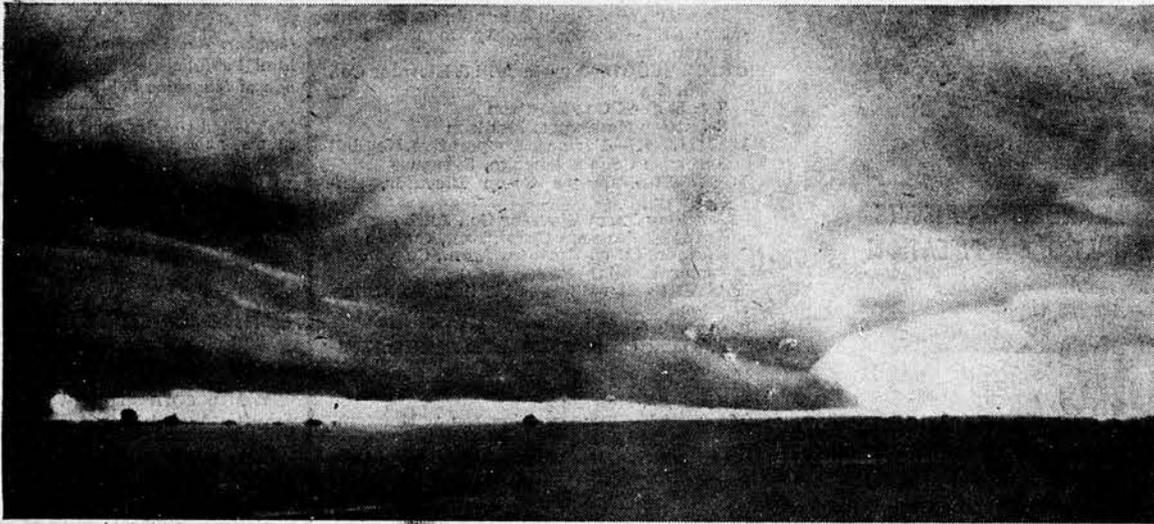


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Kansas Farmer



APPROACHING SHELF-TYPE (at left) squall cloud contains only straight-blowing wind, but looks wicked.



HERE IS ACTUAL (above) tornado funnel that has started its journey toward the ground. Some that start never finish the drop, but lift back into the cloud.

Are You Sure It's a Tornado?

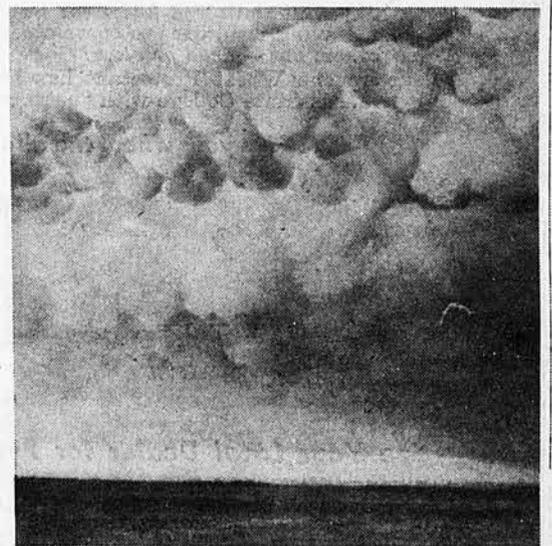
Weather Bureau studies new ways of forecasting, warning and reporting tornadoes

ALTHO KANSAS is located in the so-called "tornado belt" very few residents of the state ever actually have seen one of nature's most destructive storms. When they do occur they generally cover such a small area and last such a short time relatively few persons see them in action.

In recent years the Weather Bureau has been giving increasing attention to tornado warnings and the problem of forecasting and reporting tornadoes.

Research and observational programs [Continued on Page 8]

(All pictures courtesy U. S. Weather Bureau)



MAMMATU5 FORMATION (above) is a series of pouches downward from base of storm clouds, but do not have a spinning motion.

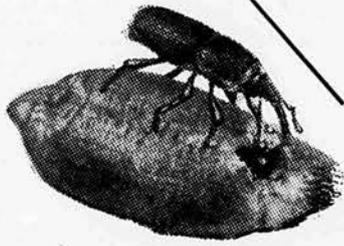


THIS TORNADO (at left) cloud is the real thing and the funnel already has made contact with the ground. Compare this with "false tornado" clouds in the story.

- Mound Valley Works for You Page 4
- Interesting Notes About Folks Page 16
- They Build a Hospital Page 20

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Wheat in the bin is like money in the bank



*It needs
Protection
all the time!*

**YOU CAN PROTECT WHEAT FROM WEEVILS AND OTHER INSECTS
FOR AN ENTIRE STORAGE SEASON WITH ONLY ONE APPLICATION**

of Pyrenone* WHEAT PROTECTANT

Many farmers consider their wheat in the bin like money in the bank. Yet you wouldn't think of putting your money in a bank that wasn't well protected against losses!

Sometimes stored wheat is left wide open to the thievery and destruction of weevils and other stored grain insects. Or some farmers "keep close watch" on their wheat, so that when the weevils appear they give it a few hours of treatment with fumigation (that is, if they have tight bins and can fumigate at all). If the wheat were weighed when it goes into storage and again when it is taken out, like money is counted at the bank, you'd know how big this loss is to you.

There's no need to suffer these losses any more!

Pyrenone Wheat Protectant gives you season-long protection for your stored wheat — with *only one application*. Only 75 pounds of Pyrenone Wheat Protectant protects 1,000 bushels of wheat — even in open bins. That's because Pyrenone Wheat Protectant does not evaporate — it stays right on the job all season.

Yet Pyrenone Wheat Protectant does not affect the flavor of the wheat if you feed it, does not affect the germination of the seed if you plant it, and does not "contaminate" the grain for food purposes.

And there are no dangers to your livestock or your farm employees who apply it because Pyrenone Wheat Protectant is non-toxic to people and animals — no special precautions are needed when you use it.

Your wheat can be protected from weevil and insect infestation for about 2½ cents per bushel for the entire storage season. So why risk the heating, weight loss and down-grading which insects can cause? Or why wait until you *know* the insects have arrived before you kill them, leaving dead ones to contaminate the grain? Use Pyrenone and keep them out — *dead or alive!*

Pyrenone Wheat Protectant has been thoroughly tested on farms by Kansas State College with "outstandingly favorable" results.

Give your wheat the all-the-time protection of



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Pyrenone*

*Reg. U. S. Pat. Off.

WHEAT PROTECTANT

See Your Local Dealer for Pyrenone Wheat Protectant

- COUNTY—Dealer, Town
- ALLEN—Humboldt Co-op Assn., Humboldt
- ANDERSON—Garnett Elevator Co., Garnett
- Spradlin Pharmacy, Garnett
- Greeley Cooperative, Greeley
- ATCHISON—Farmers Union Co-op Assn., Lancaster
- BARBER—O. K. Cooperative Grain & Merc. Co., Kiowa
- BARTON—The Clafin Grain Co., Inc., Clafin
- Milton A. Bosse, Ellinwood
- Wolf Milling Co., Ellinwood
- Ochs Farm Equipment Co., Hoisington
- Farmers Grain & Supply Co., Great Bend
- Farmers Grain & Fuel Co., Pawnee Rock
- BROWN—Brockhoff & Son Feed Store, Hiawatha
- Robinson Farmers Union Co-op Assn., Robinson
- BUTLER—Schneider Brothers Grain, Augusta
- Douglass Grain Co., Douglass
- The Home Grain Co., Inc., El Dorado
- W. W. Oil Co., El Dorado
- CHAUTAUQUA—Farmers Co-op Elevator, Cedarvale
- CHEROKEE—Farmers Co-op Assn., Columbus
- CHEYENNE—Bird City Cooperative, Bird City
- St. Francis Cooperative, St. Francis
- Hackney Farmers Union Co-op., Winfield
- CLARK—Ashland Coop., Ashland

- COUNTY—Dealer, Town
- CLAY—Farmers Co-op Shipping Assn., Clifton
- CLOUD—Cloud Co. Co-op Elev. Assn., Concordia
- Aurora Co-op Assn., Aurora
- COFFEY—Burlington Elevator Co., Burlington
- J. R. Baxter Prod. Feed, Waverly
- Star Grain & Lumber, Waverly
- COMANCHE—Protection Coop., Protection
- COWLEY—Bartlett & Hunt, Inc., Arkansas City
- Two Rivers Co-op Assn., Arkansas City
- Kellogg Farmers Co-op Assn., Kellogg
- The Udall Farmers Union Co-op Assn., Udall
- CRAWFORD—Frazier's Produce, Girard
- Walnut Co-op Elevator, Walnut
- DECATUR—Lohofener Grain Co., Oberlin
- DICKINSON—Farmers Union Co-op Assn., Carlton
- Weich Sales Company, Herington
- Farmers Union Co-op Business Assn., Solomon
- Farmers Union Coop., Talmage
- DOUGLAS—Barteldes Seed Co., Lawrence
- Derby Grain, Inc., Lawrence
- Raney Drug Store, Lawrence
- EDWARDS—Owstons Store, Offerle
- ELLIS—Golden Belt Co-op Assn., Ellis
- Farmers Co-op Assn., Hays
- Coop Elevator Co., Victoria
- ELLSWORTH—Holyrood Co-op Grain & Supply Co., Holyrood

- COUNTY—Dealer, Town
- FINNEY—Garden City Cooperative Equity Exchange, Garden City
- Garden City Cooperative, Pierceville
- FORD—Dodge City Cooperative, Dodge City
- Kingsdown Coop. Exchange, Kingsdown
- FRANKLIN—Ottawa Cooperative Assn., Ottawa
- Farmers Co-op Mercantile Society, Richmond
- GEARY—Junction City Co-op Assn., Junction City
- GOVE—Gove County Co-op Assn., Grainfield
- Co-op Union Merc. Co., Grinnell
- Quinter Co-op Assn., Quinter
- GRAHAM—Penokee Farmers Union Co-op Assn., Penokee
- GRANT—Ulysses Grain Cooperative, Ulysses
- GRAY—Garden City Cooperative, Charleston
- Cimarron Cooperative Equity Exchange, Cimarron
- Farmer Coop. Grain & Supply Co., Ensign
- GREELEY—Greeley County Coop Association, Tribune
- GREENWOOD—Eureka Mill & Elevator Co., Eureka
- S & E Feed Co., Madison
- Schottler Hardware, Madison
- HAMILTON—Farmers Cooperative, Kendall
- Syracuse Coop Exchange, Syracuse
- HARPER—Farmers Co-op Elevator, Anthony
- Anthony Farm Elevator Co., Anthony
- Anthony Farmers Coop Assn., Corwin
- Farmers Co-op Business Assn., Corwin
- Imperial Mills, Harper
- HARVEY—Hensley Feed & Seed Co., Burrton
- Buller's Feed Mills, Halstead
- Farmers Coop. Grain & Mercantile, Halstead
- Newton Mill & Elevator, Newton
- Sanner's, Newton
- HASKELL—Farmers Elevator & Merchandise Co., Satanta
- Cooperative Grain Dealers Union, Sublette
- JACKSON—Della Grain Co., Della
- Belster Feed & Seed Co., Soldier
- JEFFERSON—Meriden Co-op Elevator, Meriden
- JEWELL—Mankato Hatchery, Mankato
- JOHNSON—Gardner Grain Co., Gardner
- Lenexa Grain & Elevator, Lenexa
- KEARNY—Farmers Cooperative, Lakin
- KINGMAN—McKenna Grain Co., Kingman
- Morton Feed Store, Kingman
- KIOWA—Farmers Grain & Supply Co., Greensburg
- Kiowa County Farm Bureau, Greensburg
- The Equity Exchange, Mullinville
- LABETTE—Farmers Co-op Elevator, Altamont
- Bartlett Co-op Assn., Bartlett
- Karnes Grain Products, Oswego
- Oswego Co-op Assn., Oswego
- Farmers Co-op Elevator Assn., Parsons
- LINCOLN—Farmers Co-op Grain Co., Denmark
- Farmers Elevator, Lincoln
- LINN—Walt Grain Co., Centerville
- Farmers Exchange, Prescott
- LOGAN—Standard Milling Co., Oakley
- MARION—Farmers Co-op Equity Union, Hillsboro
- MARSHALL—Farmers Co-op Grain Co., Blue Rapids
- Herkimer Co-op Business Assn., Herkimer
- O. W. Dan Hatchery, Marysville
- McPHERSON—Canton Elevator Co., Canton
- Chase Grain Co., Inman
- Farmers Union Elevator Co., Lindsborg
- The Coop. Farmers Union Elev. Co., Marquette
- Community Feed & Seed, McPherson
- Farmers Coop., McPherson
- Graves Drug, McPherson
- Wall Rozalsky Milling Co., McPherson
- Moundridge Coop., Moundridge
- Orths Drug Co., Moundridge
- Little River Co-op Assn., Little River
- MEADE—Fowler Equity Exchange, Fowler
- Holmes Motor Co., Plains
- The Plains Equity Exchange & Cooperative Union, Plains
- MIAMI—Farmers Coop., Osawatomie
- Washburn Hatchery, Paola
- Miami Co. Co-op Assn., Paola
- MITCHELL—Jones Feed & Seed Co., Beloit
- Farmers Coop. Elevator, Glen Elder
- The Johnson-Thierolf Merc. Co., Solomon Rapids
- Raney Drug Store, Beloit
- Raney Drug Store, Tipton
- MONTGOMERY—Cherryvale Grain Co., Cherryvale
- Reed & Widlick Feed & Implement Co., Elk City
- MORRIS—J. L. Launderers Milling Co., Council Grove
- NEMAHA—James Graff, Corning
- NESS—Skaggs Grain Co., Brownell
- NORTON—Raney Drug Store, Norton
- OSBORNE—Voss Grain & Seed Co., Downs
- Raney Drug Store, Osborne
- OTTAWA—C. L. Cain Grain Co., Delphos
- Farmers Elevator Co., Minneapolis
- OSAGE—Overbrook Farmers Union Co-op, Overbrook
- PAWNEE—Farmers Grain & Supply Co., Burdette
- Pawnee County Cooperative, Larned
- Sanford Coop. Grain & Supply Co., Sanford
- POTTAWATOMIE—Farmers Union Coop., St. Mary's
- PRATT—Helmk & Son, Pratt
- RAWLINS—Beardsley Equity Co-op Assn., Beardsley
- RENO—The Co-op Exchange, Arlington
- Midwest Feed Co., Inc., Hutchinson
- Reno Consumers Coop. Assn., Hutchinson
- Moorman Feed & Seed Co., Inc., Nickerson
- Weeks Seed Co., Sylvia
- Harrell Supply Co., Hutchinson
- Farmers Coop Elevator Co., Nickerson
- Nickerson Co-op Elevator, Nickerson
- REPUBLIC—Sis Seed & Fertilizer Co., Belleville

KANSAS FARMER

Continuing Mail & Breeze

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White Corn May Bring Top Prices

White corn crop of 1953 may command a premium price of 15 to 35 cents a bushel. That's the prediction of Leonard W. Schruben, Kansas State College economist, and *Kansas Farmer* marketing writer.

He says if a near-normal season occurs, white corn will bring a premium over yellow corn during 1953-54 season. "But price is quite sensitive to small changes in relative supply." The food processing industry uses a considerable amount of white corn. Much of Kansas' white corn crop in last several years has gone to California tannin producers.

Save a Life!

A good homemade first-aid kit can save a life! W. E. Stuckey, Ohio State University Extension safety specialist, says kits need not be expensive. They should be located in convenient places in home, around farmstead or on equipment. A tight box, such as a cash box, fishing-tackle box or even a tightly-covered tin can will serve as a suitable container. A metal box is best, must be clean and well-labeled.

The National Safety Council recommends these materials for a kit: Sterile cotton, rolls of adhesive tape of varying widths, cloth that sticks, sterile cloth for large bandages and tourniquets, tube of sterile white vaseline for minor burns, scissors, boric acid, compound tincture of benzoin for antiseptic, and spirits of ammonia.

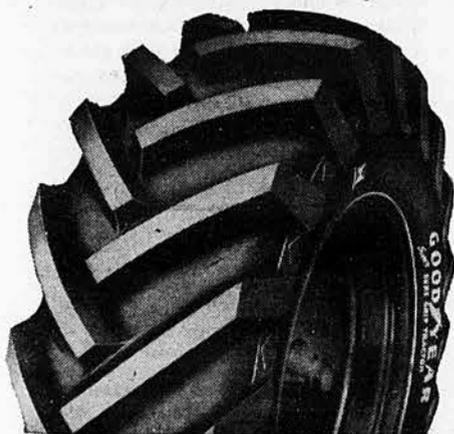
- COUNTY—Dealer, Town
- RICE—Farmers Co-op Grain Mill & Merc. Co., Alden
- Chase Co-op Union, Chase
- Central Kansas Elevator, Lyons
- RILEY—Riley Co-op Assn., Leonardville
- RUSH—The Farmers Cooperative Co., Rush Center
- SALINA—Salina Feed Co., Salina
- Shellaburger Feed Mills, Inc., Salina
- SEDGWICK—Andale Farm Coop., Andale
- Valley Center Farmers Elevator, Valley Center
- Tyler Co-op Co., Wichita
- Farmers Coop Elevator Co., Garden Plain
- Farmers Co-op Elevator Co., Mount Hope
- SHERIDAN—Hoxie Co-op Oil Co., Hoxie
- SHERMAN—Goodland Co-op Equity Exchange, Goodland
- Terminal Grain Co., Goodland
- Finnegan Grain Co., Edson
- SMITH—Smith Center Mill & Elevator Co., Smith Center
- STAFFORD—Soden Implement Co., St. John
- Zenith Co-op Grain Co., Zenith
- SUMNER—Argonia Drug Co., Argonia
- H. H. Hunter Grain Co., Corbin
- Mayfield Elevator, Mayfield
- Farmers Co-op Grain Co., Caldwell
- THOMAS—Coffey Grain Co., Brewster
- The Hi-Plains Co-op Assn., Colby
- Farmers Co-op Assn., Brewster
- Colby Grain Co., Colby
- Raney Drug Store, Colby
- Hart-Barlett-Sturdevant Grain Co., Levant
- TREGO—Collyer Co-op Assn., Collyer
- WALLACE—Stover Grain Co., Sharon
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**TOUGH JOBS
PROVE IT!**

**These ruler-straight lugs
OUTPULL all others!**



Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio



GOODYEAR'S field-proved SUPER-SURE-GRIPS get their husky, ruler-straight lugs deep down in the soil—and just heave you out of trouble!

They've got the extra P-U-L-L that walks away with the tough jobs on any man's farm—and that's why farmers overwhelmingly prefer SUPER-SURE-GRIPS to any other tractor tire!

Yes—in survey after survey, these top-ranking Goodyears have polled more votes than the next two makes put together. So why not let the easy winner ease your work, too?

Goodyears do more, but don't cost more—so see your dealer next time you're in town! Goodyear, Farm Tire Department, Akron 16, Ohio.

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1. RULER-STRAIGHT LUGS come closer together at shoulders—and so take wedge-like bites that hold soil in place—to give Goodyear tires greater grip.



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3. LONG EVEN WEAR—because Goodyear straight lugs work against the soil evenly, they wear evenly, roll smoothly on the road, last longer.

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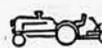
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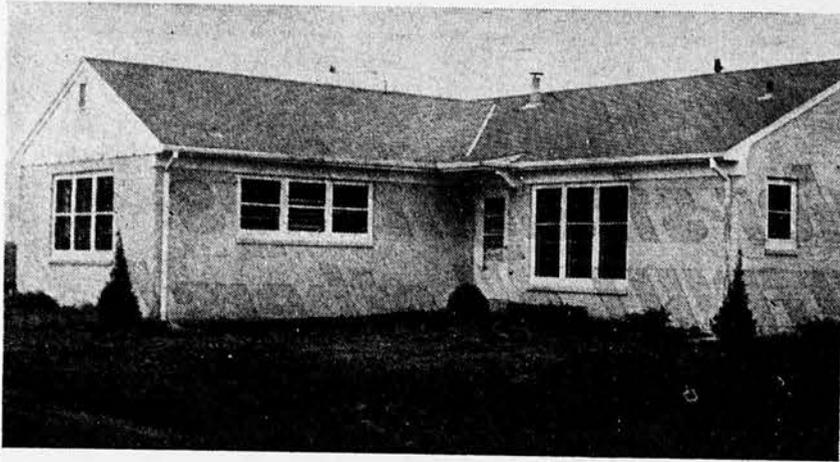
Super-Sure-Grip Tractor Tires



**America's Strength
is in the Land—
Cooperate with your
Soil Conservation
Program.**

THERE'S A SPECIALLY DESIGNED GOODYEAR TIRE FOR EACH VEHICLE ON THE FARM





STATION OFFICES and 2 laboratories are housed in this new building on the Mound Valley Station. Other buildings on the grounds include a new machinery shed and a remodeled and enlarged dairy barn.



THESE NEW cottages house the herdsman and farm foreman on the Mound Valley Experiment Station, in Labette county. The station was started in July, 1949. Results of tests will aid thousands of farmers.

Mound Valley Station Works for You

... farm scientists run many tests to find the answers to your crops, pasture and dairy problems

By Dick Mann

A FORMER airfield in Labette county is being used to help research men find answers to crop and dairy problems in Southeast Kansas. The old airfield now is part of the 282-acre Mound Valley Experiment Station, which started operations in July, 1949.

Many changes have taken place on the station since then, reports Floyd Davidson, superintendent. The original farmhouse on the land has been completely remodeled and now serves as the Davidson home. A new 40- by 100-foot building has been completed and is being used for machinery, grain and hay storage. A shop area in the building will be developed later.

Two new cottages have been built, one for the dairy herdsman and one for the farm foreman. Also just completed is a combination office and laboratory building. It contains a reception room, 2 offices and 2 laboratories—one for dairy and chemistry, and one for soils and crops. The soils and crops laboratory is not equipped as yet.

The original barn on the farm has been greatly enlarged and remodeled for year-

around housing of all dairy cows used in experimental work. The reason for housing the cattle, says Mr. Davidson, is that work being done is on nutritional studies and all feeding has to be under controlled conditions.

In addition to administering the work of the station, Mr. Davidson also has charge of the soils project work. Lloyd C. Jones, agronomist, is in charge of crops research.

All crops adapted to the area, such as wheat, corn, soybeans, oats, sorghums and barley, are being variety tested on the station. Species of grasses and legumes are being tested for adaptation to see whether some new species might be better adapted to the area than those now grown.

"So far," says Mr. Jones, "we haven't found anything that looks very promising." Mr. Davidson adds that in the United States, experimental work on grasses and legumes is 50 years behind that on crops. "We hope to close some of the gap," he says.

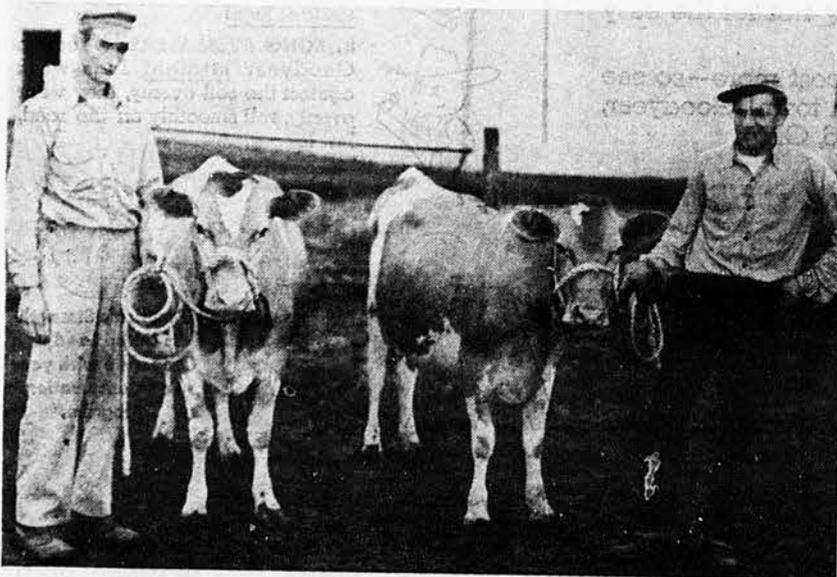
Cool season tame grasses in legume mixtures are being tested to see what mixtures will grow

well together, but the 1952 drouth handicapped this work. Brome grass and tall fescue probably are best adapted cool season perennial grasses for the area. In recent years there has been some selection and breeding work on these and the station now is testing varieties of brome fescue and orchard grass. Variety testing of grasses is a big step forward, the station personnel believes.

Pasture grazing trials probably will get started this fall or next spring as the station works toward complete grass management studies. Lack of space on the station will limit the amount of grazing work that can be done. Mr. Davidson points out.

Mr. Jones has been doing some special work trying to find native warm-season grasses to team up with legumes. Big and little bluestem, switch grass and Indian grass have been tried, but not too successfully.

There is considerable local interest, Mr. Jones reports, in 2 newly introduced bluestems—Caucasian and Turkestan—and weeping lovegrass; the latter for [Continued on Page 28]



IDENTICAL TWIN calves like these are being raised for experimental nutritional studies, and are said to give results equal to those on 50 unrelated animals. Holding are Jack Irwin, left, acting herdsman, and Dick Seeley, assistant herdsman. Results of nutritional studies mean dairy-men can produce better animals, often more economically.



SOIL FERTILITY plots at Mound Valley Station show wheat is greatly retarded when fertilizers are not applied. Here it is lush where it had 2 tons of lime an acre, 8 tons of manure once in 3 years, plus 50 pounds of P205 and 25 pounds of K20. Floyd Davidson, left, superintendent, and Lloyd C. Jones, station agronomist.

Kansas Farmer

News and Comment

Quality Egg Progress

BRINGING YOU up-to-date on the quality egg marketing program, sponsored by the Kansas State Board of Agriculture, we quote Roy Freeland, secretary of the board:

We are pleased with the progress of our egg marketing work. At present, more than 20 retail grocers are providing their customers with officially graded eggs bearing the seal of the State Board of Agriculture. In addition, eggs graded under this program are being delivered regularly on several city milk routes, and they are used by quite a number of restaurants. Five wholesale produce houses in Kansas and 2 large commercial poultrymen packing for retail firms are packaging graded eggs according to state standards, and bearing the official seal of this department. Total volume of eggs graded under supervision is 5,000 to 6,000 dozens a week.

Several processors and wholesalers who operate on an extensive scale are studying the plan of packing eggs under the official grading plan, for distribution to retail stores over the state. We expect this program to expand steadily thru this season and in the years to come. The progress can come only as rapidly as consumers gain confidence in grades as an accurate measure of egg quality. . . .

We feel one of the first steps in righting the Kansas egg problem, Mr. Freeland said, is to make the consuming public aware of quality to the extent they are willing to pay for high quality, and at the same time make it possible for them to purchase eggs of a definite, known, guaranteed quality. It is our feeling this should gradually provide an increasing demand and comparatively higher prices for the efforts of our quality egg producers. Surely, net results should bolster the position of the entire Kansas poultry and egg industry.

This highly commendable work by the State Board of Agriculture certainly is aimed in the right direction, is being efficiently handled as indicated by results reported here, encourages other quality-marketing efforts. We predict further success for marketing graded eggs. It is apparent the consuming public is willing to pay well for guaranteed quality.

Picking Herd Sires

ALWAYS SOMETHING new in agriculture. Now a new test has been developed by the U. S. Department of Agriculture which shows degree of fatness of live animals—cattle, sheep and hogs. It will be of most use to purebred breeders who are selecting their best young animals to keep for breeding stock. Feeders who are finishing fat steers or fat hogs for market will have little use for it.

The test must be made with special equip-

ment, by someone who has the technical skill necessary. It uses a drug called antipyrine. Your family doctor would call it an antipyretic, something once used by the medical profession to reduce fever.

Just to show the test is a bit complicated, here is how it works: A measured dose of the drug is injected into the blood stream of an animal, dissolves immediately, then begins to be eliminated. After 2½ hours (with cattle) blood samples are taken every hour for 4 hours, and the rate of elimination of the drug from the blood is recorded. The fatter the animal, the greater is the concentration of the drug in blood samples.

USDA scientists say hogs and sheep, because they are smaller than cattle, can be tested much quicker. Blood samples are taken from hogs one hour after the drug has been injected, and at intervals of 30 minutes thereafter instead of every hour as with cattle. Tests are now clear enough, it is reported, to open the field for breeding tests to prove high or low fat-producing characteristics.

By applying the test to a few of the best bull calves, a cattleman may be in better position to select a herd sire that has the ability to transmit early market finish to his calves. This would eliminate waiting to judge by the first crop of calves from each prospective sire.

The hog breeder may be able to select boars and gilts which have small amounts of fat and have the ability to make rapid growth with minimum feed requirements.

Always something new bobbing up in the agricultural world. This starts one wondering what the future will bring by way of marketing farm products. Not by weight but by quality and food value.

Our Wheat Fleet

THIS MAY ADD to your idea of the shortage of storage space for wheat. Uncle Sam has arranged to use 50 ships in our reserve fleet in the James river, Norfolk, Va., for storage of wheat owned by the Commodity Credit Corporation. It is expected these ships will start loading the last half of June, be filled about August 1. Each ship will be loaded with about 225,000 bushels of wheat. Seventy-five ships at Jones Point, N. Y., will be loaded by early August.

Makes a Kansan wonder whether this wheat will soak up dampness. We have been asked whether wheat piled on the ground out here would spoil, so turnabout in asking questions is our due. To ward off dampness and heating trouble in the shiploads of wheat, the Government is buying 300 grain-ventilating units and 700 perforated extension tubes, enough to equip 50 ships in the James river fleet.

It recalls the fact Kansas farmers who have enough storage space for their wheat right on the farms seems to have less worry at harvest-time, and can market their grain as they please during the year. Many a man will tell you farm storage pays for itself.

Why Irrigate?

WHEN RAIN is needed we are likely to think more about irrigation. You will find it being done in many sections of Kansas. Just how important is irrigation in the United States? Department of Agriculture points out about one eighth of all crop production in the U. S. depends entirely or in part on irrigation. This doesn't necessarily mean total crop output would drop an eighth without irrigation, because dry-land farming could produce something. But irrigation is a great crop booster. Here is the point not to be overlooked. This



"It pays to be careful when you set out to make somebody toe the mark—you may turn out to be the mark."

"A red light is about the only thing these days that slows down the pursuit of happiness."

"A wise husband is a man who never forgets his wife's birthday—only which one it is!"

"Feminine for the word bachelor: lady-in-waiting."

"Have you noticed that 'in giving until it hurts' some folks are extremely sensitive to pain?"

"Folks who take a train to Washington, D. C., to agitate for their cause are folks who believe in doing their kicking at the seat of government!"

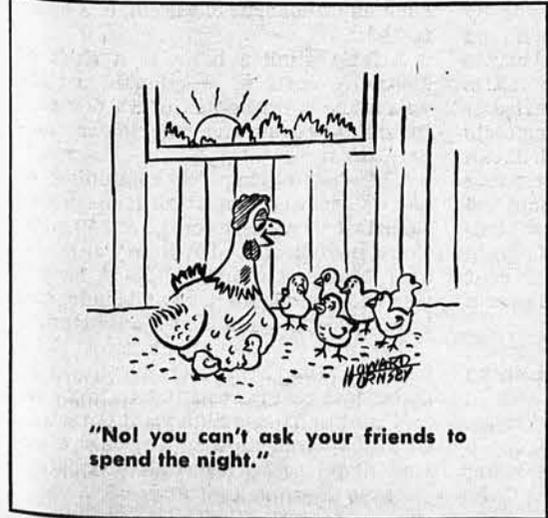
"A truthful wife is one who lies about only three things—her age, weight and husband's income."

one eighth of our crop output comes from about one sixteenth of the Nation's total harvested cropland. "Thus, roughly, one acre of irrigated land is worth 2 acres of non-irrigated land." In some areas the contrast is more striking. In the 17 Western states, 12 per cent of the harvested cropland is irrigated, and these irrigated acres produce about 35 per cent of the total crops of the West. That means one irrigated acre in that area is about equal to 3 acres of dry-farmed cropland.

Irrigation should get its share of credit for boosting crop yields one third during the war years. Undoubtedly it will play an ever-increasing role in farming. Figures show irrigation is being applied to more land at a rapid rate, farmers are doing a better job of irrigating. All crops can benefit, even wheat. About 2 per cent of the winter wheat crop in the Western states is irrigated. More might be. And under irrigation a wider variety of crops can be grown, including rotations that would be good for the land and future crop yields.

What Plants Like

PLANTS DIFFER in eating habits just as human beings do. Which helps explain why some crops grow better than others on certain pieces of land. Deficiencies in nutrients needed by certain plants must be met, according to America Chemical Society. Grower must consider habits and "tastes" of crops he wants to grow, as well as types and amounts of nutrients required. See your county agent for information on soil tests and fertilizer applications.



"No! you can't ask your friends to spend the night."



"I won't be here tomorrow. Think you can handle it?"

OPEN UP YOUR SUBSOIL RESERVOIR



Now you can break through the hardpan. Store surface moisture in the subsoil for crop use during drouths. Reduce erosion by checking run-off. Drain low areas by chiseling through mud-plugged soil . . . for quick drying and early planting. The tool for all these jobs is the new low-priced, tractor-mounted Allis-Chalmers subsoiler for models CA or WD Tractors.

The WD unit penetrates down to 18 inches, the CA to 14 inches. Both subsoilers are Free Swing to work above terraces and follow contours. Both have long steel points built to withstand rocks and roots, shaped for fast penetration.

Subsoilers work with the hydraulic Traction Booster (exclusive on CA and WD Tractors) to increase weight on rear wheels when the going is tough; keeps you moving. Lifts hydraulically — point swings up for transport. Ask your Allis-Chalmers dealer for a demonstration or write for literature.

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Dwight Hull SAYS . . .

Good Can Come From Present Situation

DAIRYMEN and the dairy industry seem somewhat in a state of uncertainty and confusion at present due to the unusually large volume of milk. Processors are hard pressed to take care of such a large quantity of milk, and dairymen are required to take less and less for their production.

One possible good could come from this situation. Dairymen and processors could get together and work out a program to give the general public a better understanding that nowhere else can they purchase either a beverage or a food so refreshing and so high in nutrient value as economically as they can in dairy products.

In such a program we feel dairymen should consider this: First, milk and cream offered for sale should all be of unquestionable quality. No small part of dairymen's problems today are because consumers were asked to purchase a poor quality product.

Requirements for producing quality milk and cream should be simple. We do not believe it is essential to include a long list of regulations, such as number of windows in a dairy barn, exact number of inches of cement walk behind cows, a cupboard which extends to the ceiling. There are 3 or 4 essentials in producing quality milk:

1. Healthy animals.
2. Clean, sterile utensils.

3. Milk must be drawn so no dirt or contamination gets into it. You have lost quality if you have to strain dirt out of milk.

4. Milk or cream should be cooled immediately to around 50 degrees temperature or lower.

Another point I think we should have in a program is an adequately-financed research study of milk and milk products. We are convinced they have no adequate substitutes. Yet do we have sufficient evidence resulting from scientific experimentation to prove this to the general public? There are many ways in which work of the scientist could bring to the attention of the gen-

eral public the value of dairy products from the standpoint of good health and nutrition.

A third point in a general dairy program is a comprehensive advertising program, modern enough to sell dairy products, so we would no longer depend upon a "here it is, come and get it" method of selling our products.

There are so many examples of the value of advertising, it seems almost incredible anyone should doubt the advisability of an adequate advertising program. Many businessmen claim advertising does not cost them anything. In other words, money spent is returned many fold by increased sales.

It is entirely probable that if the dairy industry had an adequate sales program today, there would be no surplus of milk. Losses dairymen have taken on the price of milk for one month would provide sufficient funds for an advertising program second to none.

The National Chamber of Commerce says 5 per cent of sales would be considered an average amount most businesses spend for advertising. Dairymen are now asked to set aside 2 cents for each hundred pounds of milk or ½ cent per pound of butterfat. This would amount to about ½ of 1 per cent of what the dairymen receive for their products.

In our competitive world, a dairyman cannot fight his battle alone. It requires the united effort of all. To initiate a constructive program, each individual dairyman must do his part, as it can become a reality when and if the dairyman sees the need and actively gives his support. Several meetings are being held in Kansas at present at which everyone will have an opportunity to support such a program and contribute any ideas they may have in working out the details. If you should miss this opportunity, however, why not write the *Kansas Farmer* and let the editor know your willingness to co-operate in such a program.

Tests Show How "Tough" Wheat Is!

Grain sorghum boost, sweet clover trials, grass tests, chemical alfalfa curing, new varieties make Agronomy Field Day important

A WIDE RANGE of crop experiments was covered by visitors to Agronomy Field Day, June 2, at the Kansas Experiment Station, Manhattan.

Here are some highlights of the event:

Wheat plants are being purposely injured at various stages of growth to study recovery ability. This is being done to provide a better basis for adjustment of hail losses. Injury applied to plants includes clipping at different heights, bruising or bending stems, removing leaves and injuring heads by striking them with sticks. Damaged plants are compared with normal plants at harvest time to determine losses caused by various types of injuries.

In dwarf grain sorghum seeding tests it has been found that a wheat drill can replace the row planter. By decreasing distance between rows to about 20 inches the number of weed control cultivations can be reduced. Yields from 20-inch rows have been 25 per cent greater than from 40-inch rows over a 9-year period.

Thirty selections of sweet clover are now being grown on soil known to be infected with sweet clover diseases in hopes of finding resistant selections. Twenty-eight varieties comprising 5 species of sweet clover also are being tested.

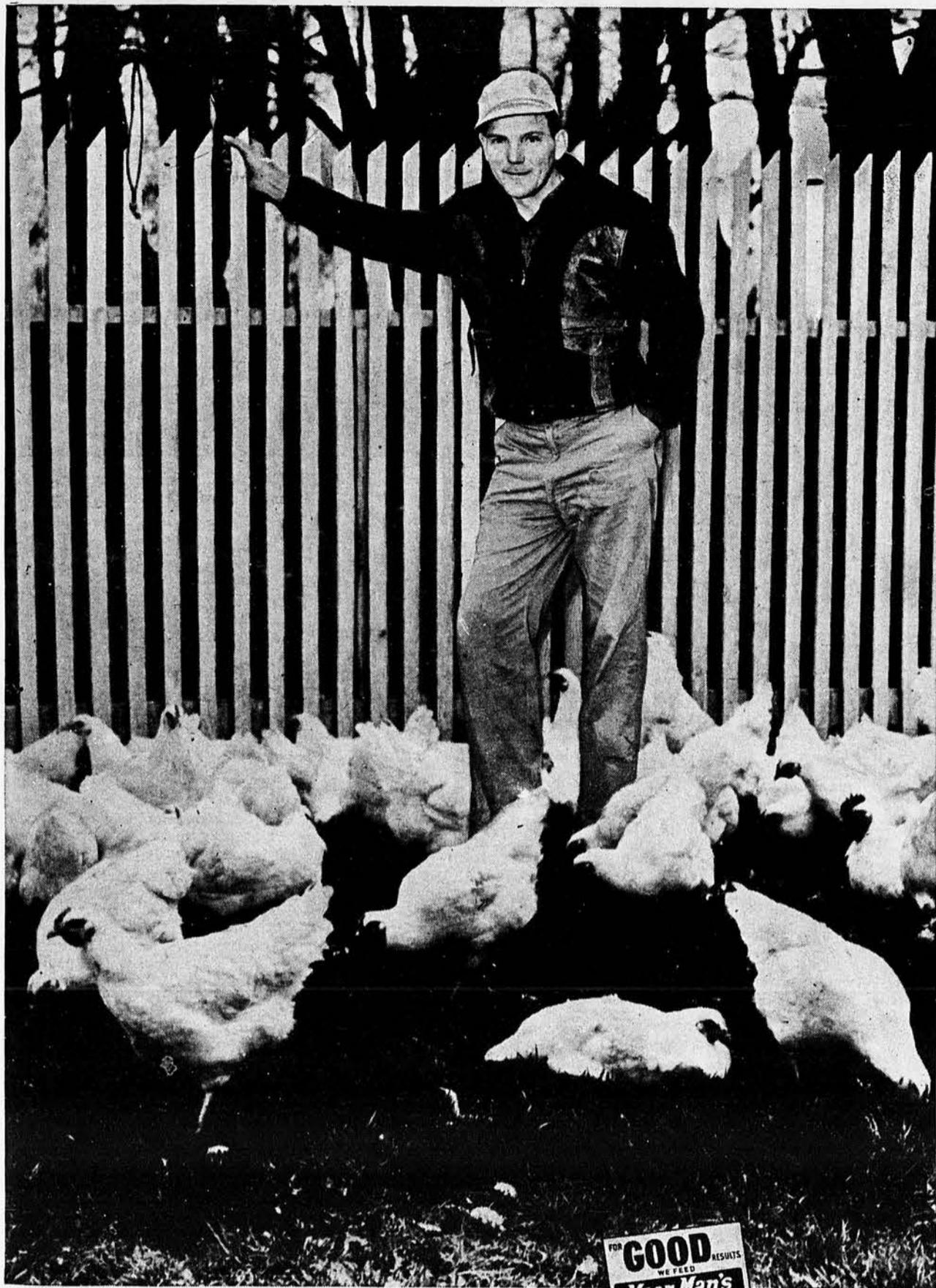
Tall wheat grass and reed canary grass, both adapted to special purpose plantings, have given highest forage yields in tests of cool season pasture grasses. Smooth brome, intermediate wheat grass, tall fescue, and orchard grass are about equal to the first 2. Highest-yielding native grasses for Eastern Kansas are the bluestems, switch grass and Indian grass. Farther west sand lovegrass, western wheat grass, the grammas, and buffalo grass become important. Some new species, such as Caucasian bluestem, are being tested.

Alfalfa studies indicate a shift of 150 miles north of an adapted variety will make a difference of 15 per cent in ability to survive our lower temperatures.

Chemical curing for combining of alfalfa seed paid off at all Kansas stations last year. An average of 149 additional pounds of seed an acre was saved at 7 branch stations. Highest saving was 546 pounds an acre at Meade, and lowest was 40 pounds at Manhattan.

Two new wheats not yet named show promise. CI 12517 was developed in Oklahoma and is resistant to leaf rust and bunt and has a high yield potential. CI 12804 is resistant to leaf rust, stem rust and Hessian fly and moderately

(Continued on Page 14)



M.L. (Sunny) Johnson is a topnotch Hoosier farmer. He owns 200 acres, farms a total of 320, raises hogs from 32 sows, and each year feeds out a carload of Western cattle. What's his favorite farm job? Raising pullets, and selling hatching eggs. His pullets are his pets, and what a dandy—and profitable—job he does with them.

TOTAL FEED COST TO HOUSE PULLETS IS ONLY 99½¢ EACH WITH MOORMAN'S

"We know from 10 years of experience that a growing ration of MoorMan's Mintrate* and corn for pullets on summer range not only costs us less than other feeds, but gives us well-developed birds that lay heavy in early fall—" Says M. L. Johnson, White Co., Ind.

"We produce hatching eggs and are on the hatchery's schedule for eggs in August. Last year our pullets started laying at about 5½ months old. A month later we sold our first hatching eggs. And at 7½ months these pullets were laying at a 70% rate.

"We cut down on our feed costs because we buy straight-run White Rock chicks. This year we got 840. We started them on corn and MoorMan's CoxiCurb* Chick Mintrate, and didn't lose one from coccidiosis.

"At 10 weeks 830 were left—430 cockerels and 400 pullets. The pullets averaged 3¼ lbs.—the cockerels 3¼.

"Our feed costs were: Corn, \$166.23; grinding, \$6.10, and Mintrate, \$278.60. This amounts to \$450.93, or 54 cents a bird. Other costs, including original cost of the chicks, litter, oil and electricity, were \$211.35, or 25½ cents a bird. This makes a total investment of \$662.28, or almost 80 cents in each chick.

"We sold the cockerels for \$483.75— or \$1.12½ each, reducing the total investment in the 400 pullets to \$178.53 or 44½ cents each.

"They'll range on fescue this summer. We'll also keep a grower made with MoorMan's CoxiCurb Chick Mintrate—and later MoorMan's Poultry Mintrate 40—before them. If they do as well as our pullets did last year, additional feed costs from now until they're housed will be 55 cents—a total cost of only 99½ cents for each pullet housed."

Chick and Poultry Mintrates are true concentrates—highly concentrated blends of proteins, minerals, vitamins and antibiotics developed especially for poultry. Ask your MoorMan Man to show you how a tiny spoonful of either builds three to four times as much corn into a high-energy, power-packed growing ration. See how it develops chicks on range into thrifty, well-developed birds usually in high production in 7 months. If no MoorMan Man calls, write Moorman Mfg. Co., Dept. J3-6, Quincy, Illinois.

MoorMan's*
(Since 1885)

*Trade Mark Reg. U. S. Pat. Off.

MAKERS OF PROTEIN AND MINERAL CONCENTRATES FARMERS NEED, BUT CANNOT RAISE OR PROCESS ON THE FARM

THEY, TOO, MADE MORE PROFIT—WITH MOORMAN'S



Robert Klitz, Winnebago County, Ill., says: "MoorMan's Cow Mintrate seems to help our cows 'breakdown' more of our own grain and forage so they get more good from it. And how MoorMan's increases profits! Our DHIA records show that, figuring butterfat at \$1.20, our 20 cows made \$1,370 more profit the first year we fed Mintrate."



Charles D. Wilhelm, Marshall County, Ind., says: "Our corn goes a lot farther when we balance it with MoorMan's Pig and Hog Mintrates. We raise pork at less cost, too: When corn was \$1.65 a bu., our total feed costs for 165 hogs was only \$10.85 a 100 lbs. And, MoorMan-fed hogs usually get us a premium price."

No Summer Worries!



When you change over to
**Champlin
HEAVY DUTY
MOTOR OIL!**

IT'S ON GUARD AGAINST HIGH TEMPERATURE WEAR IN YOUR ENGINE!

Enjoy your driving this summer... forget about what scorching temperatures might do to your engine! Change to Heavy-Duty HI-V-I motor oil and your worries are over! The sustained stability of this premium oil guarantees dependable protection, as engines heat up and the temperatures climb! HI-V-I cools as it lubricates... and it refuses to oxidize or thin out, no matter how hot engines get! Put your mind at rest... and your engine in safe care, by putting improved Heavy-Duty HI-V-I motor oil on guard against high temperature wear!



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Are You Sure It's a Tornado?

(Continued from Page 1)



RAIN WISPS that extend in a V-shape from a cloud formation in the distance may appear like a tornado funnel. This formation is known as Virga and is very common in Kansas.

have been set up to find out under just what situations tornadoes are most likely to develop. One of these is a network of special observing stations in Kansas and bordering states to collect detailed information on the behavior of various weather elements during passage of severe line squall thunderstorms, with which tornadoes are usually associated. Results have been significant and the studies will be expanded this year, unless they have to be abandoned because of the economy drive to balance the budget.

Keep an Eye on Storms

Storm detection radar is now in operation at Wichita, Goodland and Dodge City and shortly will be installed at Topeka. Neighboring states will have 8 additional installations. Unusual developments can be detected and tracked up to a distance of 100 miles or more with this equipment.

Already this year you no doubt have heard radio tornado "alerts," which are released by the Weather Bureau whenever conditions appear favorable for development of tornadoes and associated severe storms.

Such storm situations can be recognized by weathermen from analysis of weather maps and application of results of recent research programs. Weathermen can determine that tornadoes may likely occur in any area of 12 to 15 average-size counties. Storms cannot be pin-pointed as to just what part of such an area might be struck.

There are 2 schools of thought among laymen as to whether the Bureau's tornado alerts are a good thing. In the first place, Bureau experts cannot predict that a tornado actually will occur. They can only report that conditions are right in a certain 12- to 15-county area.

Since, in most cases, no tornadoes do occur after such warnings, some folks feel they have been alarmed unnecessarily. Persons who are easily alarmed may even become panic-stricken, opponents to the idea claim.

On the other hand, many persons feel the warning is a valuable service and that in time everyone will learn to take it for just what it is—an alert to be on guard. By knowing in advance that a tornado may occur, and by being trained to know what to do if it does occur, many lives could be saved in a single bad storm.

Community Warning System

Still another tornado service has been added this year in some areas. This is the Community Warning System. Topeka now has one of these warning systems for an area including Shawnee, Osage, Wabaunsee, Pottawatomie and Jackson counties.

Under the Community Warning System plan anyone in any of the counties named is an authorized tornado reporter. If you lived in one of these counties and saw a tornado you could go to the nearest phone and call the Topeka Weather Bureau collect. You would tell them your name and where you were calling from. Then you would give them the direction and distance of tornado when you saw it. You would state whether the funnel cloud is visible and whether it touches the ground, and give the apparent direction and speed of the tornado.

The Weather Bureau would relay this information to all Topeka radio stations for immediate broadcast. They have agreed to interrupt any program in progress to make the announcement. As additional information becomes available on progress of the storm,

(Continued on Page 9)



A RAIN SHOWER falling from a towering thunderhead has appearance of a dark, solid column from cloud base to ground. From same distance tornado would appear narrower and have more distinct outlines.

would be given radio stations for broadcast. An "all clear" would be released and broadcast when danger is over.

Along with its increased warning service on tornados, the Weather Bureau is conducting a 2-pronged educational campaign. One is on Tornado Safety Rules. The part of these rules which affect rural folks is:

1. There is no universal protection against tornados except caves or underground excavations. When time permits, go to a tornado cellar, cave, or underground excavation which should have an air outlet to help equalize air pressure. It should be kept fit for use, free from water, gas or debris, and preferably equipped with pick and shovel.
2. If you are in open country, move at right angles to tornado's path. Tornados usually move ahead at about 5 to 40 miles an hour. If there is no time to escape, lie flat in the nearest depression such as a ditch or ravine.
3. In homes, the southwest corner of the lowest floor or basement offers greatest safety. Persons living in brick or stone houses should seek other shelter. If time permits, electricity and fuel lines should be shut off. Windows on the north and east sides of the house may be opened to help reduce damage to building.
4. If in school that is of good steel reinforced construction, stay inside, away from windows, remain near an inside wall, avoid auditoriums and gymnasiums.

Clouds Can Fool Us

The other prong of the educational program is to teach everyone how to recognize various cloud formations. Many formations may look like tornado clouds but actually are not. *Kansas Farmer* is running several cloud formation pictures with this issue to help you determine tornados from other cloud forms. These pictures first appeared in "It Looks Like a Tornado," issued by the Weather Bureau.

But just because you are hearing and reading a lot these days about tornados, don't become alarmed. Records show Kansas, which is listed as having more tornados than any other state, only averages 12 days a year in which tornados occur. The national average is 153 tornados a year. Kansas has 20 a year.

Facts About Tornados

Here are some interesting facts about tornados: They can occur anytime of day but occur mostly between 3 and 7 p. m. Average width of path is 300 to 400 yards, but they have cut swaths over a mile wide. They usually travel 25 to 40 miles an hour, but have varied from 5 to 139 miles an hour. Wind speed inside the funnel has been estimated as high as 500 miles an hour. Tornados cause 2 types of destruction. One is from the violent winds and the other from differences in air pressure which can lift cars and cause buildings to collapse.

Tornados have a definite season in each area. For Kansas there is a sharp seasonal increase in April with the peak reached in May. A high level remains during June, then falls off to below the April level in July and August and recedes to a minimum in December.

S. D. Flora, former meteorologist for Kansas, is considered one of the foremost world authorities on tornados. He is author of a recently published book entitled "Tornados of the United States," which is filled with data and pictures gathered over most of a lifetime.

4th of July Fun

A little planning in advance will make the Fourth of July gathering with family and friends a happy and memorable occasion. Our leaflet, "Fourth of July Frolic," lists games, stunts and refreshments. Send your request to Entertainment Editor, *Kansas Farmer*, Topeka, 3c.

"Average daily gain of 2.72 lbs. for 180 days feeding on DANNEN Feeding Program!"

"On October 24, 1952 I purchased 135 choice quality yearling Hereford steers, averaging 680 lbs. I fed these steers 5 lbs. ear corn, silage, and three pounds of Dannen Steer Producer "A". They also cleaned up some corn fields. I put these steers in the dry lot December 15th. I gradually took the silage away and added cracked shelled corn. I replaced the Steer Producer "A" with 3 lbs. 12% Thrifty Hunkets, and fed 3/4 lb. of Dannen 41% Meal. On April 24th, I weighed these steers out of the lot at an average weight of 1170 pounds for a daily gain of 2.72 lbs. for the 180 days of feeding. I recommend Dannen Feeds very highly and find they are very economical."



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BURDEN Lewis Chevrolet Co.
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CHANUTE Naff & Bolze Hdwe.
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CLEARWATER Webb Electric Co.
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COLUMBUS Brown Refrigeration Service
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COTTONWOOD FALLS Hamm Electric Co.
COUNCIL GROVE Rumsey & White
DIGHTON Mull Electric Service
DODGE CITY Newkirk's
EL DORADO Home appliances, Inc.
ELKHART Ellis Motor Service
ELLIS O'Loughlin Motor Co.
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EMPIRIA Litke-Stephens Furniture Co.
ESKRIDGE Willard Sales & Serv.
EUREKA Donnelly's Radio Electric Service
FALL RIVER Fall River Impl. Co.
FLORENCE Roberts Machinery Co.
FORT SCOTT Darling & Maguire Sales Co.
FRANKFORT Lauer Electric Shop
FREDONIA Hollis Hardware Co.
FURLEY Boyd Implement Co.
GARDEN CITY Mayo's
GLASCO R. W. Cramer Hdwe.
GOODLAND D & G Electric Co.
GREAT BEND Mathers-Jaeger Appl. Company
GREENLEAF Hogan & Sons
GREENSBURG Culp Home & Auto
HALSTEAD Mantel's Dept. Store
HANOVER Leutloff Appliance & Electric Co.
HARPER Jess Hamilton
HAYS Hays Music Co.
HERINGTON Fred Lee & Sons
HILL CITY Quenzer Appl. & Hdwe.
HOISINGTON Gelman Appl. Co.
HOLYROOD Westmacott Hdwe. Co.
HOPE Wuthnow Furn. Co.
HOWARD Virgil Munsinger
HOXIE H & K Appliance
HUGOTON Bob May Chevrolet Co.
HUTCHINSON Graber Furniture Co.
IOLA Schell's Appl. Store
JETMORE Lindsas Hardware, Inc.
JEWELL Jewell Lumber Co.
JOHNSON Stewart Furniture Co.
JUNCTION CITY Waters Appl. Store
KENSINGTON Simmons-Olliff
KINGMAN Kingman Radio Shop
KINSLEY Maytag Appliance Co.
KOWA Fisher-Wood Hdwe.
LA CROSSE Lelker's Bonus Store
LAKIN Hart & Co.
LANSING A. A. Doerr Merc. Co.
LEBANON Lebanon Electric
LEHIGH Burkholder Lbr. Co.
LENORA Eldridge Electrical Co.
LEON Losh Motor Co.
LEOTI Western Hdwe. & Sup.
LIBERAL Hettie Appliance
LINCOLN B. G. Hall
LINCOLNVILLE Burkholder Lbr. Co.
LINDSBURG Billings Refrigeration & Elec. Appl.
LITTLE RIVER Hodgson Impl. & Hdwe.
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MANHATTAN Kaup Furniture Co.
MANKATO Waters Hardware
MANKATO Beam Motor Co.
MARYSVILLE Fred Burris
McPHERSON Green's Appl. Store
MEADE C. F. Worman Elec.
MEDICINE LODGE Dickey Appl. Co.
MENTOR Johnson's Hardware and Elevator
MILTONVALE Phelps Furn. Store
MINNEAPOLIS Horner Hardware
MORGANVILLE Will F. Taddiken
MOUNDRIE Krehbiel Hdwe. & Impl. Co., Inc.
MOUNT HOPE Johnsmeyer's
MULVANE Lentz & Rodey Electric Co.
NASHVILLE Stewart Motor Co.
NATOMA Pohlman's Home Furn.
NEODESHA Clark Electric Shop
NESS CITY Schroyer's, Inc.
NEWTON Newton Ap. Center
NORTON Horney's, Appl.
NORWICH H. S. Eshnaur & Sons
OAKLEY C. D. Clark & Sons, Inc.
OBERLIN Anderson & Son Hdwe. & Impl.
ONAGA Tessenort Furn. Co.
OSBORNE Quenzer Appl. Co.
OSWEGO Williamson Stores, Inc.
OXFORD Donley Hardware Co.
PARSONS Appliance
PEABODY Baker Furn. Store
PHILLIPSBURG Newell's Appl. Store
PITTSBURG Rodkey's
PLAINVILLE Moshier Bros.
PRAIRIE VIEW Prinsen Bros. Hdwe.
PRATT Link Electric
PRETTY PRAIRIE General Appliance Co.
QUINCY Quinzer Appl. Store
RILEY Meyer Mercantile
RUSSELL Delnes Bros.
ST. FRANCIS Roelf's Electric
ST. JOHN Abrahamson Electric
ST. MARYS Youngkamps Furn.
SALINA Goodhousekeepers Appl., Inc.
SATANTA Decker's
SCANDIA Sanborn Lumber Co.
SCOTT CITY Bryans, Inc.
SEDIAN Bell Chevrolet
SHARON SPRINGS C. E. Koons & Son Hardware
SMITH CENTER Griptson's
SPEARVILLE Heskamp Chev. Co.
STAFFORD Peacock & Soice
STERLING K-T Oil Station
STOCKTON Quenzer Appl. Co.
SYLVAN GROVE F. A. Gatewood & Sons
SYRACUSE Stewart Furniture
TIMKEN Timken Lumber & Hardware Co.
TRIBUNE Western Hdwe. & Motor Co.
TURON Turon Electrical Sup.
ULYSSES Ulysses Hardware
VALLEY CENTER Central Supply
WAKENESS Clark Supply Co.
WAKEFIELD Sanborn Lbr. Co., Inc.
WAMEGO J. E. Stewart & Sons
WASHINGTON Grimm Hardware
WATERVILLE Hensley Hdwe. & Furn.
WELLINGTON Nichols Electric Co.
WESTMORELAND Knip's Cash Hdwe.
WICHITA The Appl. Center, Inc. 138 North Broadway 1014 West Douglas 121 East 21st
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Come in! See all the new Imperial and De Luxe Cyclo-matics, Master and Standard Frigidaires now!

Now That You Have Electricity

WITH HARVEST in full swing and more harvests to come, the way electricity helps solve problems of storing grain becomes the topic for discussion.

That electricity can assist in these problems has been established. Presence of moisture, and heat created by storing moist grain, have been controlled by turning grain with shovels, or with electric elevators, shifting grain from pile to pile to hasten evaporation.

Now grain can be brought from the field, placed in bin and a flick of a switch will take care of controlling temperature in the bin, air-conditioning it, so to speak, by a fan, some ducts and small investment.

From experiences of farmers in all parts of Kansas it appears bin drying is a success. Those who have studied the process are enthusiastic, with time, effort, safety and money figuring into the savings.

Standard fans of either squirrel-cage or whirling type can be adapted to a bin. You can figure size by allowing about 2 cubic feet of air per bushel. However, there is another factor to be considered. That is "static pressure" and it varies with the particular grain to be dried. Maize or corn will offer a different amount of resistance to flow of air than wheat. That can be handled by changing size of pulleys to increase or decrease air flow.

In one operation, 2,100 bushels of wheat are being controlled this year in a round metal bin. Ductwork, spreading from bottom opening across the floor, directs air provided by a squirrel-cage fan powered with a 3/4-horse motor. The air goes out and up thru 8 feet of grain, taking with it the accumulated moisture and reducing temperatures within minutes.

In another installation, 3 such bins have been equipped with ducts so a single fan can be alternated, working for an hour or two at each bin until wheat is safe.

Installations in granaries utilize the same principle with varied duct design. A primary duct carries air from fan to secondary ducts built across the floor.

Results in either case will be the same. When wheat gets too hot for comfort, turn on the fan. You can feel the effect, smell the green wheat, even tho the air must travel past millions of closely-packed kernels. A match held above the wheat may even be blown out by the draft.

Maize can be handled with the same equipment. However, it offers a little different problem as it tends to gather moisture from the air. Therefore, it must be air-conditioned every week or so to keep it in storing condition.

Buildings can be bought especially adapted for crop drying. They offer versatility inasmuch as both grains and hay may be cured. That brings us briefly to hay drying, a subject not as new as drying grain.

A good many farmers now are cutting hay and placing it directly in the mow for curing. Estimates show savings in protein from mow curing as against field curing will pay for the equipment in a comparatively short time. Here, however, a larger motor and greater capacity fan are needed. Usually a 5-hp motor is large enough.

One building manufacturer has produced a metal bin with vents every few inches. A fan and duct system thru the core of the building force air outward thru the hay.

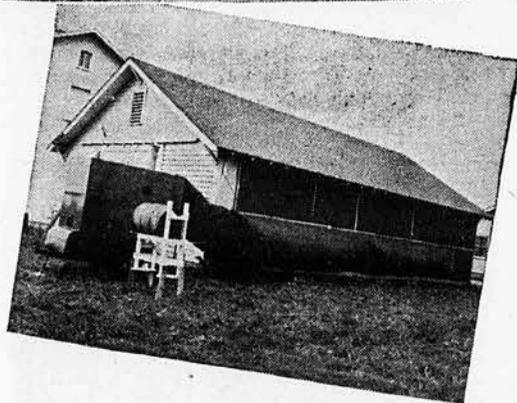
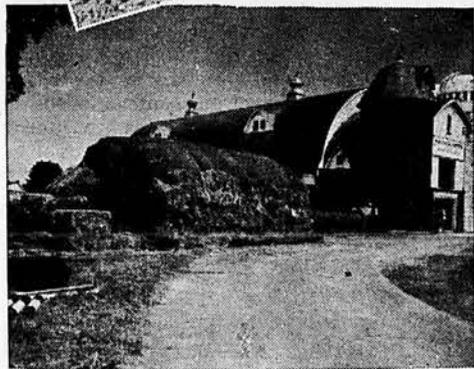
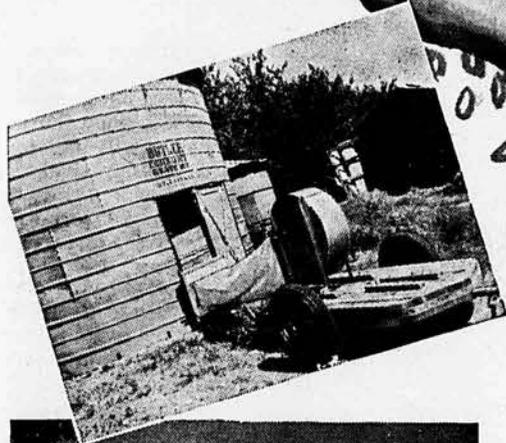
Power cost for these varying operations varies with the amount of moisture to be removed, and on weather conditions while the drying process is going on. But some measurements have shown an efficient system can dry grain for from 1 to 4 cents per bushel and for a dollar per ton of dry forage.

Studies of crop drying and attendant problems have been conducted at Kansas State College. Your inquiries are directed to them.

Heavier wiring may be necessary because of the load carried over long periods. For some crops, a motor must run continuously for long periods, sometimes as much as a month, hence a light wire may constitute a fire hazard. Get expert opinion on your setup.

GRANDMA By Charles Kuhn





Wet grain?... Wet hay?

Wet wheat, corn, oats, milo and hay—need not be a loss! They can be dried quickly, economically to top condition with a motor-driven drier fan that forces air through ducts in crib, granary, or mow.

Easy to install, an electrically driven fan is now an accepted farm practice for drying small grains and corn as well as hay. Many are using their hay-drying fan for this purpose. Grain driers can save you both time and labor. No more turning and airing grain by hand. Then, too, dry grain can save you money by giving you full market prices—no penalty for high moisture.

Let your farm equipment dealer or one of our own representatives give you advice on installing a grain drier on your farm. Call him and be ready for this season's harvest without worry.

(Upper picture, left). With this portable crop drier in front of a grain bin this farmer took care of both wheat and oats last summer. When this picture was taken, the motor had been removed to another important job in saving money for the owner.

(Center picture, left). This large pile of baled hay is being rapidly "conditioned" by a electric crop drier. Under ordinary weather conditions, a large per cent of the moisture can be removed from the hay.

(Picture lower, left). With a special fabric tunnel fastened securely to the corncrib which has been vented the entire length, this electric drier is doing a satisfactory job on ear corn. Picture was taken last fall.



ELECTRIC SERVICE IS STILL THE LOWEST ITEM IN YOUR FAMILY BUDGET

Yes, electricity is cheap in Kansas despite the fact that the materials, manpower and equipment that go into making good electric service have skyrocketed right along with the cost of living.

ELECTRIC LIGHT AND POWER COMPANIES IN KANSAS

Central Kansas Power Company
Western Light & Telephone Company
The Kansas Power and Light Company

Kansas Gas and Electric Company
Kansas City Power & Light Company





I USED
BEM BRAND
FERTILIZER
AND LOOK AT
THAT WHEAT!

LAST YEAR I got a soil test, used 125 pounds of Bem Brand 4-12-4 per acre, and averaged 35 bushels of wheat from every acre I planted! That was the highest yield in my county. Even beat Ed Martin, the neighbor who told me about Bem Brand fertilizer in the first place.

Ed gave me a good steer when he suggested Bem Brand. He said it contained all the elements growing things are known to need. We both know these ingredients are mixed properly, too, and in the right proportions. They *have* to be, because Bem Brand is made right here in our own state for our kind of soil.

I invested in Bem again this year, and I know doggone well that I'll have wheat if anybody does.



THURSTON
CHEMICAL COMPANY

Thoughts TO LIVE BY

"Easy Does It"

HOW TO DO THINGS with ease is a problem confronting us all. As the demands of life increase, we tend to become tense. Altho pressure may be an incentive to some people, prolonged tension inevitably decreases one's efficiency.

It sometimes happens that people who appear outwardly to be very calm are inwardly in great turmoil. They are impatient about delays, irritable when things do not proceed according to plan, and resentful of the many interruptions that limit their accomplishments.

Perchance we can see ourselves in this picture of others. We may be concerned because our work has become difficult. We no longer enjoy it as we once did. Our reading has been influenced by our situation. We have turned to those who set forth physical schemes of relaxation. Starting with the extremities and moving gradually toward the heart, by conscious effort, tension is reduced. But it takes time to develop this discipline, and since tension and overcrowded schedules go hand in hand, it is only a relative few who take advantage of this procedure. Some turn toward the healing cults or respond enthusiastically to the emphasis upon peace of mind within conventional religion. Many are appreciably helped by a new set of attitudes.

But obviously not all people are finding the help they need. Perhaps they have thought the cure wasn't worth the required energy, or there

may be some other reason. This also needs to be acknowledged: no one would want to be wholly free from tension. The violinist gets music only from the taut string. The hampered people have been our inventors. Those with great concerns have been our benefactors. Jesus said, "Now is my soul troubled." When one's convictions and environment are out of joint, there ought to be some tension. Our concern is that the string of life be not stretched to the breaking point. We must not become victims of hypertension.

There are two aids near at hand everyone can use. They are not substitutes for medical counsel when it is needed, but I think most physicians would consider them good supplements to the course of treatment he might prescribe.

First, sing. Everyone ought to sing. Sing songs of faith. Sing some of the great hymns of the Church. Someone may not sing because he thinks he has a poor voice. Let that person sing in the shower or out in the fields. The next time you are crippled by tension, sing wholeheartedly—lose yourself in song—and observe how much better it makes you feel.

Second, laugh. Look for something humorous every day. It may be a funny situation or a printed joke. Laughter is a gift of God. Laughter and tension never live together. Choose laughter.

Then when the hypertension is reduced, turn again to your work and rejoice that "easy does it."—Larry Schwarz.

How to Grow and Market Broilers While Holding Costs Down

SEVERAL HUNDRED persons took time off during the Third Annual Broiler Growers Day, at Kansas State College, June 4, to sample Tom Avery's barbecued chicken, for which he has become famous. Mr. Avery is a member of the poultry husbandry staff at Kansas State College.

During the morning and afternoon, visitors to Broiler Day heard research men and growers outline best methods of growing and marketing broilers while keeping down costs.

Edwin L. Early, a commercial broiler grower from Baldwin, discussed many production problems. "I find it pays to divide chicks into smaller pens and keep them moving as much as possible," he said. Good-quality, early-feathering chicks are a "must," he advised if you want to raise broilers processors will buy. "I find it pays to sell my birds as close home as possible, too," he added. Mr. Early believes there is room for expansion of broiler growing in Kansas and said profits reach beyond the margin on the birds themselves. "Poultry litter," he added, "improves productivity of soil on any farm and the business is one that can grow into big or small."

Dr. Paul Sanford, Kansas State College poultry husbandry staff, said Kansas had an income of \$2,703,000 from broilers in 1952 and that commercial broiler growers now market 50 per cent of all poultry meat sold in the U. S.

"Feed and labor are the 2 big costs in broiler production," he said. "It takes 2 carloads of feed to finish 10,000 broilers to market size." Since 1940, improvements in feed and breeding have allowed chickens to be grown much cheaper and faster. Feed efficiency has

improved 40 per cent and time needed to grow a 3-pound broiler has decreased 35 per cent, said Mr. Sanford.

Tests with various protein bases, such as vegetable, animal, combinations of the two and vegetable plus aureomycin B₁₂, indicates vegetable plus aureomycin B₁₂ is most efficient and that vegetable proteins rate ahead of animal proteins in poultry rations.

"By increasing feed efficiency as little as .2 per cent you can cut costs 3 cents a bird, or \$30 for each 1,000 birds marketed," said Mr. Sanford. "This may mean the difference between a profit or loss."

"In choosing a commercial feed the most expensive may be the cheapest," he said. "The feed efficiency is what you are after and should buy accordingly."

Tips given by Mr. Sanford include these: "Don't fill your feeders more than half full or chicks will waste feed. Keep both feed and water level even with the height of the chicks' backs. Increasing floor space from 1/2 to 3/4 square foot per bird will reduce mortality, reduce diseases, increase quality, speed growth and increase feed efficiency. An automatic waterer will cut chores 50 per cent. Fourteen per cent is an average mortality rate."

Dr. C. D. Lee, Iowa State College, Ames, told growers the best way to spread broiler diseases is "to keep sick birds in the flock and try to doctor them." All sick birds should be removed as soon as discovered and killed. Several speakers stressed that doctoring sick individual chickens is too expensive to try.

Disease prevention, said Doctor Lee, (Continued on Page 14)

FARMING "FIRSTS"

First Establishment of a book wagon for distribution of books to rural communities was in early 1900's, by Mar L. Titcomb, librarian at Hagerstown, Md. Cost of wagon was \$175 and it was designed to carry about 300 books. Books were checked out for a 2-month period.

First Agricultural, Technical and industrial school in North America is believed to be the Gardiner (Maine) Lyceum, established in 1821.

Hogs Were Brought to West India by Columbus in 1493. They were brought from Cuba to Florida by De Soto, in 1538.

Horses First Were brought to the New World by Columbus, in 1493. They were brought from Cuba to Florida by Cabeza de Vaca in 1527, but all perished. De Soto brought them to the mainland in 1538.

Goats Were Brought to West India by Spaniards in 1493, and as early as 1608 it was observed goats prospered in Virginia. Angora goats were introduced into United States in 1849.

Holstein-Friesian cattle originated with ancient Friesland people, a tribe that lived on the shores of the North Sea in what is now The Netherlands.

Holstein-Friesians first came to the United States when early Dutch settlers brought cattle with them in late 18th century.

First importer to establish and maintain a purebred Holstein herd was W. W. Cheney, of Massachusetts, in 1852. In 1871 the Association of Breeders of Thoroughbred Holstein Cattle was organized with Mr. Cheney as its president. Then in 1885 the present Holstein-Friesian Association of America was organized.

Jersey cattle originated on the Island of Jersey, in the English Channel, and were first imported into United States in 1850.

Red Polled cattle are believed to have been introduced into England soon after Roman occupation.

Shorthorn cattle originated in Northeastern England, and were first imported into the United States in 1783 in Virginia and Maryland.

Polled Durham breed of cattle was first breed to be originated in United States and a national association was organized in Chicago, on November 13, 1889.

First Use of anhydrous ammonia direct in mixed fertilizers was in 1928. Then in 1943 came first commercial use of the material direct in the soil (nitrojection). In 1932 came first commercial use of anhydrous ammonia in irrigation (nitrogation). First year of general use of ammonium nitrate in U. S. fertilizers was in 1942.

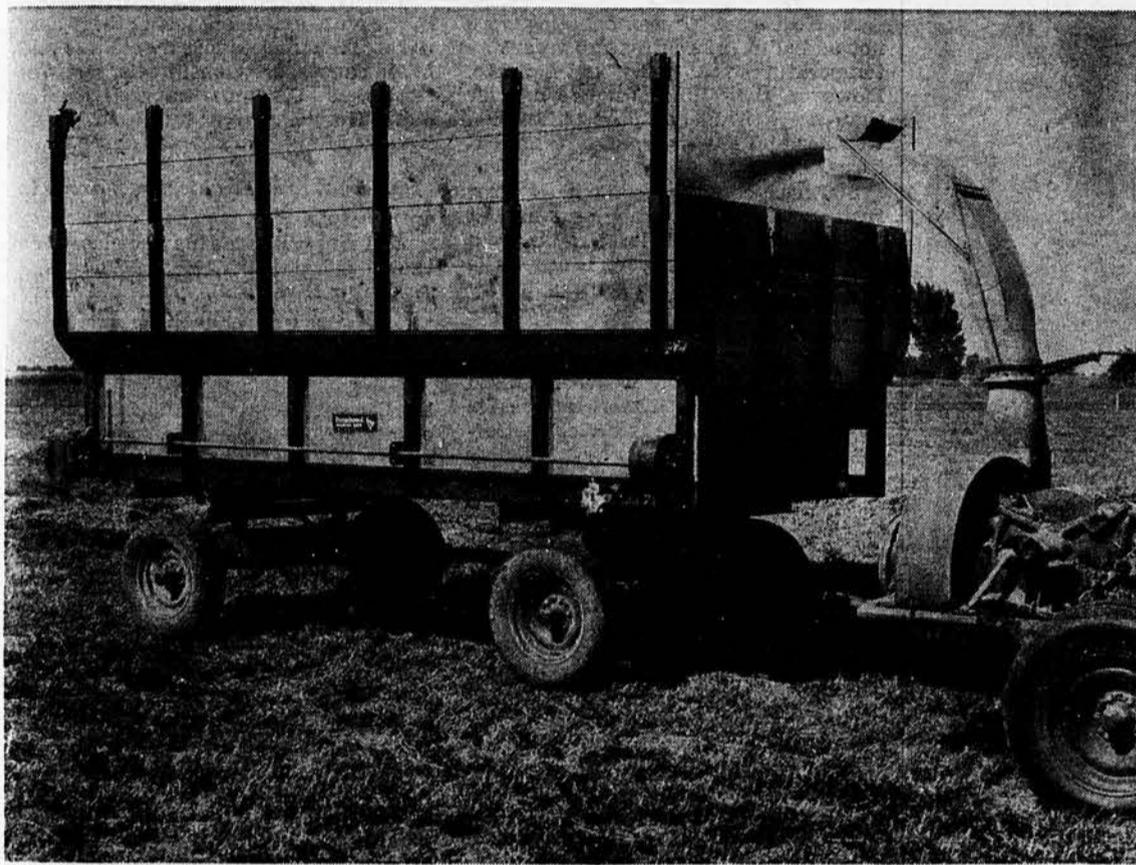
In 1947, the USDA started work involving phosphorus deficiencies, at Fort Collins, Colo., for western states, and at Ames, Iowa, for north central states.



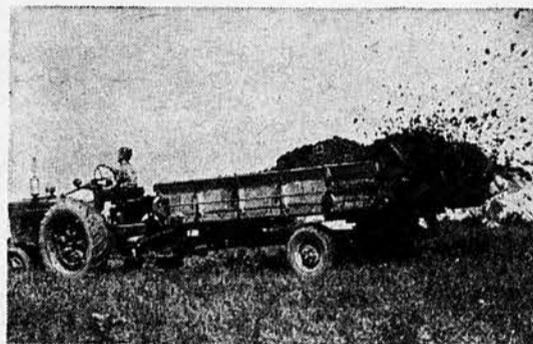
"Never could figure where I lost those vitamin pills."

COLLEGE
13
JUN 19 1953
MINNAPOLIS
SCIENCE

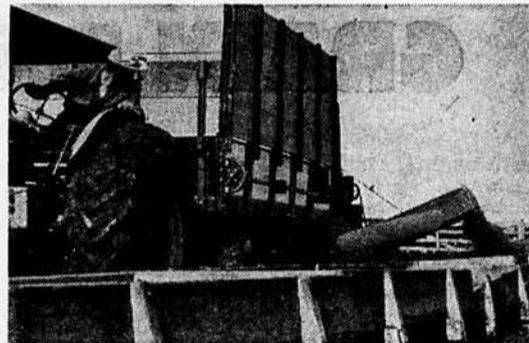
Cut your machinery investment in half with the FARMHAND 4-in-one FORAGE BOX



FOUR MACHINES IN ONE—Farmhand's big 6-ton "Power-Box" is a Forage Unit, Spreader, Feeder and All-Purpose Box. One man handles any harvest from field to finish with the Farmhand "Power-Box" with Forage Sides. The quickly attached sides are high enough to catch all discharge from the chopper spout, even on turns. The 6-ton model, above, mounts on truck, trailer or wagon. Fast automatic unloading from PTO saves time and labor at the blower or in the trench.



RUGGED PTO-SPREADER—Remove Forage Sides and add Spreader attachment. The Farmhand "Power-Box" Spreader spreads a 9 to 12 ft. swath with controlled concentration . . . outworks four ordinary spreaders. Big 6-ton loads make spreading your most distant fields easier, more profitable.



AUTOMATIC, 6-TON FEEDER—Cattle feeding is faster and easier with the Farmhand "Power-Box" and Feeder attachment. Feed is mixed and delivered into bunks automatically as you drive along, saves time and labor. Every animal gets balanced ration; good mixing helps control founder.

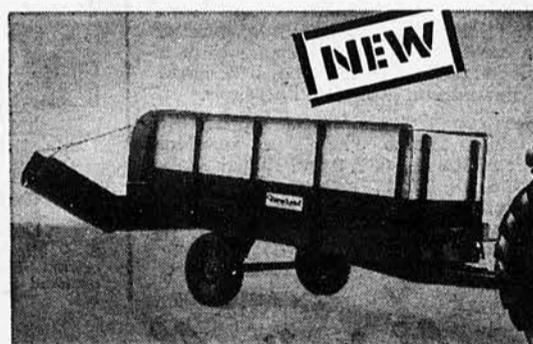
SAME FEATURES IN 4-TON "POWER-BOX"



SELF-UNLOADING FORAGE UNIT—New, lower cost 4-ton "Power-Box" with Forage Sides makes forage and silage handling an easy one-man job. With high sides added, the box is 6 1/2 ft. high, 5 ft. wide at the flare. Full 285-bushel capacity keeps field trips to a minimum.

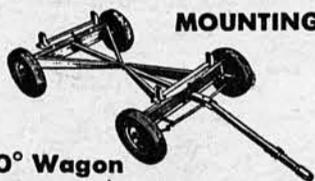


PTO OPERATED—NO RATCHETS—Worm gear drive and roller-chain conveyor insure smooth, noiseless, dependable unloading under all weather conditions. The 4-ton "Power Box" Spreader is narrow enough to be driven through barns, low enough for easy hand or mechanical loading.

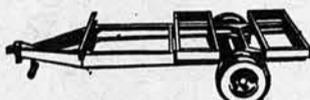


ONE MAN FEEDS A HERD—New Feeder attachment eliminates pre-mixing . . . reduces feeding time more than 50%. Uniformly mixes feed and roughage, delivers the ration into feed bunks automatically as you drive along. Optional auger elevator fits bunks to 42" high, folds for transport.

MOUNTINGS FOR 6-TON POWER-BOX



90° Wagon



Single Axle Trailer



Farmhand

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 I am a student, send special material

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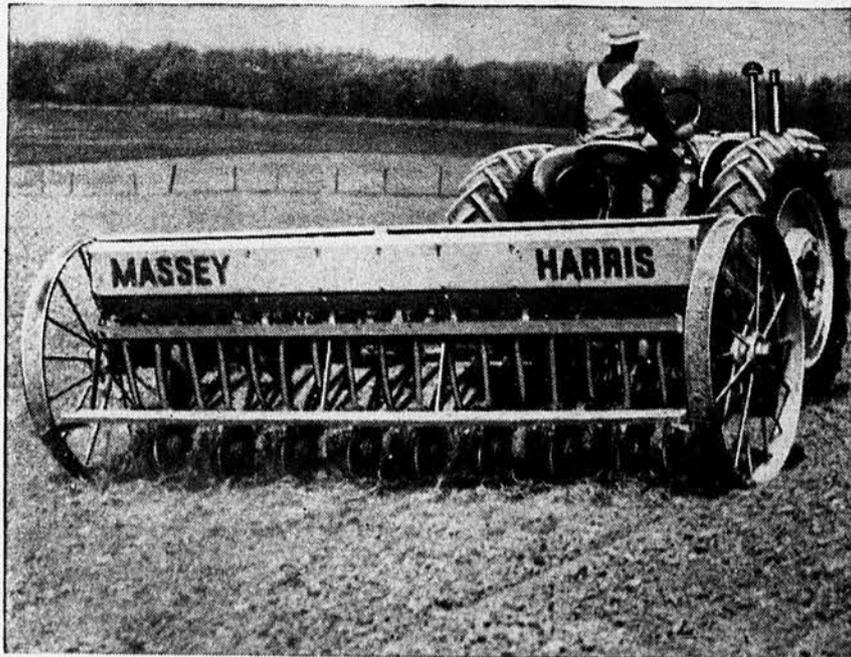
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A Division of SUPERIOR SEPARATOR COMPANY

Cut Seed Waste



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PRETESTING and factory "run-in" time give you a greater degree of sowing accuracy with Massey-Harris Grain Drills. The seed-runs of every drill are thoroughly tested for uniformity of speed and flow. It's your assurance of less seed waste . . . bigger yields . . . full stands at less cost.

Furthermore, Massey-Harris Drills are built to stay on the job. All-steel frames and hoppers . . . large 48-inch wheels . . . enclosed oil-bath, sunflower gear-drive . . . simple chain drives, mean long life, low-cost operation, years of seed-saving performance.

Massey-Harris center seed delivery deposits all seed in the bottom of the furrow . . . close to moisture for fast germination, healthy growth. With front-mounted drag bars, the openers slice uniform furrows, even in trashy conditions. Spring pressure on the bars holds selected depth . . . follows land variations uniformly. That's why you get full stands with a Massey-Harris . . . no skips or bare spots. Openers run on dust-sealed bearings.

See your Massey-Harris Dealer for complete details. There's a complete range of sizes — 6, 7, 8 and 10 inch spacing: 16, 18, 20, 22 or 24 runs — Single or Double Disc openers. Combination fertilizer models also available. Write for free catalog. The Massey-Harris Company, Dept. F-75, Quality Ave., Racine, Wisconsin.

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Here Is Fruit Crop Prospect for 1953

By WILLIAM G. AMSTEIN

WHAT DID THE WEATHER do to the 1953 fruit crop in Kansas? To get latest and complete information on this subject, *Kansas Farmer* has asked our horticultural writer, Jerry Amstein, Kansas State College horticulturist, several questions. Here are his answers, partly based on travels over the state:

Q. What effect have weather conditions had on fruit crops over the state?

A. Northeast Kansas counties were not as badly injured by late freeze as temperatures reported would indicate. However, the "June" drop is heavier than normal, due to poor pollination weather and low or freezing temperatures.

Southern counties have a heavy tree fruit crop loss. The peach crop in that area is nearly a total loss. There are a few locations with a partial crop. The apple crop in Southern Kansas is very light but with the exception of Red Delicious most trees have part of a crop. The Hutchinson area has a fair apple crop. Early hot June weather caused the drop to be much more noticeable all over the state. Around Wichita, Coffeyville and some other areas, a heavy to total tree fruit crop loss seems likely. In southern areas, strawberries, grapes and similar crops will have a partial crop. Delicious apple crop was hurt more than most other varieties by late freeze in northern counties.

Q. What are new developments in chemical sprays?

A. Several newer chemicals for insect and disease control as well as crop regulators are becoming available. In the fungicide field, Captan gives great promise as a material to handle fruit diseases as well as to give an improved finish to apple varieties such as the Golden Delicious. Dieldrin is now available to handle plum curculio. Several newer miticides also are listed. Materials that will both hold apples on trees to maturity and give better color also are available and are being used.

Q. What are new prospects for new fruit crops for Kansas?

A. French-American hybrid grapes and their ultimate place in Kansas and Midwest horticulture offer many promising possibilities. Emmett Schraeder, Hutchinson, has the most outstanding collection of this type of grape in the U. S.

Farm families who would like to work towards a tree and/or small fruit program have many opportunities in Kansas. Number of new young orchards in the state and in adjacent states does not equal acreages lost by old age and other causes. New chemicals, new varieties, and consumer harvesting offer many promising opportunities to young Kansas families in adapted areas.

Q. What are the chief fruit areas in Kansas?

A. Principal areas may be classed as the Missouri River, Kaw Valley and Arkansas River Valley sections. There are, however, a number of fair-sized isolated orchards in other sections of the state.

Along the Missouri river, Doniphan has been principal tree and small fruits country. Apples, peaches, strawberries and grapes are main crops. Other producing counties are Leavenworth, Atchison and Wyandotte.

In the Kaw Valley, Jefferson, Shawnee and Douglas counties have maintained a number of bearing apple and peach orchards as well as small fruit plantings.

In Reno, Sedgwick, Sumner, Harvey and Cowley counties, several new orchards have been planted. These consist of both apples and peaches. Near Haysville, south of Wichita, is the most concentrated peach acreage in Kansas. They feature many of the newer and better peach varieties. Likewise, customers are allowed to do harvesting, and this has worked very well.

Around Coffeyville in Montgomery county and in Wilson county and in several other counties there are several commercial orchards. Comanche county in southwest Kansas has a few commercial plantings.

How to Grow and Market Broilers

(Continued from Page 12)

should start with purchase of pullorum-free chicks.

"Medicated feeds are a big help in keeping healthy birds but are not a cure-all," he warned. "Good sanitation and good management should be followed at all times."

Early diagnosis of paratyphoid is important, Doctor Lee said. If you suspect this disease, don't wait for a laboratory test to prove it, but start treatment of flock immediately.

It is impossible to keep coccidiosis out of broiler houses, Doctor Lee believes. Follow all precautions, he said, but use preventive medicines as an aid if you suspect this disease.

Mikosis can be handled by adding copper sulphate to water, Doctor Lee said.

Air sac lesions may be due to any one of several diseases, Doctor Lee ex-

plained. He advised: "If you have a respiratory disease of any kind get a definite laboratory diagnosis immediately. Such diseases cannot be correctly diagnosed in the broiler house."

There are several good preventive vaccines now on the market for Newcastle, Doctor Lee said.

Other speakers on the day's program included Dr. A. D. Weber, dean of agriculture, Kansas State College; Dr. Cliff D. Carpenter, Institute of American Poultry Industries, Chicago, Ill.; August Sheetz, commercial grower, Topeka, and Marvin E. Vautravers, commercial grower, Grand Island, Nebr.

Sally DeForest, daughter of Mr. and Mrs. John DeForest, Peabody, was crowned Kansas Broiler Queen by Roy Freeland, secretary of the State Board of Agriculture, during one of the regular morning programs.

Tests Show How "Tough" Wheat Is

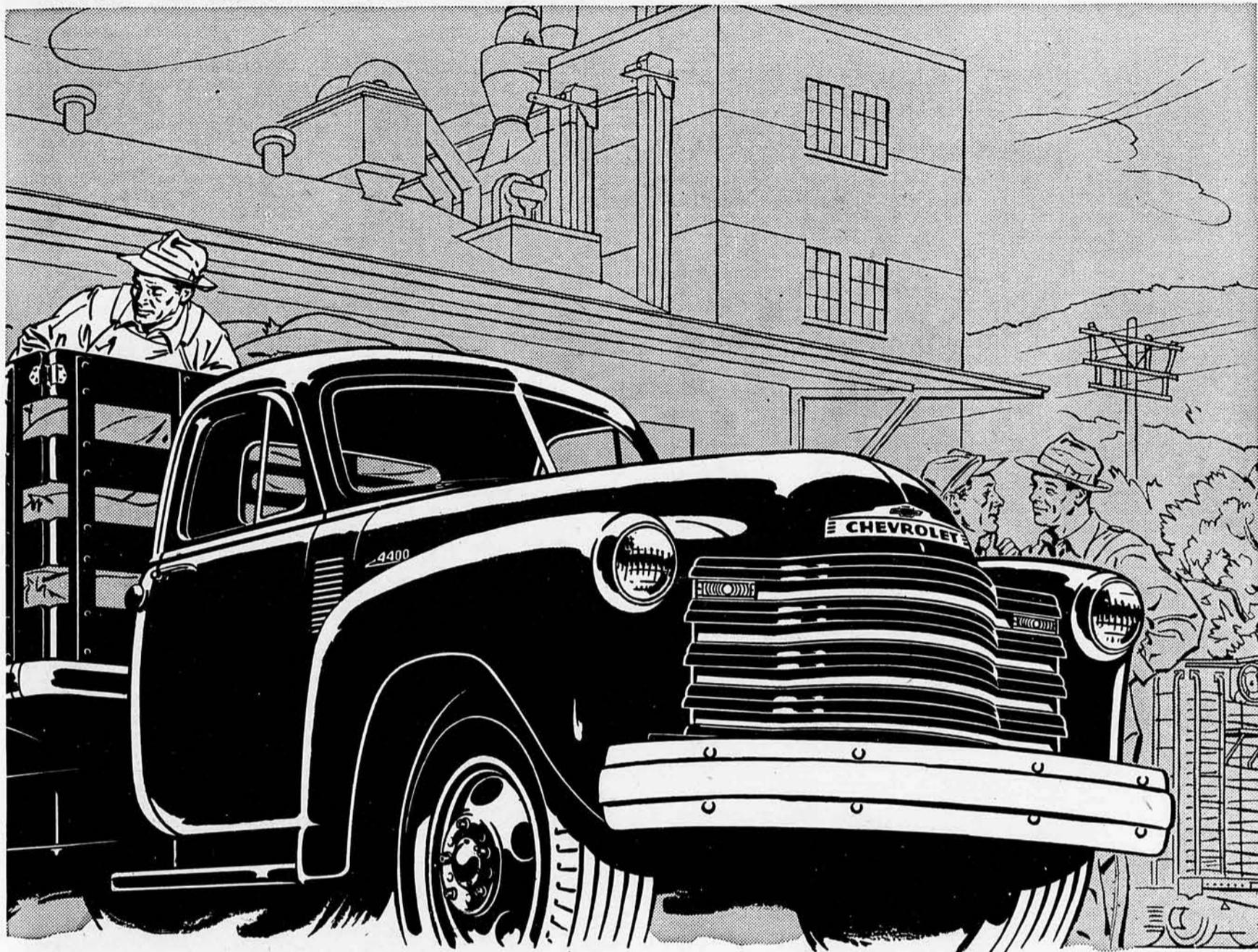
(Continued from Page 6)

resistant to bunt. CI 12517 has been outyielding Pawnee by 19 per cent and CI 12804 has been outyielding Pawnee by 26 per cent. Both have higher test weight, better straw strength and better baking quality than Pawnee.

A new oat variety, O-205, has been recommended for farm production in Kansas in 1953. It has more tolerance to crown rust than the other recommended varieties. Nemaha, Cherokee and Clinton continue to be safest oat varieties at present.

From 1948 thru 1952, application of fertilizers on wheat at Manhattan station paid off well. Net profits per acre ranged from \$13.60 an acre to \$19.67 an acre. Returns per dollar invested in fertilizers ranged from \$1.90 to \$2.86.

Over the same years nitrogen applied to corn at rate of 80 pounds an acre raised yields from 45 bushels an acre to 65 bushels. Adding phosphorus and potash in those sections of Kansas where needed increased yields still further over no treatment.



Why you can get more farm work done per dollar with a Chevrolet truck



Ask yourself this one important question: What does it take to hold down the cost of farm hauling?

Obviously it takes a truck that is built for the job—factory-matched to the work it will do. It takes one with tires, springs, axles and engine all carefully engineered to handle that job with ease.

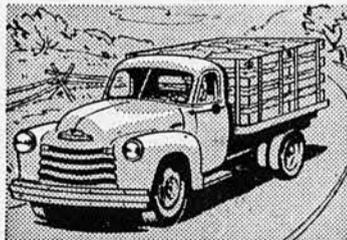
What else? Well, we think it takes a truck that now delivers more heavy-duty power and combines that power with even more miles per gallon of gas.

And wouldn't you like a truck that has heavier, more rigid frame construction even though this same truck was already famous for its stamina?

And, of course, you'll want a truck that lists for less than any other of comparable specifications!

Those are the very reasons why you get more farm work done per dollar with Chevrolet trucks.

Before you decide to buy any truck, get the full story from your Chevrolet dealer. Why not see him now? Chevrolet Division of General Motors, Detroit 2, Michigan.



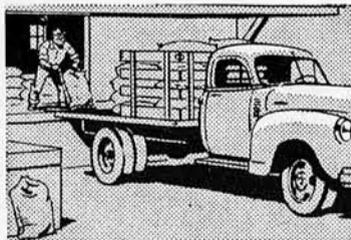
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Heavy-duty Loadmaster engine delivers more power, reduces gas consumption. Thriftmaster engine is also famous for economy.



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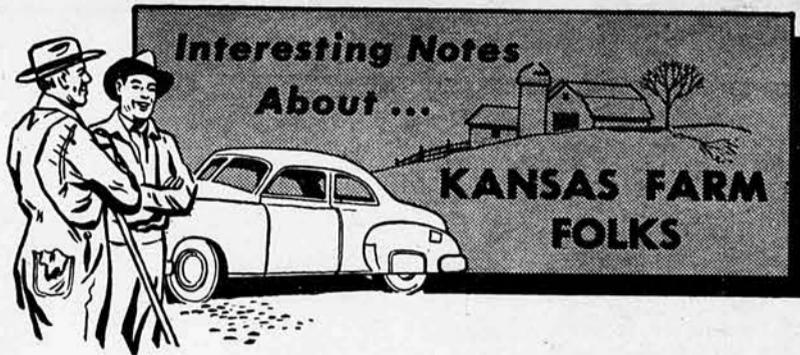


Lower Upkeep Costs

Valve-in-Head engine design means extra gas and oil economy. Rugged strength of all units assures low-cost upkeep.

MORE CHEVROLET TRUCKS IN USE THAN ANY OTHER MAKE!





Wichita County: Howard Clevenger, Leoti, has placed old tractor tires on the range into which he puts silage and protein supplement. This method protects silage from being scattered by the wind.

Elk County: Tom Jones, Elk Falls, showed that a grade-A milking parlor could be constructed with very little outlay of capital. He remodeled a corner of an old cow barn for slightly over \$250 for building supplies.

Cherokee County: John and William Benedict, Scammon, have been named to membership in the American Milking Shorthorn Society. National headquarters are in Springfield, Mo.

Wabaunsee County: Elmer Imthurn, Paxico, recently established an 8-row, 1,000-foot windbreak on his ranch between Paxico and Maple Hill.

Wyandotte County: Litton Worthington, Turner, has been named supervisor of the county Soil Conservation District. Wyandotte recently became the 104th Kansas county to organize a district.

Morton County: Wayne Hershey, Rolla, has an improved feeding device which is creating considerable interest. An auger conveyor carries silage from silo the entire length of the continuous feed bunk, distributing it evenly without ever being touched by the operator.

Washington County: Jerry Buesig is a new member of Little Blue Workers 4-H Club, being initiated at recent meeting at Glendale school.

Elk County: A. A. Sheehan, Longton, carried 6 head of bulls on 9 acres of first-year Kentucky fescue and alfalfa with very little feeding prairie hay. Bulls gained in weight and showed good fleshing at end of winter.

Wabaunsee County: Millard Horne, Alma, purchased the champion bull of the Kaw Valley Hereford Association sale and show for a new herd sire. Mr. Horne is producing feeder calves. The bull was bred by Grant Poole, Manhattan.

Morton County: Arden Nusser, who is starting a good registered Holstein herd, recently completed an ultra-modern dairy barn. Cows are milked and milk is conveyed to cooler, entire operation being completed without milk being touched by human hands or being contaminated in any way.

Elk County: Bill Johnson's new grass program beats anything we've seen in the conversion of an old 160-acre row crop-type farm to a modern grassland-type farm, says county agent John Maxwell. Mr. Johnson's veteran training experience has helped him bring all

Good Lamb Crop

Dear Editor: I live on a small farm and raise a few sheep as a side line. I am very proud of them as I have 22 living lambs from 12 ewes. I had 2 sets of triplets, all living; 7 pairs of twins, one dead on arrival; and 2 singles, making a total of 22 lambs and the youngest is now 6 weeks old. Anyone not believing this is invited to come see them for yourselves.—Mrs. Lida Brenneke, Harper, Kan.

of his land to a legume with a small grain combination, tall fescue, brome and alfalfa rotation.

Cherokee County: Leo Martin, Scammon, has been named to membership in the American Milking Shorthorn Society. National headquarters are at Springfield, Mo.

Wabaunsee County: John Savage, 6 miles south of Alma, recently installed an irrigation system to go along with an intensive pasture program for his dairy business.

Morton County: Several buyers of land from the Winter estate are thinking of putting down irrigation wells in the near future.

Elk County: Mr. and Mrs. Alan Mitts, Piedmont, had a house they considered beyond repair. So they purchased 80 acres with a 4-room house on it. The house was moved to the home place and remodeled into a modern 5-room house.

Riley County: Mr. and Mrs. Howard Kientz, truck farmers near Manhattan, recently put in a sprinkler-type irrigation system, and it has been a drawing card for a lot of folks. They have several active children in 4-H Club work.

Hamilton County: W. A. Squire, 10 miles southeast of Syracuse on the river road, sowed a brome and clover irrigated pasture last spring to supplement his pasture program for his beef herd.

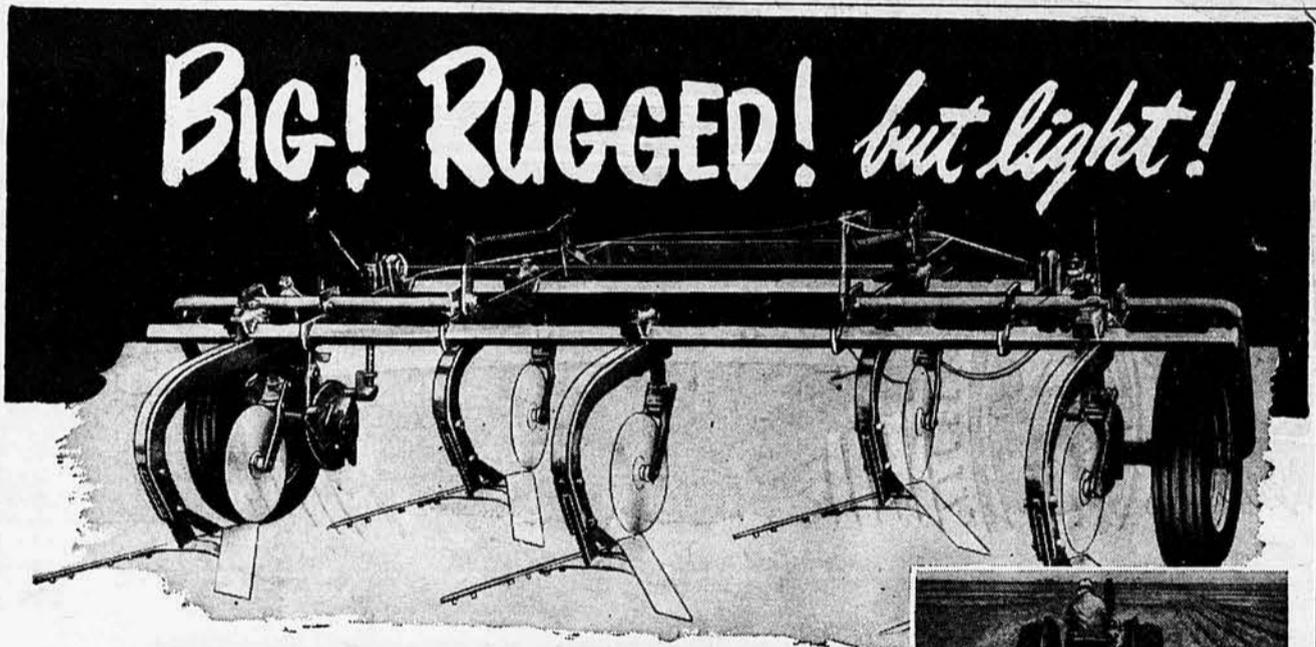
Hamilton County: R. E. Eddy, 2 miles east of Coolidge, who built a grade-A dairy barn last winter, recently began selling grade-A milk from his dairy herd.

Mitchell County: Alford Myers, Rolla, recommends creep-feeding for calves. For 3 years now in succession he has topped the calf market of his choice. His brother, Ivan, has started creep-feeding this year, intends to make it a permanent practice.

Clay County: Albert Burt, near Oak Hill, uses a vacuum cleaner to clean nitrogen fertilizer out of his drill. He gets good results, has for some time now.

Clay County: Audley Walker and Glenn Dittmar, Clay Center, are planning to irrigate corn this season. Their goal is 150 bushels per acre. Both had their soil tested, are balancing nutrients required for high yields.

Clay County: Farmers of this county had an opportunity to study soil conservation, pasture management, windbreaks and farmstead arrangement from the air May 18. Total of 300 folks (290 of them farmers and families) saw their own farms from the air, free of
(Continued on Page 17)



BIG! RUGGED! but light!

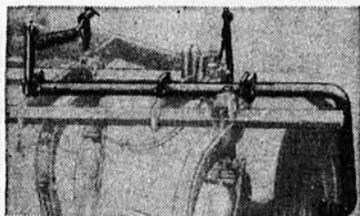
DEMPSTER

**NO. 100-12
NEW HEAVY DUTY 12 FT. CARRIER
WITH DOUBLE POWER LIFT**

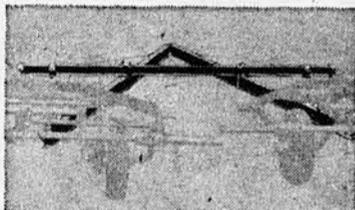
Greatest strength per weight ever built into a carrier — most versatile in its uses, greatest in its capacity — that's the new Dempster No. 100-12 Heavy Duty 12 ft. Carrier. It's the big, rugged, simplified, double tool bar, double power lift addition to the famous Dempster No. 100 Series.

DOES MORE WORK MORE WAYS!

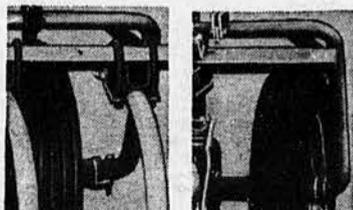
For deep sub-soiling, stubble mulch tillage, listing, cultivation, weed eradication, planting and fertilizer application, the Dempster No. 100-12 is the ideal carrier. Dempster attachments, specifically designed for each purpose, are available and can be quickly mounted on the double tool bars. The 12 ft. rear square bar permits the use of more tools, greater flexibility of spacing.



Double Power Lift engaging with the wheel hubs lifts or drops in half turn of wheel. Adjustable tension spring assists lifting, cushions return.

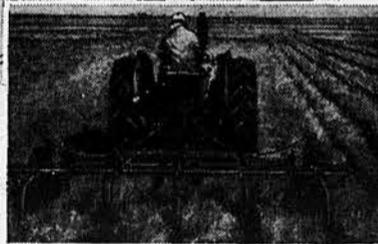


Available power is only limit to capacity. Double Hitch (to make 24' machine), with clevis adjustable to any drawbar, any tractor.



Reversible wheels permit variation to needs of attachments without affecting operation of double power lift, engaging hubs.

See Your Dempster Dealer or Write for Complete Illustrated Folder.



Ideal For Stubble Mulch Tillage
Dempster No. 100-12 is ideal stubble mulch tillage machine when equipped with Dempster 30" sweeps and rolling coulters. (See picture, top.)

Thank You!

Dear Editor: Thanks for that fine announcement of my book, "Tornadoes of the United States," in *Kansas Farmer* for April 18, 1953. . . . I am really amazed at the attention this book is getting. I hoped it would sell, but it looks now as if I am in danger of being the author of a "best seller."—S.D. Flora, Topeka.

charge. Flying Farmers, private flying service and the National Guard mustered 15 planes that flew from morning to 5:30 P. M. Local folks and groups—like the Clay Center Senior Chamber of Commerce, county Farm Bureau and local bulk gas and oil dealers—assisted with the air tour. Co-sponsors were the county Extension Council and Soil Conservation District.

Clay County: Listing on the contour met the test of recent heavy rains. Ross Blake, Oak Hill, listed sorghum on the contour and the listed rows carried water like terraces. But in one place he got in a hurry and listed up and down the hills and water did considerable erosion damage.

Elk County: J. B. Hunter, dairyman 2 miles south of Howard for 30 years, recently replaced a 3-stall pull-down type milking unit with a new pipeline system.

Elk County: Guy Denton, a mile south of Howard, says "brome really pays off," even last year during drouth weather. Brome was top-dressed with 100 pounds of ammonium nitrate. Result—250 pounds of seed and 1½ tons of hay. This year's stand was top-dressed with 200 and 300 pounds of ammonium nitrate. Mr. Denton hopes for much better results from such increased fertilizer application.

Elk County: Bob Smith, who farms 6 miles south of Howard, shows how easy it is to feed hay on pasture with his new home-made portable hayrack built on runners.

Was High Man In All Classes



Roger Adamson

A 16-year-old Future Farmer, Roger Adamson, Cherryvale, not only made a perfect score in poultry judging, but also was high man in agronomy, and high individual in the entire 4 phases of judging at the annual state high school Vocational Agriculture judging contests, Kansas State College, Manhattan, April 27-28. On top of all these honors, young Adamson won first place in the annual state FFA public speaking contest, and will represent the Kansas FFA association in the regional contest to be held in August at Columbia, Mo., when first-place winners from 13 states will compete for the right to represent their region at the national FFA contest this fall.

These Folks Won In Dairy Contest

Results in the Kansas Farmer Dairy Judging Contests in connection with spring dairy shows have been reported by the following:

Northeast Jersey Parish, Horton: Deane W. Thorson, Horton, 1st; T. M. Sylten, Hiawatha, 2nd; George Smith, Highland, 3rd; Mrs. George Smith, Highland, 4th; Fred Smith, Highland, 5th.

North Central Jersey Parish, Abilene: David Schurle, Manhattan, 1st;

Thank You

We enjoy the Kansas Farmer very much. We often refer to it as a source of useful information.—Mrs. R. O. Elting, Ness Co.

Fullis, Chetopa, 2nd; Will Lavellan, Oswego, 3rd; Herman Bonine, Thayer, 4th.

East Central Jersey Parish, Garnett: A. H. Knoepfel, Colony, 1st; Kenneth C. Corbett, Ottawa, 2nd; J. E. Berry, Ottawa, 3rd; A. E. Knoepfel, Colony, 4th; Frances Johnson, Lyndon, 5th.

Kansans Hosts to Foreign Rural Youth

Eleven rural young people from overseas are living in Kansas.

Latest to arrive are Sigrid Persson from Sweden and Jose Matafome from Portugal. Miss Persson will live on 3 farms before leaving Kansas on August 1. Her hosts are the Fred H. Tornedens, Richland; the Ernest Suderman family, Hillsboro, and the Walter Schnelles, Mahaska. The Paul Whitehair family of Abilene, and the T. R. Gooch family of Hugoton are hosts to Jose Matafome during his 2-month stay in the state. Miss Persson is a graduate of the

Thank You

We enjoy Kansas Farmer very much and find many useful helps in it.—Mrs. Jack Steiner, Lebanon, Kan.

Swedish Royal College of Agriculture, is an agronomist with the Federation of Swedish Farmers' Association. Matafome lives on his family's 2,500-acre farm where 500 acres are irrigated. He returned to the farm after receiving a law degree at the University of Coimbra and practicing in Lisbon for 4 years.

Honor 4-H Leader

A Riley county 4-H Club leader, Willis Griffing, was honored on a radio program, "A Place in the Sun for 4-H'ers," at St. Joseph, Mo., recently. Mr. Griffing for 20 years has been leader of the Strong 4-H Club.

3 GOOCH Feeder-Proved PROGRAMS

Gooch Your CALVES on Creep "GOOCHIES"

Produce Fatter, Heavier, More Profitable Calves

Today, more and more feeders are proving for themselves what experiment station tests have long shown: that creep-feeding calves is the most economical and profitable way to get calves started; it gives you all these advantages:

- More Pounds to Sell**—Creep-fed calves usually weigh 100 to 150 lbs. more at weaning.
- Higher Prices per Cwt.**—averaging nearly \$3.00 more per cwt. than non-creep-fed calves, over a 14-year period.
- Three Way Calves**—Fat and husky enough for feeders, packers, stockers. Three competitive buyers.
- Cows in Better Condition.** Tests show that cows nursing creep-fed calves are 35 to 40 lbs. heavier at weaning.

MANAGEMENT HINTS

Creep feed all calves from the time they are born. Self feed from feeders located near water, shade or other "loafing places." Never allow feeders to become empty—keep feed fresh!

GOOCH'S BEST Creep "GOOCHIES" is a highly palatable, well-balanced feed containing all essential ingredients for fast, economical gains. It is the only creep feed that contains GBA-50 (Gooch's Bacteria Activator—stimulates rumen roughage-digesting bacteria) and "Sweet-meal," a special high sugar dehydrated sorghum for extra palatability. It also contains blended proteins, carbohydrates, Vitamins A & D, regular minerals and trace minerals—to balance milk and grass. With Creep "Goochies" and good management, your calves should make average daily gains of 2½ lbs.—weigh up to 600 lbs. at weaning.

Gooch Your Grass Cattle on "HEP"

Turn Your Pasture Into a Feed-Lot Early!

Getting cattle to market early—with the best possible finish—and at lowest possible cost is the surest way of getting the most profit from your grass cattle. Records show that cattle fed on grass are always fatter at any given time than straight grassers. During early grazing, cattle gain rapidly, but don't firm up until late in the summer. Supplementing grass with GOOCH'S BEST High Energy Protein Feed, HEP, gives you all of these advantages:

- Pushes for Early Market.** Experience shows that even 10 or 20 days earlier marketing can bring higher selling prices.
- Gets 2-Way Cattle.** Fat enough for the packer—good enough for the feeder.
- Adds Weight—Ups Grade.** Extra feed fed on grass increases gain, adds fat, often ups grade to "good" or better!

MANAGEMENT HINTS

Most feeders GOOCH their cattle on grass with HEP as follows:

Yearlings 6 to 8 lbs. per head per day
2-Year-Olds 4 to 6 lbs. per head per day
3-Year-Olds 3 to 5 lbs. per head per day

About a month to six weeks before they go to market, many feed them all they will clean up. GOOCH'S BEST "HEP" is a high carbohydrate (high grain) feed balanced with enough protein to meet nutrient deficiencies of grass during the growing season. Fortified with calcium, phosphorus and trace minerals, it is designed and feeder-proved specifically as a supplement to grass. HEP also contains GBA-50, Gooch's exclusive bacteria activator that stimulates rumen-roughage-digesting bacteria.

Gooch Your Sale & Show Cattle on "OPREMA"

Get Fast, Efficient, High Quality Finish!

In livestock shows across the nation, cattlemen are demonstrating how good management and GOOCH'S BEST Oprema, the complete fattening and fitting feed, can produce prize-winning cattle with the bloom, glossy hair coats, smoothness and finish of champions.

For example, at the 1953 Oklahoma Junior Livestock Show, both the Grand Champion Steer (shown above) and the Reserve Grand Champion Steer were finished on "Oprema"!

MANAGEMENT HINTS

Start by providing all the good quality roughage cattle will consume plus about 1 lb. of Oprema per animal per day.

Increase amount of Oprema gradually until cattle are on full feed—all they will clean up in about 30 minutes, twice a day. Cattle should consume daily slightly more than 2 lbs. of Oprema per 100 lbs. of live weight. A 500 lb. calf should be eating 11 to 12 pounds of Oprema when on full feed each day.

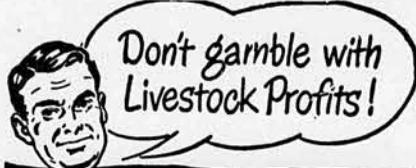
During hot weather, show cattle do best if confined to a cool barn during the day and turned out into a lot at night. Darken windows with a water paint—preferably blue. Modern fly control procedures should be followed during this season.

GOOCH'S BEST Oprema is a highly palatable, carefully balanced fitting ration. With good roughage, it gives your cattle all the high energy fattening ingredients plus proteins, vitamins, calcium, phosphorus and trace minerals needed for fast, smooth profitable gains. Fully fortified with GBA-50 to stimulate rumen digestion.

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Two New Roses Get Highest Honor; Will Be Ready for You This Fall

By WILLIAM G. AMSTEIN, Kansas State College

LILIBET AND MOJAVE are the 2 new All-America roses named to receive this award in 1954. This is the fifteenth year for All-America rose selections. To receive recognition these roses are tested in 20 locations in competition with other introductions.

Several thousand seedlings were included in these rose-breeding programs before these 2 were selected. A period of years in testing also was required to be certain of their true place.

These 2 new holders of the horticultural award are the 38th and 39th varieties to be named to the "Royal Family of Roses" since the start of All-America rose selections 15 years ago. First announcement of the All-America award was made in 1950, followed by an annual award each year since, with the exception of 1951. That year, none of the roses entered in the trials was able to meet the high standards set by the AARS. Instead of announcing a winner, the national rose jury picked the 10 best All-America roses named up to that time.

All-America title is highest honor awarded to roses in this country. The 2 winners were placed under test in 1951 in competition with most of the world's other important new varieties.

Plants Carefully Tested

During the 2-year testing period, each plant was carefully checked on 13 different points under a uniform grading system. These include hardiness, disease resistance, fragrance, flower form, color, and other characteristics which were closely watched and scored by qualified judges. At end of the testing period, total scores were submitted to the national rose jury which compiled data from all 22 trial gardens.

In its 15 years, All-America rose selections have made marked progress toward its goals of creating higher standards for roses in general, and safeguarding the public by developing varieties which will produce outstanding results.

Lilibet, is an attractive dawn pink floribunda which commemorates the childhood nickname of Queen Elizabeth II. Soft pink masses of flowers combined with vigorous, well-formed foliage, make Lilibet a model rose.

At a distance, Lilibet appears as a uniform rose pink, but closer inspection reveals shadings of several clear pink tones. Before the calyx breaks the buds are Empire red, but rapidly

turn to pink as the petals unfold. The plant blooms continually. Buds are uniquely high centered and symmetrical, opening into well-formed blooms.

Occasionally flowers are borne singly, but the characteristic "cluster bouquets" of the floribunda are the major feature. The fragrance is spicy and pronounced.

Lilibet has fine leathery foliage with better than average disease resistance. Leaves are bronze green when new, turning to a deep glossy green.

Mojave derives its name from the rich bright colors of the Painted Desert. Dominating color of this hybrid tea is a glowing apricot-orange which is high-centered with warm tints of nasturtium red, scarlet and vermillion.

Mojave Is Fine Rose

The richly-colored bud of Mojave is long and slender, producing a large double flower of about 25 petals which have a pleasant fragrance. Nearly every bloom is borne singly on a long straight stem, making it ideal for cutting. The plant is tall and upright, covered with large glossy, handsome foliage. True orange-colored roses are very rare indeed and Mojave is one of the finest orange-colored garden roses offered the public.

Both of these new All-America roses will be available to the public for planting this fall. They may be obtained either next fall or spring from most nurserymen. The supply during the first year is limited.

Your garden club or group may be interested in a new 16m.m. sound color motion picture, "All-America Roses" now being distributed upon request to garden organizations thruout the country. The film, 13½ minutes in length, tells the story of All-America rose selections and takes the viewer across the country—from New England to California, into the nation's most beautiful gardens.

Thru modern color photography the famous AARS testing stations are brought to life as the world's finest roses are scored and judged during the 2-year trials. Dazzling displays of hybrid teas, floribundas, climbers and tree roses are climaxed only by the parade of the "Queens" of flowers, the All-America winners.

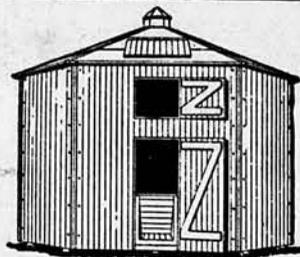
"All-America Roses," 16m.m. sound color film is distributed thru Films of the Nations, 62 West 45th Street, New York City without charge.

IT'S A "NO MONEY" CALF AUCTION



WHAT'S BEHIND SUCH undivided attention and interest shown here? It's the annual "No Money" Calf Auction at CK Ranch, Brookville. The 1953 event to be held July 25. J. J. Vanier, owner, is donating 40 top-quality calves for the auction to stimulate interest in good cattle breeding practices among farm youth. The Gooch Red Circle "No Money" Auction is a special event of the annual CK Ranch Field Day. Many of last year's winners, shown above, have won high awards in recent Midwest livestock shows.

STURDY Economy WOOD GRAIN BINS

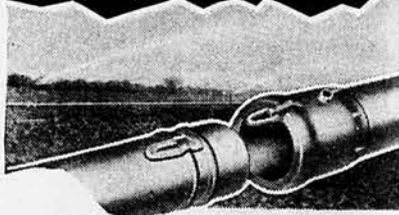


Keep grain in perfect condition for top prices. Store it in economical, portable, strong Wood Grain Bins. Won't leak, bulge or burst. Easy to erect and dismantle. Easy to fill and unload. Wood construction gives grain its natural curing advantages. Reseal your 1952 corn and wheat and store in an Economy Grain Bin—earn 13c per bu. for corn and 15c for wheat storage to apply on purchase of bin. These bins can qualify for a Commodity Credit facility loan.

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300 Bu. to 2,700 Bu. Capacities
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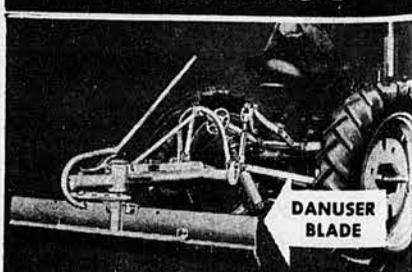
This lightweight, easily-assembled irrigation pipe transports water to fields, orchards and pastures quickly and economically... reclaims poor acres, makes all your land more productive. Flexible, pressure-tight, coupling makes pipe adaptable to rolling ground without use of elbows or tees. This reduces friction-loss, saves wear on pumping equipment. Aluminum or Galvanized in 3, 4, 5, 6 or 8-inch diam. Write for FREE booklet and name of nearest dealer.

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Against Poultry WORMS

Use the Flock WORMER



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(Pronounced WORM-ALL)

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Contains Exclusive Drug
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Won't retard growth or knock egg production. Worm free chickens often grow faster, lay more eggs, make more money for you. Use WORMAL powder for feed, or WORMAL tablets for individual worming.

When you need poultry medicines, ask for

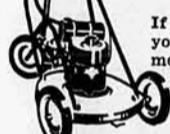


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WORK AT
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MOVE MORE DIRT with the soil mover front pick-up—dump backward without stopping. Uses tractor hydraulic system. There's a SOIL MOVER designed for your tractor. From 1 to 3 1/2 cu. yds. capacity—Automatic rear-leveling gate. 7 models to choose from. A proven scraper—built since 1935.

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LEVEL OFF!

All fields need leveling regardless. Eliminate potholes—dead furrows, etc. Adjustable rear axle floats—dry or wet fields. 24 ft. long—8 or 10 ft. bucket hydraulically operated. Pulls in 3rd gear with ordinary farm tractor. Heavy pipe frame—7 years field tested. Buy a real leveller—THE SOILEVLER. Write for free literature and name of your dealer. CONTINENTAL EQUIPMENT CO. COLUMBUS, NEBRASKA

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COLUMBUS, NEBR.

MARKETING VIEWPOINT

By LEONARD W. SCHRUBEN

1. Several of us have white corn on hand. What are prospects for further price advances, and when will these price changes come?
2. What is the protein meal situation? Is this the time to buy or is it still a week at a time?—M. B. C.

White corn prices are expected to advance slightly between now and mid-July. The recent price advances relative to yellow corn indicates processors are still having difficulty obtaining adequate white corn supplies. Prices for white corn change very rapidly, and a drop of as much as 50 cents a week is rather common. So be sure to watch the market.

Considerable amounts of white corn are used by food processors. In recent years they have had to pay considerable premiums to obtain sufficient supplies. Premiums for white corn have been rather common since 1933, with the development of yellow hybrids. In recent years plant breeders have improved the yield of white corn but premiums continue to be paid because most of the corn planted in the U. S. is of yellow varieties.

As for your second question regarding protein meal, there does not seem to be any good reason at the moment why livestock feeders should buy large supplies of protein meal as far as expected price movements are concerned. Altho cottonseed meal and soybean meal prices are at relatively low levels, the odds of price increases during the next 2 months are only about 2 out of 10. The odds of a price decline are also about that same proportion, so you can see the odds favor steady protein meal prices for the next 45 to 60 days.

Farm Bureau Holds Dairy Meeting

How to solve problems facing a changing U. S. dairy industry highlighted the annual state dairy meeting of the Kansas Farm Bureau, at Topeka, June 8 and 9. About 300 persons heard state and out-of-state speakers comment on new problems arising, and what is being done to solve them.

E. W. Tiedeman, director of the dairy commodity department of the American Farm Bureau Federation, was principal speaker at the banquet held Monday evening. He outlined the AFBF progress program for the dairy industry, told how it will work. Main parts of the program are development of an effective sales promotion program; finding ways to meet the market of folks who want to buy real dairy products; campaign for U. S. publicity on a well-balanced diet, with plenty of dairy foods included.

At an afternoon panel meeting, these suggestions came up for solving dairy problems: better advertising program on value of dairy products; more equitable pricing of milk; uniform grade-A milk requirements; meeting needs of increased population (there are 7,000 more folks at U. S. breakfast tables each morning!); expanded research; co-operation between production and marketing phases of dairy industry; improvement of interstate shipments of dairy products; better quality dairy produced for markets; more farmers should use more dairy products; improved merchandising with dispensing machines and new containers; more butterfat content in milk.

Dwight Hull, dairy column writer for *Kansas Farmer*, was one of the panel speakers.

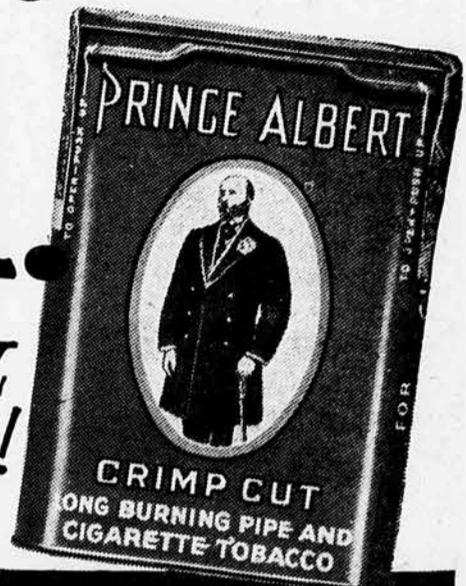
Thank You

I surely like *Kansas Farmer*, it has so many good things in it.—Mrs. H. W. Fair, Sumner Co.

Take it easy..Smoke

P.A.

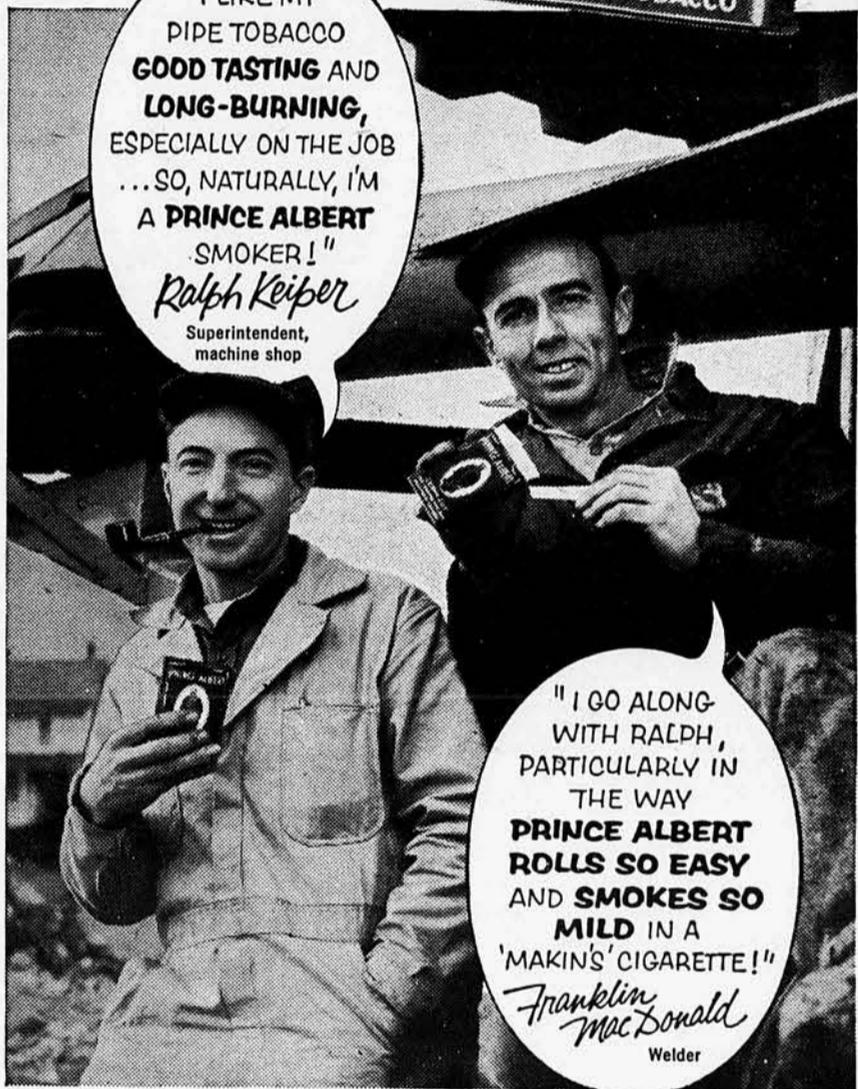
mild, tasty,
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PIPE TOBACCO
GOOD TASTING AND
LONG-BURNING,
ESPECIALLY ON THE JOB
...SO, NATURALLY, I'M
A PRINCE ALBERT
SMOKER!"

Ralph Keiper

Superintendent,
machine shop



"I GO ALONG
WITH RALPH,
PARTICULARLY IN
THE WAY
PRINCE ALBERT
ROLLS SO EASY
AND SMOKES SO
MILD IN A
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The MECHANICAL Farmer

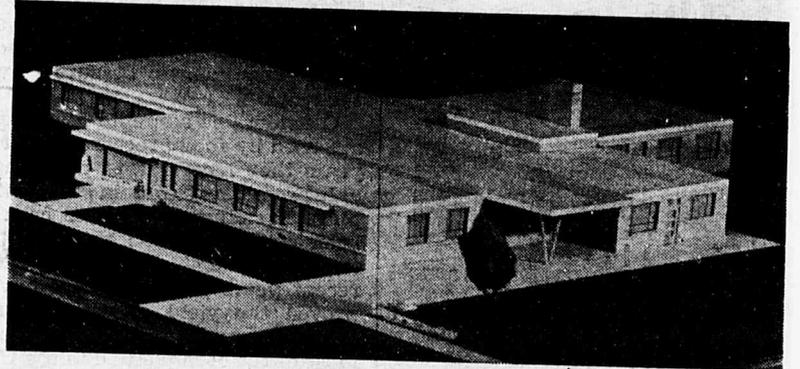
SHOWS HOW TO DO IT
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Kansas Farm Home and Family

By FLORENCE MCKINNEY



THRIFT SHOP makes \$100 a week, which adds materially to hospital fund. Customer at left, Mrs. K. C. Knudsen, Winchester. Behind the counter, Mrs. Neel Fulton, Winchester, and Mrs. Fred Barnard, Nortonville.



ARCHITECT'S SCALE DRAWING of Jefferson County Memorial Hospital. Because so much labor and some materials are donated, cost will be \$125,000.

Their Own Hands—Their Own Money . . .

Build This Hospital

IT IS A REAL STORY when folks get together and with their own hands and their own money, build a hospital. That's not the usual procedure these days, for it's customary to depend on Government money of one kind or another.

For several years folks in Jefferson county have wanted a hospital and today it's on its way. Drive to the northwest edge of the little town of Winchester any weekday and you will see farmers and townsmen contributing their time and labor in its construction. Already the foundation is completed and soon walls will rise. For part of the work, skilled labor will be employed.

Altho Jefferson county now has 6 active doctors, there has been no hospital in the county. These doctors, W. A. Madison of Nortonville, Donald C. Niederluecke of Valley Falls, Robert R. Snook of McLouth, Delos Stephens and Claude E. Price of Oskaloosa, C. J. Bliss of Perry and F. W. Huston of Winchester, have used hospitals in surrounding areas when space was available. In a random 15-day period, Doctor Huston made 16 trips to hospitals in Leavenworth and 3 to Topeka. One day he made 4 trips to a Leavenworth hospital and delivered a baby on each trip. The need is great for a hospital in Jefferson county.

When accidents occur, and they do as a good many folks know, it's bad enough with a nearby hospital, worse when the nearest is in another county.

Folks in the county have it in their hearts to build this hospital to cost \$125,000. How do they finance such an enterprise without a tax on its citizens? It took 5 years of discussion and planning. They organized, elected an official board with committees to perform specific functions. One of the most important, of course, was the finance committee, which went about the business of asking for contributions from folks all over the county and adjoining areas. Pledges and cash came in from \$12,000 on down. Pioneer Dr. M. S. McCreight, of Oskaloosa, who spent his lifetime in medicine and surgery in Jefferson county and performed appendectomies on more than one kitchen table, is interested in the new hospital. Several other people who have grown up in the community are now taking the opportunity to return some of the money they earned to benefit their community in the future.

Ross Keys, president of the board, a farmer who lives between Winchester and Valley Falls, says there will be a memorial in the new hospital to commemorate John Steuart Curry, the famed Kansas artist, whose murals decorate the walls of the State House in Topeka. "Johnnie," as they call him all over that area, was born on a farm nearby and is buried in a little cemetery a stone's throw from the hospital.

Hospital board members hope his friends will add sufficient money to the fund to cover the cost of furnishing, equipping and decorating the entry and reception room. An idea that may turn into reality is a dream that the reception room may be paneled with walnut from the trees on the Curry farm. Several Curry cousins farm in the community and they hope to get some of his original [Continued on Page 21]



HOSPITAL BOARD MEMBERS stand on site of the new building. Front row, left to right, Mrs. Amon Ashworth, Oskaloosa; Mrs. Victor Heibsch, Winchester. Back, Bill Leech, Oskaloosa; John O'Neill, Winchester; Neil Curry, Valley Falls; Ross Keys, Valley Falls. Members not present, Mrs. E. E. Ferguson, Valley Falls; Homer Weishaar, Nortonville; Bus Robertson, Valley Falls. Workers in background, Henry Wray, John Heibsch, Barney Pospisil, A. L. Prentice.



DINNER'S ABOUT READY! Preparing dinner for workmen in basement of nearby church are beginning left, Mrs. Paul Hensleigh, Winchester; Mrs. Paul Gibson, Winchester, and Mary Jane Curry, Valley Falls.

pictures for the room. Neil Curry, a cousin, lives near the John Steuart Curry home and is a member of the board. The artist's mother, Mrs. Margaret Curry, now lives in Phoenix, Ariz., and is interested in the memorial to her son.

Women all over Jefferson county are giving a tremendous impetus toward their dream for this fine hospital. Mrs. Amon Ashworth, a farm woman living near Oskaloosa, is not only a board member, but a member of the finance committee and actually solicited funds. Mrs. Victor Heibsch, assistant Winchester postmistress, also is secretary of the official board and chairman of the Thrift Shop committee.

And the Thrift Shop is a story in itself, for each week, women in charge make an average profit of \$100, which the year around is making an inroad on the total hospital cost. They have made as much as \$180 and a poor week, in bad weather, nets \$50. On this committee, Mrs. Heibsch is assisted by Mrs. Ashworth and Mrs. Ross Keys. The shop is operated in a little store on the main street of Winchester, where a placard in the window tells the whole heart-warming story, "We Need a Hos-

pital." Fifteen women's clubs, home demonstration units, social clubs, missionary societies, auxiliaries from all over the county have taken up the challenge. Each club president makes arrangements for her club in turn to take charge of the Thrift Shop for a week at a time.

Almost anything of use in and around a home can be seen inside the Thrift Shop and all is donated; clothing, shoes, furniture, radios, kitchen utensils, dress patterns, books, needlework, even use of the building. Certain clubs make quilts and donate them to the cause to be sold in the little shop. The committee is now taking subscriptions for Topeka, Leavenworth and Atchison newspapers and receives the commission on sales.

Food Takes Over

They hold a soft-drink and food concession at the softball park and take up an offering instead of the usual admission charge. On Saturdays, home-cooked food takes over in the shop. Women all round bring in pies, home-canned fruits, vegetables and preserves, dressed chickens, cakes and rolls and by closing time in late afternoon they're sold out.

"Women singly and in groups have been indispensable from every viewpoint," says Mrs. Keys. They even helped solicit funds, they have carried the burden of publicity thru newspapers in Jefferson and nearby counties from the start. Every day a sizable crew of men work on the hospital building, women volunteers serve them the noon meal in the basement of nearby Reformed Presbyterian Church. This is a real enterprise when 30 men, representing 3 to 5 towns in the area, turn out on a good day to work on the building.

Generous People Give

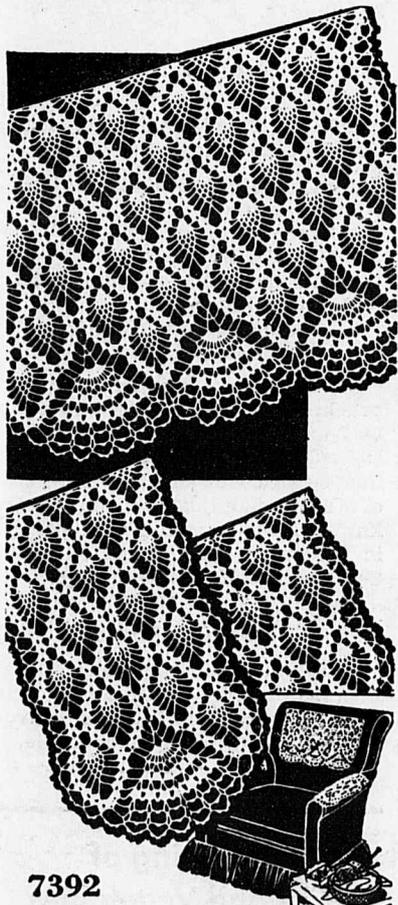
Generous people all over the area are giving of their time, energy and money to make this long-wanted and much-needed hospital a reality. Roy Baker, a Valley Falls road contractor, is giving the aggregate for the concrete and hauls it to the building site. Sale of junk brought in \$200. This unique idea came from Boyle Boosters 4-H Club.

In addition to Ross Keys, Mrs. Ashworth and Mrs. Heibsch, other board members are Neil Curry, Winchester, vice-president; Homer Sloop, Valley Falls, treasurer; Mrs. Earl Ferguson, Valley Falls; Bill Leech, Oskaloosa, attorney for the board; Homer Weishaar, Nortonville; Bus Robertson, Valley Falls; John O'Neill, Winchester. Regular monthly meetings are conducted.

Farmers Build Foundation

When farmers are not planting corn or harvesting wheat, they'll be found pouring cement for the foundation or laying bricks or pounding with hammer and nails. Even so, they have need for more contributions in cash, more donations to the Thrift Shop and more labor. But at last the Jefferson County Memorial Hospital is becoming a reality and for 5 years it has taken the devotion of many fine folks who wanted to help themselves.

Pineapple Chair-set



7392

A medley of pineapples. Chair-back crocheted in one piece, each arm-rest one piece. Your favorite pineapple design, easy to crochet. Pattern 7392 includes directions.

Pattern is 25 cents. Address Needlework Editor, Kansas Farmer, Topeka. Add 5 cents if you wish first-class mailing.

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GAS RANGE	4 Burner Top; Big Oven, Broiler 89.95 Value	59.95
CHROME DINETTE SET	5-Piece Deluxe Regular 99.95 Quality	68.88
CABINET SINK	42" Steel with Hardware 84.50 Value	69.95
36" GAS RANGE	Oven Window Style Compare at 139.95	89.95

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ORDER FROM YOUR NEAREST GAMBLE STORE

KNOW YOUR BIRDS . . .

By L. B. CARSON

The Screech Owl

*On darkest night, or moonlit scene
His quavering call comes like a
dream . . .*

*It means no harm to any man,
But if a mouse, you'd better scam.*

ONE OF MY BOYHOOD memories brings the screech owl to mind. Picture a freckled-faced, barefooted farm boy strolling along a country road at dusk enjoying the cool breezes and thinking about the old swimming hole, or perhaps just dreaming . . . no worries, not a care in the world. Then WHAM, something screamed just over my head.

To say my hair stood on end, is an understatement. Frankly I was petrified. The second attack brought composure for I saw the screech owl which was only defending its young. They were familiar sights. In fact, I knew where they had nested in the old maple tree. I had heard nothing of the approach for the owl flies silently, but I learned more about the habits of the screech owl from this encounter.

You can't increase the truth by stretching it.

This is the smallest of the eared owls and can be found in 2 color phases, reddish brown and gray. Both colors are found in the same brood and there seems to be no scientific reason for the difference. He spends the day sleeping in some woodpecker hole or in dense cover where he is protected from attacks of other birds. All birds seem to think he is their enemy and not without some reason, for birds are a part of his diet. Insects, mice, crayfish and snakes are eaten with equal relish and like most birds, he feeds on whatever he finds available.

This bird nests in holes, either natural cavities in trees or the former home of one of the larger woodpeckers. Bird boxes or holes in buildings are not overlooked. Whatever material is present is used for the nest and most woodpecker holes have sawdust in the bottom. The usual clutch contains 4 or 5 white eggs which hatch white young. This plumage is soon replaced by the regular color phases.

After leaving the nest, the young soon are able to fly readily and join their parents in pursuit of food. Parents defend the young and will attack



any person who approaches too near the nesting tree.

This owl has many enemies which keep him alert and many are eaten by larger owls which also hunt at night and take advantage of his nocturnal habits. No wonder he has such a wailing cry for he enjoys little security, either day or night.

There are some 15 geographic forms of this screech owl for he covers a wide range. One of the largest is Kennicott's screech owl, a large dark bird which resides on the northwest coast from Washington to Sitka. Western types do not have the 2 color phases found in the eastern birds.

To the superstitious, the notes of this bird are considered an omen of dire things to come and some even use charms to counteract the supposed evil. Alexander Wetmore in his excellent story, "Some Owl Personalities," published in volume 2 of the National Geographic Society's "Book of Birds," mentions a few of the charms used, such as "turning the left shoe upside down, pull the left trouser pocket inside out, or cast a bit of iron or a handful of salt in the fire." These are supposed to break the spell and you can go merrily on your way . . . until you hear another screech owl, then repeat as directed.

It's easy to recognize an egotist by that gleam in the I.

Tree surgeons armed with a trowel and a bucket of cement might help your tree, but they do not help the chosen resting place of this interesting bird. We miss his voice floating in on the evening breeze.

Our Readers Want to Know

I enjoy your articles on birds, also the answers to questions asked by readers. I would like to know the names of the 2 birds I shall describe.

1. The male is smoky-black above with copper-colored breast. The female is light gray with pale yellow breast. They have long tails and slender bodies. I have seen these birds in summer on the lawn, often over a honeysuckle vine.

2. This bird is small with roundish body. I think the color is a deep, shiny greenish-blue, tho on one occasion it appeared more green than blue. I saw the bird last summer along a country road perched on a weed stem.—Juanita Jackson.

Your questions are a little difficult to answer, for you did not indicate the size of the first bird, color of the feet and bill, whether he was crested or if wing bars were present. Neither did you mention any head markings, such as a line over the eye. If these birds were rather noisy and show a conspicuous crest, they probably are crested flycatchers. They are insect eaters and honeysuckle vines attract many insects, which makes a good spot for this bird.

Your small greenish-blue bird could be a painted bunting. When the male of this species develops his full plu-

mage he is either red, blue or green depending on how you see him for he shows patches of each color. The male in his first spring plumage shows a blue head and the rest of his plumage green. Females are our only green sparrow-like birds. You might have seen 2 birds, one an indigo bunting male which would look blue, the other a painted bunting which would be green. These 2 species are almost the same size, the indigo bunting about 5½ inches long, the painted bunting 5¼ inches long.

How can one prevent sparrows from bothering the little wrens?—Mrs. L. A. Shafer.

Sparrows bother your wrens because they are looking for nesting boxes and a wren house seems a likely spot for a home. The fact that the entrance is too small for sparrows does not keep them from trying to nest there. If your wren house is properly constructed, sparrows will not be too bothersome to wrens. The food and water which you provide for the birds have made a good habitat for sparrows. Try cutting off the food for a time and sparrows will not be so numerous.

I live in the country which could become a bird sanctuary. This morning

as I ate breakfast I saw 6 quails, a pair of killdeers, robins, some rabbits and several other small birds. I have planted several trees and shrubs for birds. I want to know how to keep out stray cats. I plan to get a few sheep to keep down noxious weeds.

How can I build a real bird sanctuary near my house? What does it cost to be an Audubon member and what are requirements?—Mrs. Grace K. Surber.

Your letter indicates you already may have a bird sanctuary. A fence of multiflora rose, a few mulberry trees, some hackberry trees with wild grapes, sumacs, wild cherries and persimmons should bring your home into a real bird haven. Sheep clean out fence corners but leave little food or cover for friendly birds.

Stray cats always are a menace to birds. A cat-proof fence is difficult to construct and the expense is not justified. We know one farmer who has a sizable dog which has been trained to chase cats.

It is easy to become an Audubon member. Send \$5 to The National Audubon Society, 1130 Fifth Avenue, New York 28, N. Y. They will be glad to enroll you as a member.

Four Girls Win Scholarships

Four Kansas State College students, majoring in Extension education have been awarded scholarships for the 1953-54 school year, according to Georgiana Smurthwaite, state home demonstration leader.

Barbara Buffington, Saffordville, received the Kansas Home Demonstration Agents' Association scholarship of \$75. Three Kansas Home Demonstration Council scholarships of \$200 each have been granted to Nancy Ann West, Nekoma; Donna Childs, Belleville, and Joan Engle, Abilene.

Scholarships are available to junior or senior students majoring in Extension and planning to be home demonstration agents. Applications for scholarships are made thru the state home demonstration leader's office in Manhattan. Mrs. J. C. McKinney, Hartford, is chairman of the scholarship committee.

Broiled Icing

5 tablespoons brown sugar
3 tablespoons melted butter
2 tablespoons cream
½ cup nuts, chopped

Mix all ingredients, spread on warm cake. Put under broiler until icing bubbles.—By Mrs. Phil Bentz, Overbrook.

So You're Canning

That's the name of a new booklet now available for those interested in canning all the fruits, tomatoes, jellies, preserves, jams and pickles. Time tables, recipes and complete directions are included. Write for this free booklet to The Home Service Editor, *Kansas Farmer*, Topeka, Kan. Ask for "So You're Canning."

Rancho Salad Dressing

We're enthusiastic about this dressing. If cream is fresh, it will keep about a week in refrigerator. It has wonderful flavor, is one of the easiest and quickest to make.

1 cup fresh, sour cream
2 small, green onions, tops included, chopped fine
2 tablespoons mayonnaise
2 or 3 tablespoons lemon juice
½ cup Roquefort or blue cheese, crumbled
Salt and pepper to taste

Combine all ingredients in jar and allow to "ripen" for several hours before serving. Serve on lettuce or other green leafy salad greens, minus onions, of course.

Do You Have A Question About Birds?

If you have a question about the birds, write us. All questions will be given to L. B. Carson, our writer on "Know Your Birds," and his answers will appear in a future issue. Whether you are a birder or an amateur, your questions will be given replies. Write to Florence McKinney, Home Editor, *Kansas Farmer*, Topeka, Kan.

Oatmeal Cookies

½ cup fat
1 cup brown sugar
1 cup granulated sugar
2 eggs
1 teaspoon vanilla
1½ cups flour
3 cups rolled oats
1 teaspoon salt
½ teaspoon soda
½ cup nut meats, chopped

Cream the fat, gradually add brown sugar, the granulated sugar and the vanilla. Sift the dry ingredients together. Beat the eggs and add alternately with dry ingredients. Add the nuts. Mix well. Form into long roll and chill thoroly. Slice one-fourth inch thick and bake on ungreased cookie sheet in a moderate oven (350 degrees) about 10 minutes or until done.

Hot Milk Sponge Cake

A grand cake for berry season and it can be made in cupcake style, too.

2 eggs
1 cup sugar
1 cup cake flour
2 teaspoons baking powder
½ cup milk
2 tablespoons butter
1 teaspoon vanilla

Beat eggs, add sugar and beat until light. Sift flour and baking powder and add to egg mixture. Scald milk, melt butter in it and add. Beat thoroly. Add vanilla and mix. Pour into a greased loaf pan (8 by 8 by 2 inches) and bake in moderate oven (350°) for 35 minutes.

Deep Dish Peach Pie

Tapioca is used as thickening in this peach pie. The juice is rich, clear and the right consistency.

4 tablespoons minute tapioca
¾ cup sugar
¼ teaspoon salt
⅛ teaspoon mace
4 cups drained sliced peaches
1¼ cups peach juice
2 tablespoons lemon juice
1 tablespoon butter

Mix tapioca, sugar, salt, mace, peaches and juices. Turn into a 9 by 9 by 2-inch baking dish; dot with butter. Roll pastry for one-crust pie into 11-inch square. Cut slits to permit escape of steam and adjust, opening slits with knife. Press pastry to rim of dish. Bake in hot oven (425°) about 45 minutes. Serve warm. Makes 8 servings.

Spring Tonic

Sulphur and molasses is the dose they used to try. But there's nothing as effective As a big, fresh rhubarb pie. —Ida M. Yoder.

Home Freezing of Fruits and Vegetables

Here is the complete up-to-date leaflet on home freezing. Covers the job from start to finish. To get this free USDA bulletin, address Farm and Home Service Editor, *Kansas Farmer*, Topeka. Ask for "Home Freezing of Fruits and Vegetables."

Your Pattern Page



4839
SIZES
12-20

4839—Keep cool in this easy to make wrap-around. Bind it in contrast color. Opens flat to iron. Misses' sizes 12 to 20. Size 16 takes 4 1/8 yards 35-inch fabric.

4743—Flattering scoop-neck sundress is slim suit-dress with matching jacket. Half sizes 14 1/2 to 24 1/2. Size 16 1/2 takes 4 5/8 yards 39-inch fabrics; 7/8 yard contrast.

4794—Juniors, whip up this dress in jiffy time. Opens flat to iron. Wear it everywhere. Junior sizes 11 to 17. Size 13 takes 4 3/8 yards 35-inch fabric.

9361—Attractive new casual with deep yoke, big pockets. Use any fabric. Misses' sizes 12 to 20 and 30 to 42. Size 16 takes 4 3/8 yards 35-inch fabric.



4743
SIZES
14 1/2-24 1/2

4794
SIZES
11-17



4774
SIZES
12-20
30-42

9289—New dirndl sundress. For dress-up, button on big scalloped collar. Child's sizes 2 to 10. Size 6 sundress takes 1 5/8 yards 35-inch fabric; collar 5/8 yard.

4774—Choose this cool and flattering dress. V-slashed neckline back and front. Perfect for every occasion. Misses' sizes 12 to 20 and 30 to 42. Size 16 takes 4 3/8 yards 35-inch fabric.



9289
SIZES
2-10



9361
SIZES
12-20
30-42

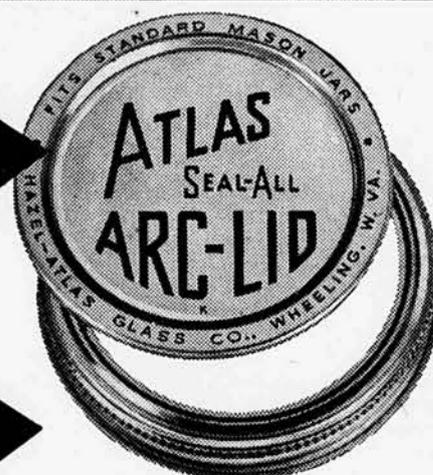
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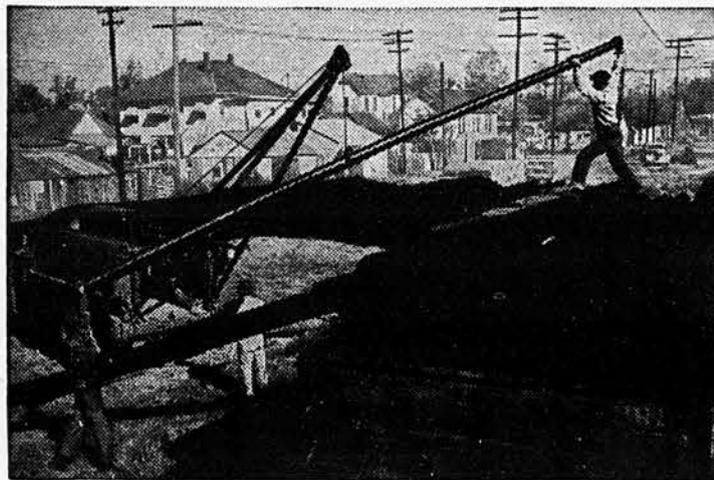


HAZEL-ATLAS GLASS COMPANY
Wheeling, West Va.

Read the Ads in This Issue

There's a world of helpful information in the scores of advertisements in this particular issue of the Kansas Farmer. Read them carefully. If you want to find out more about the articles described, don't hesitate to write the advertiser.

These Trees Will Grow Farm Telephones



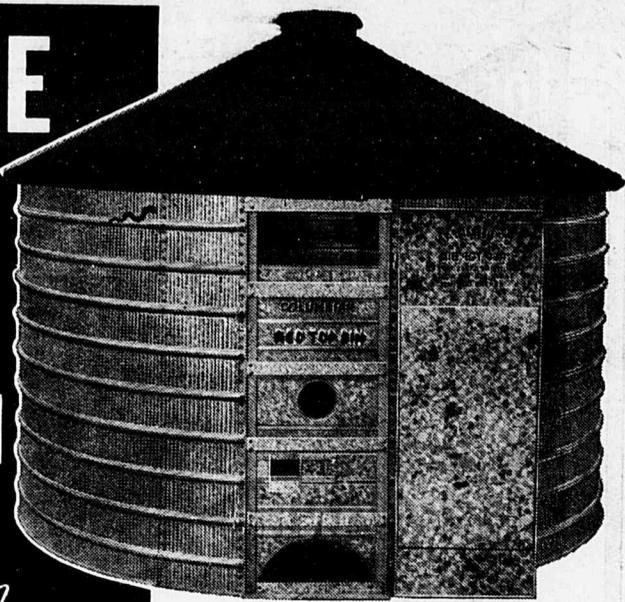
IF YOU JOINED ALL THE TELEPHONE POLES we've used to extend telephone service to rural Kansas in the past seven years into one big pole it would tower 715 miles into the clouds. That gives you an idea of how we've been breaking records in our efforts to meet the demand for farm telephones. We have doubled the number of Southwestern Bell rural telephones in Kansas since the end of World War II. This year we hope to be able to spend more than \$2,500,000 on rural projects around the communities we serve. **SOUTHWESTERN BELL . . . A TEAM OF 6,800 KANSAS TELEPHONE PEOPLE . . . AT YOUR SERVICE.**

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Per
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22 New and Improved Farm-Tested Features overcome every problem of successful grain storage. New door frame of 100% galvanized construction, completely assembled and sealed at factory. Door fits snugly over outside of door frame . . . side sheets sealed to door frame with moulded gaskets . . . special lead washers furnished for every bolt . . . caulking compound for sealing bottom. Columbian Bins are absolutely weather tight. Adjustable, removable ventilator top is stormproof. Driving rain or melting snow cannot get in . . . fumigants cannot get out. Scoop box and special door boards with slide gate and chute, 8 1/2" inspection port and auger opening for power unloading.

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The Livestock & Classified Departments
In this issue of the Kansas Farmer merit your attention. You will find a world of useful information as well as bargains you can't afford to pass up!

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AND
SAVE**

After 10 years of building Lawn Mowers, we have developed a sickle type mower that will cut fine grass or large weeds. Will cut grass as short as 1 inch. Especially built for Cemeteries, Parks and Schools. Mower has I.H.C. Lespedeza guards and sickle, which gives double cutting capacity. Center drive on sickle permits close cutting around curbs and shrubbery. When answering this ad state type of mowing: Yards, Parks or Cemeteries.

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—100x8 Pneumatic. Self Propelled.

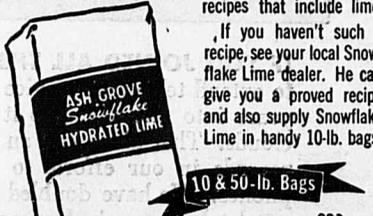
The F & H heavy duty 24" self-propelled rotary type lawn mower cuts fine grass or large weeds. Powered by a Briggs & Stratton 3 H.P. air-cooled engine. V-belt and roller chain drive. Timken bearing spindle. Electric welded steel frame. No castings to break. Auto type differential. Pulls from both wheels. Fool 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, Kansas



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**ASH GROVE
Snowflake
HYDRATED LIME**

**Annual State 4-H Club Round-up
Is Highlight of Year's Activities**

ROUND-UP time! These are magic, exciting words to Kansas 4-H'ers! And their 1953 annual convention—the 29th—on the Kansas State College campus, Manhattan, May 25 to 29 was a record in size and activities. More than 1,350 persons attended.

Boys and girls and their leaders from every county in the state had a busy time at this 29th annual event. For many it was a preview of their college days. Delegates lived in the college residence halls and ate at the college cafeteria, making the visit a short bit of collegiate life. They saw members of the Collegiate 4-H Club in action, serving on many committees. It's interesting to note 30 per cent of the KSC students this past year were former 4-H'ers.

Demonstrations and discussions were

features of morning classes. Each session was planned to help 4-H'ers in their home economics or agricultural projects and club and community activities. Girls gained new and practical ideas in attractive meal service, proper lighting in the home, selection of clothing, other helpful ideas. Boys learned more about fitting and showing stock, machine shop work, skilled tractor driving, farm chores. All delegates attended classes on music, recreation, leadership, better club work, getting along with others, producing and marketing farm products. Faculty members conducted the sessions.

The 4-H'ers had another opportunity to learn more about KSC during an afternoon of demonstrations of "the college in action." They visited "home

(Continued on Page 25)



BYRON BIRD, 1952 Kansas Who's Who 4-H Club president, right, congratulates 2 newly-elected officers of the honorary club: Linda Rundle, secretary, and Edwin Cotner, vice-president. Harold Couchman was elected president at the club's annual meeting during state 4-H Round-up.



OFFICERS OF the Master 4-H Club for members who have won trips to the National 4-H Camp at Washington, D. C., are left to right, Luanne Hicks, Goodland, vice-president; Ruth Stinson, Ottawa, secretary; Sam Miller, Milford, president, and Betty Stephens, Manhattan, historian.



FINNEY COUNTY 4-H'ers who won Kansas Bankers' Association annual award for outstanding delegation at annual state 4-H Round-up are left to right, front row: Greta DeRemus, Dawn Reed, Martha Hall, DeAnne Small, Robert Heiman, David Lyon. Second row: C. R. Hubbard, Beloit, chairman, agricultural committee, Kansas Bankers' Association; Marjorie Gigot, Raymond Blackwood, Arline Dunkelberg, Stanley Meinen, 4-H agent, Gary L. Rundell and Mrs. Elmer Haas, Jr., club leaders, and Isabel Dodrill, home agent.

manage including hospital Service Most ships most im the expe grand of member way. Mu as did th Clay to the a annual playing chosen regional program up: The Trego ations; E ensemble musical county of Nemaha

Fr Nine I change d tries gav national part of ties in w rural fa youth from Sweden During in Kansa in the W orary gr tates att Two s in prome sented a ssembly. Club wo Junction gates th group w sion agen to enlarg committe Raymond sas Farn Wichita; Moxley, Cain, pre Baldwin, director, Mr. Cr of trustee tion, disc Other tr were: M Williams 4-H Club

Finney tion gro Extension gation on in dormi tion of s tion's pl from the were give Finney, I and King receiving Cheyenn Crawford Leavenw Delega up at th gathering, main fre What th prove clu to future agree on Round-up tional, e perience

Big T Ever circus for a c all the our lea 3c to H sas Fa

management" houses, athletic plant including the Field House, veterinary hospital, Kansas Artificial Breeding Service unit, greenhouses and gardens.

Most delegates list the new friendships made at Round-up one of the most important and valuable parts of the experience. Recreation periods were grand opportunities to meet other club members. Group singing is another way. Music classes helped make friends, as did the annual state chorus.

Clay county 4-H band added much to the assembly programs and to the annual banquet with their excellent playing and selections. This group was chosen from blue-ribbon bands in regional club days this spring. Other program numbers appearing at Round-up: Thomas county model meeting; Trego and Finney county demonstrations; Bourbon county instrumental ensemble; Elk and Montgomery county musical games; Seward and Osage county one-act plays; Ness, Riley and Nemaha county vocal ensembles.

From 5 Different Countries

Nine International Farm Youth Exchange delegates from 5 different countries gave the convention a real international air. The IFYE's came as a part of the delegation from the countries in which they are now living with rural families. Members visited with youth from India, Costa Rica, Uruguay, Sweden and Portugal.

During 1952, some 315 club members in Kansas were elected to membership in the Who's Who 4-H Club, state honorary group. Many of these new initiates attended Round-up.

Two state groups, formed to assist in promoting club work, were represented at the Thursday morning assembly. The Kansas Committee on 4-H Club work chairman, A. D. Jellison, Junction City, explained to the delegates that fundamental aim of his group was to co-operate with Extension agents and club leaders in all ways to enlarge club work in Kansas. Other committee members introduced were: Raymond H. Gilkeson, editor of *Kansas Farmer*, Topeka; W. Dale Critser, Wichita; C. L. Huxman, Sublette; J. J. Moxley, Council Grove; James A. McCain, president of KSC; A. E. Preston, Baldwin, and L. C. Williams, Extension director, Manhattan.

Mr. Critser, chairman of the board of trustees of the Kansas 4-H Foundation, discussed purposes of that group. Other trustees attending the assembly were: Mr. Huxman, Mr. Jellison, Mr. Williams, and J. Harold Johnson, state 4-H Club leader.

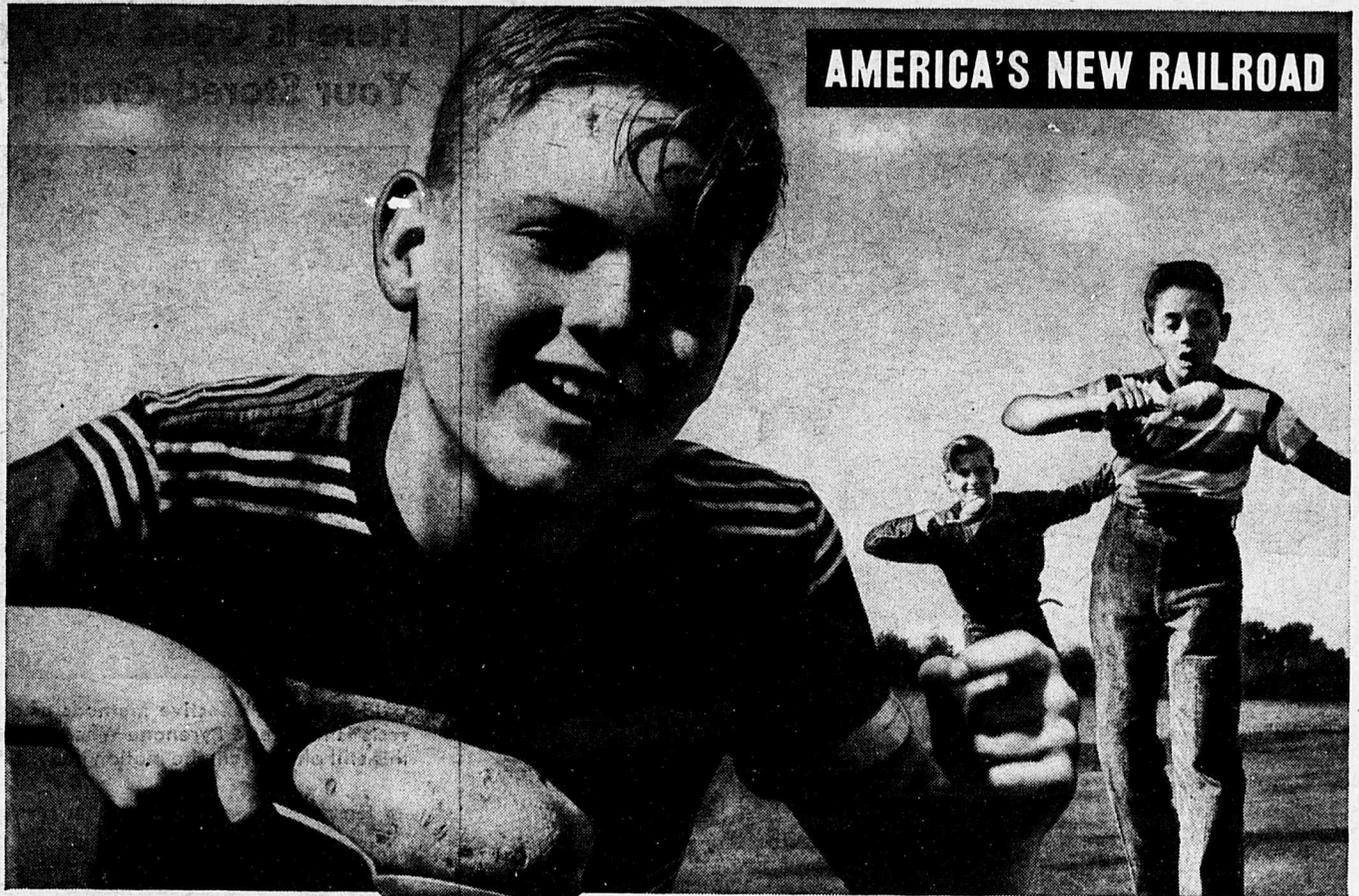
Finney County Won

Finney county was winning delegation group this year. A committee of Extension workers scored each delegation on class attendance, deportment in dormitories and at cafeteria, condition of sleeping quarters and delegation's plan for gaining most benefit from the event. Blue-ribbon ratings were given to delegations from Mitchell, Finney, Ellsworth, Franklin, Hamilton and Kingman counties. Eleven counties receiving red ribbons were: Barton, Cheyenne, Clay, Cloud, Comanche, Crawford, Harper, Thomas, Norton, Leavenworth and Decatur.

Delegates will report on the Round-up at their many local meetings and gatherings. Their experiences will remain fresh in their memories for years. What they tell local members will improve club work, urge members to go to future Round-ups. All delegates will agree on one comment: Attending Round-up can be the most inspirational, educational and enjoyable experience of 4-H'ers!

Big Top Party Plans

Everyone enjoys the thrill of a circus! You will find suggestions for a children's circus party, with all the excitement of the big top, in our leaflet, "A Circus Party." Send 3c to Entertainment Editor, *Kansas Farmer*, Topeka.



AMERICA'S NEW RAILROAD

A 50-yard dash with a potato on a spoon! An exciting bit of Americana—but it's not the

World's Greatest Potato Race

That's the 2200-mile dash on the Santa Fe with 1,350,000,000 potatoes

Somebody east said, "Pass the potatoes!"

Out in California, the fertile San Joaquin Valley heard them. And look what happened.

Santa Fe started moving 14,000 to 15,000 carloads of potatoes to hungry markets all over the Mid-

west and East. 36,000 to 40,000 pounds to a carload. As high as 550 carloads per day at peak of harvest. That's more than 1,350,000,000 potatoes. And that's a lot of spuds.

Bag 'em. Load 'em. Roll 'em. And hustle. Somebody east said, "Pass the potatoes!"

MARKETS ARE PERISHABLE, TOO

From America's largest fleet of refrigerator cars owned by an individual railroad, these yellow Santa Fe "reefers" are dispatched to the "Potato Capital of the West."

There the cars are cleaned... checked... loaded... switched. And iced fast (a car a minute, if you please). These potatoes can't wait!

In servicing the cars as they speed

east, new icing docks at Bakersfield and Needles, Calif., Belen, N. Mex., Waynoke, Okla., and Kansas City work the clock around. Electronically-controlled "hump" yards speed the switching.

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On-time delivery calls for full-time precision to keep these schedules "on the advertised."

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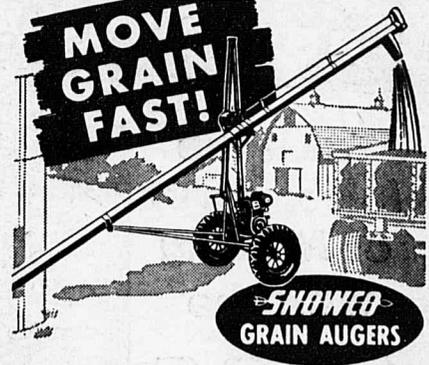


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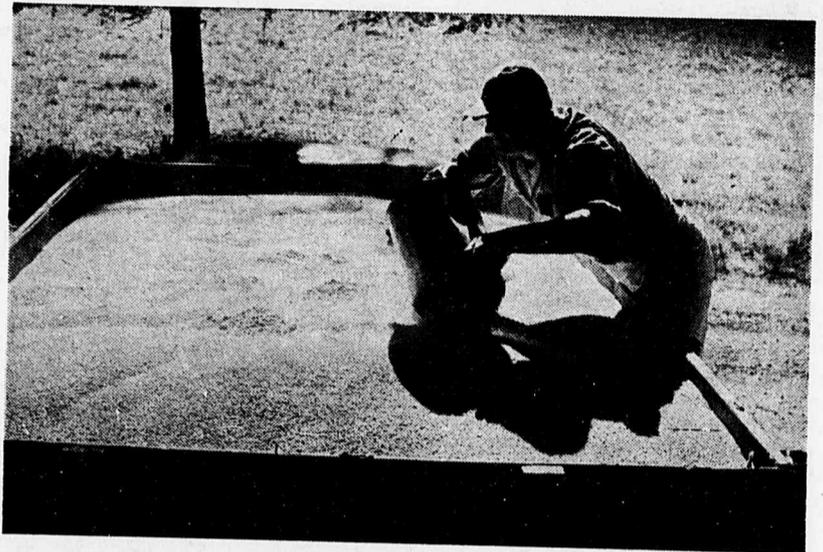
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Here Is Good Way of Protecting Your Stored Grain From Insects



ONE OF MOST effective methods of obtaining protection against wheat insects is to spread Pyrenone Wheat Protectant over top of grain, as shown in this still photo from the motion picture, "Beating the Weevil."



AFTER APPLICATION of Wheat Protectant, powdered insecticide is then cut into the grain with a shovel. Since grain is then dumped, thoro mixture is obtained.

THE ABC's in development and application of a new way of preventing insect infestation of stored wheat were graphically shown many Kansas farmers in a series of meetings, recently held under joint sponsorship of Kansas State College and the Kansas Wheat Improvement Association.

The new material is a powdered insecticide called Pyrenone Wheat Protectant. It is mixed with wheat at harvest, the powder coating the kernels to keep insects from penetrating them by killing on contact. Unlike fumigation, which is used only after insects get into the grain, one treatment with Pyrenone Wheat Protectant will last an entire storage season, according to tests conducted by Kansas State College.

The tests were conducted under supervision of Professor Donald A. Wilbur of the Department of entomology, who says:

"It has been evident from tests covering a 3-year period that treatment of newly-harvested wheat with Pyrenone Wheat Protectant resulted in outstanding protection from damage by most important grain-infesting species of insects during the first season of storage. Treated wheat was stored in wooden bins, which, in some instances, were not sufficiently tight to have permitted a successful fumigation. Experiments are underway at present to determine length of effectiveness of the Protectant treatment."

The interest of wheat handlers attending the meetings was evinced by questions asked the speakers. Among the questions were the following:

Q. An insecticide is generally regarded as a poison. Is Pyrenone safe for use on wheat?

A. Yes. Studies in toxicology have shown that Pyrenone is the safest of all known materials to humans and animals. Most of the material is removed in cleaning the wheat before milling, and in no instance has any Pyrenone been detected in flour.

Q. How much does it cost?

A. It costs approximately 2½ cents per bushel.

Q. What is the duration of the protection period?

A. At least one storage season.

Q. What is the rate of application?

A. Seventy-five pounds per 1,000 bushels, for the Wheat Protectant. A comparable product, Pyrenone Grain Protectant, for use on corn and other small grains, is applied at the rate of 100 pounds per 1,000 bushels.

Q. How is it applied?

A. By any method which will achieve thoro and intimate mixing of the Protectant with the grain, such as:

1. Applied to the surface of the wagon or truckload.
2. Fed into the elevator with an automatic feeder.
3. Fed into the hopper of auger by hand.
4. Fed into the auger by hand or with automatic feeder.

(Continued on Page 27)

5. Spread over the surface and turning with a shovel (this technique only advised for small lots).

Q. When is it applied?

A. On newly-harvested wheat as it is binned. However, it may be applied to carryover wheat if it is in good condition.

Q. Where can it be used?

A. In farm storage, line elevators, flat storage and even in terminal elevators.

Q. Is there any difference in application techniques in the various types of storage?

A. No. The only difference is in bins such as found in terminals. There, it is recommended the first 10 per cent of the grain going into the bin be treated at twice the recommended rate to insure an adequate dosage in the hopper.

Q. Is the Protectant effective at all moistures?

A. The Protectant does an excellent job at all moistures considered safe for storage. There are on record instances where grain in excess of 15 per cent has been protected, but this is above recommended safe moisture levels.

Q. Does use of the Protectant reduce moisture content?

A. No. The Protectant has no effect whatsoever on moisture content.

Q. Does the Protectant affect the grade?

A. No. At recommended levels of application, no down-grading will result.

Q. What are the ingredients of Pyrenone?

A. A chemical, piperonyl butoxide, and an organic, pyrethrins, obtained from the pyrethrum flower.

Q. What is used as a carrier for the insecticide?

A. Finely-ground wheat, which means that wheat itself is being returned to the grain to help protect it.

Q. How does the Protectant differ from present techniques of controlling insects?

A. The Protectant when applied to newly-harvested wheat prevents, thru a repellent action, insects from getting into wheat. It eliminates any chance invasion before the insects have an opportunity to do damage.

Q. Does the Protectant have any fumigative action?

A. No. The Protectant is not a fumigant and does not kill insects within the kernels. It prevents their getting into the kernels.

Q. Should the Protectant be applied to infested grain?

A. Not badly infested grain. It is designed to prevent infestation and while it will kill insects in infested grain, the frass created by the insects tends to reduce its effectiveness.

Q. What is its effect on germination?

A. None, whatsoever.

Q. Where can one buy Pyrenone Wheat Protectant?

A. Advertisements in the Kansas Farmer are listing dealers in Kansas.

Discuss Use of Silo Unloaders

Future of silo unloaders gives promise of an extensive additional use for electric current in helping save labor in moving and feeding silage.

That was one point brought out at recent annual meeting of the Kansas Committee on the Relation of Electricity to Agriculture, at Kansas State College, Manhattan. Speaking was F. C. Fenton, head of the Agricultural engineering department, on "New Developments in Silage Handling."

He commented on 3 silo unloaders now on the market, described their use and advantages, and said many farmers are buying them.

Win Danforth Award

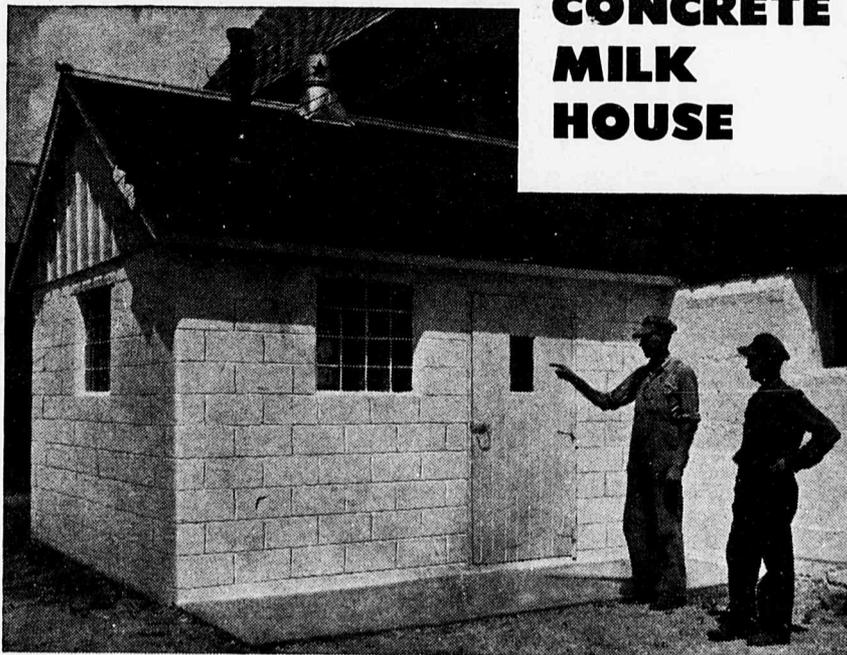
Winners of Danforth awards for this summer at Camp Miniwanca, Michigan, are Ann Gwendolyn Eshbaugh, Manhattan, and Kathleen Paulsen, Zenith. The 2-weeks leadership training camps also highlight spiritual and social development of young people.

Thank You

I enjoy Kansas Farmer a lot.— Irene Rogers, Rt. 1, Coffey Co.

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A concrete milk house helps you produce quality milk... makes it easier to meet Grade "A" requirements. The concrete floor and concrete masonry walls offer fewer places for bacteria to breed and dust to cling. The building will last a life-time with little maintenance.

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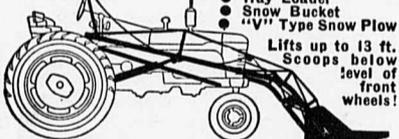
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It's a brand new Roof Weed Cutter—still the best! New self-propel unit eliminates slippage, makes control easier. Choice of 3 h.p. Clinton or 6 h.p. Wisconsin heavy-duty motor. Cuts clean within 1/4" of fence rows, buildings. See your dealer or write —

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Now . . . milk faster and easier than you ever have before with any milker . . . any milking parlor. Here for the first time is a milker that will position the teat cups automatically throughout milking. And, the milk goes directly into pipeline, tank or can, eliminating the work of carrying milk. The Rite-Way vacuum lift cylinder has a *fingertip control*. You raise or lower the teat cups *instantly* for fast, complete milking. You make *but one simple adjustment to milk any cow with maximum speed*. See how this new milker will make your work easier. See your Rite-Way dealer or write to Dept. K, address below.



- 1 Just one easy adjustment for fastest milking position
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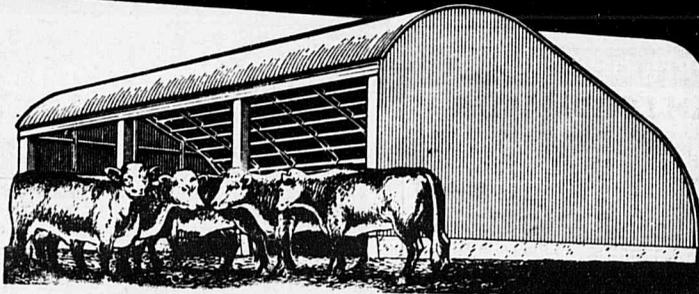
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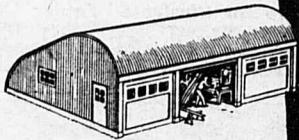
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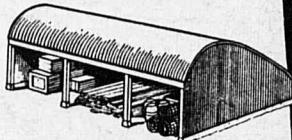
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A Big Chief "all-steel" shed is low in initial cost, virtually maintenance free and takes but a short time to erect. Big Chief's "no pole or post construction" puts every square inch to work for you. No rotting . . . no sagging . . . built to outlast conventional buildings.

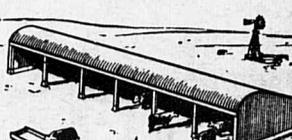
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Mound Valley Works for You

(Continued from Page 4)

waterways. Caucasian bluestem is easier to establish than either big or little bluestem but, says Mr. Jones, "We don't know yet whether it will stay and compete with the other bluestems over a period of years. It has good seedling vigor and good seed production the first year but seed is very hard to handle as it is so fluffy. There are 2 recognized strains of Turkestan—the King Ranch strain, which is not proving winter-hardy for Kansas, and the Elk County strain, which is not too promising."

Testing Varieties of Legumes

In the legume line, the station is testing varieties of red clover and sweet clover. Another test is on seed of ladino grown for several years in one location to see whether it is hardy enough for the area. Ladino generally is an uncertain crop around Mound Valley because it is too shallow rooted to withstand the drouth periods that occur in the area. Alfalfa, on the other hand, may not do much during the drouth periods, but has the power to produce well when rains do come.

Brome grass, fescue and orchard grass are proving the most drouth-resistant grasses in that area in the order named.

Mr. Davidson reports both at Columbus and Mound Valley stations, wheat has proved a better nurse crop for legumes than oats and more profitable from a grain production standpoint. "Sweet clover has a tendency to outstrip oats this far south and make them hard to harvest," says Mr. Davidson. Wheat does a better job of holding back the clover and produces a higher grain yield than oats.

"Wheat also gives a more solid seedbed for legumes," Mr. Davidson continues. "The seed doesn't get buried too deep. Wheat also shades the ground and makes better germinating conditions for legumes. There is a better chance of getting the legume thru the season in good condition if it is seeded at the same time as the wheat in fall."

Soil Fertility a Major Problem

In an area like that of Southeast Kansas, where soil fertility is a major problem, management of the soil is more important than the variety of crop the man plants, explains Mr. Davidson.

"For instance, too many farmers worry about getting seed of the latest and best variety of wheat, when they should be worrying about a rotation program that would increase soil fertility. Our experiments here indicate that on good fertile soil there is only about 2 bushels an acre difference between wheat varieties. But on poor soil we can double or triple wheat yields by using a good, strong legume in the rotation, and by use of lime and commercial fertilizer."

Last year on the station wheat on non-treated plots made 25 bushels an acre. Wheat plots treated with lime, superphosphate and potash averaged above 50 bushels.

Some fertility work also is being done on corn. Corn is being planted in rotation of wheat-sweet clover-sweet clover as a green manure ahead of corn the second year-oats, followed by a soybean seed crop the same year. This rotation permits 4 crops in a 3-year period.

A second block of land is kept in alfalfa until the stand weakens, after which it is plowed under and the same 3-year rotation used.

In a third block the rotation is

wheat and red clover seed crop the first year, red clover hay second year and corn the third year.

The Mound Valley area is short of both nitrogen and phosphate. "Our theory," says Mr. Davidson, "is that farmers should grow as much nitrogen as possible in the form of legumes, supplementing with commercial nitrogen. All the phosphate has to be supplied by use of commercial fertilizer."

The dairy nutritional studies were set up to try to find an answer to ketosis, a nutritional deficiency disease common in the area. It was thought the disease was due to lack of phosphorous in feed and grains grown in that area.

Three groups of 10 cows each have been used in the feeding tests. One group got prairie hay, plus corn, oats and soybeans equal parts by weight, plus salt. All feed is locally grown and this group is used as the check group.

A second group gets the same ration of locally grown feeds plus one per cent bone meal.

A third group gets the same ration as No. 2 but all hay and grain are shipped in from areas where soil fertility is high.

Here Are Results

Indications to date are that cattle on locally grown feeds do as well as those on shipped-in feeds if the feed is supplemented with bone meal to add phosphorous to the ration. Ketosis occurred in all groups, regardless of origin of feed, so Mr. Davidson now feels that lack of phosphorous is not the cause of ketosis, altho it still may prove to be a contributing factor.

The station plans to run a similar test on cobalt. Mr. Davidson says cooperative experiments also are being run with dairymen in the area. In these experiments the station is distributing bone meal with different minor elements added. Dairymen will feed these special supplements to part of their herds and compare with the rest of the herd. The station hopes thru these experiments to get a tip on what controlled experiments should be done more thoroughly at the station.

To cut down the number of animals handled and thus cut costs, the station is acquiring several sets of identical twin calves. Four sets are now on the station to be used in nutritional studies. There is one set of Jerseys, one set of Guernseys and 2 sets of Holsteins.

"In experimental work, results from experiments with one set of identical twins is equal to those obtained from working with 50 unrelated animals," says Mr. Davidson. "You know when working with identical twins that any differences which occur are due to conditions of the experiment and not to differences in the animals themselves."

Announce Wheat Storage Program

The USDA announces a "re-seal" program for 1952-crop wheat for Kansas and 7 other states. Farmers may obtain a 1-year extension of CCC loans on farm-stored wheat, and convert purchase agreements into loans for the extended period. For the full "re-seal" period, storage payment will be 15 cents in Kansas. This program is to facilitate handling grain during a period of heavy price support "take-over" coinciding with harvesting, transporting and storing of new crop wheat. See your local CCC office for details.

COMING, JULY 4 . . .

Will farmers working together in watershed groups speed up the rate of soil conservation work being done in Kansas? Read in the July 4, *Kansas Farmer* what has been done and is being planned by farmers in a typical small watershed group in Kansas.

Hope Would Increase Wheat Acreage

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

MOST IMMEDIATELY significant feature of the Hope (R. Kan.) bill re-vamping acreage allotment and marketing quota provisions of existing farm laws, is that of raising the minimum national acreage wheat allotment from present 55 million acres to 66 million acres. This provision, as introduced in the House last month end by Rep. Clifford Hope, chairman House Committee on Agriculture, would be effective only for 1954 crop.

Perhaps most important long-range provision is that which would exempt farms with 25 acres or less, or produce 400 bushels or less wheat, from the marketing quota provisions. The present exemption applies only to 15 acres or less devoted to wheat. Chances of passage this session are regarded as good.

The bill makes 3 other major changes in marketing quota laws:

1. Period used as a base in computing national average yield and historic acreages for allocation purposes is changed from preceding 10 years to 5 years.

"This change will more effectively reflect current wheat acreages over the country and will bring wheat quota laws into line with those applying to cotton, rice and peanuts," according to Congressman Hope.

2. The bill will set up a national reserve of 1 per cent of the national allotment and 3 per cent of each state's allotment for allocation to farms and farming areas which are present producers of wheat, but which lack an adequate and representative history of wheat production.

3. Another provision reinstates the penalty of 50 per cent of the parity price for production in excess of marketing quotas. This provision was in the law for several years, and is consistent with similar provisions in other marketing quota laws, but was repealed "inadvertently" when Congress adopted the Agricultural Act of 1949, Hope explained.

"The present wheat quota laws have not been revised substantially since before World War II," Hope said, in discussing especially the upping of minimum national acreage allotment to 66 million acres. "At that time domestic consumption and export commitments were such that a minimum national acreage of 55 million acres was considered adequate. Since that time, however, conditions have changed so drastically that normal production from 55 million acres would reduce the carry-over to undesirably low levels at the end of 1954 marketing year."

For several years past the average national wheat acreage has been around 78 million acres.

"Under terms of the law," Representative Hope said in a statement when he introduced the bill (HR 5451), "the wheat supplies estimated to be on hand at the end of the current marketing year would be such that a reduction to the neighborhood of 55 million acres would have been mandatory. The 66-million-acre minimum provided in the bill is calculated exactly to meet present requirements for domestic consumption and export if the yield is normal. It is expected to keep our reserve supply of wheat exactly where it is thru 1954 crops year."

Concerning upping marketing quota exemptions from 15 or fewer acres to 25 acres, or from farms producing less than 200 bushels to 400 bushels, Hope said:

"While thousands of farmers will be exempted from marketing quota provisions by this amendment, the quantity of wheat these produce is relatively insignificant in the national totals. The amendment not only will save administrative expense in working out and enforcing quotas on these farmers, but is consistent with the policy of not

imposing any more regulations on farmers than is necessary.

"Altho farmers with less than 25 acres (or producing fewer than 400 bushels of wheat) will not be subject to marketing quota provisions of the law, they will be given acreage allotments. And only if they stay within these allotments will they be eligible for price supports."

It is believed enactment of the Hope bill almost certainly will result in a favorable vote on wheat marketing quotas. Under existing law, reports to the Department of Agriculture indicate, there would be less than a 50-50 chance of getting the necessary two-thirds majority in the wheat referendum.

Under the Hope bill, some 39 or 40 per cent of wheat farms will be subject to quotas, and eligible to vote in the referendum. The other 60 to 61 per cent, mostly east of the Mississippi, will not be subject to the quotas, and the operators will not be eligible to vote in the referendum, nor counted in the referendum voting. This 39-40 per cent represent about 85 per cent of total acreage and produces about 80 per cent of total crop. Repeating—allotments will apply to all farms, regardless of size, and compliance required to get a wheat loan.

Wayne Darrow calls attention to fact that much of the soft red winter wheat area in the East, which has been upsetting markets, still will be virtually uncontrolled, "since the loan program is little used in these states."

There are some 1,882,875 wheat farms with acreage allotment history averaging 76,079,000 acres devoted to wheat 1946-48.

Exact realization and admission that Congress is the legislative body that writes laws, determines policies for the Executive branch to carry out, has reached at least as far down in President Eisenhower's Cabinet as Ezra Taft Benson, Secretary of Agriculture. Benson has checked it to Congress to formulate farm policy and make farm programs. So Congress, the members being human, are now insisting that Benson come up with recommendations on farm legislation—seems somewhat at a loss to initiate legislation. Hope broke the hesitation with his bill on wheat marketing quotas. Maybe he has ended it, altho probably not.

Department of Agriculture seems certain to get more than it asked, and more than the Eisenhower Budget recommended, from this first session of the 83d Congress. The House backed up its appropriations committee in "upping" conservation payments (ACP) from 140 million dollars asked to 195 million. Appropriation for current year was 250 million dollars. The Senate will

COMING, NEXT ISSUE . . .

Two groups of farmers in one Kansas county are competing against each other this year in a corn growing contest, with losers standing the treat. You'll want to read in the July 4, *Kansas Farmer* how these men are getting top corn yields thru proper use of fertilizers.

not cut back from the 195 million, altho 3 major farm organizations—Farm Bureau, Grange, Council of Farm Cooperatives—were for the lower figure, and limit payments to "permanent practices."

Secretary Benson will get broad powers to reorganize his department. Senate voted down a Russell (D., Ga.) motion to reject the reorganization plan, decisively. The House did not vote to reject. Under the law, a reorganization plan sent to Congress by the President goes into effect unless either Senate or House rejects it within 60 days after the filing, the Congress being in session thruout the 60 days. Benson is not expected to be in too big a hurry to complete his reorganization. Now that he has necessary authority, he can take his time about exercising it. His program appears to include working out conservation work on a grants-in-aid basis with a State Soil Conservation Service-Extension hook-up.

Representative Hope's "watershed pilot projects" program went thru the House without a question being raised, and probably will be approved by the Senate. The program gets an appropriation of 5 million dollars for 50 small projects, to be completed in from 1 to 5 years at an ultimate cost of some 6

million dollars, the Federal Government to contribute a little less than half the total. (See May 16 and June 6 issues of *Kansas Farmer* for details.) The House shouted down, voice vote, restoration of funds for continuing construction of Tuttle Creek Reservoir at the foot of the Blue River Valley in Kansas.

At this writing, odds look very much against Missouri Senators Hennings' and Symington's efforts to get the Senate to appropriate Tuttle Creek funds. Kansas City interests have been bringing considerable pressure on Kansas Senators Schoepel and Carlson to join the Missourians. Tuttle Creek supporters face (1) Kansas Legislature resolutions (House approved anti-Tuttle construction 87 to 7); (2) Truman's Missouri Basin Commission report recommending construction behalved pending further studies; (3) Governor Arns' Engineers' Committee making similar recommendation.

Democrat strategy for congressional campaigns in 1954 seems to be to get a tacit alliance between Labor and Agriculture: Labor to be promised government pressures to increase wage rates automatically by 5 per cent or more annually; Farmers to be promised rigid price supports at 90 per cent or more of parity.

THE STORY OF WINDMILLS

JUST AS WINDMILLS are a picturesque and practical part of the landscape of the Netherlands, so are windmills in the Midwest. Altho modern machines are replacing them, many areas of the world still find uses for these unusual structures.

Windmills have been used since very early times in the world, but not until the 12th century did they come into general use in Europe. As early as 180 B. C., at the time of Hannibal's trip across the Alps, the Carthaginians reported seeing windmills in the valleys. Also, it's believed the Crusaders brought the idea home from the Orient. Mills appeared in Paris in the first part of the 12th century, then in the Netherlands. First mill to grind rags into paper was built in Spain, at Xativa, in the 16th century. First sawmill operated by wind was invented in 1592 by Cornelis Cornelison, of Mitgeest, Netherlands.

In the old days, these were the uses for mills, still followed today in some areas: to press oil from seeds, make rags into paper, make snuff, saw logs

into planks, grind grain, cocoa, chalk; pump water to ditches, pump water from behind dikes out to the sea. Windmills played a vital part in reclaiming land for the Dutch, aided greatly in their country's prosperity.

In America, Daniel Halliday invented the first sectional, vaneless wheel for a self-regulating windmill, between 1857 and 1867. About the same period, the Rev. L. H. Wheeler invented the solid wheel-type windmill. Principal uses for American-type windmills have been for pumping water for stock and for irrigation purposes. Our mills are much smaller than European types, have more sails which make it possible to reduce diameter of the windwheel for a given power, which is less than that needed in Europe. Windwheels there often are as large as 100 feet in diameter and ours rarely are larger than 30 feet in diameter.

In the Netherlands, the "language of the mills" is well-known to farmers. To celebrate a marriage or birth, some mills are gaily decorated with colorful cherubs, cupids and other ornaments. Certain "messages" are "read" from miles away, such as letting the drawrope hang down from the platform to let it be known the mill is still grinding but that supply of grain is coming to an end. Positions of sails may mean another phase of work is being done, or completed. Many mills in the Netherlands are retained, even tho modern electric motors have been installed.

In France, England, Netherlands and the United States many old mills are used for churches or homes. One old-type mill in Nantucket, Mass., built in 1746, became a museum. For a real modern-times approach, some mill frameworks are used for TV towers!

I WONDER HOW THAT STARTED . . .

"Needle in a Haystack"

This well-known saying about looking for something like a "needle in a haystack" goes back to the 16th century, in England. Literature of that period became a good source of sayings, phrases and proverbs. The saying first began as "looking for a needle in a bottle (bundle) of hay" and "looking for a needle in a meadow," referring to a search that was just about hopeless.

(EDITOR'S NOTE: What's your favorite saying? Send it in, we'll try to find its origin, and tell you about it in this box.—R. H. G.)



Thank You

We have enjoyed *Kansas Farmer* many years.—Mrs. D. L. Chalender, Rt. 1, Johnson Co.

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Sweet Potato Plants, Nancy Hall, Porto Rico, 200—\$1.50, 500—\$3.00 postpaid. Ponzer Nursery, Rolla, Mo.

PATENTS AND INVENTIONS

A. H. Sturges, 317 Sunderland Bldg., Omaha, Nebr., Registered Patent Attorney, U. S. Patent Office. Procedure information, evidence of invention form and patent book sent on request.

BUSINESS OPPORTUNITY

Start Venetian Blind Laundry. Profitable lifetime business. New Machine. Free booklet. A. B. Co., 422 N. Seneca, Wichita 12, Kansas.

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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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St. Bernard Puppies, reg'd. Details, charming pictures, free upon request. Manitou Kennels, Watrous, Sask., Canada.

Shepherd Female Pups—Special, prices on black English for this month of \$12.50 each. No spayed females. H. W. Chestnut, Chanute, Kan.

OF INTEREST TO WOMEN

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.

Thrilling, Profitable Home Business. Make fast-seller, chenille monkey trees, dolls, flowers. Terrific holiday demand. Information free. Velve, Bohemia 2, N. Y.

Stainless Steel, Vaporsol, One Quart Saucepan \$6.79, 3 1/2 \$8.79, six, \$13.79, two \$7.79. Pressure cookers, Dutch oven \$13.79. Majors, 226 Durant, Springfield, Mass.

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

Women make money at home, spare time. Sew ready-cut RAP-A-ROUND. Easy, profitable. Hollywood Mfg. Co., Dept. AF Hollywood 46, Calif.

Nylon Corsets: All essentials for making 10 to 15. Prepaid, \$1 quantities wholesale. A & T Sales, Dept. V, P. O. Box 1973, Greensboro, N. C.

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Free Farm Catalog—packed with values—send today for your 1953 Trading Post bargain catalog. Over 60 pages of savings on goods for farm and home. Barbed wire and fencing, paints and varnishes, agricultural chemicals, tools, hardware, household goods, and thousands of items at "below-market" prices. Free bonus coupons and free gifts. This bargain catalog sent to you absolutely free. The Trading Post has a warehouse near you! Your free catalog will be rushed to you; just write Trading Post, 1800 Q Burlington, North Kansas City, Mo.

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FOR THE TABLE

HONEY Mixed Flower **\$9.90**
Not Strong
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It must please you. — Order today.

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Combines Galore: 70's, 80's, and 90's. Used 26's, 27's and 21-A's. Late model 12' Gleasers, G-4 M.M. & No. 9 J. D. Also Anhydrous-ammonia applicators and storage tanks, 4-row listers, cultivators and go-dogs. Two years to pay. We trade for everything. W. M. Sheridan & Sons, Sutton, Nebr.

Save 50% on One-way Discs. Adams hard-faced discs stay sharp for the life of the disc. Breaking, scoring, difficulties eliminated. Information and prices on Adams complete line of hard-faced tools furnished free. Adams Hard Facing Company, Wakita or Guymon, Okla.

After cutting 350 acres here, we will have several 90 combines for sale. Be through approx. July first. Call or write Elmer McClaffin, Medford, Okla.

Combines—New Case A6, 6 ft. cut with motor. F2, 5 ft. cut PTO M2, 9 ft. cut, all at liberal discount. Address Box 334 or Phone 102 Chantauque, Kan.

New Dearborn Combine, Dearborn corn picker, drought condition. Bargain price. Layman Farm Supply, Dodge City, Kan.

Irrigation Plastic Pipe with plastic gates, our gates fit pipe you are using. Master Plumbers, Grand Island, Nebr.

Windmill lift springs bring more water with less wind: two 30-inch springs with fixtures, \$18.50. A. R. Sapp, Julesburg, Colo.

Ferrin Self-Locking End Gate fasteners for pick-up trucks. Information free. Engalo, McPherson 5, Kan.

Massey-Harris combine repair parts 20% off, prepaid to you. Send orders to Prentice & Steichen, Hill City, Kan.

Camp Grain Elevators—new repair parts. Write: Berry Machine Shop, Washington, Ill.

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"Gigantic" Surplus Sale—Tremendous savings. Government, and excess inventory, power plants, compressors, pumps, weed sprayers, chain saws, binoculars, tools, hundreds items. Illustrated catalog free. Surplus Center, 877 O St., Lincoln, Nebr.

"We Sell Rain" Gated, perforated sprinkler irrigation. Bring your truck and see various sprinklers operate. Buy leaders—wholesale—retain. Distributing Oliver engines, Canal liners. Large discounts. Conrad's, Gaylord, Kan.

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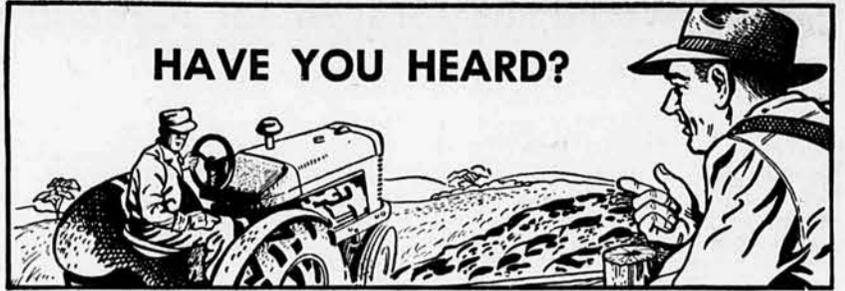
REAL ESTATE FOR SALE

Motion Picture Theater, in good Oklahoma town. Shown profit since opening 1936. Selling account of health. George W. Long, Arkansas City, Kan.

HARDWARE & PAINT

Paint Sale! \$2.50 per gal. postpaid. House, Barn, Floor, Enamel, Flat, Gloss, Semi-gloss, Aluminum. Give two color choices. Money orders or check, 100 pound farm assortment of bolts, nuts, washers—\$15.00. Jost Hardware, Dept. 2, 316 East Hennepin, Minneapolis, Minn.

HAVE YOU HEARD?



Notes on New Products and Folks Who Make Them

LML ENGINEERING & MFG. CORP., Columbia City, Ind., manufacturer of Cardinal farm elevators and poultry and livestock infrared brooders, announce a new Cardinal Junior portable elevator model. Trough is 6 inches wide flaring to 11 inches with 1 1/2-inch vertical rise, and large, 3-inch by 5 1/8-inch cupped, heavy-corded rubber flights.

Egg Maid is a new automatic community nest for hens. Rollaway type. Has metal screen floor, separate egg-gathering compartment, eggs roll forward thru a slot into compartment away from hens to avoid breaking, staining. Russell Mfg. Co., 544 Wells St., Caro, Mich.

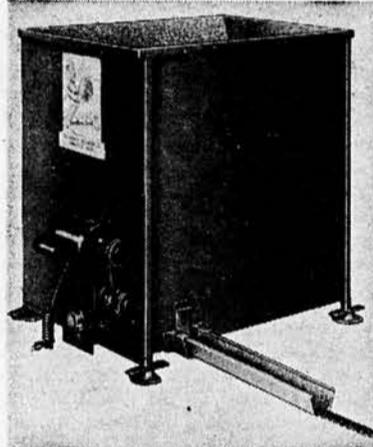
"Bantam Cock" is a new mechanical poultry feeder added to poultry equipment line of The Buckeye Incubator

Snowco Bale Loader picks up and loads hay bales automatically on truck or wagon. Loader hooks bales at both



ends, gently drops them into wagon. Is completely self-powered. No engine needed. No PTO attachment needed. Round bales picked up easily as square ones. Snow Corp., 5002 N. 30th St., Omaha, Nebr.

New, low-cost Krimp-Roller is introduced by the Hesse Company, Pender, Nebr. Roller cracks, crimps, crum-



Co., Springfield, O. Provides low cost mechanical feeding for smaller flock owner, broiler and turkey grower, general poultryman. Hopper holds 350 pounds of feed. Automatic control maintains constant, uniform feed flow to trough line. Trough heights are adjustable, from floor level to 12 inches high. Unit operates up to 300 feet of trough.

New Jamesway Comfort stall is designed to add from 1 to 3 years to a dairy cow's usefulness by giving her the utmost freedom. Manufacturer is James Mfg. Co., Fort Atkinson, Wis. Curved dividers between stalls support 3 horizontal pipes that run length of stall row—for milk pipe line, for control pipe, and for water line.

The Forage Feeder is a new feeder-mixer that can be mounted on truck, wagon or trailer and features power take-off drive, or an independent Onan 10 horsepower 2-cylinder air-cooled engine for constant power. Unit will mix and unload corn or grass silage and all chopped or ground feeds into feed bunks, blowers or elevators. Is ideally suited for silo filling, says Van Dusen & Co., Wayzata, Minn.



bles and rolls all shelled and threshed grains. Has a capacity up to 3,000 pounds per hour and operates on only a 3/4 to 1 1/2 horsepower electric motor.

TREND OF THE MARKETS

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

	Week Ago	Month Ago	Year Ago
Fed Steers	\$23.50	\$24.00	\$32.75
Hogs	24.35	24.85	20.75
Lambs	27.50	28.50	28.00
Hens, 4 to 5 lbs.	.21	.27	.19
Eggs, Standards	.44 1/2	.45	.33 1/2
Butterfat, No. 1	.56	.56	.61
Wheat, No. 2, Hard	2.24 1/2	2.39 1/2	2.41
Corn, No. 2, Yellow	1.60 3/4	1.66 1/2	1.94 1/2
Oats, No. 2, White	.83 1/2	.85	.92 1/2
Barley, No. 2	1.10	1.36	1.31
Alfalfa, No. 1	39.00	—	31.00
Prairie, No. 1	21.00	—	25.00

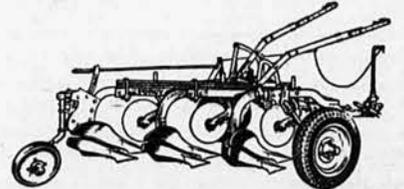
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In the Field

MIKE WILSON
TOPEKA, KANSAS
Livestock Editor

Prairie Flower Pride Mayor, a registered Holstein-Friesian bull owned by WALDO MUELLER, Halstead, has been rated a Preferred Pedigree Sire by the Holstein-Friesian Association of America.

This honor, based on achievements in both milk production and body conformation of parents on both sides of the pedigree, is granted thru the newly-inaugurated Selective Registration Program, adopted by the association effective January 1. It is a new program designed as an additional means to breed improvement, and differs from all previously-established honors in the fact it is based on parental achievement, rather than accomplishment of animal.

Requirements for the Preferred Pedigree rating are difficult to achieve as it is the highest honor awarded thru the Selective Registration system. An integral part of the registration system, rating for this bull will be indicated on his certificate of registry and on all association records.

Zarnowski Trilene Belle, a registered Holstein cow in the herd owned by CLARENCE ZARNOWSKI, Halstead, has just completed a lifetime production record of more than 100,000 pounds of milk on official test with the Holstein-Friesian Association of America. (100,000 lbs. of milk is equivalent of about 47,500 quarts, 4 times production of average U. S. cow.)

In 6 milking periods, covering 1,970 days, this cow has produced a total of 104,410 pounds of milk and 3,143 pounds of butterfat on 2 milkings daily. Her highest single record was made at the age of 3 years 3 months when she produced 20,152 pounds of milk and 656 pounds of butterfat.

ERNEST A. REED & SONS, Lyons, are owners of 2 registered Holstein cows which have further added to their outstanding lifetime production records of more than 100,000 pounds of milk. (100,000 lbs. of milk is equivalent of about 47,500 quarts, 4 times production of average U. S. cow.)

Mt. Joseph Princess has produced 119,745 pounds of milk and 4,403 pounds of butterfat on 2 milkings daily in 7 milking periods, covering 2,528 days. Her highest single record was made at the age of 8 years 11 months when she produced 17,757 pounds of milk and 653 pounds of butterfat.

Thonyma Poch Ormsby Fobes Queen has produced 133,738 pounds of milk and 4,829 pounds of butterfat on 2 milkings daily in 7 milking periods, covering 2,546 days. Her highest single milk record was made at age of 5 years 11 months when she produced 21,394 pounds of milk and 727 pounds of butterfat, and her highest single butterfat record was made at age of 8 years 1 month when she produced 826 pounds of butterfat and 21,069 pounds of milk.

H. A. MEIER, Abilene, is owner of a registered Holstein cow which has just completed a lifetime production record of more than 100,000 pounds of milk. (100,000 lbs. of milk is equivalent of about 47,500 quarts, 4 times production of average U. S. cow.)

In 10 milking periods, covering 3,331 days, Smoky Hill Ormsby Judy has produced 106,601 pounds of milk and 4,443 pounds of butterfat on 2 milkings daily. Her highest single milk record was made at age of 7 years 9 months when she produced 11,623 pounds of milk and 483 pounds of butterfat, and highest single butterfat record was made at the age of 9 years 8 months when she produced 491 pounds of butterfat and 11,409 pounds of milk.

Smoky Hill Mercedes Meierkord, registered Holstein in the same herd, has further added to her lifetime record of milk production after previously reaching the 100,000-pound mark. In 10 milking periods, covering 3,400 days, she has produced 133,665 pounds of milk and 5,385 pounds of butterfat. Her highest single record was made at the age of 6 years 9 months when she produced 15,552 pounds of milk and 628 pounds of butterfat on 2 milkings daily.

Onabank Natalie Gem, a registered Holstein cow in the herd owned by LLOYD SHULTZ, Pretty Prairie, has further added to her outstanding lifetime production of more than 100,000 pounds of milk. Her production records are officially recorded by the Holstein-Friesian Association of America. (100,000 lbs. of milk is equivalent of about 47,500 quarts, 4 times production of average U. S. cow.)

In 7 milking periods, covering 2,840 days, this cow has produced 127,218 pounds of milk and 4,383 pounds of butterfat on 2 milkings daily. Her highest single record was made at the age of 8 years 4 months when she produced 20,868 pounds of milk and 714 pounds of butterfat.

A registered Guernsey cow, Mercury's Gloria, owned by J. C. PENNEY, Gallatin, produced 10,589 pounds of milk and 484 pounds of butterfat, on official Herd Improvement Registry test with the American Guernsey Cattle Club. "Gloria" was a 7-year-old and was milked 610 times while on test.

A second Gold Star Herd award has been made to A. L. MILLER of High Point Jerseys, Route 1, Partridge, on his herd of registered Jerseys, with the American Jersey Cattle Club. The Miller herd won the award after having completed another year on official Herd Improvement Registry testing. The Gold Star recognition is for unusually high production over a 4-year period.

Last year, 21 cows had average production of 8,509 lbs. milk containing 490 lbs. butterfat. Over the past 4 years Mr. Miller has had an average of 19 cows in his herd producing 8,102 lbs. milk containing 476 lbs. butterfat apiece. The Miller herd average is more than 2 times greater than that of the "average" dairy cow in the United States.

WILLIS HUSTON, Americus, has added 2 herd boars to his well-known Duroc herd. One boar is Smooth Admiral, 1949 Iowa grand champion, who in turn sired the 1950 junior champion gilt of Iowa and the 1951 Iowa reserve junior champion boar that sold for \$2,000. He sired the Superior group of 3 gilts at the 1951 Duroc Congress at Cedar Rapids, Ia. His sire was the 1948 Illinois grand champion. Many high-selling boars and females are closely related to this boar. Willis, and other breeders, thinks this boar is one of the best sow sires of the breed. He was purchased from the Iowa Falls, Ia., Duroc Breed-

ers' Association Knotek Brothers, of Iowa, owned prior to that time. Willis also bought a boar back, that he sold a year ago, sired by Golden Fancy. He was purchased by Potter Farms, of Illinois. This boar was a top son of Golden Fancy and out of the best sow family on the Huston farm. Most of the spring pigs at the Huston farm are sired by Ohio Wavemaster, littermate of Perfect Wavemaster, 1951 Ohio grand champion, who has been responsible for some of the top sales the past 18 months.

With 479 pounds of butterfat and 13,334 pounds of milk to her credit, Smoky Valley Carnation Jewel, a registered Holstein-Friesian cow owned by W. G. BIRCHER & SONS, Elsworth, has completed a 282-day production test in official Herd Improvement Registry with the Holstein-Friesian Association of America.

She was milked 2 times daily, and was 3 years, 5 months of age when she began her testing period. Her record averages about 22 quarts of milk daily for the period covered by her test.

With 503 pounds of butterfat and 14,756 pounds of milk to her credit, Shtlars Pearl Inka, registered Holstein-Friesian cow owned by LUTHER SHETLAR, Conway Springs, has completed a 332-day production test in official Herd Improvement Registry with the Holstein-Friesian Association of America.

She was milked 2 times daily and was 9 years 2 months when she began her testing period. Her record averages about 21 quarts of milk daily for the period covered by her test.

The GOLDEN WILLOW POLLED HEREFORD DISPERSAL, at Ranch east of Pittsburg, May 20, was one of the good sales of the year. Total of 170 lots sold for an average of \$512; 29 bulls averaged \$1,106 with 141 female lots making \$390 average. The new pavilion was filled to capacity when the sale got under way. Lot 1 bull, CMR Mischief Domino 30th, topped the sale at \$13,100. He went to Carruthers Ranch, Joplin. Second top of sale was the bull, Golden Mischief Domino 11, a son of the 30th. He sold for \$3,500 to Franklin D. Roosevelt, Jr., Poughquag, N. Y. Shamrock Acres, Meridan, Miss., paid \$3,000 for Golden Mischief Domino 6th, a son of the 30th. Lot 64 topped the female sale at \$1,100. She was L. Onward Queen 7th, bought by O. H. Grimes, Tulsa, Okla. Two females, one with a calf at side, sold for \$710 and \$700. The cow and calf went at \$710 to Lloyd Mathis, Parsons, Kan. The \$700 female went to O. E. Rueter, Avon, Ill. This dispersal sale featured many top animals of the breed. The price range was such that everyone who wanted a registered Polled Hereford could own one. The wide distribution of the offering indicated the interest shown in this herd owned by G. K. Brinkman, Pittsburg, Kan., and George E. Harmon, Liberal. Polled Herefords were sold into 11 states; 75 head went to Missouri, 51 head to Kansas; 26 to Oklahoma, 1 to 5 head to New York, Arkansas, Mississippi, Kentucky, Illinois, Nebraska, Colorado and South Dakota. The sale was under the management of F. W. Farley, Sr., Memphis, Tenn. Auctioneers were Jewett Fulkerson, Hamilton James, Freddie Chandler, assisted by press representatives.

Word comes from ALBERT MORGAN, Alta Vista, that he is planning to invite 4-H Club and FFA members to his farm this fall to attend an auction sale of Hereford calves and Poland China boars and gilts. Albert is a young man, very actively engaged in breeding and promoting better livestock. He has produced some of the top animals in various shows and sales, fat barrows as well as breeding stock.

I have a very interesting letter from GLENN F. WISWELL, Springhill, Poland China breeder. Glenn says he has farrowed one of the nicest bunch of spring pigs he has ever bred. He is also fitting some of his good Polands to be exhibited at the fall fairs. Crops certainly are looking fine in the Springhill area. Corn is being cultivated and alfalfa is yielding a very satisfactory crop. The Wiswells also are planning to hold a fall sale of registered Poland Chinas.

At the recent Calgary, Canada, Spring Bull Sale, WM. E. THORNE, Lancaster, purchased the top Shorthorn bull. He paid \$3,000 for Ranoch Memory, consigned by T. G. Hamilton, Innisfail, Alberta, Canada. This outstanding bull is a son of Pittodrie Fortune. The 165 Shorthorn bulls in this sale sold for an average of \$475.

Entries for the STATE AND NATIONAL ANGUS SALES are due. The secretary of the Kansas Angus Association would like all Angus breeders to send entries in as soon as possible. This will give the sale committee an opportunity to see all of these cattle before July 1. It will be a big job to do, but with co-operation of everyone it can be accomplished.

The secretary of the KANSAS ABERDEEN-ANGUS ASSOCIATION extends a welcome to every one from their new home on Route 2, Manhattan. He also asks that you please address all correspondence to him at that new address. The latchstring is always out and the coffeepot is on, so drop in on the Ljungdahls for a chat.

Around 350 visitors attended the 6th annual Field Day held at the O'BRYAN RANCH at Hiattville, May 9. Events were a judging contest, type demonstrations of Polled Hereford cattle and Hampshire hogs, and a demonstration of grooming and fitting an animal for the show ring. R. L. Pemberton, secretary of the Hampshire Swine Registry, gave a type demonstration on Hampshire hogs. Joe Lewis, Alfalfa Lawn Farm, Larned, gave a fitting and showing demonstration on a Polled Hereford, using an outstanding daughter of EER Victor Tone. There was a judging contest under the direction of Ray Hoss, Kansas State College. Cattle were divided into 4 classes: Hampshire hogs into 3 classes, and there was one Quarter Horse class. FFA members, 4-H groups and individual adults were the 3 divisions of contestants. Don Chittenden, secretary of the American Polled Hereford Association, placed the cattle.

At the HENRY SCHWALLER Hereford Dispersion sale at Hays, June 5, 40 lots of Polled and Horned Herefords sold for a total of \$5,733 to average \$143. Five bulls averaged \$173; 35 females, \$140. Top bull was Lot 1, KHR Royal Plato 16th; sold for \$300 to Fred J. Hamburg, Ellis. Top female was Lot 7, SS Flash Maid with helper calf at side; sold to Nick Leiker, Hays, for \$250. Vic Roth, Hays, was sale manager and auction was conducted by Freddie Chandler.

On Friday, May 29, 68 head of Herefords, at the HECK RANCH at Lawrence, sold for \$15,092 to make a general average of \$222. Eight bulls averaged \$215; 60 females, \$223. Top bull in the auction was Lot 1, Rayford M Lad 5th; sold for \$430 to Carl McCloud, Topeka. Top female, Lot 15, HHR Lady Domino 39th, went to Woody Hereford Ranch, Barnard, for \$470. Most of the offering consisted of young open helpers. Col. Gene Watson was auctioneer.

Public Sales of Livestock

Aberdeen-Angus Cattle
July 20—Simon Angus Farm, Madison, Kan.
September 21—WRS Angus Ranch, Hutchinson.
September 24—National Aberdeen-Angus Sale, Hutchinson.
October 7—Kansas Aberdeen-Angus Association Feeder Calf Sale, Salina.

Hereford Cattle
September 5—Jay L. Carswell & Sons Dissolution Sale, Alton, Kan.
September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.
September 8—Albert Morgan, Alta Vista, Kan.
September 26—Frank J. George & Sons, Lebo, Kan.
September 28—4E Ranch, Topeka, Kan.
October 5—Broken Winecup Ranch, Marion, Kan.
October 5—Beeks & Cleland, Baldwin, Kan.
October 7—Brown Bros. & Streeter Funk, Fall River, Kan.
October 10—BK Ranch, Burr Oak.
October 16—Delford Ranch, El Dorado.
October 17—CK Ranch, Brookville.
October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.
November 2—Sumner County Hereford Breeders, Wellington.

November 4—Lincoln County Hereford Association, Sylvan, Kan.
November 6—Cowley County Hereford Breeders' Association, Arkansas City, Kan.
November 9-10—Sunflower Futurity, Hutchinson.
November 11—W. H. Tonn & Son, Haven, Kan.
November 18—Bellyacres Ranch, Paxico.
November 23—Solomon Valley Hereford Association Sale, Osborne, Kan.
December 4—South Central Hereford Association, Newton, Kan.

Polled Hereford Cattle
July 11—Joe O'Bryan Polled Hereford Sale, Hiattville, Kan.
September 4—Mar-Don Farm Reg. Polled Hereford Complete Dispersion Sale, Don S. Myer, Columbia, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
September 14—Vic Roth, Hays, Kan.
September 29—4E Ranch, Topeka, Kan.
October 12—Perry Hedrick & Sons Registered Polled Hereford Production Sale, Anutt, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.
October 2—Midwest Polled Hereford Association, Desler, Neb.
October 31—Leo Ebel & Son, Wamego, Kan., and W. R. Zimmerman & Son, Alta Vista, Kan. Sale at Alma, Kan.
November 2—Frank Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.

November 7—O'Bryan Ranch, Registered Calf Sale, Hiattville.
November 17—O'Bryan Ranch Polled Herefords, Hiattville.
November 20—Central Kansas Polled Hereford Association, Herington, Kan. O. J. Shields, Sales Manager, Lost Springs, Kan.
November 21—Jesse Riffel & Sons, Enterprise.

Red Poll Cattle
November 11 & 12—Annual meeting and National Sale, Topeka, Kan. F. A. Sloan, Secretary, 3275 Holdrege St., Lincoln, Nebr.

Shorthorn Cattle
October 14—Feeder Calf Sale, Salina.
October 19—Shorthorn and Polled Shorthorn Sale, Cambridge, Nebr. Thos. Andrews, Sale Manager, Cambridge, Nebr.
November 13—Kansas Polled Shorthorn Sale, Hutchinson.
November 14—Kansas Shorthorn Sale, Hutchinson.

Corriedale Sheep
July 27-28—All-American Corriedale Breeders Show and Sale, Columbia, Mo. Rollo E. Singleton, Secretary-Manager, 108 Parkhill Ave., Columbia, Mo.
Sheep—All Breeds
June 19-20—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, care State Department of Agriculture, Jefferson City, Mo.

Poland China Hogs
September 8—Albert Morgan, Alta Vista, Kan.
September 24—Glenn F. Wiswell & Son, Springhill, Kan.

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8th & Jackson
Kansas Farmer - - Topeka, Kansas

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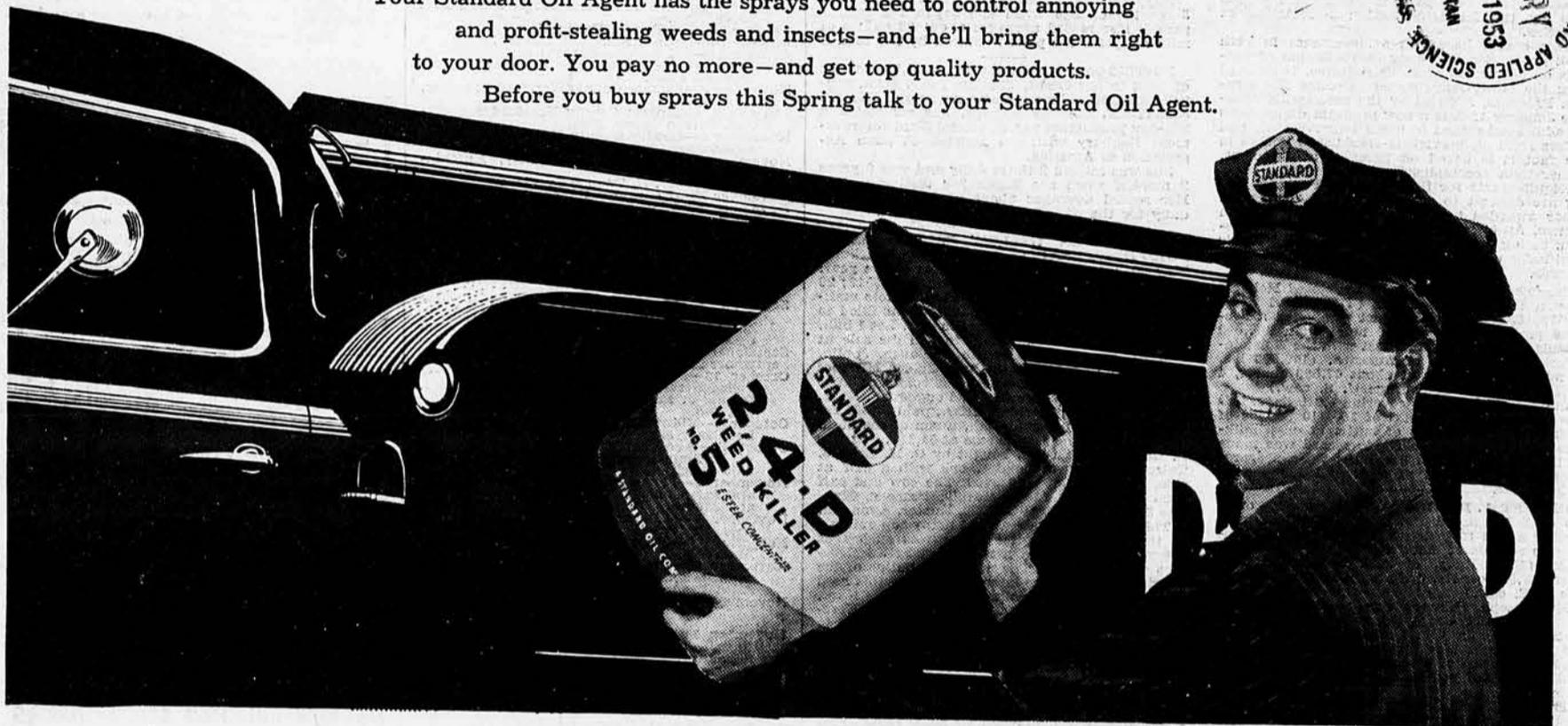
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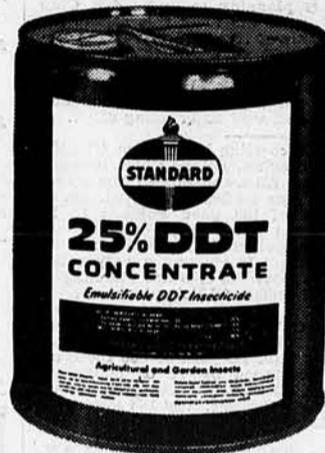
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