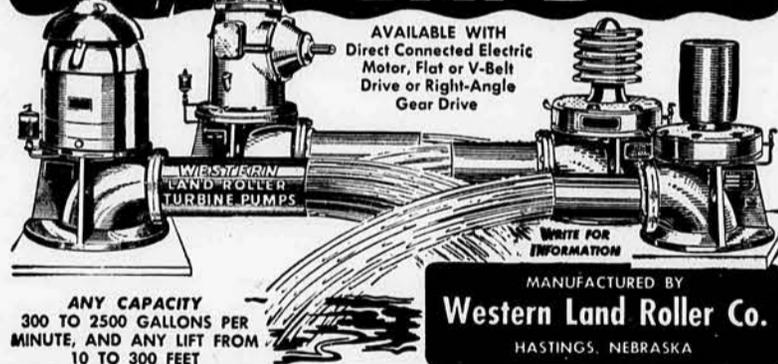
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In Making Your Will

Why not make some provision for crippled children? Many friends of the Capper Foundation have done this. They leave certain property for their relatives, if they have any who should be provided for, then they say, "All the rest of my property I leave to the Capper Foundation for Crippled Children, Topeka, Kansas."

Western Land Roller PUMPS FOR IRRIGATION



ANY CAPACITY 300 TO 2500 GALLONS PER MINUTE, AND ANY LIFT FROM 10 TO 300 FEET

MANUFACTURED BY **Western Land Roller Co.** HASTINGS, NEBRASKA

THE BETTER BUILT BAZOOKA WITH THE FAMOUS FLEXODRIVE

BEATS ALL FOR LOW COST GRAIN HANDLING

Smooth, uniform operation, high capacity, easy adjustment, instant power control with a FLEXO (flexible shaft) DRIVE Bazooka. No long belts. Motor always low and level. More grain moved faster, better, cheaper. Heavy tubing, best fighting, high speed sealed bearings. Sixteen foot basic length with 5, 10, 15, 20 foot extensions. Flexo-drive Bazooka is your best grain loader buy.

Four Other Popular Bazooka Models

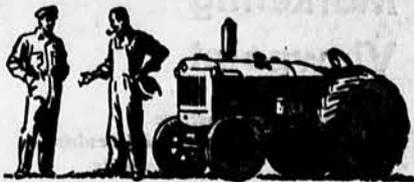
- Type B truck unit with adjustable motor mount and idler pulley drive. Also available with carrier.
- Type C upright tube, electric motor at head.
- Type D for electric power, with carrier, countershaft drive and motor low on tube. Sectional tube construction in all models.

NEW SUPER A BAZOOKA for TALL GRAIN BINS
A Flexo-drive Bazooka with scissors action carrier and motor low on tube. Elevates to 25 feet at spout. Made for filling 3300 bu. grain bins.

THE WYATT MFG. CO., INC. JAYHAWK FARM IMPLEMENTS SINCE 1903 DEPT. 113 SALINA, KANSAS



THE TANK TRUCK



Left: W. B. McGinney checks the blossoms on part of his 100 acres of roses. Right: Mr. McGinney shows his roses to J. D. Peerson, Conoco Agent (left). Mr. McGinney has been using Conoco Products for 21 years—says he gets smoother performance and more economical service with Conoco.

Raises Millions of Roses!

WANT A DOZEN ROSES? W. B. McGinney can give you a million! Well, not exactly "give" 'em to you. Mr. McGinney's business is rose farming and every year he grows over a million rose bushes!

Mr. McGinney is one of the group of farmers around Tyler, Texas, who produce two-thirds of the entire nation's field-grown rose bushes. He, himself, cultivates about a hundred acres of roses each season.

He says the best way to grow healthy roses is to "rose" the land for two years and then let it lie fallow for four, or use soil-building legumes. He ships all his plants in refrigerated freight cars.

"I used one tractor for five years and was out no expense on the motor whatsoever! I started using Conoco Products 21 years ago," Mr. McGinney reports, "and I have never

had a bearing failure or other mechanical trouble that could be traced to oil.

"Only two times have I ever had anything else but Conoco in my tractors, and those two times convinced me that I was getting smoother performance and more economical service with Conoco. I'm convinced I'd better stick to Conoco for my own good. Yes, to grow the very best roses, I believe in using the best equipment and the best petroleum products—Conoco!"

Thanks, Mr. McGinney! And for growing the very best wheat—or cotton—or corn—or any other farm product—it's Conoco, all the way. For Conoco Super Motor Oil—and the other Conoco Products—can make your cars, trucks, and tractors last longer, perform better, use less fuel and oil. So, call Your Conoco Man, today!

"50,000 Miles-No Wear!"



After a punishing 50,000-mile road test, with proper crankcase drains and regular care, engines lubricated with Conoco Super Motor Oil showed no wear of any consequence . . . in fact, an average of less than one one-thousandth of an inch on cylinders and crankshafts. AND gasoline mileage for the last 5,000 miles was actually, 99.77% as good as for the first 5,000! This test proved that Conoco Super, with OIL-PLATING, can help your car and truck engines last longer, perform better, use less gasoline and oil.

Tractor Rack Saves Trips

To avoid running out of seed or fertilizer in the middle of the field, make a rack like this, and you'll always have an extra supply with you, suggests Robert Raines, R. 1, Louisburg, Kans. Make rack of 2 x 6's and 1" lumber.



No More Twisting

"To keep the rope from twisting the blocks or pulleys," writes John Phillips, Hay Springs, Nebr., "place a swivel in the stationary end of the rope where it attaches to the pulley, as shown."



SAWS FOR IDEAS!

Send your original ideas to The Tank Truck, Dep't E, Continental Oil Company, Ponca City, Okla., and get a genuine \$10.25 D-15 Henry Disston Hand Saw for every idea that's printed!



CONOCO
YOUR CONOCO MAN

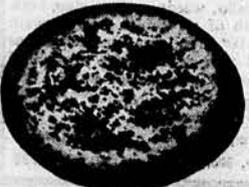
CONTINENTAL OIL COMPANY

"No More Worries With Conoco!"

"I farm 320 acres, doing my entire work with a Minneapolis Moline tractor," writes Charles Hlad, Roggen, Colorado. "This tractor has had no engine repairs in four years, except for a valve grinding job. At that time, I noticed that the valve stems and tops of cylinders were as clean as a pin . . . I found everything seemed as clean as the day I first purchased the unit. I feel now that . . . if Conoco Super Motor Oil can stand the gaff in a unit worked as hard and heavy as my tractor, it only stands to reason that my lighter-run units can go for 100,000 miles without worrying about them in any way!"



Cheese Cake!



... by Dorothy Peyton
Route 7, Decatur, Illinois

- | | |
|---------------------|-------------------------|
| CRUST | FILLING |
| 8 graham crackers | 4 packages cream cheese |
| 1/2 lb. butter | 1/2 cup sugar |
| 4 tablespoons sugar | 2 tablespoons cream |
| | 1 teaspoon vanilla |
| TOPPING | |
| 1 pint sour cream | |
| 1 tablespoon sugar | |
| 1 teaspoon vanilla | |

Make pie crust of graham crackers, butter, and sugar. Place in pie pan and set aside. Mix ingredients for filling, pour on top of graham cracker crust. Bake in 375° oven 20 minutes. Mix topping, spread on cake. Bake in 450° oven 5 minutes.

SHEARS FOR RECIPES!

Send your favorite recipes to Mrs. Annie Lee Wheeler, Dep't E, Conoco Cafeteria, Ponca City, Okla. A \$7.50 pair of Wise Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.