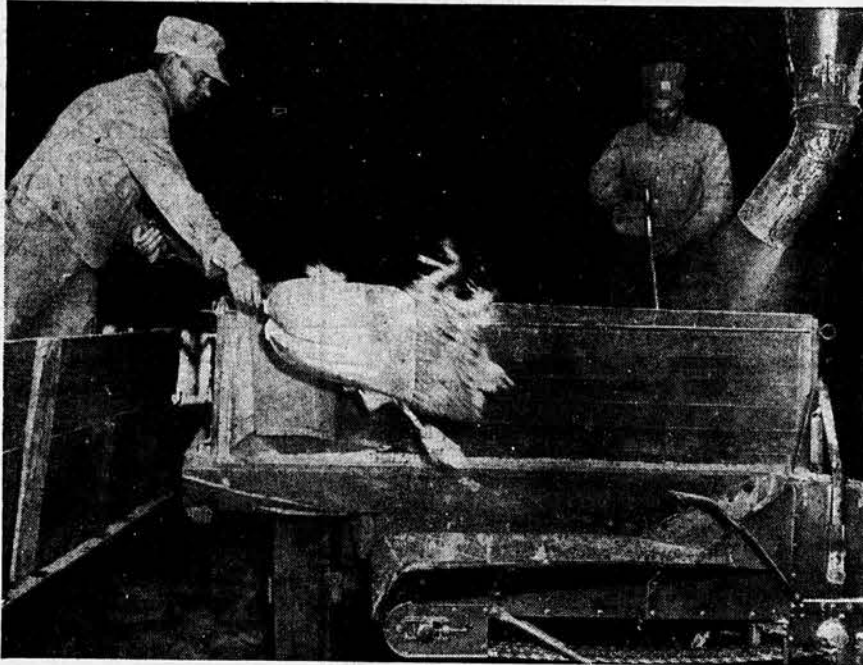
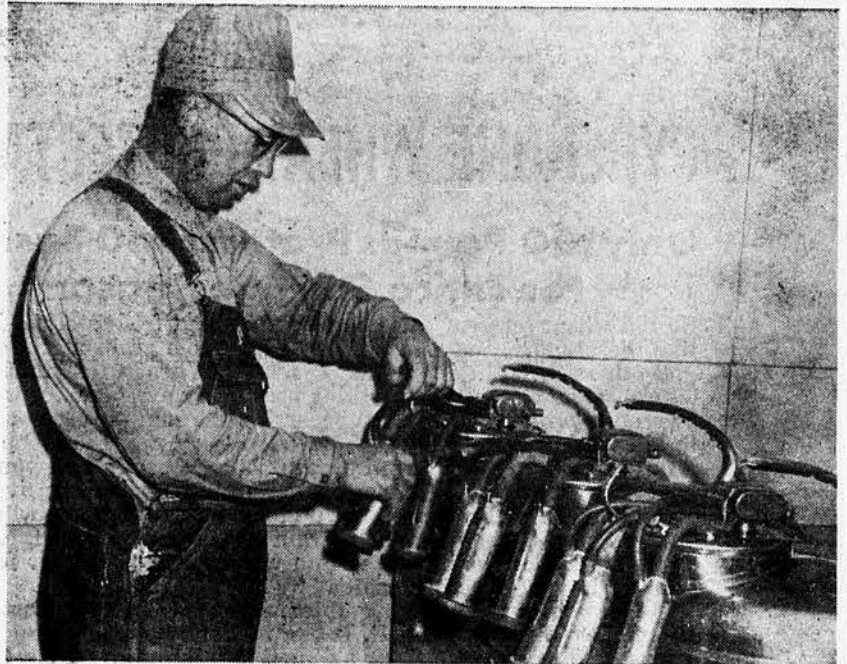


Kansas Farmer

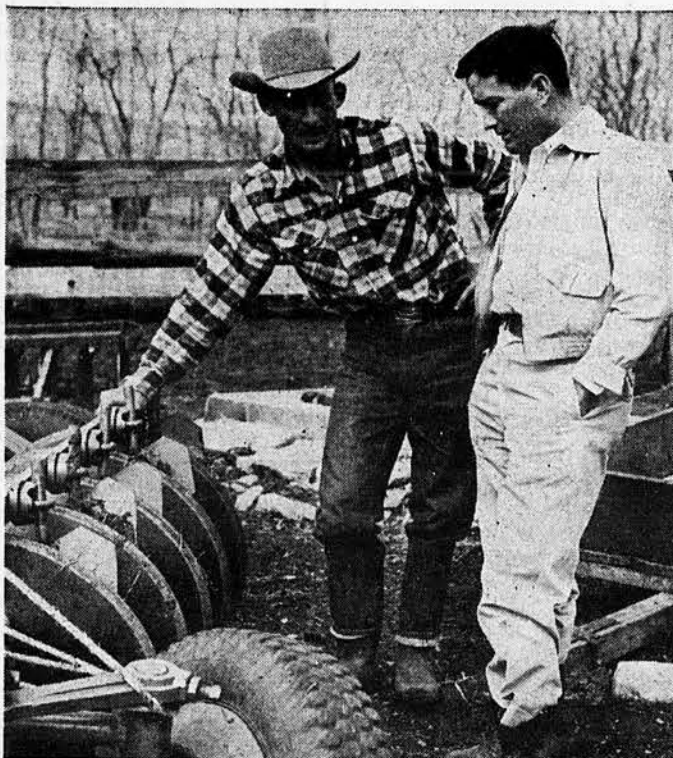
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KANSAS STATE COLLEGE
GEORGE MOWRY



VETERAN HIRED MAN Erwin Wendt, left, teams up with beginner, Carl DeBusk, Jr., in feed grinding job on George Mowry farm, Jackson county. Good farm help now is a major problem.



GOOD EQUIPMENT ranks high on hired man's list of important things, whether in dairy barn or field. Here, Darwin Rogers, hired man for Ross Price, Jackson county, starts clean-up on milkers.



MACHINERY THAT (above) will do the job is emphasized by Wallace Nichols, left, who tells Calvin Orr, Pottawatomie county agent, this new plow just purchased by his boss is a "mighty welcome piece of equipment."

HIRED MAN HAS (at right) to be jack-of-all-trades. Ben Eichem, hired man for C. N. Bressler, Pottawatomie county, can fix most anything in addition to handling cattle and operating farm machinery.

What Do Hired Men Want?

Here they speak their minds. You may be surprised at the points they mention as being most important

HOW YOU TREAT your hired man is more important than what you pay him. At least that's what the hired men say. With good farm help almost impossible to find these days, we thought it would be interesting to talk to a few experienced men who make [Continued on Page 30]

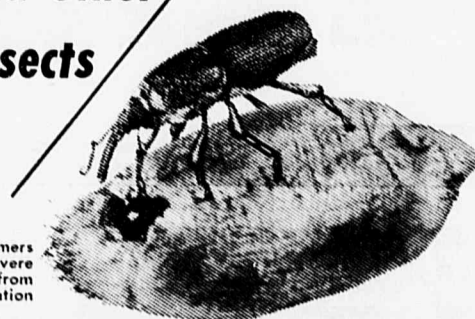


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- Do You Have Enough Water?.....Page 4
- If You Like to Travel.....Page 6
- Why Gains Were BetterPage 22

STOP WEEVILS

and other
Storage Insects



Stored grain insects cost wheat farmers three ways: (1) By dockage for severe infestation; (2) By loss of weight from any infestation; (3) By re-infestation of following crops.

PYRENONE* WHEAT PROTECTANT

Reg. U.S. Pat. Off.

**Only 100 Pounds Protects 750 Bushels
For Entire Storage Season**

Stored wheat on your farm can be protected from storage insects like the granary and rice weevils, angoumois grain moth, cadelle and others—even in open bins. Pyrenone Wheat Protectant works entirely differently from anything previously available for this job. Pyrenone protects grain from becoming infested—it is not a cure to kill the bugs after they have infested the grain. Pyrenone is not a fumigant—you don't need airtight bins to use it, and you don't have to worry about it damaging the grain or poisoning livestock. Pyrenone Wheat Protectant has no toxic hazards for you when you apply it, and Pyrenone-treated grain can be used for feed, for food or for seed. The insecticide is in a wheat-product carrier base, so your grain is not "contaminated" by it.

When you put your new crop of wheat into storage, just apply Pyrenone Wheat Protectant. It can be done by a mechanical dispenser on the combine, by sprinkling it into the grain box, by spread-

"My results with Pyrenone Wheat Protectant were excellent. It really prevented insect damage to my stored wheat. It's easier to prevent insect damage than try to cure it." — Cornie E. Dyck, Route 1, Newton, Kans.

ing it on the truckload of grain and cutting it in, by sprinkling it on the elevator or conveyor, or by spreading it in the bin as the grain goes in. Whichever way you use it, Pyrenone Wheat Protectant will stop weevil damage to your grain for the entire storage season.

Hundreds of wheat-belt farmers have already used Pyrenone to protect their stored grain and tests on many Kansas farms conducted by Kansas State College proved the effectiveness of Pyrenone control.

You'll find Pyrenone on sale at leading farm supply stores. Ask your dealer today for your supply—the 50-pound bag will treat 375 bushels of wheat at a cost of less than 3 cents per bushel. Don't let the weevils take your profits—this year's crop is all yours!

ALSO AVAILABLE—Pyrenone Grain Protectant®—is another formulation of Pyrenone for protecting corn, oats, barley, rye, sorghum, rice and other crops in storage. One pound treats 10 bushels of grain and gives season-long protection, even on unshucked corn and on corn in open cribs.



Pyrenone*

WHEAT PROTECTANT

See Your Local Dealer for Pyrenone Protectants

COUNTY—Dealer, Town

ANDERSON—Garnett Elevator Co., Garnett
Spradlin Pharmacy, Garnett
Greeley Cooperative, Greeley
BARBER—O. K. Cooperative Grain & Merc. Co., Kiowa
BARTON—The Claffin Grain Co., Inc., Claffin
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
BUTLER—Schneider Brothers Grain, Augusta
Douglass Grain Co., Douglass
The Home Grain Co., Inc., El Dorado
W. W. Oil Co., El Dorado
CLARK—Ashland Coop., Ashland
COFFEY—Burlington Elevator Co., Burlington

COUNTY—Dealer, Town

J. R. Baxter Prod. Feed, Waverly
Star Grain & Lumber, Waverly
COMANCHE—Protection Coop., Protection.
COWLEY—Bartlett & Hunt, Inc., Arkansas City
The Udall Farmers Union Co-op Ass'n., Udall
CRAWFORD—Frazier's Produce, Girard
DICKINSON—Farmers Union Co-op Ass'n., Carlton
Welch Sales Company, Herington
Farmers Union Coop., Talmage
DOUGLAS—Barteldes Seed Co., Lawrence
Derby Grain, Inc., Lawrence
EDWARDS—Owstons Store, Offerle
ELLIS—Golden Belt Co-op Ass'n., Ellis
ELLSWORTH—Holyrood Co-op Grain & Supply Co., Holyrood
FINNEY—Garden City Cooperative Equity Exchange, Garden City
Garden City Cooperative, Pierceville
FORD—Dodge City Cooperative, Dodge City

COUNTY—Dealer, Town

Kingsdown Coop. Exchange, Kingsdown
FRANKLIN—Ottawa Cooperative Ass'n., Ottawa
GOVE—Gove County Co-op Ass'n., Grainfield
Co-op Union Merc. Co., Grinnell
Quinter Co-op Ass'n., Quinter
GRAY—Garden City Cooperative, Charleston
Cimarron Cooperative Equity Exchange, Cimarron
Farmer Coop. Grain & Supply Co., Ensign
GREENWOOD—Eureka Mill & Elevator Co., Eureka
S & E Feed Co., Madison
Schottler Hardware, Madison
HAMILTON—Farmers Cooperative, Kendall
HARPER—Anthony Farmers Coop. Ass'n., Corwin
Imperial Mills, Harper
HARVEY—Hensley Feed & Seed Co., Burrton
Bullen Feed Mills, Halstead
Farmers Coop. Grain & Mercantile, Halstead
Newton Mill & Elevator, Newton
Sanner's, Newton
HASKELL—Farmers Elevator & Merchandise Co., Satanta
JACKSON—Delia Grain Co., Delia
Beister Feed & Seed Co., Soldier
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
LABETTE—Karnes Grain Products, Oswego
LINCOLN—Farmers Elevator, Lincoln
LINN—Wait Grain Co., Centerville
Farmers Exchange, Prescott
LOGAN—Standard Milling Co., Oakley
MARSHALL—Farmers Co-op Grain Co., Blue Rapids
Herkimer Co-op Business Ass'n., 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
MEADE—Fowler Equity Exchange, Fowler
Holmes Motor Co., Plains
The Plains Equity Exchange & Cooperative Union, Plains
MIAMI—Farmers Coop., Osawatimie
Washburn Hatchery, Paola
MITCHELL—Jones Feed & Seed Co., Beloit
Farmers Coop. Elevator, Glen Elder
The Johnson-Thierolf Merc. Co., Solomon Rapids
MONTGOMERY—Cherryvale Grain Co., Cherryvale
Reed & Widlick Feed & Implement Co., Elk City
MORRIS—J. L. Launder's Milling Co., Council Grove
NEMAHA—James Graff, Corning
NESS—Skaggs Grain Co., Brownell
OSBORNE—Voss Grain & Seed Co., Downs
OTTAWA—C. L. Cain Grain Co., Delphos
Farmers Elevator Co., Minneapolis
PAWNEE—Farmers Grain & Supply Co., Burdette
Pawnee County Cooperative, Larned
Sanford Coop. Grain & Supply Co., Sanford
POTTAWATOMIE—Farmers Union Coop., St. Mary's
PRATT—Helmke & Son, Pratt

Test New Crop For Kansas Area

The Howard Kientz family of Riley county, well-known truck farmers—are co-operating in a new sugar beet experiment on their farm. They have planted 10 pounds of sugar beet seed supplied by a Stockton, Calif., sugar beet corporation in a test to determine possibility of sugar beet commercial production. If the crop proves successful on the Hunters Island Kientz farm, a new industry may arise in that area of the state.

The Holly Sugar Beet Corporation is co-operating with County Agent Elmer Blankenhagen and the Kientzes in the test using a new hybrid variety of beets. Seed was planted near a recently-constructed irrigation well on the Kientz farm. If the new crop is a success, it may replace the large quantities of Irish potatoes grown in the Hunters Island area. Farmers have been looking for a new crop there due to poor potato growth in recent years.

The Kientzes are active leaders in 4-H Club work and have several children enrolled in the Riverview 4-H Club.

Test Hybrid Sorghums

Hybrid sorghums are a new, big development in agriculture. Plant breeders say possibilities with these new hybrids are as great as with hybrid corn.

Tests with hybrid sorghums have produced heads one-third larger than their parent varieties. In Texas, yields were 20 per cent greater than the best of 16 non-hybrid varieties and 44 per cent better than average of 16 commercial varieties.

Dale Weibel, Kansas State College agronomist, says mechanics of developing the new hybrids have been quite well worked out. But selection, testing and then developing seed for distribution will take from 5 to 10 years. Then, new varieties will replace commercial sorghums in Kansas, he predicts.

The college agronomy department also reports tests using fertilizers with sorghums in Kansas indicate fertilizers pay on low-fertility sandy soils. It still is questionable whether fertilizers are profitable with sorghum crops on other kinds of soil.

Name REA Head

New head of Rural Electrification Administration is Anchor Nelsen, Minnesota lieutenant governor. He is a farmer, has served in his state senate 16 years, has been active in rural electric co-operative work.

COUNTY—Dealer, Town

RENO—Midwest Feed Co., Inc., Hutchinson
Reno Consumers Coop. Ass'n., Hutchinson
Moorman Feed & Seed Co., Inc., Nickerson
Weeks Seed Co., Sylvia
REPUBLIC—Sis Seed & Fertilizer Co., Belleville
RICE—Chase Co-op Union, Chase
Central Kansas Elevator, Lyons
RUSH—The Farmers Cooperative Co., Rush Center
SALINE—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
SHERMAN—Goodland Co-op Equity Exchange, Goodland
Terminal Grain Co., Goodland
SMITH—Smith Center Mill & Elevator Co., Smith Center
STAFFORD—Soden Implement Co., St. John
SUMNER—Argonia Drug Co., Argonia
H. H. Hunter Grain Co., Corbin
Mayfield Elevator, Mayfield
THOMAS—Coffey Grain Co., Brewster
The Hi-Plains Co-op Ass'n., Colby
TREGO—Collyer Co-op Ass'n., Collyer
WOODSON—J. E. Sowder Seed Co., Toronto

NEWS



From Your State Capitol

Shooting Game Birds

House bill 437 makes it unlawful for any person to shoot at or kill any quail, pheasant or any game bird except when on the wing unless wounded; or shoot game birds from a vehicle. Punishment for violation is a fine of not less than \$25 nor more than \$250 and imprisonment in county jail for not less than 10 days nor more than 30 days.

Fish and Bullfrogs

House bill 315 gives State Fish and Game Commission permission to fix catch limits of fish and bullfrogs. Under the new law it is unlawful to fish with a bank line, limb line or trotline unless such line has a securely-attached tag or label on it. Tag must have name, address and fishing license number of person fishing with lines. A trotline must be "run" at least once in every 24 hours by person fishing with the line; new law also eliminates taking fish by hand fishing, toe fishing, use of noodle hooks, brush lines, jug or floating lines, or any other means other than rods, lines and baited fishhooks; bullfrogs may be taken by hand dipping, hook and line, and by hand.

Win Safety Poster Contest

Two farm boys are winners of 1953 Kansas Farm Bureau safety poster contest. They are Frederick Folsche, 12, Troy, and Darrell Keener, 17, Olmitz. A total of 823 posters were entered from 63 counties.

Top 5 winners in younger group of entrants included: Kathryn Anne Johnson, 13, Luray; Matt Lucas, 13, Leecompton; Larry Skillman, 11, Waverly; Edwin R. Hill, 12, Pleasanton, and Fred Folsche.

Top 5 winners in older group included: Darrell Keener, Myra Jean Beebe, 16, Stanley; Maurice Durall, 14, Raymond; Jimmie Ellwood, 15, Windom; Marcille Campbell, 16, Miltonvale.

Expand Farm Research

Sixty acres of bottom land near Manhattan have been purchased by Kansas State College for experiments with new varieties and strains of grasses, corn and legumes. The land, in Ashland bottoms, joins the Soil Conservation Service nursery and is near the KSC horticultural farm.

KANSAS FARMER

Continuing Mail & Breeze

ARTHUR CAPPER... Publisher (1893-1951)
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Dick Mann... Associate Editor
Gordon West... Associate Editor
Florence McKinney... Women's Editor
Dr. C. H. Lerrigo... Medical Department
Mike Wilson... Livestock Editor
J. M. Parks... Protective Service
Scherl L. Walquist... Advertising Manager
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Three years, \$1; one year, 50 cents. Copy 5c.

CASE

VARIABLE-SPEED DRIVE

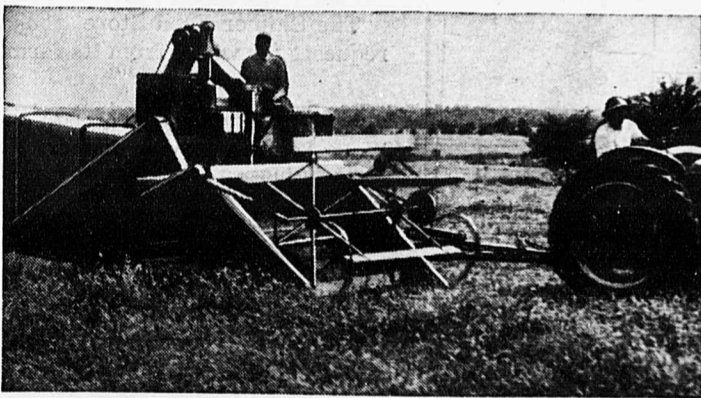
Variable-Speed Drive lets you slow down or speed up as crop and field conditions permit without stopping or shifting gears, while combine operates steadily at right rate for finest work and full capacity. This wide range of travel speeds in each gear... instantly controlled by handy lever next to driver's seat... assures maximum threshing efficiency in lodged or heavy to thin stands.

CASE
SELF-PROPELLED
COMBINE
9, 12, 15-Ft. Cut



Lets You Travel to Suit Your Crop"

HYDRAULIC HEADER CONTROL and many other features for the handiest harvest you ever had...



Hydraulically-controlled header raises or lowers smoothly at touch of foot pedal on all Case Self-Propelled Combines with 9, 12, or 15-foot cut. System operates directly from engine whether machine is on the go, stopped, or threshing unit is not running. Cutting height can be adjusted instantly or "inched" up or down to suit varying crop conditions.

Spike-tooth or rub-bar cylinder, extra-long straw rack, and famous Case Air-Lift cleaning make the most of the yield by getting more and cleaner grain or seeds. Case-built tractor-type engine provides steady power with surprisingly little fuel, very low upkeep. One man easily operates controls to harvest all kinds of crops in all kinds of conditions.

* * * *

Other CASE Combines include the low-cost 5-foot "F-2" for PTO operation with 2-plow or larger tractors... the pull-type 12-foot "K-2" and similar 9-foot "M-2" with hydraulically-controlled auger headers. See your Case dealer now about the model to fit your farm... make the most of every acre, every hour, every crop.

AMERICA'S FAVORITE COMBINE

Where seed-growing is a serious business... where grains grow rank and tough... one pull-type combine stands in a class by itself—the Case 6-foot Model "A." With more than a century of seed-saving experience built into its spike-tooth cylinder and long straw rack it lives up to its reputation of being "built like a thresher." Whether harvesting tough-hulled clovers, fluffy grasses or brittle beans, the Model "A" covers extra acres per day, gets extra pounds per acre with minimum cracking. Farmers like its strong steel frame... quick, easy adjustments... ability to go right along whether crop is rank, tough, or tangled. Case Air-Lift cleaning floats off chaff, lets seeds fall free and clean without waste. Can be equipped with bagging platform as shown.



SEND NOW FOR COMBINE CATALOG

Get the inside story. Mark here or write in margin any size combine, tractor, or kind of farm machinery you may need.

J. I. Case Co., Dept. E-47, Racine, Wis.

☐ Self-Propelled Combines ☐ Low-cost "F-2"
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Do You Have Enough Water?

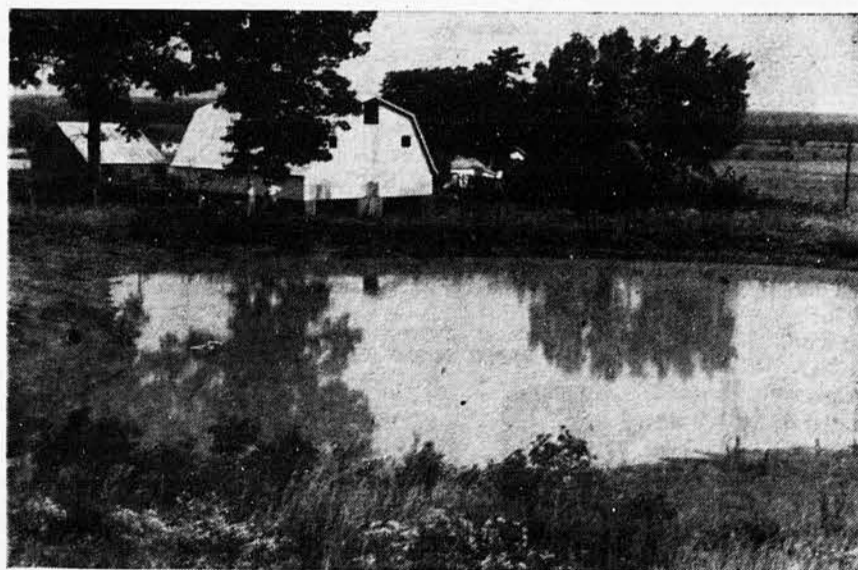
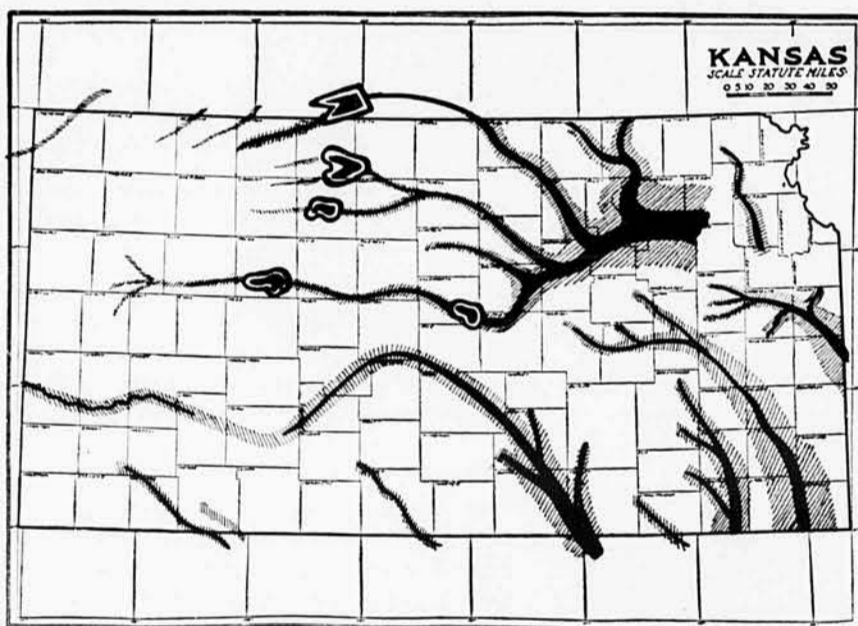
Shortage is a serious, two-fold problem in much of state: Where to find abundant supply; where to find good enough quality for household and livestock use.

By DICK MANN

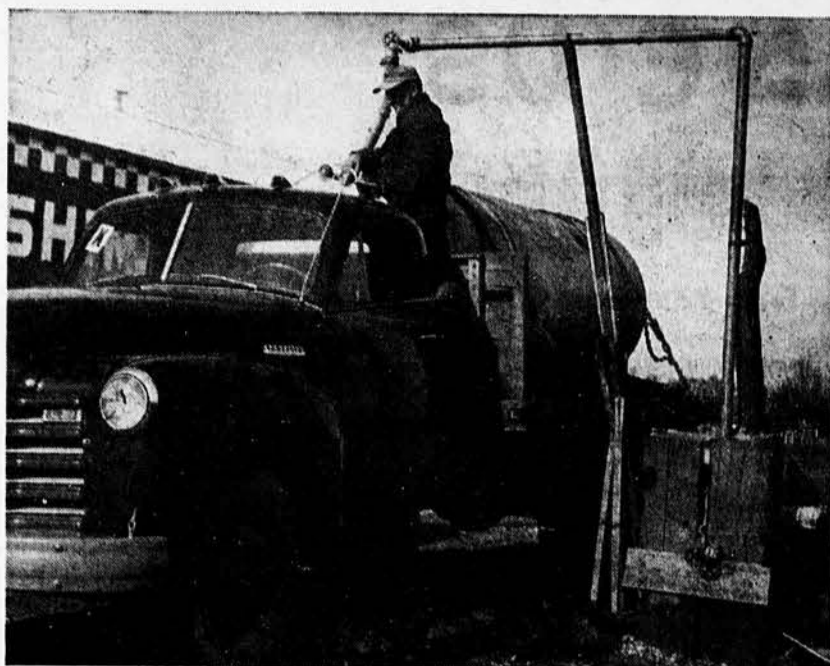
Editor's note: This is fourth article in Kansas Farmer on water management problems in Kansas. First 3 articles dealt with flood control. This one concerns serious water shortage problems that plague large areas of the state.

WHILE the spotlight is turned on flood control in Kansas, thousands of Kansas residents are suffering either inconvenience or actual hardship because of a lack of water. It is little known by the general public, but Kansas does have a serious and permanent water supply problem in large areas of the state. In talking about water supplies, we don't mean irrigation water, but water for household use, livestock and for town, city and industrial use.

Water resource engineers of the State Board of Agriculture point out that, except in river valleys and in small isolated sections, the entire eastern half of Kansas from a line running north and south thru Wichita,



THOUSANDS OF NEW farm ponds are needed on Kansas farms to boost house and stock water supplies. Also needed are complete conservation and watershed treatment of streams.



A TOTAL OF 150 farmers within a 15-mile radius of Topeka depend for all or part of their water supplies on Clayton Nordstrom, custom hauler. Biggest customer buys 2,000 gallons a week.

is short of water all or part of the time. The joint State and Federal Geological Surveys of the state show a large section in North Central Kansas and almost all of Southeast Kansas are in areas where adequate supplies of water for stock wells are generally difficult to obtain.

Dwight Metzler, sanitation engineer for the State Board of Health, says 60 to 75 towns in the 250 to 600 population size do not have city water systems because of inadequate ground water supplies. Surveys of wells in these communities often show 75 per cent of the individual wells are polluted.

There are 410 towns and cities in Kansas that have city water systems. Of this group, 8 have yearly shortages and 25 others have occasional shortages.

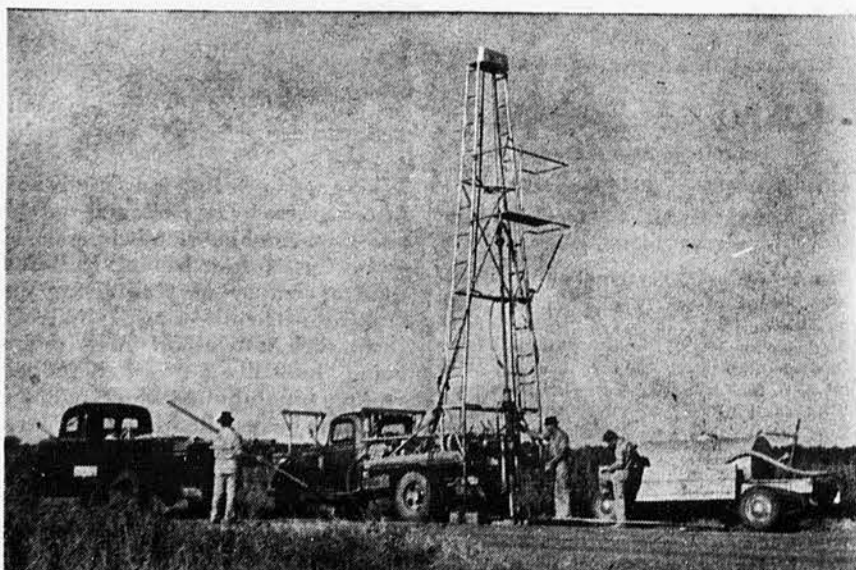
The city of Wichita, largest in Kansas, is having serious difficulties. The city recently drilled additional wells 30 miles away, but a long range plan is being considered to go 75 miles out to tap Kanopolis reservoir. Since Wichita has become an important industrial and air center, its water supply problem is of concern to the entire state and Nation.

All of Eastern Kansas has been especially hard put for water this last year. Since last Christmas, Mound City, in Linn county, a town of 600, has been shipping in 15,500 gallons of water a day. El Dorado, one of our larger cities, reported in February it had only a 90-day supply. Recent rains have helped here.

The Topeka Daily Capital recently reported Kansas trucking firms have hauled millions of gallons of water both for farm stock and human consumption since the shortage started.

The Shimer Feed Store, at southeast edge of Topeka, had so many requests for water from its farmer customers [Continued on Page 12]

THIS STREAM-FLOW MAP (at left) prepared by William Steps, Water Resources Division, State Board of Agriculture, shows wide fluctuation in stream flows. Shaded areas represent average stream flow, while dark solid areas represent stream flow in drouth years.



GROUND WATER in Kansas is being constantly studied by the Ground-water Division of the Federal and State Geological Surveys. This portable drill is an invaluable tool. Picture by Oren-Bingham.

Kansas Farmer

News and Comment

Over Their Farms

KANSAS FARMERS examine their problems from every angle. Like this. A note from Rex L. Perry, county agent at Clay Center, states: "I am sending you advance information on an air tour scheduled for all day May 18, or in event of bad weather, it will be held on May 22. The air tour is co-sponsored by Clay County Agriculture Extension Council and the Soil Conservation District."

"Flying Farmers owning planes and owners of flying service planes are working to make the event a success. Bonafide farmers will be flown over their farms at no cost to them. Purpose of air tour is to point out good conservation practices, also erosion and practices not so good. We will appreciate your giving this event publicity."

If you never have flown over your farm you probably will some day. It certainly will give you a different picture—from a different angle—than you have had before. If you see things that need to be corrected, you also will see some good points that will make you even more proud of your well-farmed acres.

No One-Crop State

SECRETARY OF AGRICULTURE Ezra T. Benson is thinking of proclaiming wheat acreage allotments for the 1954 crop, and marketing quotas. Figures indicate the U. S. may have a total supply this year that will exceed the normal supply by 24.2 per cent. It looks as if a wheat problem if not "the" wheat problem with us. In case of hoped-for peace "the" wheat problem probably will descend upon us. Kansas has been establishing new wheat records and averages these last few years. These are due to several factors—weather conditions, better varieties, improved farming methods, wider use of fertilizers. We are bound to have smaller crops some years than others—this year, for example. But it would seem future wheat production will average higher than in earlier years. If U. S. wheat production also is larger in proportion, it is apparent a wheat surplus must be considered. One way to avoid a surplus would be to find additional markets at home and abroad. It is hopeful this will be more successful in the future than in the past.

Another way to avoid a surplus will be to plant land in other crops. This can be done in many states, including Kansas. For the great wheat state of Kansas isn't limited in production to one crop. As evidence, we quote from the recent Southwest Agricultural Congress held at Garden City.

"With good management, which would include full use of crops grown in the area and a reserve kept for use in dry years, there is no

reason Western Kansas cannot just about write its own ticket in production of beef cattle, lambs, swine and, in some areas, dairy cattle.

"Western Kansas-grown feeds fed thru livestock instead of being shipped to other areas will make a more stable agriculture in Western Kansas," speakers pointed out.

Three of the speakers, Bass Powell, Edgar Williams and L. D. Morgan, explained the possibilities and profitableness of 3 beef production systems—full feeding, deferred feeding and creep feeding—and urged little deviation from these systems as developed by Kansas State College and livestock producers.

Experience and experimental work show lamb feeding is a sound project for Western Kansas, according to Rufus F. Cox, Kansas State animal husbandry department head. This program is one of the good ways to take the area out of cash crop production, he added.

Dairying can be profitable in irrigated areas of Western Kansas, G. H. Beck, of the college dairy staff said. He quoted figures from tests at the Garden City experiment station which show dairy cows, stocked one head to 1 1/3 acres of irrigated pasture, had good grazing 8 months.

With milo grain, clear weather and other advantages, Fred Bolt, well-known swine producer of Isabel, said he could not see why the Western Kansas producer who liked to work with swine would have any worries.

These ideas are recommended because they have been proved workable by practical farmers. Kansas isn't a one-crop state.

"Thoughts to Live By"

DUE TO SERIOUS illness of Larry Schwarz we cannot bring you his "Thoughts to Live By" in this issue. We know you join us in the very deep hope he soon will be back to his normal, robust health. You have told us his keen insight into everyday living, as expressed in his "Thoughts," has been a source of strength and courage and comfort to many of you readers. Your letters of appreciation to him in the past have been equally encouraging to him. If you wish to send him a get-well card or note at this time, just address him at 1625 Plass, Topeka, Kan.

Wanderers Return

OUR FAMOUS farmer travelers, "The Wandering Williams family," are back with us in this issue, and you will hear from Mrs. Williams in coming issues. She will be writing about Utah, Zion and Bryce canyons, Grand Canyon of Arizona, Navajo country, Taos, and the Cliff Dwellers of the Mesa Verde. Go along with her in her trip highlights that will come to you in *Kansas Farmer*.

You will recall Mr. and Mrs. Frank Williams, who live on a farm near Marysville, in Marshall county, decided to see America. They have been in virtually every section of the United States, and Mrs. Williams has written interestingly of their travels. In one *Kansas Farmer* article she told exactly how they prepare for a trip, clothes they pack, how they fit out their car for sleeping, utensils and stove they take along for cooking, how they get tips on interesting places to visit.

In this connection, here is a happy incident that thoroly pleased Marjorie, daughter of Mr. and Mrs. Williams, who now is Mrs. Donald R. Cornelius, of California. Marjorie told her mother: "We were camped at Crater Lake when we noticed 2 parties with Kansas license tags. When we talked to them we discovered they were from Augusta. As they talked of where they had been and where they expected to go, they kept referring to a Mrs. Williams. It



"A little girl is that bouncy object who gets between you and your TV screen."

"Some folks leave their footprints in the sands of time. Others just leave the mark of a heel."

"Great minds discuss ideas; average minds discuss events; small minds discuss people."

"Too many folks itch for what they want but just won't scratch for it."

"If you're interested you're interesting."

"Card in a diamond store: Try these on for sighs!"

"Co-operation is working together for the good of all, with special privileges for no one."

finally dawned upon me they were talking about my mother. They had used that series of articles in *Kansas Farmer* to fix sleeping quarters, the suggestions for cooking meals, and they were using the *Kansas Farmer* articles as a guide-book."

A good many readers will remember Marjorie. Her husband, Dr. Donald R. Cornelius formerly of Manhattan, is connected with the University of California in the forestry division as a grass specialist.

Develop New Greenhouse

A NEW KIND of greenhouse is being used in wheat mosaic experiments at Kansas State College. The new \$60,000 structure can open and shut its windows to keep temperatures even. Humidity, "hours of daylight," and to some extent intensity of light as well as temperature will be carefully regulated, to grow wheat and raise insects under controlled conditions.

Ventilators will be opened or closed by a thermostatically-controlled device which uses compressed air. Ideas from other colleges for the new structure were added to KSC specialists ideas to obtain this new greenhouse-laboratory. Many new features will aid in control of mosaic—which cost Kansas farmers 30 million dollars in 1949.

We in Kansas can have every confidence in KSC scientists finding some way to control virtually any costly crop or livestock disease. You know the story of past performance. For every \$10 invested thru Kansas State College in research, hundreds of dollars have been returned to Kansas bank accounts. There isn't one single farm family or town family or business in this state that hasn't profited by findings of Kansas State College scientists. Indeed, no other service institution has contributed, and continues to contribute, more to our improved standard of living than Kansas State College.



"We're tickled you could come for dinner, Mother!"



"There's no use putting more water in, Mom. They didn't drink all I gave them yesterday."

Article No. 7

We Are Seeing America—Utah; Zion, Bryce Canyons, and Cedar Breaks

By FRANCES R. WILLIAMS

WHILE UTAH boasts many unusual natural wonders, some are inaccessible to the average tourist. Three popular scenic spots are Zion and Bryce canyons, both National Parks, and Cedar Breaks, a national monument, all located in the southwestern part of the state, and reached either from Salt Lake City or from Las Vegas, Nev., over well-improved, well-traveled highways.

We traveled to Zion from Las Vegas on highway No. 91, passing thru Utah's "Little Dixie," a fertile semitropical valley which produces alfalfa, fine fruit and other crops. St. George, principal trading center of the region, was settled early by the Mormons and is noted for its white stucco Temple, completed in 1877, a landmark visible for many miles. Our route followed the course of the Virgin river, which according to a historical roadside sign (whose author must have been a wit), "This river becomes so muddy, the fish have to swim backwards to get the dust out of their eyes."

Zion National Park was first discovered by a Mormon scout, Nephi Johnson, in 1858. It was established as a national park in 1919 to protect the 148 square miles of spectacular canyon country. Zion canyon, about 15 miles long, has been carved by the Virgin river, over a period of millions of years. Unlike her name, the Virgin is a silt-laden stream, which carries 3 million tons of ground-up rocks from the canyon during the course of a year. Altho a small stream, the steep fall per mile, 50 to 70 feet (nine times that of the Colorado in the Grand Canyon), accounts for the great grinding power as well as the comparative softness of the rock formations.

Colors Are Beautiful

Zion is a symphony of color. The deep red of Vermillion Cliffs, predominate, gorgeous reds, deepening to purple, sometimes topped with a startling white layer, then capped with a brilliant red. The soft green of the cottonwood, box elder, willow and green grass which carpets the floor of the canyon, contrasts with the colorful rock formations of the canyon walls. As one gazes upward towards the rim, dark green splashes of pinyon pine and juniper show against a white or red background.

A huge rock formation, "The Great White Throne," massive symbol of Zion, rises majestically for nearly one-half mile from the floor of the canyon. Composed of white sandstone, deposited ages ago, when this area formed the bottom of the ocean, the giant "Throne" is perhaps the most striking feature of the park. Angel's Landing, a lower formation, with dull-red coloring, is a contrast to the glittering white of the Throne. The park highway traverses the floor of the canyon, alongside the river with the different rock formations on either side, until the Temple of Sinawava is reached, with a tree-shaded wild flower garden nestling at the base of the canyon walls. Here the highway ends, but interesting trails lead to hidden canyons, the east and west rims. The short trail to Weeping Rock is a popular walk. Here the water

drips from solid rock and plants form a hanging garden, an interesting spectacle.

We left the park by way of the Zion-Mount Carmel highway, a skillful engineering feat. Eleven and one-half miles of the road are within the park boundary. The highway climbs the north slope of Bridge mountain, by a series of switchbacks to enter the tunnel near the Great Arch which forms the head of the canyon. The tunnel, 1.06 miles long, is blasted from solid rock, with 6 openings or great picture windows. Parking space is provided where one may park his car for views of Pine Canyon below. Unusual rock formations mark the greater part of the highway to Mount Carmel junction, where one turns north for the trip to Bryce, or south to the north rim of Grand Canyon. Zion park is open all year, but the naturalist rangers leave soon after September 1.

On to Bryce Canyon

Located 90 miles from Zion, Bryce canyon includes some of the most interesting exposures of the Pink Cliffs formation, whose rocks are among the most colorful of any forming the earth's crust. Major beauty spots of the area are found where the forces of erosion have cut back into the plateau forming an amphitheater or wide canyon filled with pinnacles and grotesque forms.

Bryce canyon became a national park in 1928, after considerable delay in securing land titles from private owners who had settled in the area. The park was named for Ebenezer Bryce, an early settler who ranged cattle in the region. The park, comprising 56 square miles, is noted for beautifully-colored columns of limestone and sandstone sculptured by wind, rains and frost. Bryce is one vast extent of magic wonderland of beauty, unparalleled anywhere.

Unlike Zion, where the visitor traverses the floor of the canyon, the park highway at Bryce enables the visitor to see the canyon from the rim. Spur roads, from the main highway which follows the Paunsaugunt plateau, lead to lookout points, where the most striking views are obtained. The park road extends to Rainbow Point, winding thru forests and passing the Natural Bridge, a pink sandstone arch on the canyon's rim. Most of the park area and some 30 miles of Pink Cliffs may be seen from Rainbow Point.

The character of the place is aptly described by the Paiute Indian name of the region meaning, "red rocks standing like men in a bowl-shaped canyon." There is a series of amphitheaters, largest is 3 miles long and 2 miles wide, filled with myriad figures of fantastic shape, its domes, spires and temples decorated in every color of the spectrum. One great formation has been

named "The Cathedral," one figure, "Queen Victoria."

The approach to Bryce is unusual. No evidence of the canyon is visible until the visitor walks to the edge of the rim and the breathtaking beauty below is suddenly revealed. Miles of horseback and foot trails lead down from the rim to the valley below. Sunset Point is one of the popular viewpoints and starting of the Navajo Trail. The visitor descends by stairsteps, thru a doorway cut in the wall of the canyon, then follows a series of switchbacks downward for 1.5 miles. Bryce is a paradise for the color camera fan, and pictures in color taken from the lower levels of the trail are most outstanding.

Unless one is accustomed to desert sun, the altitude of the region and the reflection on the minerals in the rocks are likely to result in a bad case of sunburn. Altho the park headquarters are open all year, the lodge and cafeteria close about mid-September. Excellent campgrounds are provided.

Cedar Breaks Came Next

Twenty miles east of Cedar City, within Dixie National Forest, where the high plateau breaks away to the west, is a great amphitheater called Cedar Breaks, also in the Pink Cliffs formation. Most spectacular portion was established as a national monument in 1933 and placed under the national park service.

While Cedar Breaks is of the same



"There—wasn't that better than a haircut?"

Hollywood." "Located near huge drifting sand dunes, gorgeously colored canyons, photogenic cliffs and blue-green forests, Kanab is the locale for many Hollywood productions." I had just finished reading aloud this description, when rounding a curve, we came upon a cavalcade parked alongside the highway, a group of trucks, vans, and a bus bearing the signs, "Warner Brothers." The trucks contained an assortment of equipment and horses. A man carrying a red flag signaled us to a stop, explaining they were shooting a scene down on the river bank, and wanted to pick up the dialogue without the risk of noise from passing cars.

We sat in the car and watched the activity below us. Cameras shaded by

COMING, MAY 16 . . .

Altho the Federal Pure Food & Drug Administration has modified its campaign to clean up grains for human consumption, there still will be plenty of need for you to keep your wheat free of contamination during farm storage. In the May 16, 1953, issue of *Kansas Farmer*, Dell Gates, Kansas State College Extension entomologist, will tell you how it can be done.

geological formation as Bryce, there is a marked difference between the 2 scenic spots. There are fewer fantastic figures in the Cedar Breaks bowl, but the formation is on a more gigantic scale and has even greater variety of colors. The Pink Cliffs here have a thickness of 2,000 feet and 47 different tints and colors have been distinguished. The heavily-forested rim reaches an altitude of nearly 11,000 feet. Cliffs are white or orange at the top, then break into tints of deep rose and coral. High elevation affords an excellent view of distant mountains and desert.

Cedar Breaks is operated in connection with Zion and Bryce but is open only 3 summer months. Highway No. 14 passes thru the monument, connecting with Cedar City and highway No. 89. One may visit the Breaks as a side trip from Bryce or Zion. The drive west to Cedar City is most spectacular descending thru Cedar canyon, where in some places a solid rock shelf forms the highway.

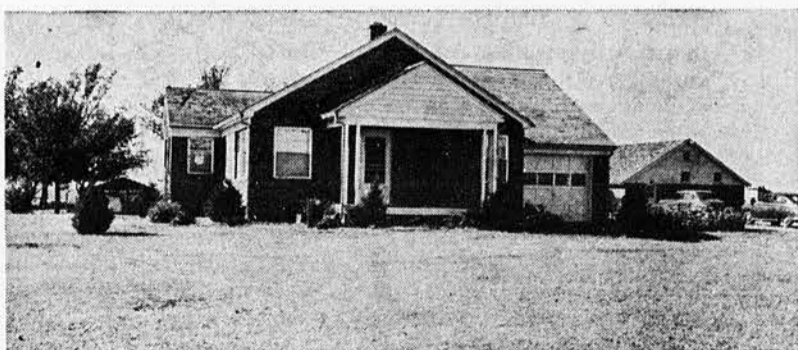
En route to the north rim of the Grand Canyon, we passed thru the town of Kanab, the center of a ranching country, which is often called "Little

squares of burlap, technicians and directors stood about sweating, shirtless men, gesticulating. We craned our necks to get a glimpse of a glamorous heroine, but all we could see was a horse in the river, then we were signaled to move on. Farther on, another group was shooting scenes at the entrance of a cave, in the red rock formation near the highway. Later we learned the picture being made was an animal picture, in the starring roles were a lion and a horse, with a lone cowboy having a part in the film. We wonder whether we will ever see the finished product and if we will recognize the locale.

A short time later we entered Kaibab National Forest, which tops a flat mesa we had seen ahead of us for some time. As the elevation became higher, the terrain changed from semidesert with scrub junipers to forests of pine, fir and aspen. One of the attractions in September is the stand of aspen. Foliage turns to gold, almost overnight, and contrasts with the white bark. We were amazed with the variety of the wild flowers of every shade and color. A few years ago, the Kaibab Forest was an example of the folly of upsetting the balance of nature. When the numerous cougars were killed off by professional hunters to protect the cattle in the area, the deer herds increased so rapidly the forest was overgrazed.

(Coming soon, another travel article by Mrs. Williams.)

ONCE WAS LITTLE SQUARE HOUSE



A LITTLE SQUARE HOUSE actually was used in building new, modern farm home of Mr. and Mrs. H. F. Wampler, McPherson county. Old house frame was used in front section of new home. Ceiling had to be lowered somewhat. Windows were cut at different locations. And it took some jiggling around to get old house squared up properly, but there it is. Added to it is section in rear and attached garage at right.

Gone Fishin'

Last word in what you want to know on what's latest in casting rods, reels, lines, lures, is found in a new booklet, "Fishing, What Tackle and When." It's published by the South Bend Bait Company, South Bend, Ind. For your free copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

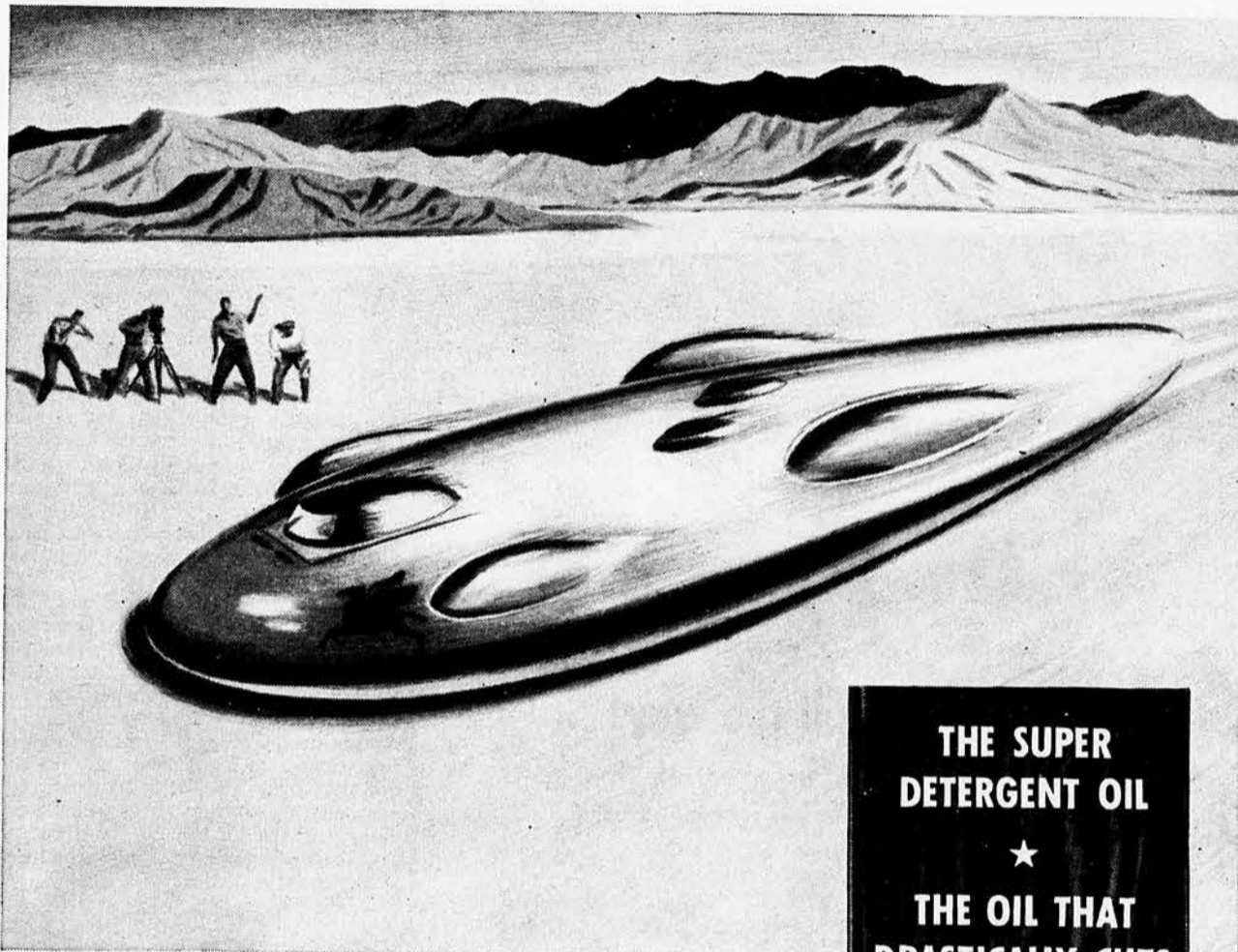
Lots of Water

"There's No Place Like Home— with Lots of Water" is title of new booklet of F. E. Myers & Brothers Co., Ashland, O. It shows how right selection of water supply equipment can bring better living on the farm. Covers Myers line of equipment—systems, pumps, conditioning equipment. For your free copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

COMING EVENTS

May 4—Southern District Guernsey spring dairy show, Newton.
 May 4—Northwest District Milking Shorthorn spring dairy show, Hill City.
 May 5—Central District Guernsey spring dairy show, Salina.
 May 5—Southwest District Milking Shorthorn spring dairy show, Dodge City.
 May 5—Johnson county National Home Demonstration Unit celebration, Lawrence.
 May 5—Edwards county annual Balanced Farming and family living field day, Russell A. Taylor home, 4 miles east of Kinsley on US 45, 9 A. M.
 May 5—Republic county lamb and wool show, Belleville, 10 A. M. to 3 P. M.
 May 5—Ford county district Milking Shorthorn show, Dodge City fair grounds, 9 A. M.
 May 6—South Central District Milking Shorthorn spring dairy show, Hutchinson.
 May 6—Barton county home economics advisory luncheon and program planning meeting, Holsington.
 May 6—Clay county grass tour.
 May 6-7—Lamb and wool school, St. Joseph.
 May 7—Barton county district home demonstration meeting, Larned.
 May 7—Shawnee county poultry tour.
 May 7—Rush county beef tour.
 May 7—Douglas county spring Guernsey show, Lawrence 4-H fair grounds.
 May 7—North Central District Milking Shorthorn spring dairy show, Herington (tentative).
 May 8—Mitchell county spring crops tour, Beloit.
 May 8—Northeast District Milking Shorthorn spring dairy show, Topeka.
 May 8—Morton county Balanced Farming and Family Living area award, Elkhart, 8 p. m.
 May 9—Southeast District Milking Shorthorn spring dairy show, Erie.
 May 9—Johnson county district 4-H judging tour.
 May 9—Ottawa county 4-H judging school for 5-county area, Minneapolis fair grounds.
 May 9—Gray county crops district judging school.
 May 9—Norton county district 4-H home economics judging school, Norton, 10 A. M.
 May 9—Annual collegiate livestock judging contest, Manhattan, sponsored by Kansas State College Block and Bridle Club.
 May 10—National 4-H Sunday (observances as arranged locally).
 May 10—Finney county 4-H Sunday services and basket dinner, Garden City 4-H building, 12:30 P. M.
 May 10—Comanche county rural life Sunday, all churches.
 May 11—Northeast Parish Jersey spring dairy show, Horton.
 May 11—Kiowa county leader training meeting with Gladys Myers of KSC, Greensburg, 10 A. M.
 May 11—Nemaha county poultry meeting with Marlon E. Jackson and M. A. Seaton of KSC.
 May 11—Crawford county meeting on repair of small electrical equipment, Girard, 10 A. M. to 3 P. M.
 May 11-12—Barton county leader training school in family recreation with Shirley Bessey of KSC.
 May 12—Doniphan county poultry tour, 10 A. M. to 3 P. M.
 May 12—Ness county grain school, Bazine.
 May 12—Dickinson county parish Jersey show, Abilene.
 May 12—North Central Parish Jersey spring dairy show, Abilene.
 May 13—Central District Jersey spring dairy show, Hutchinson.
 May 13—Barton county dairy day.
 May 13—Doniphan county soil conservation and crops tour, 10 A. M. to 3 P. M.
 May 13—Reno county district spring Jersey show, Hutchinson.
 May 13—Hamilton county wheat inspection tour, Hamilton, 10 A. M. to 4 P. M.
 May 14—Neosho county tillage demonstration.
 May 14—Barton county leader training school in lampshade making with Ellen Batchelor of KSC.
 May 14—Crawford county tree and shrub planting demonstration, farm 9 miles west of Girard, 1:30 P. M.
 May 14—Edwards county dairy day, Kinsley, 10 A. M.
 May 14—Sumner county spring Jersey show, south central parish, Wellington 4-H building, 10 A. M.
 May 14—South Central District Jersey spring dairy show, Wellington.
 May 14—Ottawa county home economics spring tea, Ada school.
 May 15—Neosho county landscape architect tour.
 May 15—Nemaha county-wide crops and conservation tour.
 May 15—Garden City Branch Experiment Station Dairy Field Day, Garden City.
 May 15—Russell county bin spraying demonstration with Dell Gates of KSC. Time and place to be announced.
 May 15—Southeast District Jersey spring dairy show, Oswego.
 May 15—Garden City Branch Experiment Station Dairy Field Day, Garden City.
 May 16—Nemaha county health examination, Seneca.
 May 16—Barton county area 4-H poultry judging contest.
 May 16—Elk county 4-H showing and fitting school, Howard fair grounds.
 May 18—East Central District Jersey spring dairy show, Garnett.
 May 18—Jefferson county crops tour, time and place to be announced.
 May 18—Norton county district 4-H livestock judging school, Earl Sutor farm near Zurich, 9 A. M.
 May 19—Cheyenne county 4-H livestock judging school with V. E. McAdams and Lot F. Taylor of KSC, H. G. Hereford farm, Atwood.

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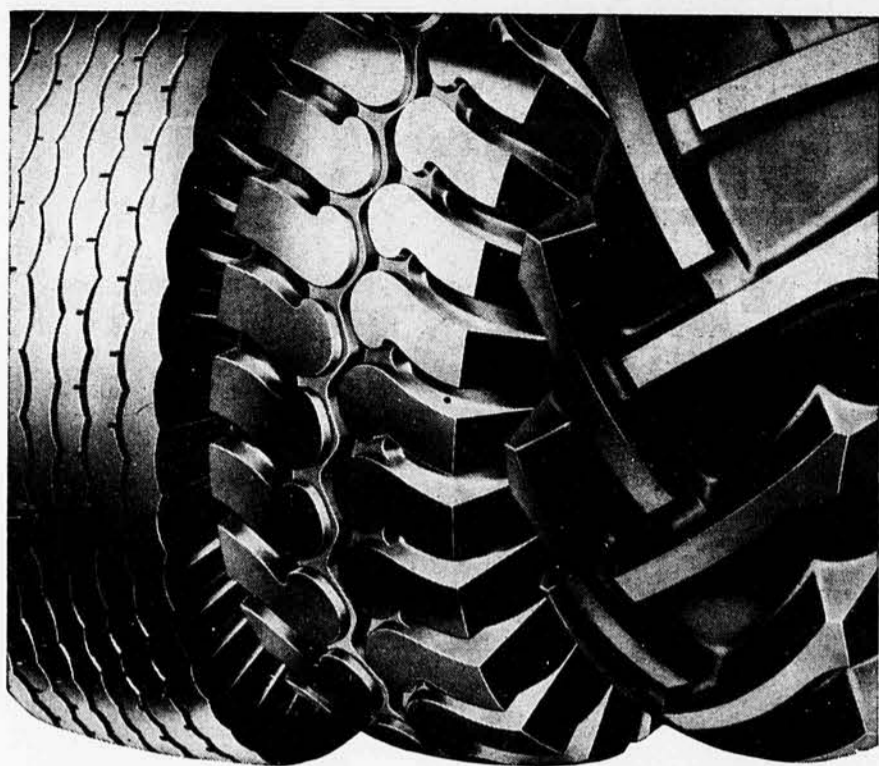


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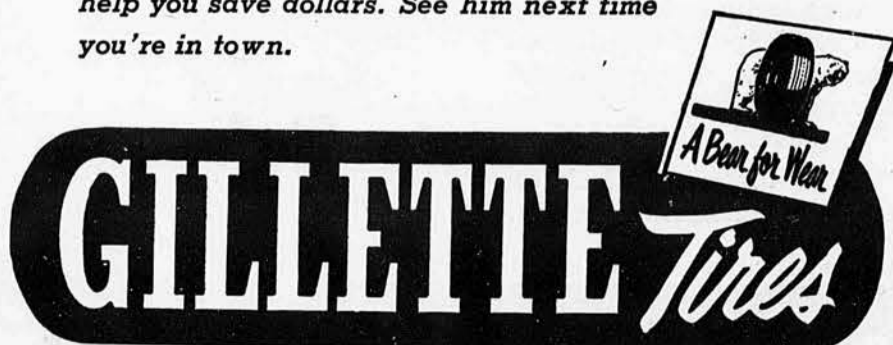


Time and Labor Savings! Specialized, harder-working Gillettes mean faster, fuller days of work for all your vehicles and farm machinery—real savings in time and labor.



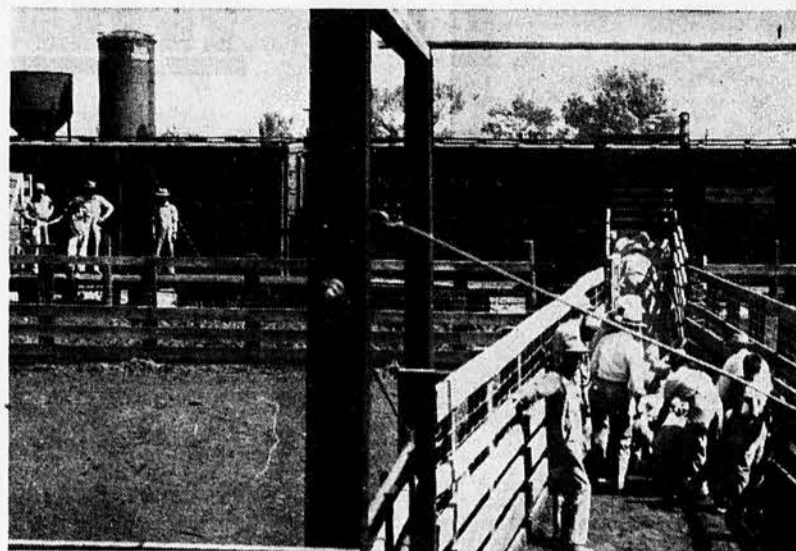
Maintenance Savings! Gillettes are built to take all the punishment—to ease the strain on your tractors, trucks and on your car. They'll help you reduce your repair and maintenance costs.

Your local Gillette Dealer is a tire expert. He will be glad to show you how he can help you save dollars. See him next time you're in town.



DIVISION OF UNITED STATES RUBBER COMPANY

Quality of Lambs Means Top Price For Sherman County Sheepmen



IN THE CAR, lambs from 20 or 30 producers are "so uniform you couldn't pick one man's lambs from the other" when they are produced by the kind of co-operation you find in Sherman county.

SOME COUNTIES may have more lambs, but for uniformity, Sherman county takes the honors. Co-operative production and marketing of spring lambs is bringing Sherman sheepmen top market price or practical top every time, and won half of the state's Spring Lamb Production contest awards last year.

Back in 1946, there were only 200 ewes in all Sherman county on the early lamb program. Next year, 300 Texas ewes were brought in by Carl Elling, of the Extension service, for Wayne Curry and Lawrence Morgan. And more joined year by year to swell the number to 3,500 ewes now in the lambing program, with 30 producers co-operating. A few sheep bought locally are also in the spring program and there are some fall lamb producers in the county.

No Prettier Sight

There's not a prettier sight, guesses Evans Banbury, county agent, than a whole carload of lambs filing in from 20 or 30 producers all over the county, and every one so uniform you couldn't possibly pick one man's sheep from the other.

When a carload like that comes to market, there's not much trouble finding plenty of interest among commission firms and a 50-cent to \$1 advance on the market. Interest of Sherman county men follows right to market. One of the producers goes to market with each shipment—not so much to look after the livestock as to study market procedure, learn the value of marketing a uniform group in carload lots, know what market men are looking for.

What makes sheep so attractive in this northwest country? Well, spring lambs fit in well with wheat—give farmers a chance to fit livestock in with a crop. Wheat is in before time to handle lambs and stock is marketed before wheat harvest time. Temporary pasture fits in well with the program. The climate, too, is ideal. Ordinarily, lambs are on the ground before stormy holiday weather, so little equipment is needed and marketing 100 per cent lamb crops is customary. Spring lambs also give an income right before wheat harvest when it's really important—3 weeks ahead to give time to arrange for repairs, gas and oil for farming operations.

Uniformity carried thru to the production contest sponsored by Kansas City Chamber of Commerce, Kansas Livestock Association and Extension Service, when Sherman countians L. D. Morgan, Floyd Pickett, Wayne Curry and Glenn Curry, all of Goodland, last year won 4 of 8 awards made in state. It was interesting to note each of the Sherman producers showed \$13 to \$15 cost of production per lamb, without variation. This figured in depreciation, interest, taxes, feed, buck, marketing and miscellaneous costs.

The awards, presented at Hutchinson Ram Sale, are based on weight of lambs, weight and grade of wool, feeding and marketing program, age of lambs (per cent of early lambs).

Flocks in the county range from 50 to 400 ewes, gross return from lambs runs 100 to 125 per cent of cost of ewes annually with most producers getting 100 per cent lamb crop. Program followed is almost step by step that set up

(Continued on Page 9)

I WONDER HOW THAT STARTED . . .

"April Fool"

Many believe April-fooling began in Western Europe with the change in the calendar in France, in 1564. It was custom to wind up new year festivities by April 1 (starting March 25), and call on friends and give them some token. When the calendar changed to start the year on January 1, Frenchmen started their "April-the-first" remarks—either in protest of new calendar or in mockery.

As early as the 1600's, Thomas Fuller wrote:

"The first day of April, you may send a fool whether you will."

In 1760, "Poor Robin's Almanac" contained this line:

"The first of April some do say, is set apart for All-Fool's Day."



originally by Mr. Elling. Start is usually made with yearling ewes, majority flushed with grain. Lambing season is from late October to December 15. The weaning date is May 15. Ewes are flushed May 20 to June 15, chiefly on milo and barley, some on wheat, corn and molasses. Rams are turned in some flocks as early as May 20 to July 15.

Grain is fed ewes October 1 to lamb marketing unless wheat pasture is available. Lambing season is November 1 to December 15. Grain is creep-fed lambs from December 1 to marketing which starts in April. Creep-feeding includes ground grain, some whole grain and a 5 to 10 per cent protein supplement.

Most Sherman county producers ordinarily use alfalfa hay for lambs or alfalfa meal or chopped hay.

Bucks Are Purebreds

Bucks used are all top-quality purebreds, mostly Hampshires, a few Suffolks, mostly from purebred breeders in the area. Tendency is to use 4 bucks with 100 ewes. "There's quite an advantage to having enough bucks, just for insurance," Mr. Miller stated. "We don't stress registry as much as good characteristics. Our policy on bucks well repays us with a uniform lamb crop."

Shearing is done commercially about May 1. Yearling ewes shear 11 to 13 pounds and altho the market is erratic, good-quality wool brings above average prices. The majority of sheep are wormed and sprayed before May 15. Ewes are on pasture and out of the way for wheat harvest.

By May 20 last year, many of the sheepmen had 90 per cent of their lambs marketed. By that date, 3 shipments had been made, each top or practical top, totaling 1,500 lambs from about 30 producers. Marketing started last year, April 7, at \$31.50. Next shipment was April 28 at \$30, all to Omaha. Fourteen men shipped 600 lambs May 19. Average weights were between 95 and 100 pounds each time.

Co-operation is their whole story of success.

Thank You

Received my *Kansas Farmer* today and I really do enjoy reading it a lot.—Mrs. Emil A. Kennedy, Sr., Rt. 1, St. Paul, Kan.

Study Improved Poultry Marketing

Improved marketing practices were given grocery men and retailers of poultry and eggs from 15 Northeast Kansas counties in Topeka April 13 to 16. About 100 persons attended the 4-day training class in latest methods of selling poultry products.

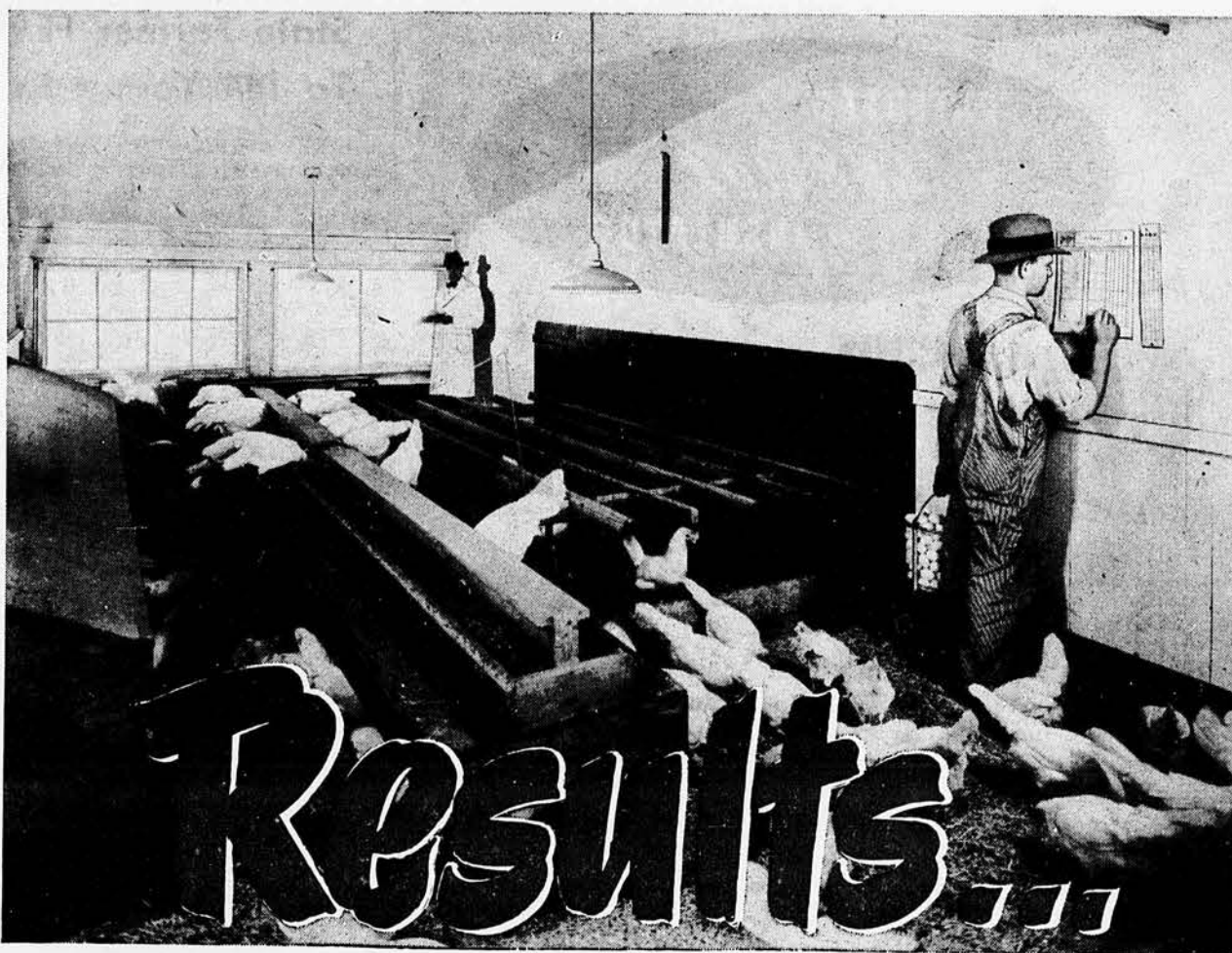
James B. Shaw, merchandising specialist for the Poultry and Egg National Board, Chicago, Ill., conducted classes. He gave new ways to cut up turkey and chicken, for more sales and uses of new cut-up pieces. Mr. Shaw also gave tips on better egg storage, purchase and marketing. Other parts of the course were on methods of increasing sales and reducing costs while maintaining quality.

Sponsoring the event were the Topeka Food Dealers Association, Chamber of Commerce poultry committee and the Kansas State Board of Agriculture marketing division.

Is It True?

Is it true bulls are most excited when red cloth is waved in front of their eyes?

It has been proved in tests that it's the brightness of the cloth when moved that excites or maddens a bull—not the color of the cloth! All cattle are virtually color blind. A blue tablespread will excite a bull, too!



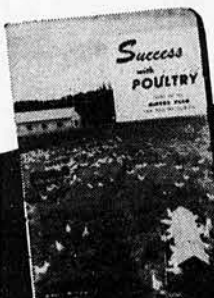
Make Albers CHICK STARTER Your Best Buy This Spring!

● Poultry raisers everywhere report Albers Chick Starter tops in getting fast, uniform growth at minimum cost. Albers feeders also say their Albers-fed pullets develop into bigger, healthier, higher producing hens.

These claims bear out findings of the Albers Research Station, where layers raised

according to the Albers Plan produced at a rate of 65% throughout the last laying year!

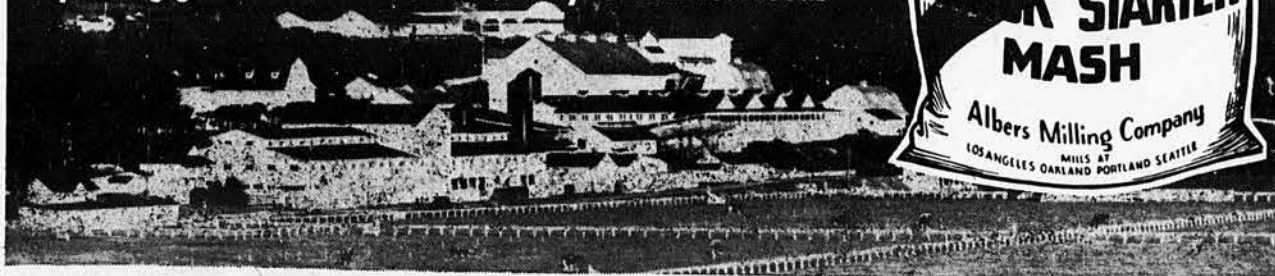
This year start your chicks on Albers—and get the benefit of Albers' 57 years' experience in feed manufacturing—of Albers' research in poultry nutrition—and of Albers' careful attention to Quality Control.



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BETTER Start with Albers... for a BETTER laying Flock this Fall!

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proving ground for all Albers Quality-Controlled Feeds



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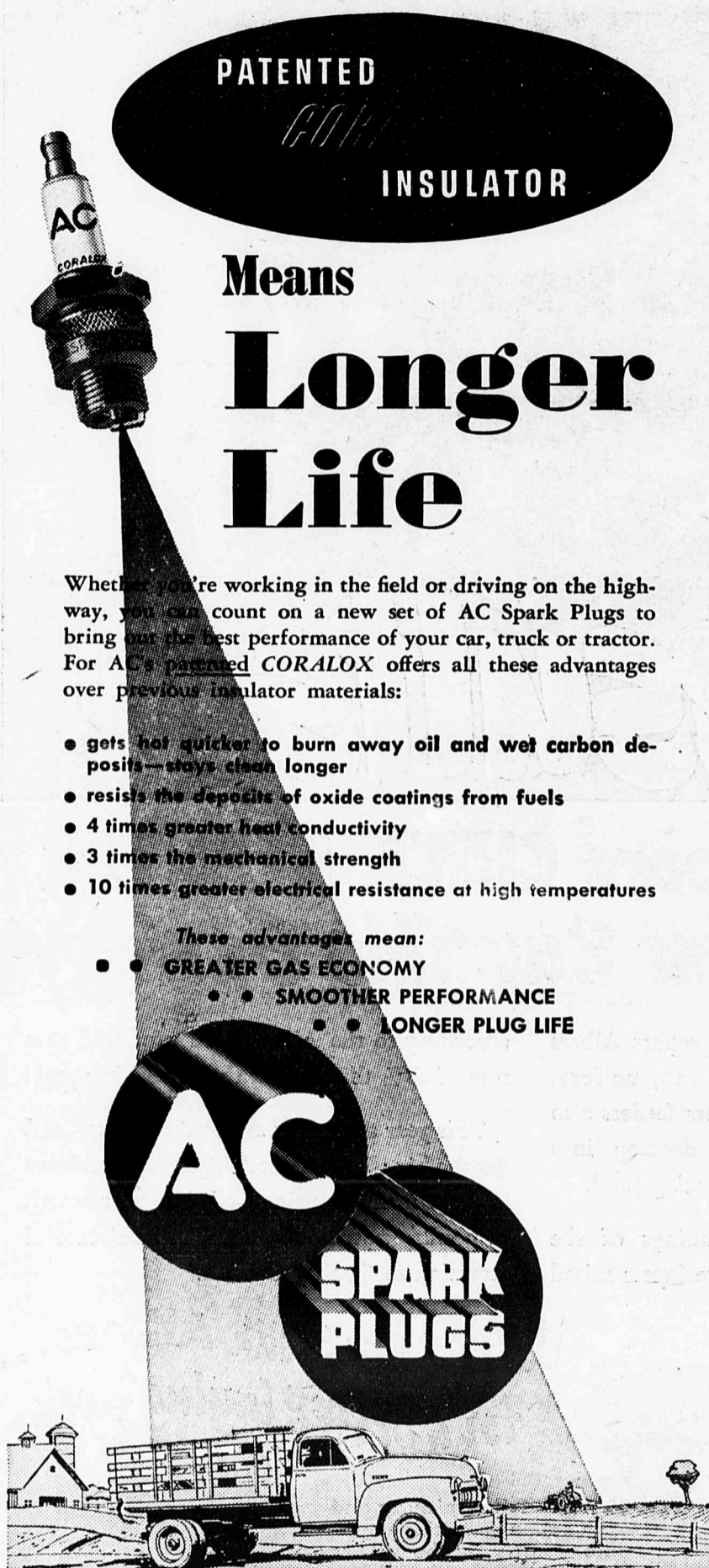
Whether you're working in the field or driving on the highway, you can count on a new set of AC Spark Plugs to bring out the best performance of your car, truck or tractor. For AC's patented **CORALOX** offers all these advantages over previous insulator materials:


- gets hot quicker to burn away oil and wet carbon deposits—stays clean longer
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AC SPARK PLUGS



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Even in seasons with normal rainfall, does it always come when you need it? A few dry days (every growing season has them) and bright prospects fade. Quantity and quality of your crops suffer and may be lost entirely.

Adequate, controlled moisture during growing season with an **ATLAS PORTABLE SPRINKLING SYSTEM** insures your crop against failure due to drought; insures quality and quantity.

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State Farmer FFA Degree Goes To 144 Young Kansas Farmers for 1953

SILVER ANNIVERSARY of Future Farmers of America occurring this year will have a special significance for 144 Future Farmers in Kansas. They eagerly looked forward to the 25th annual meeting of the Kansas FFA Association at Kansas State College, April 27 and 28 because they were successful applicants for the highest award a state association can award to its members—the State Farmer degree.

The 1953 class includes: Dennis Davis, Harris Grunewald, Marvin Palenske, Elton Schmitt, all of Alma; Marilyn Colip, Alma; L. Lee Barnt, Alton; Lyle Eaton, Arkansas City; Larry Hewitt, Ronald McKinnie and Donald Smyth, Beloit; John Cornett, Duane Mills, Burlingame; Gene Rohr, Burlington; Duane Moyer and Dean Strack, Chanute; Paul Faidley, Roy Rau and Don Rosenow, Clay Center; Allan Henry, Jack Kersenbrock, Richard Riedel and James Windel, Colby; Charles Handshy, Columbus.

Norman Johnson and Jack Paulsen, Concordia; James Gammell, Cottonwood Falls; Tommy Litke, Council Grove; Raleigh Flanders, Edson; Jerry Congrove, Gilmore Dahl, Bob Hall, Leonard Hawk and Jim Hundley, Effingham; Richard Burch, Dale Hamilton and David Nuttle, El Dorado; John Bircher and Samuel Peppiatt, Ellsworth; Leonard Chamberlain, Dale Davis and Clare Pearson, Emporia.

Gale Jackson and Samuel Strahm, Fairview; Joe Tindle, Fredonia; William Hicks and Donald Unruh, Garden City; Allen Ball, Claron Benjamin and James Doering, Garnett; Estel Schultis, Great Bend; Harold Bruna and Melvin Lohse, Hanover; Leslie and Marvin Valdois, Haven; Joe Farrell and Bob Paxson, Hill City; Lloyd Funk, Hillsboro; Edward Roth and Larry Swartley, Holcomb.

Allen Clinkenbeard and Don Jenkins, Holton; Jerry Hubbell, Roger McKinney and Jim Perkins, Howard; Floyd Karnes, Lloyd Mills and Richard O'Dell, Hoxie; Phillip Gates and Dennis McDonald, Iola; Billy Brown, Dean Howarter, Richard Prather and Gerald

Welsh, Kincaid; Tim McKenna and Paul Thiessen, Kingman; Bert Gillig, Kiowa; Richard Gantz and Wayne Leonard, Lawrence; Maurice Campbell and Marion Hackerott, Lebanon; Eldon Guttridge, Liberal.

Frank Carlton and Gene Wilson, Little River; Eldon Harder, Longford; Gary Everson and John Russell, Mankato; Arlyn Scheller, Marysville; Jim Montgomery, McDonald; Gilbert Christopher, McPherson; Jack Meyers and Gene New, Merriam; Leslie Dyck and Gilbert Kaufman, Moundridge; James Myers, Mulvane; Dale Hawkey and Clayton Kaufman, Newton; Lloyd Gideon, North Topeka; Lawrence Ellis and Ray Zimmerman, Olathe; Bill Lieber, Osage City; Norman Conrad, Clifford Noffsinger, and Orvin Wilson, Osborne.

Trexel Warren, Ottawa; Ronald Bond, Overbrook; Don Eulert, Paradise; Francis Grillot, Jr., Parsons; Earl Knust, Peabody; Max Jarvis, Robert Quanz, Ivan Wagner, Phillipsburg; Ronald Westhusin, Plainville; Larry Schumann, Jack Van Tilburg and Wilbur Wright, Powhattan; Jim Goering, Pretty Prairie; Rex Albin, Sam Chestnut and Louis Roberts, Quinter; Larry Henry, Randolph; Oscar Beck and Albin Visser, Riley; Stanley Rieb and Billy Walter, St. Francis.

Charles Grieshaber, St. Marys; Earl Beck, Silver Lake; Joe Daniels, Smith Center; Dean Bigge and Carl Sander, Stockton; Wayne Finch, Tonganoxie; James Zinn, Washburn Rural, Topeka; Lyndall Ford, Valley Falls; James Smart and Darrell Stewart, Washington; Terry Turner, Waterville; Lawrence Heath, Westmoreland; Ralph Basel, Rex Slankard and James Ware, Williamsburg; Joe Gordon and Ralph Russell, Winfield.

Requirements for State Farmer degree are rigid, and most of successful candidates for the honor have put in at least 2 to 3 years of hard work in Vocational Agriculture classroom and carrying on a planned and supervised successful farming program. Winners of the award also must have leadership ability and have a good rating in scholarship.

Kansas Weather History Reveals Some Interesting and Unusual Facts

KANSAS WEATHER HISTORY shows the Sunflower State usually has moderate weather conditions but often is interspersed with some of the most fantastic and interesting "weather."

That April 11, 1953, 10-inch snowfall at Oakley made news, but heaviest snowfall for that month occurred on April 3, 1930, when 20 inches fell at Belleville! On April 2, 1926, Atchison reported a fall of 15 inches! Record for heaviest snowfall for a month was in March, 1924, with 20.3 inches! "Heaviest" year was 1924, with 37.6 inches!

Altho Kansans long will remember the heavy rains of 1951 and the great floods, record wettest month was in 1844, when Ft. Scott recorded 24.56 inches! Wettest month since 1887, when state-wide weather record-keeping was begun, was July, 1950, with an average of 8.71 inches over the state. Wettest day was May 31, 1941, with 12.59 inches at Burlington, and wettest year was 1951, with 41.57 average.

Coldest day was February 13, 1905, at Lebanon, when temperatures dropped to 40 degrees below zero! Coldest month was January, 1940, when monthly aver-

age was 15.2 degrees, and coldest year was 1892, with 1905 running a close second, with 52.6 and 53.5 average.

Hottest day in Kansas weather history was July 18, 1936, at Fredonia, when temperatures rose to 121 degrees. Hottest year was 1934, when state mean for the year was 58.5 degrees. Hottest month was July, 1934, with 87.5 mean.

The Wheat State is famous for stories about how dry and hot it gets. There's the one about the traveling cock pheasant that had to carry a jug of water fastened to his neck so he could drink. In the mid-1930's some folks in Western Kansas reported it was so dry a jack rabbit couldn't spit, and others said they had to put their young bullfrogs in stock tanks occasionally so they would learn to swim!

Driest month was February, 1917, when average rainfall for state was only 0.04 inches! Driest year was 1936, with 18.31 inches of rainfall. Driest days occurred in the mid-1930's.

There's an old saying still holds true—If you don't like the weather in Kansas, just stick around awhile as it's going to change!

COMING, NEXT ISSUE . . .

If you are hoping to build a new farmstead you will be sure to do lots of planning ahead of time. In the May 16, 1953, issue of *Kansas Farmer* you may get some good ideas for reading about how one family planned ahead for an entire new farmstead, now in the process of being built.

MARKETING VIEWPOINT

By LEONARD W. SCHRUBEN

What do you think the price will be on corn in the next 30 days? Should I sell now or later?—V. F. W.

I think corn prices will remain fairly steady thru most of May. If a change develops, the odds are in favor of some strengthening rather than weakening. More specifically, I feel chances for a steady price thru May are 6 out of 10, price increase by as much as 10c per bushel are 3 out of 10 and a price decline 1 out of 10.

Prospect for the 1953 corn crop will become increasingly important. If the weather favors crop development there is little reason to expect corn prices to advance to any great extent this summer. The price support program also is of major importance.

I would like to mention these price predictions are based upon what we know about market conditions today and an analysis of past price patterns and market forces. New information might develop within a week that would cause a complete change in the outlook. On top of this, things unknown are uncertain. Altho our record for price forecasts is good, no claim is made that they will always be correct. I mention these uncertainties by way of encouraging you to follow price trends yourself.

Now to answer your second question: "Should I sell now or later?" Price movement is only one part of this question. Even if prices were to advance, it might still pay to sell now. Or if prices were to go down, it still might pay you to hold for a later date. If you need cash for spring farming, it may be to your advantage to sell now.

Another thing to keep in mind is the condition of your corn. Will it keep into warm weather? Also, will you need the storage space? You can see I'm sure, it would be most difficult to advise with respect to your last question without visiting your farm.

Kill Cattle Grubs

USDA scientists have succeeded in killing cattle grubs by injecting livestock with insecticides—aldrin, dieldrin and lindane. Results are preliminary. Practical use of chemical injections to control the pest on farm or ranch is now no more than a future possibility, say the scientists.

One problem to be solved is whether these insecticides or other chemicals, used as injections, will prove both economical and safe to use. Answers are being sought in continued research by the USDA's Bureau of Entomology and Plant Quarantine and Bureau of Animal Industry at the former's Kerrville, Tex., laboratory.

Treatments of yearling cattle showed that 4 injections of any one of the 3 chemicals named provide excellent control of cattle grubs. Injections were started at time grubs began to appear as bumps under the skin in backs of cattle and repeated every 28 days.

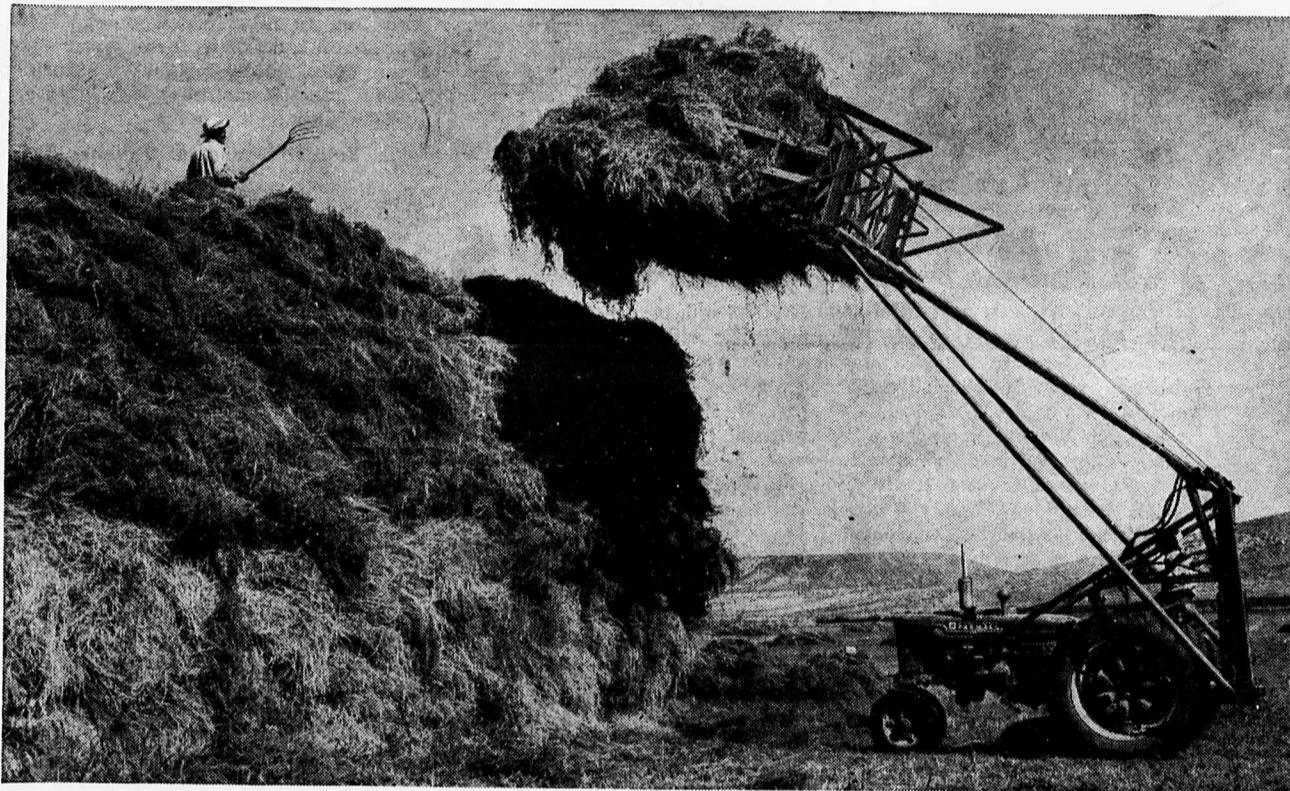
This research eventually may provide farmers and ranchers with healthier and higher-producing animals. Grubs have been estimated to cause a loss of 100 million dollars yearly.

Develop New Cheese

A new roquefort-type cheese, white in color, has been developed by food scientists of University of Wisconsin and University of Minnesota. Manufacturers find it easier to use in cheese spread mixtures, and cheesemakers find it doesn't need the long ripening period of ordinary blue cheese. This means a faster turnover with lower costs of storage and handling in the cheese factory.

Tests with consumers show many people like the product on its own merits of taste and appearance, said Wisconsin Agriculture Dean and Director Rudolph K. Froker at 1953 Farm and Home Week.

Another University study proves... Hi-Lift Loader haying is cheapest!



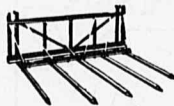
FOR HALF THE COST of other methods, and with a very low machinery investment, you can put up hay with a Farmhand Loader. The Hi-Lift Loader with Hay Basket and Push-Off harvests hay cheaper and faster than all other methods—requires only 2 men. The

Farmhand sweeps 50 acres of windrowed hay per day at speeds up to 15 m.p.h., stacks half-ton loads in 30 seconds, builds tight 27 ft. stacks. Basket is self-leveling... stays level at all times. Loader can be mounted or removed from tractor in 15 minutes.

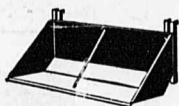
HERE'S PROOF—In a study of hay harvesting costs in 1950 and '51 the University of Idaho Agricultural Experiment Station found that the hydraulic loader harvests a larger tonnage per hour at a smaller cost per ton than any other method in general use. In comparison to balers, for instance, the loader uses about $\frac{1}{3}$ the labor per ton while harvesting 25% more tons per hour. The adjoining chart reprinted from a report of this study by Clyde B. Markeson shows cost comparisons for harvesting one ton of hay by each method.



HI-LIFT LOADER ATTACHMENTS



FORAGE FORK



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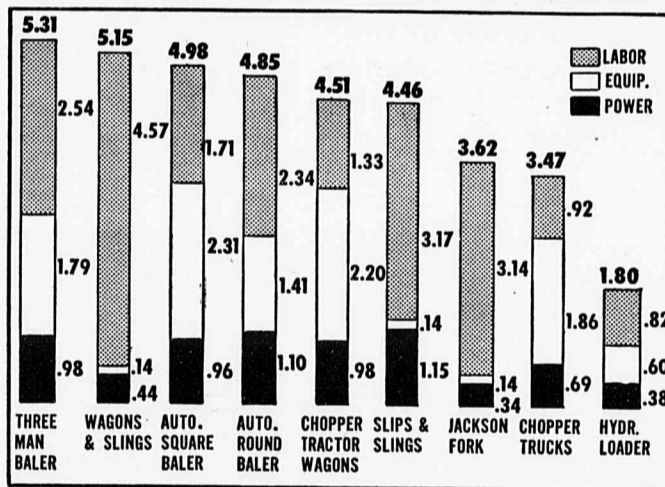


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Do You Have Enough Water?

(Continued from Page 4)

it put in a water station last fall. Since then it has been selling an average of 11,000 gallons a day.

Clayton Nordstrom, of near Topeka, has been making a good living the last 7 years hauling water for farmers who do not have adequate supplies. "I have 150 farmer customers in a 15-mile radius of Topeka," he says. "Most of these farmers have to buy water they use for the household and for poultry every year the year around. During the last part of 1952 and into 1953 many also had to buy for livestock." Mr. Nordstrom's average farm water customer uses 1,000 gallons every 3 weeks, but he has one customer who buys up to 2,000 gallons a week.

Sold Thousands of Gallons

John R. Forsberg, manager of the Shimer store, says they sold 370,000 gallons of water to farmers from November 7, 1952, to January 12, 1953. Water sales ran as high as 14,000 gallons a day. "We had 24 farm trucks in for water one Saturday," Mr. Forsberg recalls. Where water is hauled in this area farmers pay Shimer 8 cents for 100 gallons then pay the trucker mileage plus an extra charge per gallon.

Over at Berryton, southeast of Topeka, they have a \$90,000 rural school built more than a year ago. Every drop of water used in the building since it opened had to be hauled in it is said. This has cost the school district \$700 to \$800 a year.

One thing that makes water shortages so important, not only in Kansas but in the United States as a whole, is that our need for water is growing rapidly. This is due to increased population and increased use of water per capita.

Lt. General Lewis A. Pick, recently retired chief of the Army Corps of Engineers, stated in one of his talks that our present consumption of water in the United States is 400,000 gallons a year per person. This includes city and industrial use. "We cannot grow in industry or agriculture at this rate of use," says General Pick, "unless drastic action is taken to impound, conserve, regulate and utilize all the water available."

Some of the industrial water demands here in Kansas are tremendous and little known. A 1944 report by the State Board of Agriculture shows oil refining takes 770 gallons of water for each 42-gallons of crude oil. Coal wash-

ing in Southeast Kansas requires 200 gallons of water for each ton of coal. Meat packing takes 6,000 gallons of water for each ton of meat on the hoof. Dairying requires 5 gallons of water for each gallon of milk produced. Electric power takes 80 gallons of water per kilowatt-hour, or nearly 1,000 times as much water by weight as coal. One of the new big uses for water is air conditioning. No estimate of the amount used in Kansas for this purpose has been made, but the total must be staggering.

We hear a lot these days about ability of farms in this country to produce enough food to support our population at some future date. Actually, the major limiting factor in both food production and industrial development in the United States in general and in Kansas in particular will be water supplies rather than depletion of soil fertility.

Water Must Be Hoarded

Farmers are rapidly learning how to take care of soil fertility and to control erosion. Science is learning how to increase productivity of both plants and animals. But water is a gift from heaven that must be hoarded and utilized to the best possible advantage.

And the problem is nation-wide. A United Press dispatch last December stated the Interior Department considers research on increase of water supplies one of the 10 most pressing matters facing scientists today. The research project is aimed at purifying sea water.

Here in Kansas, as in other states, the problem is 2-fold. One is to find enough water. The other is to find water of good enough quality for household and livestock use. In some areas farmers report present water supplies are becoming polluted from oil fields and other sources.

If there is a severe water shortage in Kansas, what can be done about it? William Steps, an engineer with the water resources division of the State Board of Agriculture, points out that, generally speaking, the area in Kansas that has the greatest water shortage also has the greatest rainfall and the greatest runoff.

The trouble is, he says, rock formations in Eastern Kansas are so close to the surface in most areas there isn't room for underground water storage
(Continued on Page 13)

GRANDMA By Charles Kuhn



in sufficient amounts. Stream flows in Kansas vary so widely too, they are undependable as water supplies in many years. If you will study the stream-flow map with this article as prepared by Mr. Steps, you will see there is a great variation between stream flows in normal years and in drouth years.

Many folks in Southeast Kansas who depend on stream flow for water supplies believe large reservoirs on the streams are needed. Members of the Verdegris and Neosho-Cottonwood flood district associations recently told Governor Edward F. Arn that Southeastern Kansas cities need dams to store water for dry seasons, as well as to hold back floodwater in rainy years.

Problems Are Different

Jack Lyons, of Fredonia, and John Redmond, of Burlington, assured the governor their problems are different from those in the Kaw basin. They said 14 cities rely on the Neosho river alone for their water supplies and there isn't much water in the river this year. The Fall River reservoir was said to have been valuable this past year in assuring a water supply to Fredonia.

The value of large reservoirs on main streams for water supply purposes, however, is still a matter of dispute. Sanitation engineers say quality of water in main stream reservoirs is

Thank You

We enjoy *Kansas Farmer* very much.—Mrs. H. T. Cook, Rt. 1, Courtland, Kan.

not high, and many cities might be better off to build lakes of their own.

A farmer in the Fall River area told us recently that for the amount of money it took to build the Fall River reservoir, the government could have spent \$24,000 a section in watershed treatment in the reservoir drainage area. It was his opinion the watershed treatment would have done as much to stabilize stream flow as does the dam, and without taking valuable bottom-land out of production.

Even tho some of the large reservoirs now planned are completed, they will not change the picture for the average farmer who has a water supply problem, engineers say.

What Can Be Done

What, then, is the answer? First, every farm in Kansas should have a complete soil conservation and water management plan. Every possible bit of water should be stored in the soil on the farm. Second, more farm ponds. Thousands and thousands more farm ponds are needed. Fortunately, in Eastern Kansas where the main water shortage is, the contour of the land is favorable for locating farm ponds and rainfall is generally adequate to keep them filled. But they won't do you any good if they aren't built. For your protection, tho, never build a farm pond without technical assistance as to location, size, depth, other features.

Third, and equally important with on-farm conservation practices and ponds, is complete watershed treatment on every watershed in Kansas. This would rise ground water tables over the entire state, reduce siltation of reservoirs and go far in stabilizing stream flows. Fourth, wherever it can be proved main stream reservoirs are absolutely essential to growth and health of cities, they should be built.

Make Hay-Crop Silage

"Making and Feeding Hay-crop Silage" is a new circular of the Kansas Agricultural Experiment Station, Manhattan, which gives many aids. As a service to readers, a copy may be ordered thru Farm Service Editor, *Kansas Farmer*, Topeka. No charge. Order Circular 282.



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Experiments at the University of Minnesota indicate that sowing bromegrass in cultivated rows, instead of haphazard sowing, will boost seed yields from 100 to 250 percent.

In the tests, experimenters drilled the bromegrass in rows 36 to 42 inches apart, then worked the brome like any row crop. Bromegrass was drilled in shallow, in combination with oats in a firm seedbed. To obtain the desired row width, plugs were inserted in certain holes of the drill.

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No check rein on your efforts. Except one. Always, in farming, there is an urge to make the best use of what you have, to strive for maximum yields. That's inherent in this farming business. Even now, that maxim of agriculture gives promise that we may for yet another year have great harvests. Farmers, as always, are striving for new record crop totals.

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Dry Cycle Coming?

Long range forecasting is always hazardous, but some U.S. Weather Bureau officials believe that we may be in the start of a dry cycle, with rather serious drought areas in some sections of the country.

They say that weather charts kept by the Bureau since 1949 show that a dry cycle starting in 1951 may be expected to continue for possibly three years. The forecasters cite the extended periods of dry weather that began in Southern Texas and in certain sections of New Mexico last year, as well as the dry siege in the Southeastern, Northeastern and Southwestern States.

While not making any firm predictions, the Bureau says that according to the weather charts, the summer may be one of spotty, dry weather.

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New Sweet Potatoes of Interest To Many Growers in Kansas

By WILLIAM G. AMSTEIN, Kansas State College

THERE IS CONSIDERABLE interest in the Kansas and Arkansas river valley areas in growing sweet potatoes. Both Kansas State College and Oklahoma A & M College are working to develop improved varieties. The following information from Oklahoma A & M College is of interest in this connection:

"A nematode-resistant, Jersey-type sweet potato resulting from breeding work at Oklahoma Agricultural Experiment Station is being made available to growers in states which grow this type potato. It is designated 'Okla 46' by the breeder, Dr. H. B. Cordner of the Oklahoma horticultural staff.

"Okla 46 developed among a group of crosses in which Jersey-type sweet potatoes were being used as one of the parents in order to introduce nematode resistance into the moist-fleshed type.

"Experiment stations in states which grow the dry-fleshed, Jersey-type sweet potatoes found the Okla 46 so promising several of them asked for its release. Any station wishing to place this variety in commercial production is free to do so. Seed stock of Okla 46 is expected to be made available in 'Jersey-type' states where the variety is released. Seed stock will not be available thru the Oklahoma Station except to other state experiment stations.

Ranks High in Yield

"Advantages of Okla 46 include nematode resistance and some tolerance to soil rot. It also ranks high in yield among Jersey types, which in general do not make as good yields in Southern states as the moist-fleshed, 'yam'-type potatoes.

"The Oklahoma Station also recently released 2 highly-desirable, moist-fleshed sweet potatoes, Allgold and Redgold. Since the technique of breeding this crop for nematode resistance has been perfected, it is expected a strain combining nematode resistance with high yield and desirable quality for Southern markets also will be available relatively soon.

"Roots of Okla 46 are well above present commercial varieties of the Jersey type in carotene, and they have a good ascorbic acid content. When baked, they have an attractive orange color but show some of the 'dryness' characteristic of the Jersey group.

"In comparison with other Jersey-type 'dry' potatoes, Okla 46 ranked first in yield of No. 1 roots in both 1951 and 1952 in tests at 6 locations in states which grow this type potato commercially.

"Okla 46 has been tested 3 years in Oklahoma in soil heavily infested with nematodes. It has been free of scabiness and cracking which characterizes susceptible varieties, and potatoes have been relatively free of nematodes. This strain ranks as 'susceptible to tolerant' to stem rot wilt but is less susceptible than some varieties currently being grown commercially.

"Some tolerance to soil rot was reported from an Indiana test in 1952; and tests by the U. S. Department of Agriculture indicate it is less susceptible to black rot than other Jersey varieties.

Kansas Selection Helped

"Okla 46 originated at Oklahoma station greenhouse in a cross between Orliis (a Kansas selection from Little Stem Jersey) and Okla 29. Okla 29 was derived from a cross of L 37 with Okla Parent No. 10, which in turn came from a cross of a selfed seedling of Creole with an open-pollinated seedling of Triumph. The original seedling hill of Okla 46 was grown at the Vegetable Research Station near Bixby in 1948.

"Okla 46 has a characteristic Little Stem Jersey vine. That is the main stem and laterals are all green, long, and small in diameter. It is distinguished from Jersey varieties by the distinctly shouldered leaves. The vine is entirely prostrate in growth habit, and leaves are small but slightly larger than those of the Yellow Jersey and Orliis varieties.

"Roots are of medium size. They generally are smooth like those of other Jersey varieties, altho some variation has been noticed under varying soil conditions. In very light soils they may be short or chunky, and in heavier soils they may be a little long. Some veining was noted in roots harvested in 1952. (This was true with many varieties, perhaps due in part to the dry weather.) Color of roots is a russet-gold somewhat similar to Allgold. The flesh is orange."

We can expect considerable interest to develop in varieties such as Okla 46 as both growers and customers become better acquainted with it. Tests near Wichita, and in other locations last year, gave us outstanding interest in this new selection. One big problem in the sweet potato industry is to develop high-quality, disease-resistant, market-type strains adapted to a wide range of growing conditions. These new Oklahoma and Kansas introductions should certainly prove valuable in improved crops and yields.

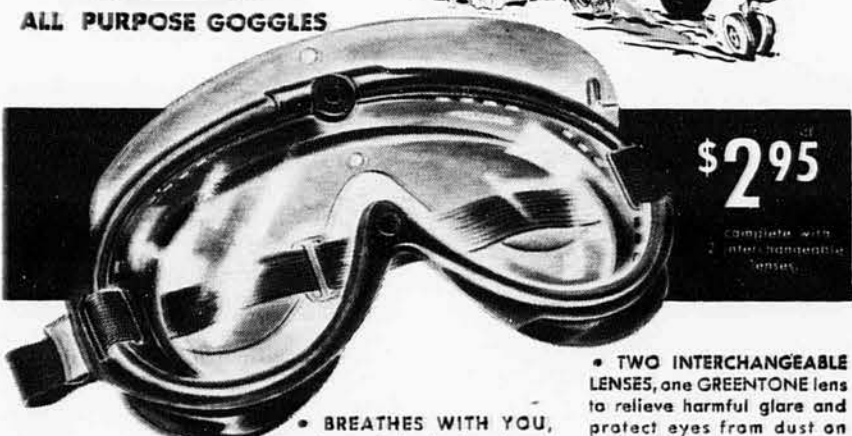
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Dwight Hull SAYS...

Everybody Needs to Drink Milk Every Day

AS SUGGESTED in the April 18, 1953, issue of *Kansas Farmer*, we wish to pass on to readers information we received from the National Dairy Council.

We were quite impressed with the report on scientific research work that has been done with use of milk in the daily diet. I think most of us have been convinced of the need of milk for children. But we have not realized the very important part milk should have in the diet of adults of all ages. Latest information regarding need of calcium for adults increases calcium requirements by one fourth over what formerly was thought adequate. Yet a quart of milk a day, even with the higher standards,

will provide a sufficient amount of this important mineral.

To quote directly: "Even with other foods we usually eat, unless an adult gets about 3 glasses of milk a day, or the equivalent in milk, cheese, and ice cream, he cheats himself and his health. No one can eat enough of the other common foods to fill his needs for calcium."

Many adults do not use adequate amounts of dairy products because they believe milk is fattening. Recent scientific experiments conducted by the Department of Foods and Nutrition, Michigan State College, reveal milk plays a very important part in satis-

(Continued on Page 15)

fyng and satisfactory reducing diet. Twelve students at the college, eating together under supervision of college authorities, were used in the experiment and 9 adults, ranging in age from 38 to 70, used the diet in their homes without supervision. These persons were able to reduce in weight from 1½ to 2 pounds a week on the average. The report states that during the experiment several persons regained normal weight and adjusted to a maintenance diet.

As I understand, purpose of the experiment was not entirely for weight reduction, but also to find a diet a person would feel satisfied and well fed on, and with which he could maintain normal weight. Apparently this was found possible with a liberal allowance of milk and butter as well as other dairy products.

Of course, we do not pretend to be an authority on diet, but we are glad to know there is some scientific experimental work being conducted that tends to give a true and accurate picture of the food value of milk. We also are happy to know a film was made covering the experiment at Michigan State. I would like to present here a few quotations from the narration of this film strip:

"At Michigan State College, the problem of weight reduction thru diet

has been under study several years by Dr. Margaret Ohlson, head of the department of foods and nutrition. Devising an effective reducing diet is the basic step in any program of weight reduction thru diet. Doctors and scientists, applying their knowledge of nutrition, physiology, and human nature, formulate low-calorie diets of everyday foods that give a high return in nutrition and satisfaction.

"In research study at Michigan State College, meat, poultry, fish, eggs, and cheese, all high in protein, are represented at every meal in ample servings. Dairy foods are included in every meal in this reduction diet. Milk does more for the reducer than any other one food.

"With vegetables, the choice is great, a reducing diet need not be monotonous. The leafy, bulky kinds permit more and larger servings. Those who are reducing learn to include many vegetables and fruits in their diet. Pleasing combinations may be served in generous amounts every day. Cereal foods continue to appear on the menu in moderate amounts. There's a new menu for each day of the week and the week's menus can be changed for pleasing variety. Laboratory tests prove the meals meet recommended dietary allowances of the food and nutrition board, National Research Council. This diet satisfies appetite because it provides more fat than most reducing diets."

I believe most dairymen of Kansas would agree if persons who are afraid to use milk because they think it is fattening could be convinced otherwise, we should not have a surplus of milk. We need to do our part to see that more information concerning scientific research, such as the Michigan State is conducting, reaches the consuming public. At least we should write the National Dairy Council, Chicago 6, Ill., and get available information to read.

Kill That Brush!

How to clear land of trees and shrubs and woody brush—by chemical spraying—is described in a booklet of Thompson Chemicals Corp., St. Louis. Booklet describes type of chemical to use, dilution, methods of application. It's free. Write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

"Off Again, On Again" Wheat Test

Insect-infested grain to be penalized, but rules for condemning and seizing have been considerably modified

UNDER a "memorandum of understanding" announced April 6, between Department of Agriculture and Department of Health, Education and Welfare (formerly Federal Security Agency), the Food and Drug Administration will put into effect its regulatory program for controlling insect infestation of food grain—otherwise "weevily wheat"—July 1, 1953.

However, tests for condemning and seizing insect-infested grain have been considerably modified. Original FDA program called for condemnation and seizure if a sample of approximately 4,000 kernels showed 3 kernels with "exit holes." April 6 Agricultural release stated:

As a regulatory program for year beginning July 1, 1953, the Food and Drug Administration will use the following criteria (in place of the number of "exit holes" made in grain by insects) as a basis of legal action before seizure of infested grain:

1. Wheat containing 20 or more surface insects of the internal feeding variety per 1,000 grams of wheat, either alive or dead.
2. Wheat which contains 2 per cent or more of weevil-damaged kernels as determined under the U. S. Department

of Agriculture's official grain standards for wheat.

The memorandum points out that presence of live weevils in wheat means increasing infestation and this will be taken into account in sampling cars of grain under the program. However, legal action will not be taken against such grain if it is fumigated as soon as practicable, unless the extent of infestation falls within standards.

"Under terms of the memorandum, FDA will not recommend legal action against wheat which falls within the standards set for such purposes which is owned by the Commodity Credit Corporation."

In effect, the "liberalization" of the program means it will take 80 grains of "weevily wheat" in 4,000 grains for condemnation and seizure.

However, the memorandum provides that the program shall be examined annually, with the final objective of reaching the 3 "exit holes" test sample, or its equivalent.

"That is so much more moderate that it should not cause too much trouble," according to William McArthur of the Agriculture department's grain branch. "It will cause a lot of extra work. Just how much we cannot say."

In other words, both FDA and Agriculture's grain branch will have to have a larger force of inspectors.

Senator Andrew F. Schoepel (of Kansas) whose earlier protests largely were responsible for the Agriculture committee hearing, is not at all happy over the arrangement. He called attention to fact Secretary Ezra T. Benson had asked postponement of insect infestation program for at least one year.

Schoepel indicated he would ask the Senate Agriculture committee to urge a reconsideration, and postponement of the program until a more practicable test can be developed.

EARLIER MARKET

He Can Cost You

\$12.00

IF YOU fortify your grain with some concentrates at the rate of 1-to-4 (25%) you would spend about \$12.00 "out-of-pocket" money to produce 200-pounds of pork. This is based on a cost of \$8.00 per hundred for concentrate.

\$8.00

IF YOU fortify your own grain with Occo-Trate . . . Occo-Mineral-Vitamin Supplement . . . and Occo-Lak, your "out-of-pocket" cost would be only \$8.00 to produce 200-pounds of pork from weaning to marketing.

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IF YOU fortify good legume pastures with Occo Mineral-Vitamin Supplement . . . and Occo-Lak you take advantage of Nature's protein and can produce 200-pounds of pork for only \$2.00 "out-of-pocket" cash.

The money you spend on pigs from weaning to marketing can vary as much as \$10.00 per pig. It pays to know if you can feed cheaper and better. **AND YOU CAN KNOW BY TALKING TO YOUR OCCO SERVICE MAN.** When he visits your farm he can sit down with you and figure right down to brass tacks what a tailor-made Occo Feeding Program will cost you per pig.

This "Brass Tacks" cost gives you a chance to compare the Occo Feeding Plan with the program you are now using. Your Occo Service Man will show you how your "out-of-pocket" cash can be cut anywhere from \$4.00 to \$10.00 per pig. This is a savings you should make every effort to get . . . So, talk with your Occo Service Man and get started on the low-cost Occo Feeding Plan.

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OCCO-TRATE . . . is the Advanced-Formula of the 12 essential amino acids that give your pigs a higher-quality protein at lower cost. Occo-Trate also supplies the important B-Vitamins, Vitamin A and an antibiotic.

OCCO MINERAL-VITAMIN SUPPLEMENT . . . furnishes the Ratio-Compounded Major and Trace Minerals, plus Vitamin D that every growing pig needs for stronger frames, sharper appetites and better health.

OCCO-LAK . . . is the live-cell yeast formula that helps pigs digest and use more of the farm-grown feeds they eat — they make more pounds of good pork on fewer bushels of grain.

Why spend more "out-of-pocket" money than you need to? Let your Occo Service Man show you how your pigs will cost less on a tailor-made **OCCO FEEDING PROGRAM.**

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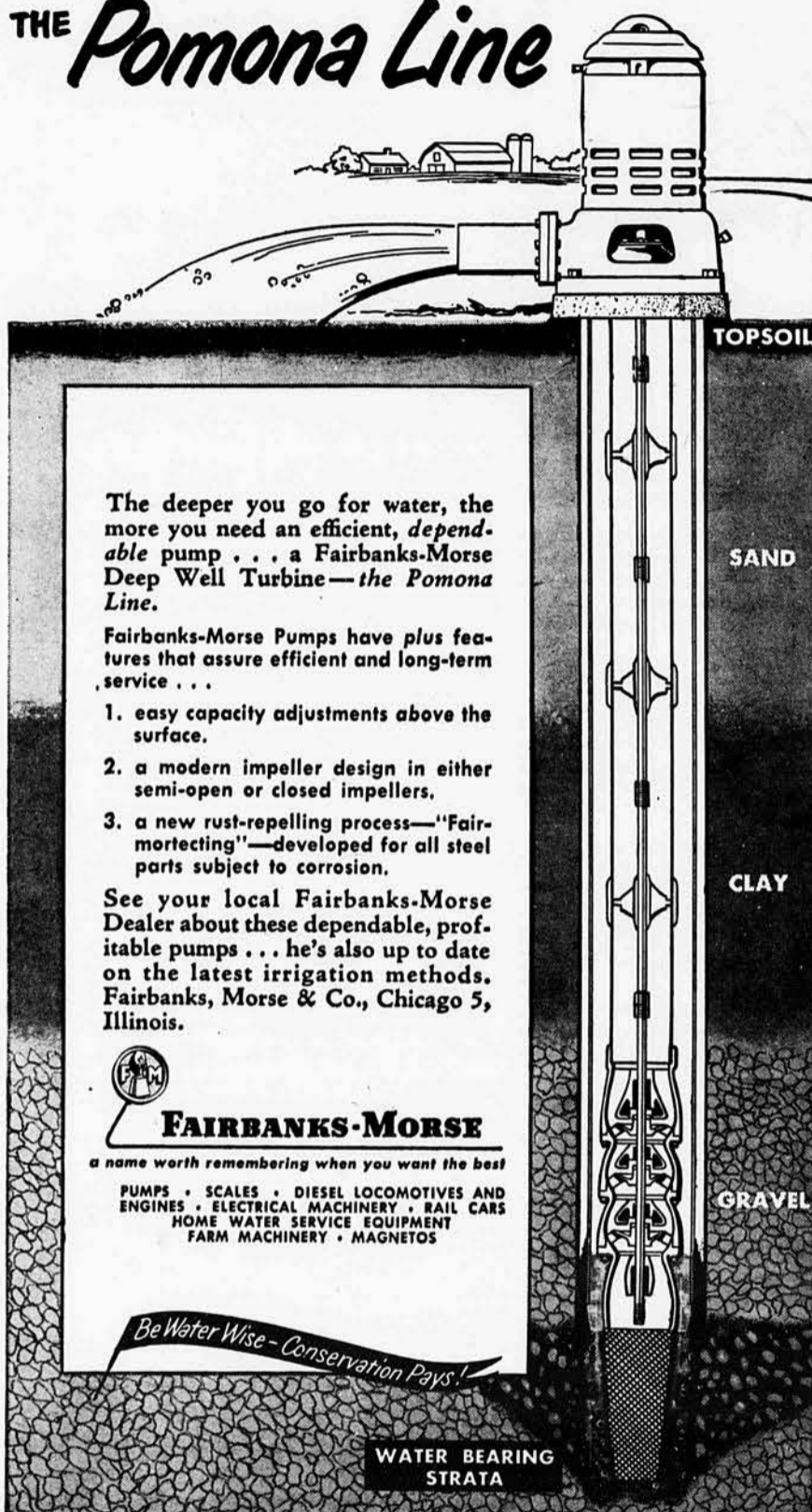
COAST TO COAST WAREHOUSE
AND SERVICE FACILITIES
SEE YOUR OCCO SERVICE MAN

Bride's Blue Book

This leaflet will appeal to the bride-to-be and her mother. Information on the announcement of engagement, invitations, wedding dress, showers, parties, wedding reception, and many other pertinent details are included. Send 5c for postage and handling charge to the Home Service Editor, *Kansas Farmer*, Topeka, Kan.

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For Easier, Faster, Safer MOWING



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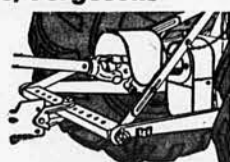
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Cut hay and grass the modern way. A Kosch Mower converts your tractor into the most compact, efficient mowing machine ever invented. Much safer because cutter bar is in front where you can see it at all times. More maneuverable for cutting square, clean corners. Mounts in minutes. Simple design with fewer parts. Easily maintained with IH cutter bar parts. Available for Farmall H, M, A, C, Super A, C, H, and M, Reg. & F-20; John Deere A & B; Allis Chalmers WC & WD; Ford (all models including Golden Jubilee), Ford-Ferguson, Ferguson, Coop E-3, Cockshutt 30, Farmcrest 30, and other tractors. See your dealer or write for literature (specify make and model of tractor). DEALER INQUIRIES INVITED—few choice dealerships open.

Also KOSCH DRIVE-RITE P.T.O. Kit for Fords, Fergusons

Adapts Ford or Ferguson to standard power take-off speed, height, shaft size. Only standardizer to perform all three necessary functions. You get more power when engine runs at correct r.p.m.; your implements do a better job driven at recommended speed. Tractor gains traction when drawbar is raised to recommended height. Universal joints deliver more power, last longer operating in straight line. Works with any transmission; gear ratio changed by simply reversing sprockets. Write for prices, information.

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Columbus, Nebr.

"Old Limestone Day" Celebration May 20, in Jewell County

HUGH HAMMOND BENNETT, former chief of U. S. Soil Conservation Service, will be principal speaker at "Old Limestone Day" celebration, May 20, in Jewell County.

This commemorates the 20th anniversary of Limestone Creek Soil Conservation Project in Jewell county, one of the first such projects in the United States.

Mr. Bennett will speak at a noon program at the ball park in Mankato. The program will be broadcast over WIBW, Topeka.

Limestone Creek Soil Conservation Project will be toured by visitors in the morning. Co-sponsors of the celebration are *Kansas Farmer*, Topeka

Daily Capital, WIBW and the Jewell County Soil Conservation District at Mankato.

Mankato businessmen and townspeople are co-operating with the sponsors in making arrangements for the celebration. A special lunch will be served at Mankato churches and restaurants for Limestone Day visitors.

Included in the morning tour are the original 20-year old terraces that have been maintained and are in good condition. Within the radius of a few miles, visitors will see every type of soil conservation practice.

Many prominent agriculturists and soil conservation experts are expected to attend the celebration.

Tests With Anhydrous Ammonia, Liquid Fertilizer, Show Values for Crop Yields

ANHYDROUS AMMONIA liquid fertilizer, subject of experiments in many Midwest agricultural experiment stations, is drawing more and more interest in Kansas.

Recently the Kansas State College agronomy department released results of state experimental tests, and a mimeographed publication on "Anhydrous Ammonia as a Nitrogen Fertilizer."

In the future this new way to fertilize soil may be very popular, and aspects of its use warrant close study.

A liquefied form of ammonia, anhydrous ammonia is a gaseous substance at ordinary conditions of atmospheric pressure and temperature. It is maintained in the liquid state by storage under pressure. "Safe storage and application of anhydrous ammonia necessitate use of properly designed equipment," according to the agronomy department.

Gives Good Results

The new fertilizer may be applied directly to soil, with good results. When applied to moist soils in which some clay is present, it's readily absorbed by clay particles and thereby prevented from escaping into the air. Losses to air are likely to be greatest when applications are made to sandy soils where little or no clay is present to absorb ammonia. "Losses are likely to be greater from a dry soil than from a comparatively moist soil."

"Anhydrous ammonia serves as an effective source of nitrogen for crops." Tests using anhydrous ammonia, when used at rates to supply either 30 or 60 pounds per acre of nitrogen, gave as good results with wheat as did ammonium nitrate when applied just ahead of planting. Used as a spring top dressing, ammonium nitrate gave as good results as use of ammonium nitrate applied at planting.

"Yields from plots receiving spring applications of anhydrous ammonia were substantially below yields from plots receiving anhydrous ammonia applications before planting."

"It is relatively less desirable to apply anhydrous ammonia to wheat in spring than just before planting because some plants are destroyed as in-

jection knives are pulled thru the soil. . . . Anhydrous ammonia can be used somewhat more effectively as a side-dressing material for row crops than as a top-dressing material for drilled small grains, because there is less likelihood of plant destruction. Apparently, anhydrous ammonia can be used very effectively for supplying nitrogen to old stands of grass.

"Anhydrous ammonia should be used at such rates as to supply the same quantity of elemental nitrogen as would be supplied in applications of conventional dry materials. For small grain crops, it means use of about 30 to 50 pounds of nitrogen per acre; for corn, 40 to 60 pounds of nitrogen per acre; and for brome grass sod, 60 to 90 pounds per acre of nitrogen. Grain sorghum crops should be treated with about 30 to 40 pounds per acre of nitrogen."

Some agronomists believe, in time, anhydrous ammonia will become a widespread source of available nitrogen for crops. Tests in Iowa, Indiana, Missouri, Illinois and other Midwest states show this new fertilizer has been fully as effective as other carriers of nitrogen in increasing acre yields.

New USDA Test Aids Cattlemen

A new test developed by the U. S. Department of Agriculture shows degree of fatness of live cattle, sheep or hogs. It will be most useful for purebred breeders who are selecting best young animals to be kept for breeding stock.

The test calls for laboratory equipment and technical skill, as a drug called antipyrine is used in a special way. A dose is injected into the bloodstream of the animal, then samples are taken at regular intervals and certain rates are recorded.

Scientists say the tests open up the field for critical breeding tests to prove heritability of the high or low fat-producing characteristic. A cattleman may be in a better position to select a herd sire that has ability to transmit early market finish to his calves.

SPONSOR BENEFIT HORSE SHOW

Funds for the Capper Foundation for Crippled Children, at Topeka, will be boosted by a charity benefit horse show at Topeka Free Fair Grounds, June 13 and 14. Sponsors are members of the Topeka Roundup Club. About 200 show horses will be entered from Kansas and neighboring states. There will be American saddle horses, walking horses, parade class and stock horses, many valued in excess of \$10,000.

The event is expected to be comparable to the American Royal Horse Show held in Kansas City each fall, and many of the horses have been shown at that event. There will be 3 performances—8 p. m. Saturday, 2 p. m. Sunday and 8 p. m. Sunday. The Roundup Club, with about 300 members, is a non-profit organization composed of horse lovers.

Believes He Gets \$4 or \$5 in Return for Every Dollar Spent for Fertilizer



A CORRIDOR of shorter, poorer wheat runs thru this wheat field on the L. H. Spears farm, in Shawnee county. Reason: Drill ran out of fertilizer. Fertilizer on wheat has been paying on the Spears farm since 1936.

"FARMERS CAN'T AFFORD to grow ordinary crops these days," says L. H. Spears, Shawnee county farmer. "The high cost of farming now makes it absolutely necessary to get the maximum yields from all farm crops," Mr. Spears continues.

We were talking at the time about whether farmers can afford to use fertilizers. "I started using phosphate on wheat in 1936," says Mr. Spears. "At that time I know of only one other farmer in the county who did. I was putting 50 pounds of 45 per cent phosphate an acre on wheat at seeding time and even then was getting double the yields I got before using phosphate."

Now Mr. Spears finds his upland wheat needs a balanced fertilizer and he is using 125 to 150 pounds of 8-24-0 or 125 pounds of 10-20-0 at planting time, then top-dresses in spring with 100 pounds of 33 per cent nitrogen. His average wheat yield on 400 acres in 1951 was 22 bushels and, because of bad weather, none of it was cut until August.

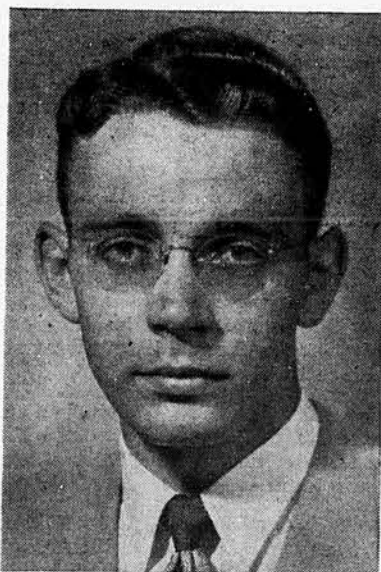
"Putting legumes into the rotation is not enough to carry succeeding crops," says Mr. Spears. "It still takes the addition of fertilizers to do the job."

In 1952 there was an interesting spot in one of the Spears wheat fields. The field was fertilized at seeding time with 150 pounds of 10-20-0 an acre then later top-dressed with 100 pounds of 33 per cent nitrogen. When the field was fertilized at seeding time, however, one drill-row width was missed when fertilizer in the drill ran out. Early in June of 1952 Mr. Spears tried to get a comparison between the wheat that got the mixed fertilizer and that section missed by the drill. He spaced off a 3-foot row of wheat in adjoining rows and then counted the plants. In the row that got the mixed fertilizer there were 90 stalks, while in the adjoining row that missed out on the mixed fertilizer there were only 47 stalks. In addition, the plants in the

fertilized row were a week to 10 days further advanced.

"Phosphate increases stooling and hurries maturity of the wheat plants," says Mr. Spears. He believes that for every dollar he spends for fertilizers he gets \$4 or \$5 back. In 1951 alone his fertilizer bill was \$4,000, which indicates his confidence in the investment.

Wins Scholarship



Harold Ramsey

Harold A. Ramsey, native of Ft. Scott and Kansas State College graduate in 1950, is national winner of a Ralston Purina Company Fellowship award for advanced college work. He has been doing graduate work at North Carolina State College since 1950. Studying dairy calves in the animal nutrition section, he expects to get his PhD degree in 1954. This is the 3rd Ralston Purina award he has won.

Mr. Ramsey is a member of several honorary agricultural organizations, was honored at Kansas State College for high scholarship and activities.

Appoint a Kansan

A Kansan—Glenn D. Bengston, formerly of Robinson—has joined the staff of West Virginia University as assistant editor of the agricultural experiment station. He is a 1952 agricultural journalism graduate of Kansas State College.

Quick Sprinkle

Sprinkle clothes while they're on the line, if you're going to iron them soon. Turn garden hose on fine spray and sprinkle. It's much quicker.—N. F.



"Squeak the chalk a couple of times, and she'll make you sit down before you can finish."



Elevates as fast as a good man loads



Lasts as long as you'll ever need it... that's a NEW IDEA elevator. Run this many-purpose elevator with gasoline engine drive, electric motor or PTO... and handle anything from bales to small grains. Like all NEW IDEA machines, it's built to last; to take all of the strains and twisting and stay in alignment.

The NEW IDEA elevator is BIG: 17½" trough with high sides. It's SAFE: new worm and gear lift mechanism partially enclosed, protects operator. It's EASY TO USE: raises and lowers easily; low clearance and well-balanced for fast, safe moving, easy storage.

- New easy-lifting, increased capacity, tilt hopper
- Available from 26' to over 50' lengths
- Double chain rides on wood strips; longer wear, quieter, stops leakage
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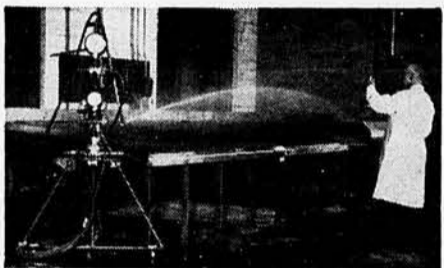
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The Hanson Brodjet has been designed by experienced engineers to provide you with the finest equipment at the lowest possible price for the most efficient and economical application of agricultural chemicals. Only the Hanson Brodjet brings you such practical versatility, superior chemical distribution, ease of handling and high quality construction.



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Modern engineering methods are used to maintain the outstanding superiority of the Hanson Brodjet. Laboratory testing, field experimentation and close cooperation with Government agencies, colleges, etc., keeps Hanson well-informed of current chemical application problems.



DOES EVERY SPRAYING JOB!

With included attachments, the Hanson Brodjet can quickly and easily be converted to handle any spraying job faster and more efficiently—**Fields and Rowcrops** with swaths up to 54 feet at high or low gallonages; **Roadsides and Fencerows** with swaths up to 25 feet; **Livestock** spraying at high or low pressures with spray patterns from hard stream to wide angle fog; **Spot** spraying with easy manipulation and fingertip control; **Machinery and Building Cleaning and Disinfection**; **Orchard** spraying and a multitude of additional uses.

**Save
TIME
LABOR
MONEY**

Only Hanson Brodjet offers you superior and economical application of weed and brush killers, insecticides, liquid fertilizers, etc. without the tedious manipulation of cumbersome booms or clogging nozzles. Installation, operation and maintenance is simple and easy. The Hanson Brodjet is fast and efficient—sprays at speeds up to 15 m. p. h. It is your biggest sprayer value.

See your Local Dealer today or send coupon below for full details about the amazing Hanson Brodjet.

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Live-POWER PTO FOR FARMALLS DOES AUXILIARY ENGINE WORK

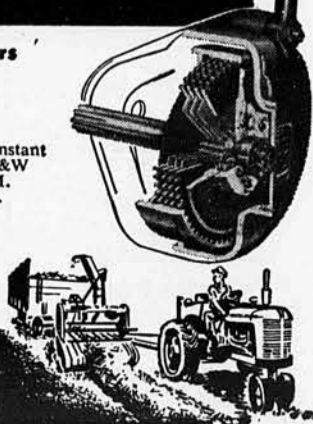
- Fits Farmall H, M, Super H, Super M Tractors
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Now! You can keep your pto driven machines at constant operating speeds without using auxiliary engines. Install M&W Live-POWER pto on your Farmall H, M, Super H or Super M. Live-POWER handles twice the power your Farmall can produce. It's the only continuous power-take-off with this 2 to 1 safety factor. Eight heavy-duty clutch surfaces together with a slow speed, low pressure action give smooth operation. It's compact in design too... extends only one inch beyond original equipment. For complete information write Dept. G7.



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Until Dinner Is Ready

Blossoms in the Dust: Australia is busy with a development program to put part of a 6,000,000-acre waste region to productive use. A 90-mile desert in Southern Australia is being conquered.

Learning by Seeing: Eleven German representatives of agricultural equipment industry there recently toured U. S. industrial plants and USDA research stations. Farm machine companies were of special interest, especially items that could be used on small farms such as they have in Germany.

A Helping Hand: About 95 per cent of cotton produced in Syria is from seed stock that originated in the U. S. Cotton has been grown in Syria for many centuries. American varieties used there are Lone Star, Acala, Coker and Lockett.

Farm Folks in Turkey have been exposed to visual aids talks by Americans now in that country, and results are the Turks like that form of teaching agricultural information.

Israel's Most Pressing agricultural problems are land and water—more of each are needed to increase food production, says Daniel Tiegerman, Israel farm youth now in America. Biggest development is a project to divert the Jordan river to southern part of Israel for irrigation of a large area now devoted largely to dryland grain production.

Farm Equipment Industry in 1952 had its second best sales year in history. Estimated total output of farm tractors was 437,751, compared with 1951 total of 570,795.

Share-the-Knowledge Program: Today, some 500 American agricultural workers are in Latin America, Europe, Africa and Asia. About 200 of these represent the USDA. Others are employees of Mutual Security Agency, U. S. Department of State, and FAO of the United Nations.

Peanuts, Native of South America, were cultivated by Indians.

Common Problems: Italy has an Agricultural Extension Director now, and 90 county agents, who have a great many administrative duties they can only spend about one third of their time on educational programs.

Can I Have the Car Tonight? In the United States, 71 per cent of all families own automobiles, and one third of car-owning families buy new cars.

By Leaps and Bounds! United States is growing at rate of 2½ million people a year! Try to imagine a city like Atlanta springing up to full size in a little over 2 months! Population in 1975 is expected to be around 190 million.

Popular Farm Machines: Today, there are about 4¼ million tractors on farms, 2½ times as many as in 1941. Also, farmers have more than twice as many trucks as they had 10 years ago.

Mechanical cotton pickers in last 5 years increased from 189 to 7,300.

Pass the Omelet, Please! People are eating more poultry products—last year U. S. citizens consumed 406 eggs per person. Average consumption of chicken went up from about 18 pounds per person in 1935-39 to almost 30 pounds in 1951.

Grass, Not Grain: In New Zealand, standard of living is based on grass, and production in dairy farming is made from grass, not grain. More than 90 per cent of exports are from dairy enterprises.

Growing Pains: Alaska, tho a mere infant in 4-H work, already claims 53 clubs with 422 members.

The Big Show: More than 1,000 makers of agricultural machinery were represented at the 24th Salon de la Machine Agricole—the French national farm machinery show—in Paris, March 4 to 9. There were 800 separate exhibits; in 1922, at the 1st show, only 332 stands.

Pass the Meat, Please: Americans will eat 60,000,000 pounds of meat today—enough to fill 15,000 2-ton trucks, according to American Meat Institute. More than 4,000 packing companies aid in the daily job.

It's the Biggest: World's largest poultry farm, a 300,000-hen place, is located near Illiopolis, Ill. At the 1,300-acre plant, eventually 350,000 hens will be in breeding pens.

Let's Give It a Try: A great deal of interest in farm equipment was shown at a recent agricultural show at Pietermaritzburg, South Africa. Some 33,000 persons attended.

The Good Earth: Between 1860 and 1910 the number of farms in America trebled! Increase was from 2 million to 6.3 million farms. Crop production mushroomed, and the back of famine's historic threat was broken in this country.

New Lease on Life: Tractors can expect a longer life now. Average life has increased about 50 per cent since 1941, says Farm Implement News. Rubber tires reduce vibration, tending to prolong years of service.

A Clear View: Northern European farmers are on the verge of a tremendous changeover from open-pollinated corn to hybrid seed, says the University of Illinois. Some hybrid corn yields have been far superior to American yields.

Linen-like Dress: Two new fabrics have been developed from cotton. One is common osnaburg, made from low-grade short staple cotton, and treated to give an attractive product with a linen-like finish. This fabric looks, wears and launders like linen, is excellent for dresses and children's play suits, says the USDA.

BULL PENS ARE SAFE, CONVENIENT



SAFE BULL PENS make Edwin Funk's job easier. Two parallel pens are made of large metal rods bolted to wooden posts set 4 feet in ground. Eye bolts fastened thru posts hold rods in place. Gates into and between pens are all in line, for easy moving of stock. Mr. Funk farms 350 acres in Marion county, produces registered Shorthorns from imported stock.

Here Are 10 Garden and Lawn Ideas For Better and Prettier Results

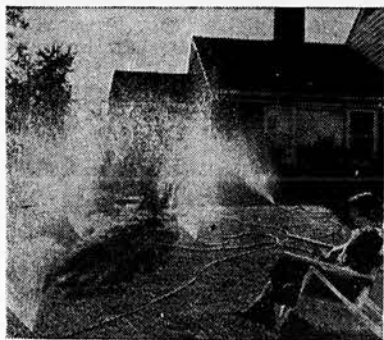
NOW THAT WARM weather is at hand, gardens are sprouting and weeds are with us again, who isn't glad to hear of some garden and yard aids? Here are new items on the market, designed for better gardens, greener lawns, less weeds, healthier plants.

Fertilize is a new plant food which can be applied to lawns and gardens same time you're sprinkling with a garden hose or automatic sprinkler.



In addition to 20 per cent nitrogen, 10 per cent phosphorus and 20 per cent potassium content, Fertilize contains effective quantities of 11 trace minerals for balanced nutrition. A small bag of Fertilize is emptied into the Hand Spray (shown here) and unit attached to hose. When water is turned on, plant food is mixed with water, and a strong, fan-shaped spray does the job! For details, write Nutritional Concentrates, Inc., 3090 W. Liberty Ave., Pittsburgh 16, Pa.

Sprinkleze is a versatile, 5-spot waterer. Attach to hose, and there's a 5-spot spray for lawn, garden 30 feet apart! Can be moved while in oper-



ation, too. Unit consists of brass connection with 5 outlets, 5 lengths of tubing and 5 brass sprinklers. No moving parts to wear out. Jons Mfg. Co., Dept. 11, St. Matthews, S. Car.

Feralon is a new plant food and soil conditioner for farm gardens and orchards. It's based on soy protein supplemented with additional phosphates and potash. One of first mixed fertilizers to contain the recently-developed fritted trace elements (P. T. E.) as well as antibiotics. Will not burn leaves or roots of tender plants and is non-poisonous. Oswego Soy Products Corp., Oswego 10, N. Y. Comes in powder form.

Waterboy Automatic is a new water timer—shuts off water flow automatically so you'll have greener lawns, healthier plants, beautiful flowers, better gardens. Attach to any standard hose spigot. Also can be used in stock water tanks, in basement wash tanks, plant sprays. Silent Sioux Corp., Orange City, Ia.

Weedabomb is a 2,4-D lawn weed killer. Kills dandelion, plantain, pigweed, ragweed, and other broadleaved



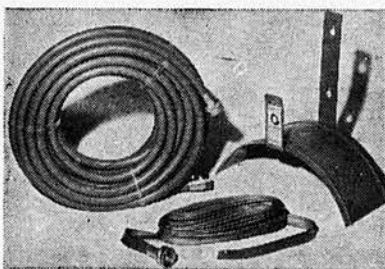
weeds, roots and all. Each bomb contains 1620 spot applications. Write Thompson Chemical Corp., St. Louis 3, Mo.

Windowsill Greenhouse starts seeds, cuttings, rare plants, leaves or bulbs so you'll have them when you want them during the year. Comes with plant food mixture. Howard Sales Co., 1654 Belmont Ave., New Hyde Park, N. Y.

Andrews Sprinkler is a lightweight, plastic unit that sprays an area more than 12 feet wide and 50 feet long. Does a top job in any position—contours, garden rows, lawns, flower beds, hillsides. Will not rot or mildew. Spray is fine and gentle. Complete with brass connector. Andrews Sprinklers, Dept. KFMR, 6612 Sunset Blvd., Hollywood 28, Calif.

Hydromix attachment goes on spigot to dispense chemicals for everything from feeding plants and lawns to killing insects. Use for detergents for window or car washing, too. Acrisil Co., 756 Clinton Ave., Newark, N. J.

Three Piece Garden Set is a new watering unit for accurate irrigation. Consists of 50 feet of 5/8-inch plastic hose with 8-year guarantee and solid brass fittings; hose hanger of steel; 20-foot



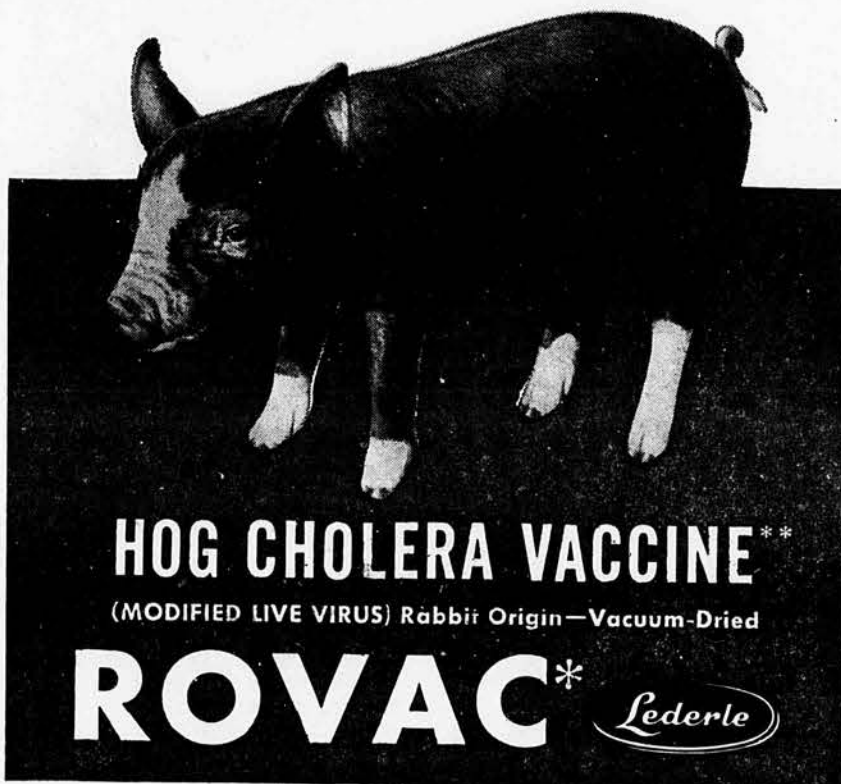
plastic soaker which has tiny holes to allow seepage for certain waterings. Write to Garden-Ware, 1731 Warwick Road, Grand Rapids 6, Mich.

Airosprayer is an all-purpose hand-operated sprayer for insect control, weed control, watering, pumping, white washing, fire fighting. Gives steady, unbroken spray or stream. No pressure tank—it draws directly from any open tank. Nozzle adjusts from fine mist to hard, steady stream—with up to 100 pounds pressure that reaches to 35 feet. Airosprayer Co., Neodesha, Kan.

INTRODUCED OFFICIAL 4-H SONGS

Official songs for 4-H Club boys and girls—"Dreaming" for girls and "Plowing Song" for boys—were introduced in 1927 by Fannie R. Buchanan, then a rural life specialist in Iowa. The "Dreaming" song begins, "My home must have a high tree above its open gate." It expresses in song and word a desire of every rural girl for a home where life can be blessed with real things of life. "Plowing Song" expresses joys of working with soil, crops, and animals and possibility of "sons of the soil" being lords of their own land.

8 good reasons for choosing this new-type vaccine!



HOG CHOLERA VACCINE**

(MODIFIED LIVE VIRUS) Rabbit Origin—Vacuum-Dried

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Lederle

- 1 Immunity—7 days following vaccination, although satisfactory protection may occur in 4 days.
- 2 Effective protection for at least two years.
- 3 Vaccination at 6 weeks of age, weaned or not.
- 4 No "seeding" of the soil.
- 5 Unvaccinated pigs not endangered by contact with vaccinated animals.
- 6 No special feeding care necessary.
- 7 Requires no serum, but may be used simultaneously with serum on animals which may be exposed to hog cholera.
- 8 One-injection protection—economical and easy to use.

Do what thousands of other hog raisers are doing to guard against hog cholera: Vaccinate all pigs routinely with ROVAC Hog Cholera Vaccine. ROVAC gives long-lasting immunity—and the cost is small compared to the dollar losses you might sustain if an outbreak occurred. Consult your veterinarian for best management practices and disease control procedures.

SULMET Sulfamethazine Lederle

SULMET* Sulfamethazine Lederle. This all-purpose sulfa drug is highly effective against many diseases of farm animals: Shipping Fever (hemorrhagic septicemia), Foot Rot, Calf Diphtheria, Metritis, Acute Mastitis, Calf Scours, Bacillary Enteritis, other bacterial diseases and Coccidiosis. It is also effective against Acute Fowl Cholera, Coccidiosis, Pullorum Disease and Coryza in poultry. When any of these diseases strikes, prompt use of fast-acting SULMET cuts losses, shortens sickness periods, avoids weight losses and stunting.

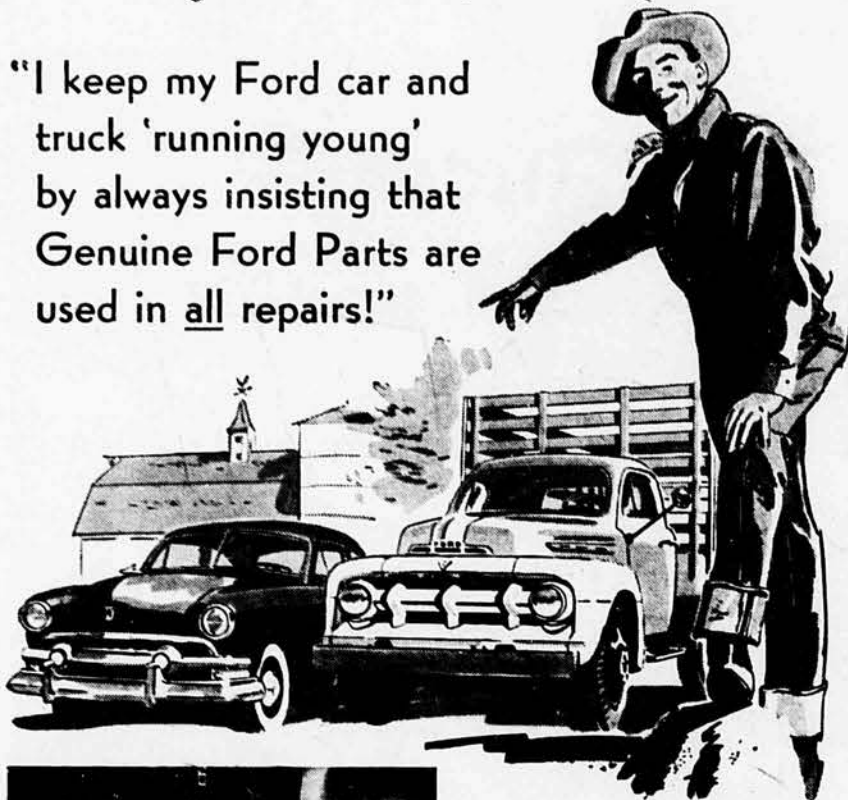
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WRITE FOR INFORMATION

No. 10 in a series on interesting facts about Kansas crops . . .

The Story of Broomcorn

By GORDON WEST

ONE OF MOST unusual of all Kansas crops is broomcorn. It is very important and practical to many people. Kansas is a leader in production of this crop. In 1951 yield was 1,200 tons from 9,000 acres. In 1950, production was 800 tons from 6,000 acres. Our production last year was 1,100 tons from 10,000 acres.

Broomcorn is native of India. It is one of cultivated sorghums grown for elongated panicle which is made into brooms. In southern areas of Europe the crop has been cultivated for many years, chiefly for seed. In Italy, new uses were found for the plant—making brooms and brushes.

Seed was brought to America, and in 1781 Thomas Jefferson listed broomcorn as one of agricultural products of Virginia. Before Benjamin Franklin's time brooms mostly were made of brush or grasses tied to ends of poles. In 1790, a friend of Franklin traveled thru Asia and sent a gift of a little hand brush back to America. "Franklin used the brush to clean his clothes, but on it found some seed which he planted," according to Colorado State College. Seed grew into a tall stalk and became a garden novelty. Then in 1795, another friend of Franklin—Levi Dickinson—hit upon idea of using tufted heads to make brooms and brushes.

From 1850 to 1860, Tennessee and Ohio grew considerable amounts of broomcorn. But this is a migratory crop and today, Kansas, Oklahoma, Colorado, New Mexico, Illinois and Texas are main areas. For many years, Baca county, Colorado, has retained title of Broomcorn Capital of World.

The broomcorn industry was introduced into that county by a Kansan, in 1887. A Mr. Rooseboom, a broom-maker from eastern part of the state, brought a one-man broom plant with him and started growing the crop. A handful of other settlers began to grow broomcorn and the industry was on its way.

While some poultry and stock feed value has been found in the crop, production today is predominantly for broom straws—for home and industry. Effectiveness of broomcorn lies in the peculiar, pliable, long-wearing quality of the fiber, good for making brooms.

Altho there are thousands of small broom plants thruout the country, only about 5 or 6 factories produce majority of brooms. National Broom Mfg. Co., started in Pueblo, Colo., in 1916 by Delbert Arbaugh, is one of the largest in America.

Kansas is a leader in production of



broomcorn products. According to the State Board of Agriculture, Kansas broomcorn quality long has surpassed any other state's.

The Lyndon Broom Company manufactures 6,600 brooms a week, was organized in 1936 in a Lyndon school building. Products are shipped to every state, with yearly production being about 343,000 brooms and 9,000 whisk-brooms. Some expensive broomcorn is imported from Italy, to be used as a wrap for outer part of brooms made from Kansas broomcorn. Labels of nearly every grocery warehousing firm in United States have been put on Lyndon-made brooms at one time or another, according to an article in Topeka Daily Capital, by farm editor Dale Fields. During World War II, the plant supplied armed forces with more than a million brooms.

Recently, National Broom Manufacturers Association undertook sponsorship of a new project at University of Illinois. Agronomists there report development of several new types of disease-resistant broomcorn. These varieties may make it possible to harvest a crop for both high-quality brush and seed. In past, seed brush has been of lower quality than green brush, harvested earlier. Also, it's reported research men hope to develop a strain which will have a juicy stalk so it can be fed to stock as a forage crop, or as silage after heads have been removed. Also, it is hoped seed normally discarded after being threshed from heads can be utilized as feed or seed.

All these facts mean one big item—increased profits for growers and larger utilization of an important cash crop. In Kansas, Morton and Hamilton counties have been leaders in broomcorn production for several years.

Farm value of 1952 crop in Kansas was \$473,000, in 1951 \$480,000. For U. S., farm value totaled \$12,008,000 for 1952 and \$14,739,000 in 1951. Total figures in future years promise to be much larger, with new varieties and new uses.

Power Sprayers Offer Real Protection Against Many Farm Fires

FARM POWER SPRAYERS, now in common use for control of weeds, insects, and crop diseases, are providing an added degree of protection against losses from fires on thousands of American farms. Many power sprayer owners keep this equipment in stand-by condition for emergency use in fighting fires during winter and other off seasons, as well as during summer months of heavy use.

The Bureau of Agricultural Economics has estimated fires on farms thruout the United States annually destroy about 100 million dollars worth of property and take around 3,500 lives. This is a huge and needless waste of both property and human lives.

In addition to fires about buildings there are other farm fires that cause substantial losses, such as grass and

woods fires. Every year in both late winter and spring some areas break out with a rash of such fires just as surely as children have measles. Effective use of power sprayers on farms can help greatly to reduce such losses.

Helps Fight Fire

Many modern power sprayers of this type are mounted on wheels for easy portability and can be quickly transported to the point where help in fighting a grass or woods fire is most needed. The spray tank also will usually supply enough water to completely control a grass or weed fire. A good source of water is, of course, essential for effectively fighting any fire.

Speed is the important factor in fighting any fire. First few minutes after a

(Continued on Page 21)

fire starts are especially important. In these few minutes, while the fire is still small, it may be easily controlled if equipment and fire-fighting materials are at hand and effectively used. A small fire can soon become a big one. In a few minutes it can get completely out of control. It can be completely devastating to the individual farmer.

Last summer one Midwest farmer had just filled his power sprayer with a solution for controlling weeds in his corn when lightning struck his barn. It was a freak "dry" storm with only a sprinkle of rain, but the bolt of lightning set the barn afire. The power sprayer was quickly brought into use to put out the blaze before any material damage was done.

A big fire would have been particularly unfortunate for the barn owner. Altho the building was partly insured, coverage was not nearly enough to put up a new barn. Moreover, most of his summer hay crop had been stored in the barn for winter feeding of a bunch of beef steers. This hay might all have been lost in a big fire. This would have forced selling the cattle on a down market, with considerable additional loss as no other hay has been available for sale in the community because of a short crop. Even at the time of the fire shipped-in hay was costing from \$30 to \$35 a ton plus hauling charges.

High-pressure power sprayers used for protecting fruits and vegetables from insects and diseases are effective in fire fighting. Such sprayers may develop 300 to 800 pounds pressure per

square inch. The higher the pressure the more fire-killing action the sprayer can exert.

When properly equipped with hose, gun, and fog nozzles, a high-pressure sprayer can be effective with less water than is required with low-pressure equipment. High-pressure fog spray is directed at the base of a fire. Fog nozzles can be used with pressures as low as 80 to 100 pounds, but they are increasingly effective as the pressure increases. Some farm sprayers will maintain a pressure as high as 800 pounds

Here's the Key

Productivity is the key to America's prosperity. This is shown in "A Better Life for You," an educational comic book, 5th in series sponsored by Bemis Brothers Bag Co., St. Louis, in interest of better economic education. For your copy, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

per square inch at the nozzle. High-pressure spraying also is most effective for a number of the jobs for which sprayers are normally used, such as application of fungicides and insecticides on fruit trees, vegetables, and field crops and spraying livestock for parasite control.

Farm power sprayers used for fire fighting must be properly cared for, but this also is true for any other use. The tires, engine, pump, valves, hose, and gun must be kept in good condition. Keep the sprayer filled with water and the gasoline tank filled with fuel.

In winter the sprayer must be protected from freezing both in storage and while in operation. During freezing weather store in a warm place, such as a basement barn. Calcium chloride solutions also are used to prevent freezing, but this chemical is conducive to rusting certain metals and should be used only where other means of avoiding freezing are not available.

Kill Insects!

Here are 2 new bulletins on insects—"Prevention of Rootworm Damage on Corn with Aldrin" and "Early Season Control of Adult Alfalfa Weevil with Dieldrin." They're published by Shell Chemical Corp., Denver, Colo. For your free copies, write Farm Service Editor, *Kansas Farmer*, Topeka, Kan.

A Good Understanding for You

By CHARLES H. LERRIGO, M. D.

PAINFUL REDDENING of a spot upon the outer portion of the foot with hardening of the skin means a corn; perhaps on the outer side of the little toe. Nothing new! But it does hurt! Men and women alike produce this trouble by wearing shoes that do not fit. Corn cures, many quite efficient, can be obtained at any drug store. Salicylic acid in some appropriate medium is the usual medication. There also is such a thing as a soft corn, usually coming between the toes, often disappearing readily if washed off with alcohol, followed by a foot powder.

Worse than corns, however, is the foot trouble known as the bunion, which may be a terrible handicap. The bunion does not yield readily to home treatment. Relief may be obtained in some cases from a rubber device that is called a bunion protector. It is not a cure but simply gives relief by the measure of protection from friction.

A Clever Playlet

If you are entertaining for a bride and groom, or a recently married couple, our leaflet, "Prophecy for Bride and Groom," will fit the occasion in any community, with few revisions. It is a good entertainment idea when presented in combination with a "shower." Characters required are a reader, 1 or 2 singers and a pianist. Costumes and other stage settings are not necessary. Please send your requests to Home Service Editor, *Kansas Farmer*, Topeka, Kan., for copies of the leaflet. Price 5c.

My reason for including this in our Health Column is that people drag along, year after year, in a semi-crippled condition which can be cured by surgery that may be performed under a local anesthetic. But how much better to protect the feet from the roughness, chafing and pinching of ill-fitting shoes.

Rotate Your Shoes

I urge patients to avoid wearing the same shoes 2 days in succession. It is quite possible even for a poor man to have several pairs. Each day put on a fresh pair and thus you will avoid the constant repetition of irritation. This not only gives you some safeguard against corns and bunions, but it also helps keep your feet from breeding offensive odors. Of course, it goes without saying in addition to the frequent change of shoes there must also be a change of hose. This is not an expensive matter but is a money-saver that will give you a sense of well-being and pay big dividends in avoidance of foot troubles. Patients practically deformed by a painful bunion, who consent to surgical aid, get rid of a disability that has been a handicap for years.

My first urge is that you give the matter of dressing your feet such respectful attention as will save you from corns and bunions. If too late for prevention, ask your doctor to put you in touch with an orthopedic surgeon and thereby obtain good evidence of proper understanding.

Many persons who have had corns for years keep them from becoming sensitive by paring the top of the corn at frequent intervals, thus nursing them along for more years. But how much better to have them cured!

Sinclair Announces New Premium Gasoline...



2 to 18% More Knock-Free Power!

Here's the biggest gasoline news of the year. It's Sinclair POWER-X, the super premium gasoline developed in Sinclair Research Laboratories for better road performance in modern high-compression cars. Sinclair POWER-X gives 2 to 18% more knock-free power as shown by laboratory tests. To get maximum performance, make sure your engine is adjusted to take full advantage of the extra power of the new Sinclair POWER-X.

Sinclair POWER-X Gasoline is so different it's patented. It contains RD-119®, Sinclair's amazing rust inhibitor that saves you repair bills caused by fuel system rust and corrosion. For your car, tractor and truck get the anti-rust protection only Sinclair can offer. Get the full, flashing power of a great new premium gasoline. Phone your local Sinclair Representative for POWER-X.

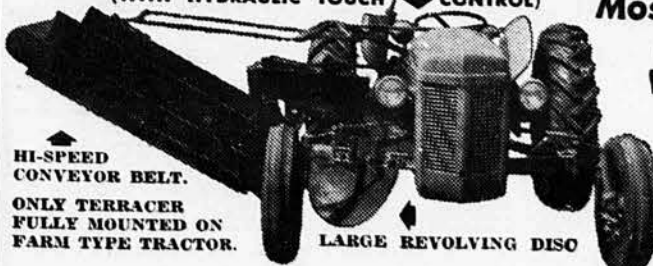
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NATIONAL FARM SAFETY WEEK - JULY 19-25, 1953

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(WITH HYDRAULIC TOUCH CONTROL)

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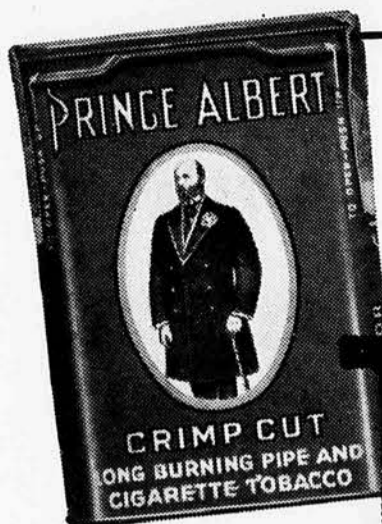
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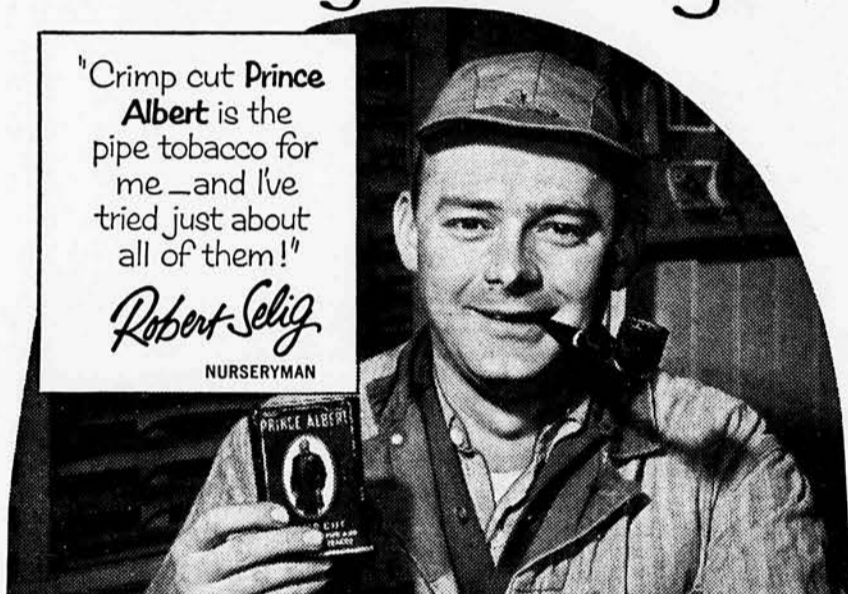
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Smoke
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"Crimp cut Prince Albert is the pipe tobacco for me—and I've tried just about all of them!"

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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.

GAINS SPEED UP USING NEW FEED

Tests With Broilers, Hogs, Dairy Calves Show Interesting Results

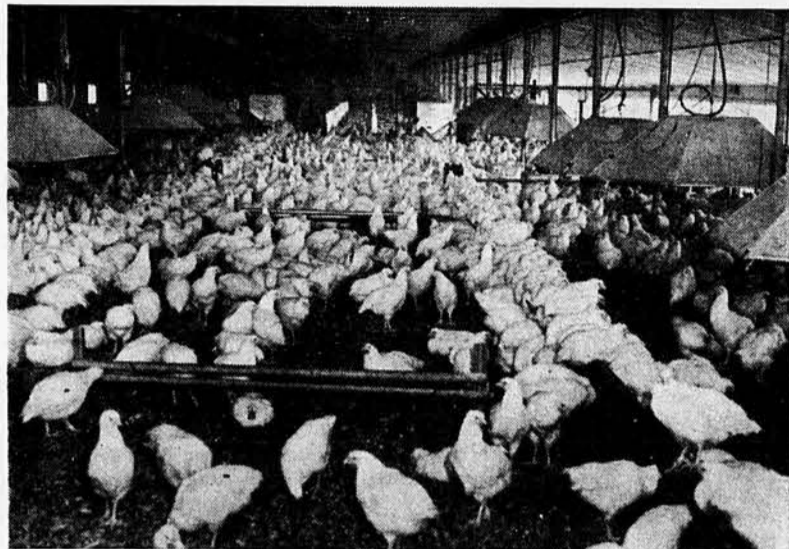
By CORDELL TINDALL

BY USING a new-type feed ingredient known as hydrolyzed whey, Consolidated Products Co., Danville, Ill., has been able to lower the feed conversion ratio to 1 pound of broiler meat for 2.53 pounds of feed. A feed manufacturer using this ingredient has been

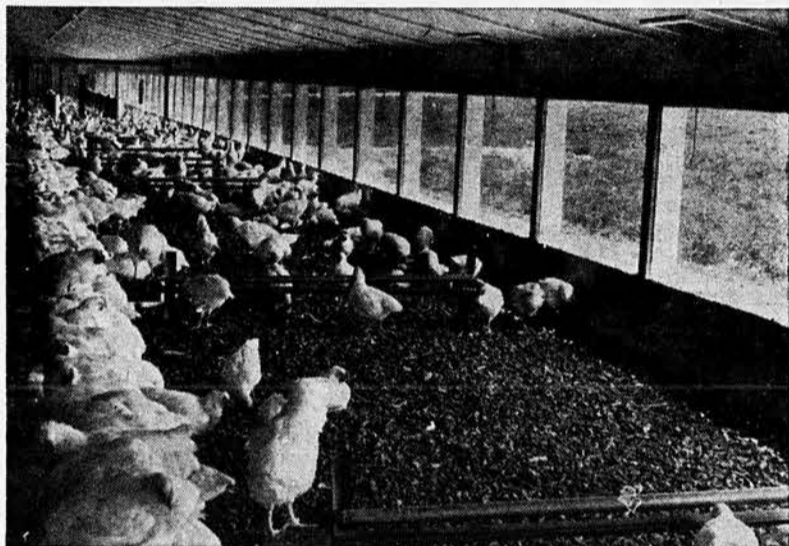
able to lower this ratio to 2.56 pounds of feed for the pound of broiler.

Birds in a new broiler house at Consolidated Products Co., experimental farm, Danville, weighed as much as 3.16 pounds in 9 weeks. Earlier this

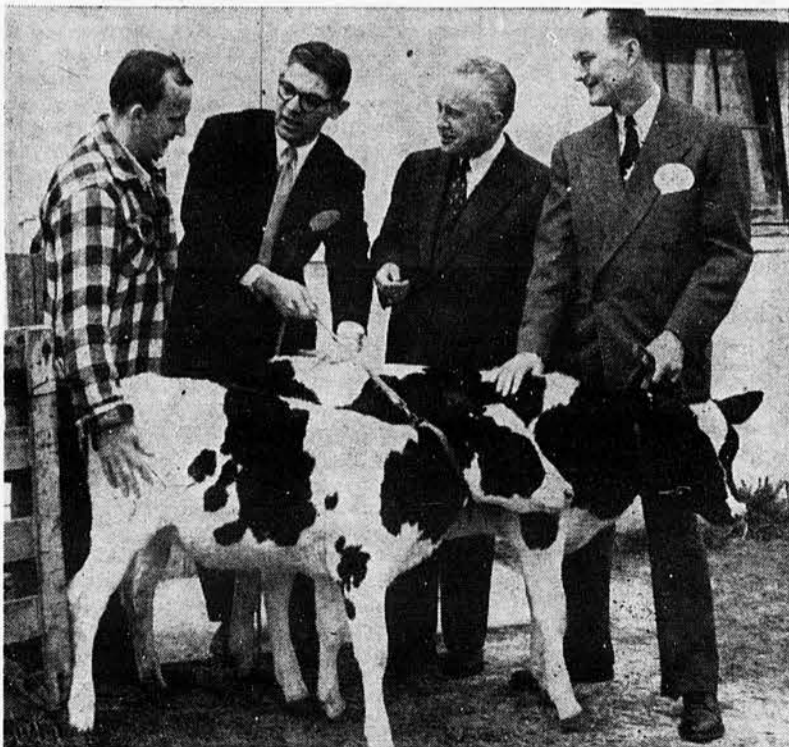
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BROILER HOUSE for 10,000 birds on test at Consolidated Products Co., test farm, Danville, Ill. These birds were weighing more than 3 pounds at 9 weeks—feed conversion for similar brood was 2.53 pounds of feed for pound of gain. Shaker-type automatic feeder is used in this unit.



DOUBLE-LAYER glass is used in front of new broiler house at Danville test farm. There's an air space between 2 panes of glass. All ventilation is forced, air ducts can be seen above windows and fans blow air out of building. Note ground corncob litter.



DAIRY CALVES on test are checked at Consolidated Products Co., farm, Danville, Ill. Calf at right received new hydrolyzed whey feed ingredient, the other calf did not.




ACME COWBOY BOOTS

Prices on most styles:

small children's - \$3.95 to 6.95
 boys' & girls' - \$6.95 to 10.95
 men's - \$12.95 to 17.95
 women's - \$13.95 to 19.95

WORLD'S LARGEST MAKERS OF COWBOY BOOTS

EASY OPENING SPRING GATE



Pull the cable suspended from pull pole and gate opens, pull other cable after driving through and gate closes. You stay on your vehicle. As low as \$120 f.o.b. Sold direct-factory to you. Send for folder.

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NEW Model 53 B.M.B. UTILITY CUTTER
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B-M-B Company, Inc. HOLTON, KANSAS

MOVE GRAIN FAST!



SNOWCO GRAIN AUGERS

Saves Hours! Saves Money!

A Snowco Grain Auger does more work than 3 hired men! Eliminates all hand scooping! Handles small grains, shelled corn, ground feed, etc. Ruggedly built to give years of trouble-free service. Available in 20, 25 & 31-ft. lengths. Finest grain auger on the market today! Wages saved in ONE season will easily pay for it!

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SNOW CORPORATION
 5010 N. 30th St., Omaha, Nebr.

month we visited this farm and saw the second brood of broilers which was making an equally good record.

The new feed ingredient is mixed with both mash and granules. Only 6 per cent of the ration is made up of the new ingredient.

We also saw dairy calves and pigs being fed the new ingredient.

The result of several years of costly research, hydrolyzed whey is "predigested." The milk sugar in ordinary whey is broken down by enzymes into 2 simpler sugars that are more easily—and more quickly digested by the animal. These simpler sugars are known as glucose and galactose. Glucose is the same sugar found in corn sirup. The breakdown or "digestion" of the sugar is done by use of a yeast, containing a lactose enzyme. Originally, this enzyme sold for \$5 to \$6 a pound and its use in commercial feed would have been prohibitive.

Mixing It in Feeds

Now, the new form of dairy product feed will be sold as a feed ingredient—several manufacturers already are mixing feeds using it. One manufacturer reported that use of the new ingredient means an increase in cost of \$2 a ton.

According to reports of experiments conducted by the company, hogs on the new feed ingredient are averaging 10 per cent heavier than "check" pigs which also are getting good rations. It is emphasized that the tests have been compared with good rations thruout. One typical test with 434 hogs shows those fed 6 per cent hydrolyzed whey averaged 213 pounds at 154 days, compared with a check group averaging 207 pounds at 168 days.

Hogs on the new ingredient showed 1 pound of weight gain on less than 3 pounds of feed, during and after weaning. Feed costs for total growing period ran slightly over 10 cents a pound of gain.

In one test 41 sows farrowing 9½ pigs in the spring farrowed 11.12 pigs to the litter in the fall, after being fed the new ingredient during gestation.

In a test with dairy calves 5 calves fed the new ingredient weighed 168.64 pounds at 6 weeks; 5 calves that didn't get the new ingredient weighed 160.64 pounds.

New Feed Stimulates Appetite

One advantage claimed for the new feed ingredient is that it stimulates appetite because of its sweet taste. Both glucose and galactose, the simpler sugars, are "sweeter" than milk sugar known as lactose.

This feature is considered especially important in broiler feeding as a measure to ward off such diseases as air sac infection. Chickens that continued to eat well appear to fare better when a house is hit by disease.

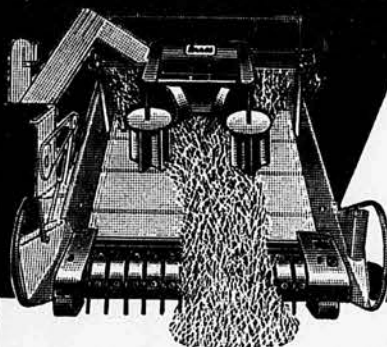
The new broiler house at the Danville farm is of special interest. The house, built of lightweight concrete blocks and asbestos board, is fully insulated. It is 50 feet wide by 200 feet long, houses 10,000 birds. It cost about \$30,000, or \$3 for each unit of capacity. Thermopane windows are built along the southern side of the house, double panes of glass with air space in between. When the sun shines thru these panes the house is warmed considerably. However, birds do not crowd into the light areas by the windows.

Use Shaker-type Feeder

Half of the house is equipped with a new shaker-type, automatic feeder. The other half utilized hanging feeders with a track and feed conveyor for easy filling. There's an automatic watering system, and all heat is supplied by individual hovers. Ground corncocks are used for litter, changed with each brood.

The house is completely ventilated and absence of cobwebs indicates the system is in excellent working condition. Altho the house cost more than we usually spend in Missouri, the poultry manager, Bill Wernersbach, suggests the cost is a good investment when efficiency of the house and equipment is considered. The cost might be worth it when one considers the disease control factor alone.

FOR SUCCESSFUL WINDROW HARVESTING



USE THE
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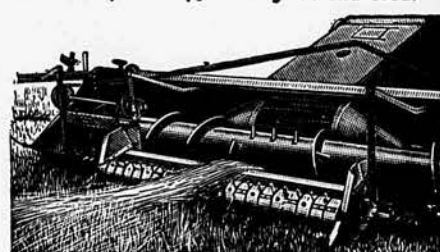
No other pick-up gets results like an Innes!

Its strong, revolving fingers lift the windrow carefully from underneath, like a huge pitchfork. They gently deposit the entire windrow, intact and unshelled, on the combine canvas. Then, on the downstroke, these patented piston fingers automatically strip themselves of entanglements. They draw completely back within the rotor, so that weeds and vines can neither wrap and stop the mechanism, nor get inside to clog the drive.

The Innes Pick-Up is so easy to handle that one man can attach it in a few minutes, without even removing the sickle guards. Stiff and spring finger models fit most combines.

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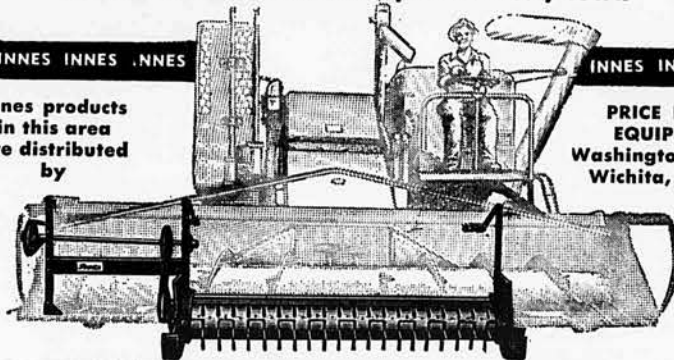


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Kansas Farm Home and Family

By FLORENCE McKINNEY



GEORGIANA SMURTHWAITE, state home demonstration leader, center, discusses plans for National Home Demonstration week, May 4 to 9, with district agents, Annabelle Dickinson, left, and Mary Ruth Vanskike, right. Twenty meetings are scheduled during the week. The 1953 observance honors the accomplishments of more than 44,000 home demonstration units in Kansas.

Kansas Celebrates

... National Home Demonstration Week

ALL OVER Kansas, farm women will be meeting next week to emphasize the importance of the home in our way of life. Many young homemakers will get better acquainted with the Extension service and the many ways the home economics program may serve their needs. The week's activities may be considered, too, a recognition of the many local leaders who have devoted time and effort to make farm life better.

Twenty regional meetings have been scheduled for purposes of reviewing the work of the Extension program over the years; there will be panel discussions and demonstrations. There will be a social get-together and time for making new acquaintances.

Meeting times and places are as follows: May 4, Lyons, Atchison, Russell, Belleville; May 5, WaKeeney, Wellington, Lawrence, Marion; May 6, Garden City, Anthony, Chanute, Phillipsburg; May 7, Ulysses, Larned, Eureka, St. Francis; May 8, Greensburg, Ashland, Junction City, Scott City.

At each meeting an individual or team demonstration will be given by unit members. A panel of women representing each county in the area will discuss "The Demonstration Way," and illustrate the way demonstrations have been used in their communities to teach home-making techniques.

A pageant, "Far Horizons," will be presented at each meeting. Mrs. Doris Compton Byrne, former Extension recreation specialist at Kansas State College, wrote the history of home demonstration work into the lines of the pageant. The first farm demonstration conducted by Dr. Seaman A. Knapp in February, 1903, on a

Texas farm, the first boy's and girl's project clubs which developed into today's 4-H Clubs, the early day hat making and fireless cooking by farm women's clubs are included in the scenes.

There will be window displays of homemaking skills developed thru home demonstration unit lessons, and special interest workdays will inform the public of the wide and practical scope of Extension home economics work.

In counties, teas will be a popular way to observe the week. With each home demonstration unit in a county co-operating, a tea for 300 to 900 rural women is not considered an impossible task. Programs at the teas will vary from illustrated talks on foreign travel to discussions on consumer problems of 1953.

The Weaker Sex!

My feminine helpmate has no strength at all.
She clings to me knowing I won't let her fall . . .
I carry all packages, heavy or not.
She can't lift or push, and must not get too hot.
As weak as she is, I can't understand
How she screws on a lid with that dainty hand
Till I have to make use of a wrench from the car
Getting her home-made pickles out of the jar.

—N. B. Middleton.

A review of the 1952 work shows more than 69,000 families received information on one or more of the 8 projects—foods and nutrition, clothing and textiles, home health and sanitation, home management, home furnishings, recreation, family life and consumer education.

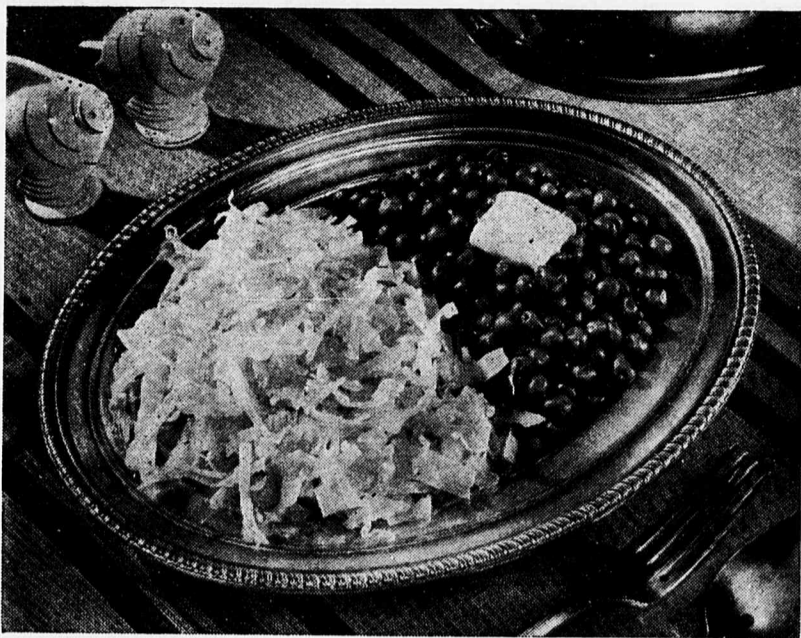
How to make mixes was a popular subject, given to nearly 9,000 women. Direct help in the care of sewing equipment, including cleaning and adjusting sewing machines, was given to 922 families. As for the family life project, 15,400 families received and used information on understanding the emotional needs, patterns of behavior and principles of child development.

National Home Demonstration Week is the time for reviewing the accomplishments, a time for paid Extension workers and unit members to evaluate and plan for a more varied and larger program in the future.

In his message to the homemakers of Kansas, L. C. Williams, director of the Extension service, said, "It is altogether fitting and proper that recognition be given nationally during one week of each year to observe the importance of the home in the lives of the people. In celebrating the week in Kansas, it will be well for us to consider past achievements only as a guide to future progress. We have made important strides in achieving worth-while goals. The satisfaction of accomplishment and the glow of pride in work well done must, however, be tempered with the realization that the tasks yet unfinished are greater in number and more complex in nature than those to which we have previously devoted our energies.

"Even in Kansas, many homes are not modern thruout. Good [Continued on Page 25]

THE RECIPE CORNER



FRESH CABBAGE with cheese and peas with lemon butter give a meal a lift.

Corn-Meal Spoonbread

You spoon it from the baking dish and pair it with butter or with butter and maple sirup.

- 1/2 cup corn meal (white or yellow)
- 1/2 teaspoon salt
- 2 cups sweet milk
- 1 tablespoon butter
- 2 large or 3 small eggs, beaten

Mix corn meal and salt in saucepan. Stir in the milk and cook, stirring constantly until a mush is formed, about 5 minutes. Remove from heat, stir in butter and when melted, stir in the beaten eggs. Mix well and pour into shallow, buttered baking dish. Bake in moderate oven (375°) until puffed and brown, about 25 to 30 minutes. Serve hot at table from baking dish.

Beef-Potato Pie

- 1/2 pound cubed salt pork
- 1 1/2 pounds cubed round steak
- 3 cups hot water
- 6 tablespoons flour
- Salt and pepper
- 4 medium potatoes, sliced thin
- 2 medium onions, sliced thin
- Biscuit dough for 8 biscuits

Fry salt pork until crisp. Add beef and cook until well-browned. Add hot water. Combine flour with cold water to make thin paste. Stir into meat mixture and continue to cook over low heat, stirring constantly until sauce is smooth and thickened. Season to taste. Place 2 layers of onions and potatoes in oiled baking dish, about 8- by 12- by 3-inch baking dish alternately with layers of meat, ending with meat layer. Cover with biscuit rounds. Bake in moderate oven (350°) for 1 1/4 to 1 1/2 hours, until potatoes and meat are tender. Serves about 8.

Pineapple Brown Betty

- 3 cups soft bread crumbs
- 1 No. 2 can pineapple chunks
- 2 tablespoons brown sugar
- 2 teaspoons cinnamon
- 2 tablespoons grated orange peel
- 4 tablespoons melted butter

Scatter 1 cup of the bread crumbs in the bottom of a buttered baking dish. Cover with half of the undrained pineapple. Sprinkle with half of the brown

sugar, cinnamon, orange peel and butter. Add another cup of bread crumbs and the remaining pineapple, reserving some of the pineapple tidbits for garnish, sugar, cinnamon and orange peel. Toss third cup of bread crumbs with remaining 2 tablespoons melted butter. Cover top of casserole with buttered crumbs. Cover and bake in moderate oven (350°) for 20 minutes. Remove cover and continue baking for 30 minutes. Garnish with pineapple tidbits. Serves about 6.

Orange and Nut Pie

- 2 cups milk
- 1/2 cup sugar
- 3 tablespoons cornstarch
- 1/4 teaspoon salt
- 2 eggs, separated
- 1 orange, grated rind and juice
- 1/2 cup chopped nut meats
- Baked pie shell
- 4 tablespoons sugar

Scald milk in a double boiler. Mix sugar, cornstarch and salt together thoroly. Add the hot milk. Stir until thickened. Cover and cook for 15 minutes. Add some of this mixture to the well-beaten egg yolks. Return to the double boiler and cook a few minutes. Remove from heat and add the orange rind, juice and nuts.

Pour mixture into a 9-inch baked crust and let stand a few minutes. Make a meringue from the well-beaten whites, 4 tablespoon sugar, a few grains of salt and a little vanilla. Spread over top of filling, being certain it touches edge of crust at all points. Bake in low oven (325°) for 15 to 20 minutes or until lightly brown.

Keeps Polish Moist

Put a damp cloth or sponge in a partly used jar of silver polish to keep polish from drying out. Sponge or cloth is handy for quick cleaning of tarnished silver while washing dishes. —Mrs. J. H.

Kansas Celebrates

(Continued from Page 24)

nutrition and family health are major problems only partly solved. Farm enterprises in many instances are not sufficiently balanced to support good homes. Thousands of boys and girls who should be enrolled in 4-H Club work and other worth-while youth activities do not as yet have that opportunity.

"These are only a few of the reminders to all of us that the week of May 4 to 9 is a time of rededication as well as celebration. May we here highly resolve that we will help one another to maintain the type of homes and home life which will weld our communities into a Nation strong and true in its position of world leadership."

The Mock Wedding

There will be plenty of fun at the party if this comical mock wedding is included in entertainment plans. It may be given by an all-women cast or an all-men cast. Send your requests to Home Service Editor, *Kansas Farmer*, Topeka, Kan., for your copy of this leaflet. Price 3c.

Dependable

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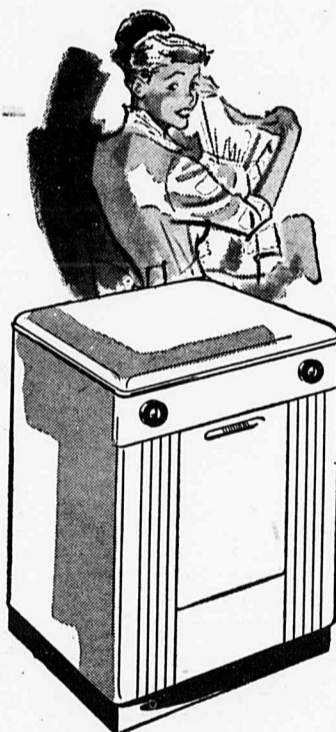
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NOTES FROM THE BEET SUGAR KITCHEN

by Nancy Haven

Strawberries in
their **SUNDAE-BEST**



You'll have luscious whole red strawberries in a heavy syrup—wonderful over ice cream! Gives sparkle to other desserts*. And so easy to do.

Strawberry Sundae Sauce

CRUSH 1/2 cup strawberries in preserving kettle; add 4 cups Beet Sugar and 2 tablespoons lemon juice.

BRING to a full bubbling boil on high heat (about 4 minutes), stirring constantly. Add 3 1/2 cups whole strawberries; boil 4 minutes, stirring often.

POUR into a large platter; skim. Let stand at room temperature 24 hours, stirring once (plumps berries, thickens sauce). Heat, then spoon into hot sterilized jars; seal. Makes 3 half pints.

*Simply grand over custard-filled cream puffs, or thin pancakes, rolled, with cream cheese filling.

More Strawberry Specials

Send for these booklets!



"Well Preserved"—32 pages of preserving and freezing recipes, including prize Strawberry Preserves, Strawberry Velvet, and Frozen Whole Berry Garnish.



"Answers By The Canning Doctor," a reliable, 56-page reference on the "how to's" of home-preserving, freezing. Address below



In all the world there is no better sugar than U.S.-grown Beet Sugar for home-preserving and every sugar use.

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

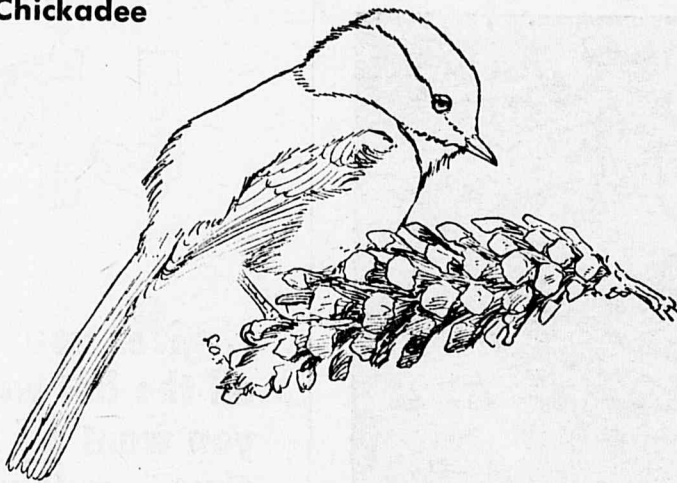
Walker Remedy Co.

Waterloo, Iowa

KNOW YOUR BIRDS . . .

By L. B. CARSON

The Chickadee



CHICKADEES will learn to take food from your hands if they find you are harmless. Every winter insect or egg he finds, means fewer pests for the coming year.

*A friendly little urchin
With black on cap and chin,
He will become quite chummy
If you are kind to him.*

ANYONE who likes the outdoors will soon become acquainted with the chickadee. He is around your trees both winter and summer and seems just as happy when the snow is falling as when the sun is shining. He is friendly and can be found in small flocks, either with others of his kind or in a mixed group with downy woodpeckers, nut-hatches, tufted titmice or kinglets. Food is not too much of a problem for his sharp eyes can locate insect eggs or larva even when hidden in the bark on trees or under leaves. Suet, peanut butter or sunflower seed will bring them to your feeder in a short time.

Whistles "Phe-bee"

In spring the "chick-a-dee-dee-dee" notes from which he received his name, change to a whistled "phe-bee," or if you live farther south, you might hear "phe-bee-phe-bay," which is the note of the Carolina chickadee. The latter is slightly smaller but his habits are much the same. Some regions produce both.

Those of you who have watched this bird dart into your feeder, grab a sunflower seed and flit to some nearby perch, hold the seed by anchoring it under his foot, and crack it with a few well-directed blows will be amazed to know he can hew his own nesting site, when no abandoned woodpecker holes are available. He chooses a spot where the wood is not too hard and works diligently until the desired cavity is made. The nesting site is lined with fur or feathers to protect the 6 to 10 eggs which are white, lightly speckled with brown.

An Interesting Family

The young make an interesting family as they accompany their parents to your feeding station where they either accept the food from the parent or pitch in, much as other youngsters might do.

Chickadees show confidence in man and will soon learn to take food from your hands but only if they find you are harmless. Any quick movement on your part and they seek shelter immediately. What a thrill it gives, when one of these feathered midgets feeds from your hand!

After watching this bird make his inspection of your favorite shade trees, it is easy to see he is worth his weight in gold. On the bark, peering into each crevice, under a limb or hanging by his heels to reach the tips of small twigs—there is no safe place for insects or their eggs. Every winter insect or egg he finds, means there will be fewer pests for the coming year. These insects when combined with small spiders and leavened with an assortment of small seeds, keep the chickadee in top form, no matter what the weather may bring.

When night comes he seeks shelter in some hole which protects him from

most predators. Or if unable to find a suitable location, he might use one of your bird boxes you left out so it could get that weathered look.

As a small boy, we knew where most of the birds on our farm nested and took an active interest in their family lives. We will never forget how startled, if not scared, we were when we peeked into a chickadee's nest. The hiss with which we were greeted, made us think we were seeing eye to eye with some dangerous snake. It is a good protection and has no doubt saved many young chickadees.

Readers Want To Know

I have a phoebe that has been returning to my porch for 3 years, nesting there and raising her families. I would like to know what kind of feed to put out for her as she doesn't seem to care for the cracked barley I have been

providing, but fights with other birds that try to eat it.

I also have several birdhouses which I recently cleaned out. The birds build their nests in them, but never seem to raise any young. Wrens never go into the birdhouse I bought. I have this house wired in a multiflora rose fence.

Thank you for any information you can give me. I enjoy reading the new series in the Missouri Ruralist.—Mrs. Roy Pollman.

You are fortunate to have a phoebe nesting on your porch, for this bird belongs to the flycatcher family and gets most of its food by catching flying insects. It prefers insects at all times and you can watch it catch them by flying up and intercepting them . . . then back to its perch. The reason it fights other birds is because you have placed the food in the phoebe's territory and he is trying to protect his domain. If you want to feed the other birds, put their food on the other side of the house or well away from the phoebe's nesting area and they will not be bothered by your nesting bird.

Do You Have Cats?

There could be several reasons why your birds which nest in your birdhouses do not successfully raise their families. Do you have cats in your area? Young birds are high on the cat menu. Snakes and blue jays also eat eggs or young birds whenever possible. The house wren with his bill often punctures the eggs of other birds in his area. Punctured eggs will not hatch. A birdhouse which is not ventilated often gets hot enough to smother young birds.

Wrens like houses in a more open spot than you get by wiring the house in a multiflora rose fence. If you will place this house on a post about 8 to 10 feet above the ground, open except for limbs or a wire a few feet from the entrance, you may have better success.

Will you please tell me how I can get rid of sparrows. I would like to have instructions on how to make a sparrow trap.—Lawrence Zwilling.

(Continued on Page 27)

A PRIZE WINNER EVERY TIME WITH RED STAR Special Active DRY YEAST

Senior Winner, Grand
National Baking Contest,
Waldorf-Astoria, Ellen M.
Ryynanen, Hancock, Mich.

DOUGHBOYS

FRY at 375° F.
for 2 to 3 minutes.
MAKES 3 dozen doughnuts.



DISSOLVE 1 package RED STAR Special Active Dry Yeast (or 1 cake Red Star Compressed Yeast**) in 1/3 cup warm water (110° to 115°F.). **COMBINE** 2 cups milk, 5 tablespoons shortening in saucepan. Heat until milk is scalded and shortening is melted. **ADD** 1/2 cup sugar, 1/2 teaspoon salt, 1/2 teaspoon aniseed to hot milk mixture. Cool to lukewarm. **BLEND** IN 1 egg, slightly beaten, and the dissolved yeast. **ADD GRADUALLY** 6 1/4 cups sifted Pillsbury's Best Enriched Flour*; mix thoroughly. Grease top and cover. **LET RISE** in warm place (85° to 90°F.)

until doubled in bulk, about 1 hour. **DIVIDE** dough in half. Roll out each half on floured board or pastry cloth to 12x9-inch rectangle. Cut into 4x2-inch strips. Cut each strip twice about half way across on the 4-inch side; spread apart so cut sides do not touch. Place on ungreased baking sheets and cover. **LET RISE** in warm place until light, about 1 hour. **FRY** in hot, deep fat (375°F.) until golden brown, 1 to 2 minutes on each side. Drain. Roll in sugar, if desired.

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

**If compressed yeast is used, dissolve in 1/3 cup lukewarm water.

RED STAR IS THE FIRST 3-WAY
IMPROVED DRY YEAST



QUICKER DISSOLVING...
QUICKER RISING...
KEEPS FRESH LONGER.



Readers Want to Know

(Continued from Page 26)

You have sparrows because you have created a good habitat for them, either in nesting areas or the right food. If you eliminate the conditions, sparrows will no longer be a menace. Killing the birds or destroying their nests is only a temporary measure. Trapping wild birds usually requires both federal and state permits, so we suggest you give careful consideration to this angle before setting your traps. Farmer's Bulletin No. 493, "The English Sparrow as a Pest," issued by the U. S. Department of Agriculture, Washington, D. C., gives directions for trapping this species.

Last year 3 other boys and I made birdhouses. The others got 2 nests in theirs. How come I didn't?—Jimmy Doane.

Jimmy, your question is a hard one to answer for you did not tell me all about your problem. If your houses were just the same as those built by the other boys, it would not be the construction. Did you put them in a similar area as the others? For instance a bluebird house hung on a post away from trees will attract birds quicker than one placed in your yard. Watch the bird and see where he likes to nest. Then put your house in a spot as near like that as possible.

Perhaps your friends live on a farm while you live in town. All birds do not like city life. Another thing, do you have a cat? The birds do not get the same pleasure from a cat around the house, as you might. But, don't give up... this year you might have the birds.

We have one-fourth block of ground with several fruit trees. I would like to know how to keep our colored native birds here. Red birds, yellow birds and blue jays come but do not stay. Do our sparrows chase them away? There are a good many here.—Mrs. Fay Tharp.

Sparrows are not driving the cardinals and blue jays away, neither would they molest the American goldfinch, yellow warbler or oriole which might be the yellow bird you mention. A bird bath or feeding station will attract many birds to your yard, both winter and summer. A wild cherry, hackberry or mulberry tree will bring birds. If you prefer smaller bushes, I suggest dogwood, bush honeysuckle, elderberry or bittersweet. Rambler roses add beauty to your place and provide nesting spots for cardinals, catbirds and brown thrashers. A grape arbor will be attractive, also. Any place that provides protection and food will attract and hold the birds.

I would like to get all the information available on care and breeding of pigeons.—Charles W. Schroeder.

Pigeons have been developed and bred so extensively, it is not possible to supply all the information you request. Most fanciers specialize on either one or at most a few varieties. I suggest you write to the publisher of "American Pigeon Journal," at Warrenton, Mo. He will be able to give you the information you want.

I have been reading with interest your articles "Know Your Birds" in Kansas Farmer.

Can you tell me where I can buy a good bird book? One that describes all birds and also shows them in natural colors. I am a bird lover and a bird protector and would like to know more about them. Thanks for the bird articles. I have been a subscriber to Kansas Farmer for about 25 years.—John Cipra, Holyrood, Ellsworth county.

You live in the part of Kansas that is the rough dividing line between the western and eastern birds. This is fortunate, for you will see both, but unfortunate in that you will need 2 bird books instead of one.

A good reference book is "Birds of America," edited by T. Gilbert Pearson with 106 colored plates by Louis A. Fuertes. Cost is \$5.95 plus postage. The pair of books is by Roger Tory Peterson, entitled, "A Field Guide to the Birds," (Eastern) and "A Field Guide to the Birds" (Western). Most birds are shown in color and these books are small enough to carry with you. They cost \$3.75 each plus postage. Ask for latest editions.

Richard H. Pough is the author of 2 excellent books, "Audubon Bird Guide, Eastern Land Birds," and "Audubon Water Bird Guide." Each costs \$3.50, plus postage. These books may be obtained from either the National Audubon Society, 1130 Fifth Avenue, New

Do You Have A Question?

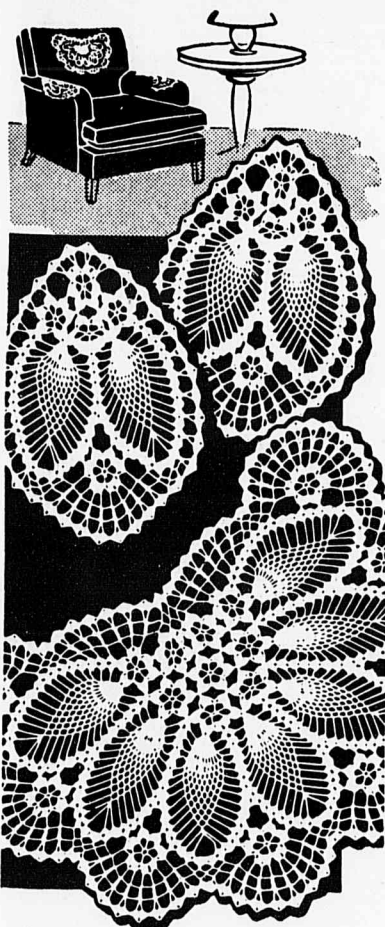
We know many of you are interested in birds. Some of you write us asking about birdhouses, how to make feeders and other questions. Now that we have started the series, "Know Your Birds," we are well prepared to answer your questions fully. All questions will be turned over to our expert, L. B. Carson, a birder of some note in the Midwest. Please address all questions to Florence McKinney, Home Editor, Kansas Farmer, Topeka.

York 28, N. Y., or from the Pierce Book Company, Winthrop, Ia.

Joyous Springtime

Within the field and in the wood
Crowsfoot and sorrel peep,
While on the stream the redbuds gleam;
My neighbors vigil keep
O'er sword-like blades in iris beds,
And to their tulips sing . . .
Put on old duds and plant your spuds,
It's time to welcome spring!
—By George Nicholas Rees.

Flowers and Pineapples



7295

Flowers and pineapples whirl off your crochet hook in gay array. Make this set to freshen sofa and chairs. Use No. 30 cotton. Pattern 7295. Chair back is 12 by 17 inches; arm rest, 6½ by 9 inches. Easy to crochet.

Pattern 25 cents. Address Needlework Editor, Kansas Farmer, Topeka.

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GAS RECESSED WALL UNIT

GAS COOL CABINET RADIANT CIRCULATOR HEATER

GAS FLOOR FURNACE

SILENT AS A KITTEN WITH AN EXTRA SET OF FOOT PADS

THE FAMOUS

DESIGNED FOR FARM AND RURAL HOMES

Thriftmatic Gas BURNERS

WORLD'S LARGEST MANUFACTURERS OF GAS FLOOR FURNACES

EMPIRE

BELLEVILLE, ILLINOIS



Topeka homemaker has taken 33 ribbons in 3 years

Wins Cooking Sweepstakes at Kansas Free Fair

Even Cheryl Ann's doll gets a look when Mrs. Ardath F. Weeks shows some of her prize ribbons to her 9-year-old daughter. Mrs. Weeks has been entering cooking contests at the Kansas Free Fair for 3 years now. Last fall she won 2 first prizes—and took a big sweepstakes award against even stiffer competition. A record like that makes her one of Kansas' leading cooks!

Besides entering cooking contests and caring for her family, Mrs. Weeks holds a full-time job . . . and with all her duties, she certainly appreciates the convenience

of Fleischmann's Active Dry Yeast. "It's so fast and easy to use," she says. "And it always gives me wonderful results."

Now when you bake at home it's convenient to use yeast. Fleischmann's Active Dry Yeast is so much handier than the old-fashioned yeast cake—it keeps for months on your pantry shelf, always rises fast. That's why prize-winning cooks prefer it! Out of 5000 prize winners surveyed, 97% use Fleischmann's Active Dry Yeast. So look for the Fleischmann label to be sure you get the best.

Housework Easy Without Nagging Backache

Nagging backache, loss of pep and energy, headaches and dizziness may be due to slowdown of kidney function. Doctors say good kidney function is very important to good health. When some everyday condition, such as stress and strain, causes this important function to slow down, many folks suffer nagging backache—feel miserable. Minor bladder irritations due to cold or wrong diet may cause getting up nights or frequent passages.

Don't neglect your kidneys if these conditions bother you. Try Doan's Pills—a mild diuretic. Used successfully by millions for over 50 years. It's amazing how many times Doan's give happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

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SPECIFICATIONS
Width of Cut—36 in. Bearings—Timken. Power—3 H.P. Briggs & Stratton. Frame—Fabricated Electric Welded Steel. Differential—Auto Type Drives From Both Wheels. Drive—Standard Auto V-Belts. Gears—Machine Cut. Tires—400x8 Pneumatic. Self Propelled.

The F & H heavy duty 24" 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.

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4614
SIZES
12-20
30-42



4868
SIZES
34-48



4676
SIZES
12-20
30-42

4614—New casual with sweetheart neckline. Misses' sizes 12 to 20; 30 to 42. Size 16 takes 4½ yards 35-inch fabric; ¾ yard contrast.

4868—Long line gives this dress slimming effect. Women's sizes 34 to 48. Size 36 takes 4½ yards 35-inch fabric.

4676—Easy to make snappy-wrap. Scoop neckline circled with scallops and bound in contrast. Opens flat to iron. Misses' sizes 12 to 20; 30 to 42. Size 16 takes 4½ yards 35-inch fabric.

4677—Juniors, you can make this in jiffy time. Four pattern parts. Junior sizes 11 to 17. Size 13 takes 4½ yards 35-inch fabric.

9335—Child's 4-way wardrobe to mix and match. Easy to make. Child's sizes 2 to 10. Size 6 entire ensemble takes 3¾ yards 35-inch fabric.

9318—Mom-to-be, jacket, skirt and 2 blouses to mix and match. They're all sew easy. Skirt is cut out to insure smooth fit, comfort, even hem. Misses' sizes 12 to 20. Size 16 takes 4½ yards 39-inch fabric; ¾ yard contrast.



4677
SIZES
11-17



9318
SIZES
12-20



9335
SIZES
2-10

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"To Make the Best Better"

News of Kansas 4-H Clubs

By GORDON WEST

STAFFORD COUNTY 4-H Council is sponsor of a project to put up "welcome" signs around the county line, writes Sharon Crissman, reporter of Eden Valley 4-H Club. Recently her local club gave a program—play, chorus and instrumental numbers—to a large crowd of patients at the Larned State Hospital.

Twenty 4-H Clubs in Franklin county gave a "recognition" banquet for their 87 community and project leaders and husbands and wives at Ottawa recently. Marjorie McAuliffe, reporter for Princeton Jolly Workers club, writes the room was gaily decorated with green and yellow streamers and bouquets of jonquils on each table. Junior leaders served the meal, decorated the room. Food was prepared by home demonstration units. After a program of music and speeches, pencils, pins and congratulatory letters were presented to leaders by Richard Jameson, 4-H agent. All were commended for their fine work and co-operation during 1952.

Driftwood Sunflowers 4-H Club in Rawlins county is happy with several top honors coming their way recently. First of all, they're the state-winning club in safety, announced recently by *Kansas Farmer*. At the annual Spring Festival, 27 of the 28 members par-

ticipated and all had blue ribbon "first" placing for folk games, demonstrations, voice or play entries! At the regional competition the club's folk game team won a blue ribbon. Many members were in their county chorus group which won a blue ribbon, too, at regional contest.

At a recent county achievement party, Driftwood club was named tops in health and safety work. Six of the club's members won county championships—in wheat, swine, junior leadership, potatoes, baking, rabbits, boy's achievement and demonstrations. Deloit J. Peterson, reporter, says the club again received a purple seal award for achievement.

Blue Hills 4-H Club, Osborne county, is contributing to the "Seeds for the Philippines" campaign, has decided to "exchange" a club meeting with the Winfield 4-H Club, and is carrying out milk and water testing projects for their community. Dorothy Minear is club reporter.

Happy Hustlers 4-H Club of Wilson county recently featured clothing activities in a local store window. The display was up for one week, caused many comments by local folks. All garments shown were blue-ribbon winners at fair competitions were made by girls of the club, writes Mary Jo Kidd, reporter.

Name 1953 Winners of Leadership Honors in Kansas 4-H Club Work

NAMES OF KANSAS 4-H Club members to attend the annual National 4-H Club Camp in Washington, D. C., June 17 to 24 are announced. They are Jack Sexton, Talmadge; Tom Shinn, Conway; Ruth Stinson, Ottawa, and Luanne Hicks, Goodland.

Jack, who has served as president of both local club and Dickinson county council, has completed 39 livestock and crop projects in 9 years with Harmony Hustlers club.

Luanne has completed 45 projects and received 13 county championships during 10 years with Llanos club in Sherman county. She's helped plan many 4-H activities in outstanding junior leadership work.

Tom, who has established a herd of 25 registered Angus cattle, is a member of the Ninescah Valley club in Sedgwick county. He's been county winner in beef, corn, poultry, and general livestock, and has served as president of local club and county council.

Ruth has been with Jayhawk 4-H Club in Franklin county 9 years, is now at Kansas State College. She's completed 45 stock and home economics projects, has served every office in local club. For 3 years she has won title of champion in junior leadership work.

The 4 leadership winners automatically become members of the Master 4-H Club, state honorary group for Washington, D. C., trip winners.

Honor 4-H Leaders

Kansas 4-H leaders often are asked to go "on the air" to tell of their work. Several Pottawatomie leaders appeared on a radio program, "A Place in the Sun for 4-H Leaders," at St. Joseph, Mo., April 4. Mrs. Wendell Hanson, Olsburg, was honored as a typically outstanding 4-H community leader. Appearing with her on the show were Mrs. Willard Olson, Garrison, and Carol Hanson, Olsburg.

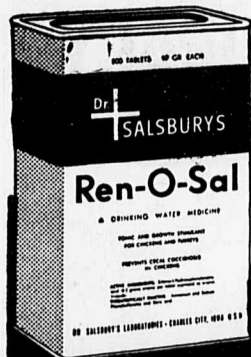


Delmar Conner

Wins U. S. Holstein 4-H Boys Award

National Champion Holstein 4-H boy in United States for 1953 is a Kansan, Delmar Conner, Lyons, announces the Holstein-Friesian Association of America.

Not only is he tops in field of cattle breeding and fine dairying work, but the winner is a champion in the food preserving field, having won grand championship honors at Kansas State Fair! The national Holstein award, highest recognition offered young people by the national association, is based primarily on Holstein work, but a balanced program is much to the advantage of those competing. He showed great ability in managing cattle for high production at a practical level of feed and care.



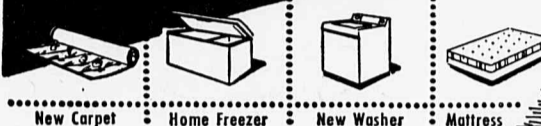
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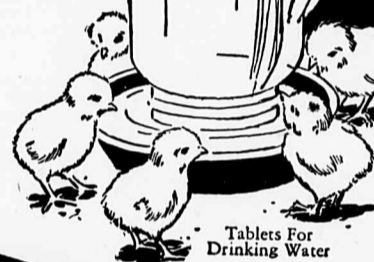
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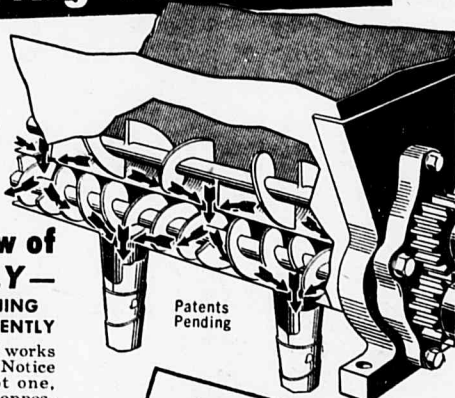
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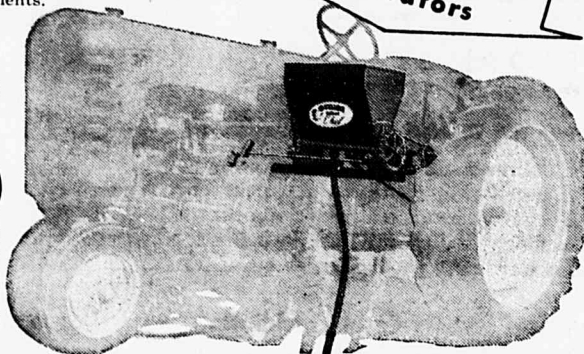


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THE WYATT MFG. CO., INC. 1903 GOLDEN ANNIVERSARY B-174 Salina, Kansas 1953

What Do Hired Men Want?

(Continued from Page 1)

their living as farm hands; also, to see what they consider important when looking for a new job, and what it takes to hold them on any one farm after they are hired. Perhaps their answers will help you hire and hold a good man when you need him.

While we talked to only a few hired men, their answers were so nearly the same we think they offer a fair cross-section of the thinking of all good farm hands in Kansas. And we want to say right here it is to their credit not one of the hired men we talked to put money at the top of the list of "most important" things he considers when looking for a job.

Won't Take a Cussing

Disposition of the farm owner was placed first by every man we questioned. Ben Eichem, who has worked on the C. N. Bressler farm, in Pottawatomie county, 10 years this August, says: "If I had to take a cussing every day, or even frequently, I couldn't be paid enough to keep me on the job. I haven't had a cross word from Mr. Bressler in the 10 years I've worked for him and that means a lot to me."

Real friendship between Mr. Bressler and Mr. Eichem is obvious. "We don't think of Ben as a hired man but as a member of the family," says Mr. Bressler. "He knows as much about our farming operations as I do, and is just as interested in their success. We get along swell."

"Getting along," is mighty important to a hired man. In order to help them "get along" with their bosses, all hired men questioned said it is important to have a thoro understanding right at the start as to just what the boss expects from the hired man, and just what the hired man can expect from the boss.

Man's Word Must Be Good

Wallace Nichols, who runs the Byers Ranch in Pottawatomie county for Ward Byers, of Kansas City, says: "I like to know the man I'm going to work for pretty well before I take the job. I expect to put in a good day's work, but I want to know I'm not going to be worked to death. I also want to know that a man's word is good and that he isn't too hotheaded."

Several hired men mentioned that the owner's "word" meant a lot. If he promised much but gave little he couldn't expect to keep a man very long.

Darwin Rogers, who has been working for Ross Price, of Jackson county, for the last 15 months, says: "The farm owner should be considerate enough to give his hired man some time off when convenient and otherwise give thought to the needs of his man. I think my boss ought to feel free to ask me to do something extra once in awhile

when there is an emergency and, in turn, he ought to be willing to give me a little time off when I need it and it is possible. That's the way Mr. Price and I do."

Erwin Wendt, of Jackson county, now employed by George Mowry, has worked out as a hired man nearly 30 years. He says: "I have seen the time when I would have taken \$25 a month less money to have a good man to work for. A good hired man realizes the owner has to make a profit on his labor, but it's just human nature to put out more work for someone you like and admire."

Most hired men, especially married ones, prefer a basic salary, plus extras, over a straight salary. James Parks, who works for Minor Stallard, in Pottawatomie county, has a wife and 2 children. He gets a salary plus a cash bonus each year, but it's the extras that make the difference.

"Last year I got 2 hogs to butcher and this year one hog and 300 frying chickens," he said. "I also get my house, light bill paid, all the milk and butter we need and a garden area. As a result our grocery bills are very low. It would take an extra good town job to give us the same things we have here."

On Salary and Bonus

Ben Eichem has a wife and 2 sons. He gets a salary and bonus—one bonus on the wheat crop and another on cattle when there is a profit. "This year cattle lost money so I didn't get that bonus but I consider the arrangement a fair one," he says. He also gets his house, eggs, milk, quarter of beef and a garden area.

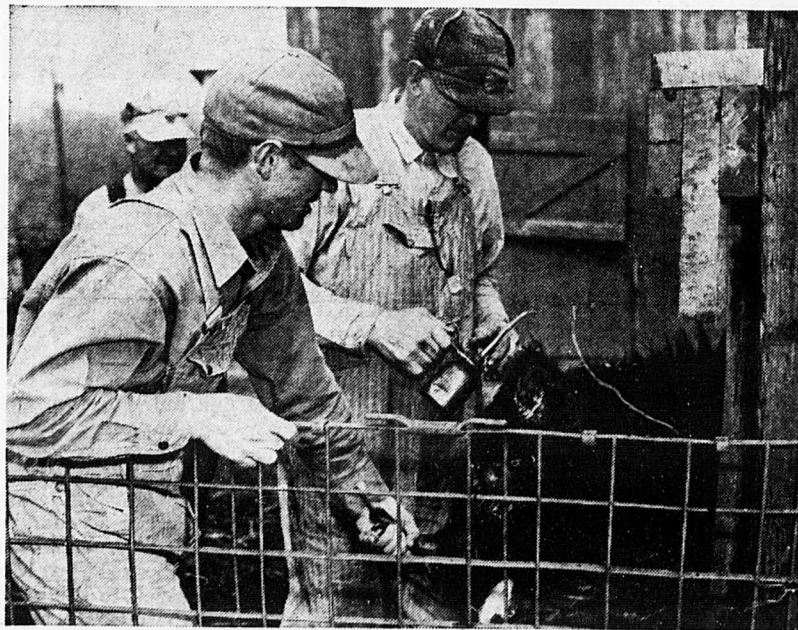
Wallace Nichols, who is married and has 3 children, gets a salary and bonus plus his house. He and his boss got together on a butcher calf, splitting the feed. Mr. Nichols buys his cow for milk but the owner supplies feed. He has a garden space and can have chickens if he provides his feed.

Darwin Rogers has a wife and one son. He is on straight salary except for his house and milk supplies. (Soon after we called on Mr. Rogers he went into a partnership with Mr. Price, the farm owner.)

Carl DeBusk, Jr., a single farm hand on the George Mowry farm, lives at home so works out on a straight salary basis. Erwin Wendt, however, has a wife and 5 children. He gets a salary plus his house, fuel, minimum electric bill, meat, garden, milk. He raises his chickens but owner helps with feed cost.

Good equipment ranks near the top in consideration when a good hired man is looking for a job. All of the men put good equipment down as very

(Continued on Page 31)

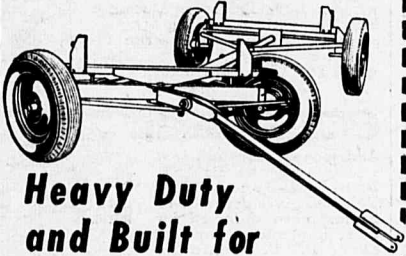


MOST IMPORTANT THING for hired man is how he gets along with his boss. Here James Parks, left, teams up with his boss, Minor Stallard, Pottawatomie county, in treating one of Stallard Milking Shorthorns for screwworms.

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essential. The hired man doesn't like to milk by hand any better than the owner. And when it comes to field work, they say, nothing is more aggravating than to try to do a job with a poor piece of equipment. And remember that poor equipment may be dangerous, too.

Finding a house that will please the wife and family is a real problem for hired men, we discovered. We were surprised to learn, however, that the house did not necessarily need to be modern. At least 3 out of 5 married men we interviewed do not live in completely modern homes. Electricity seemed to be the one convenience the family would not do without.

A Friendly Community Helps

The type of community plays a part in the hired man's decision. A friendly community is a big asset. School opportunities also are considered if the man has children of school age.

One thing we noted was that several farm owners do special things that rate high with their hired men. Mr. Bressler, for instance, carries a \$2,500 life insurance policy on Mr. Eichem, with benefits payable to Mrs. Eichem. Mr. Stallard gives his hired man, Mr. Parks, a week paid vacation each year. "I try to take my vacation at a time when the chores are not too heavy," says Mr. Parks.

At least 2 of the hired men we interviewed have worked at city jobs, so have a good comparison of requirements and benefits of farm vs. city living and work.

Darwin Rogers spent 2 years working at a plant in Wichita during World War II. "Unless you can be a foreman or head of a department you are better off with a good farm job," he says. "The city is full of advantages you can't afford." One thing Mr. Rogers pointed out was that in the city you have more time off but, with nothing to do, you find more ways to spend your money with no real values coming in from it."

"I Prefer the Farm"

Erwin Wendt did construction work for several years. "You can make good money but you have to move all the time and the cost of living is high. I much prefer the farm."

Ben Eichem pointed out that many city workers don't get to work every day. "If they are paid by the hour they lose pay when they can't work. Here on the farm we have days we can't do much work but our pay goes on."

All agreed the farm hand has to be much more versatile—a jack-of-all-trades—in most cases. Mr. Eichem, for instance, is an electrician, carpenter, plumber and mechanic in addition to his general ability with machinery and cattle.

C. N. Bressler probably put his finger on the sorest spot in the hired man problem when he said: "There's no future in being a hired man unless he can look forward to one of 2 things: either he must some day be able to own a farm or be cut in on the profits." It's something to think about.

Name Outstanding Agronomy Student

Named outstanding agronomy student at Kansas State College for 1952-53 school year is Douglass Fell, Fellsburg. His name will be engraved on a plaque that hangs in Waters Hall, agricultural building on the Manhattan campus. He was chosen for top scholarship, leadership, and activities.

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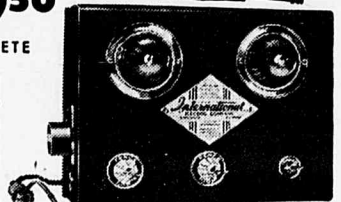
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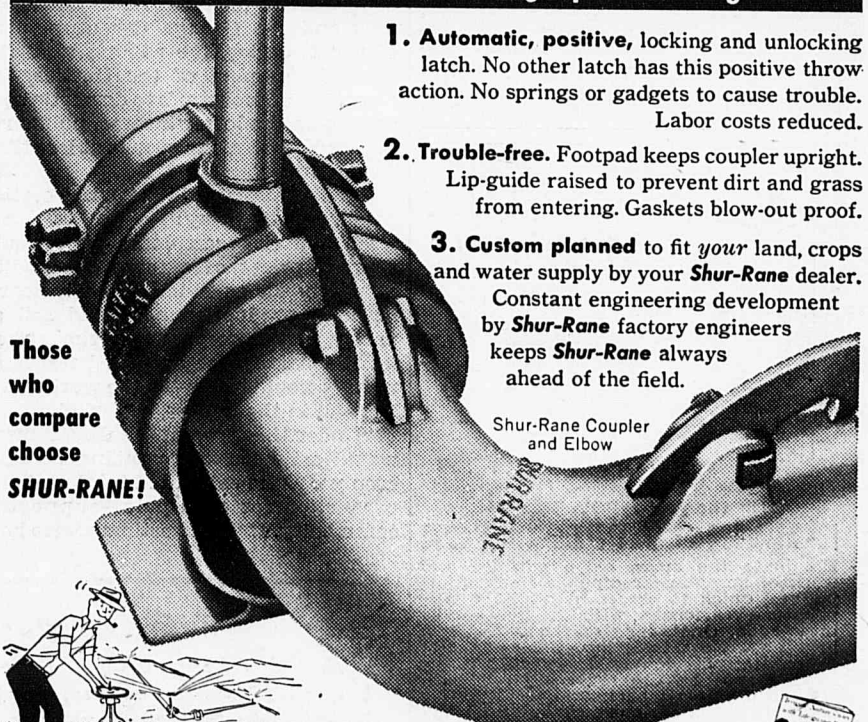
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Two-Price System Being Developed As Substitute for Price Supports

By CLIF STRATTON, Kansas Farmer's National Affairs Editor

WASHINGTON, D. C.—Executive committee of the National Grange, at its quarterly meeting here last month, may have given the tip-off on the farm organization's plan for writing new—and they hope permanent—national farm program.

"The Grange Executive Committee," it was stated from its headquarters, "reaffirmed its determination to develop a broad, over-all farm program, building from the present program, for introduction in Congress in 1954, including Congressional authorization for a permanent National Agricultural Advisory Commission to the Secretary of Agriculture."

In a general way, this seems to correspond to the thinking of President Eisenhower and of Secretary of Agriculture Ezra T. Benson. The present price support program—based on 90 per cent price supports for basic commodities and some nonbasic such as dairy products—seems to be getting out of hand. Under it, butter has "priced itself out of the market" and turned that market over to oleomargarine and other "spreads." And wheat and cotton face acreage allotments, very possibly marketing quotas, on 1954 crops. Tobacco production and marketing already are strongly controlled. Tobacco growers seem to like it.

However, tobacco is in a different position from most other commodities. In most foreign countries, government has a monopoly on tobacco sales; and thereby, foreign governments are interested. They get substantial revenues from tobacco; have a more direct interest in importing tobacco than in imports of other U. S. farm items.

Three Plans Studied

It is known that 3 general plans are seriously studied as substitutes for the rigid high price supports, but very likely going along with flexible supports at higher levels than in the present Benson thinking. These are: (1) two-price or multiple-price systems for domestic and export markets; (2) price insurance (nothing really definite developed as yet); (3) farm export expansion.

Herschel S. Newsome, Master, National Grange, and J. T. Sanders, Grange legislative counsel, presented a two-price proposal to the Senate Agriculture committee. It seems to be a combination of the McNary-Haugen bills and the Grange debenture plan of the twenties, for exports, and the food stamp plan of the thirties, for disposing of foodstuffs to domestic consumers in the lower income, public relief, and institutions groups at less than parity prices.

Sanders explained the "parity certificate" plan this way:

"The parity certificate plan would support prices of a farm commodity at parity on as much of each year's national production as would sell at parity in the domestic market. Then let the balance or surplus be sold at what it would bring—in the world market and in the domestic market.

"Under this system the Government would estimate at beginning of each crop year, the estimated total national production for each price-supported commodity. It would estimate also how

much would go to primary uses (what the market would take at parity prices). The balance of the estimated crop, the secondary portion, would go into export or surplus domestic market at what it would bring in those markets.

"Government would estimate what this free market price would be for the marketing season. Also the difference between parity price and the season (average) market price. This difference is the 'parity differential' or... the face value of the 'parity support' and the 'parity payments' certificates."

The "parity payments" certificates would go to the producer, entitling him to collect from the Treasury, thru a local bank, the value of the "payment" certificate. The "parity support" certificate would be bought in turn by each purchaser until it reached the processor or exporter. The processor would turn it into the Treasury, but would get nothing in return for that part of processed product he sold for domestic primary uses. Theory is he would charge a wholesale or retail price on this part of his product that went for primary uses in the domestic market.

No Benefit to Importers

"When some of the product moves into secondary uses," as Sanders explained the plan, "the Government would take up the parity support certificate and pay the exporter or the feed mill manager (product used for feed instead of food is in the secondary or free market class) face value of the covering (parity support) certificate. Importers would be required to buy a special certificate at full 'parity differential' price, but would get no 'parity payment certificate.' In other words, importers would not get the benefit of the parity price supports."

Sanders gave several illustrations. Here is the one on wheat. Assume it has been estimated 80 per cent of the crop will be sold for primary uses. The other 20 per cent—secondary uses—is entitled to only the price the free market will bring. Producer has 1,000 bushels to sell. Assume the open market price is \$2; the parity price is \$2.50 a bushel. The parity differential, then, is 50 cents a bushel.

Gives Illustration

The farmer takes his wheat to an elevator. He gets \$2 a bushel on all 1,000 bushels, plus parity payments certificates of 50 cents a bushel on 800 of the 1,000 bushels. The first buyer purchases from the local bank 2 certificates: supporting certificates for \$400 that go with the wheat to the processor, each succeeding purchaser buying the certificates (\$400 worth) and paying also \$2,000, the free market price of \$2 a bushel.

"If the 1,000 bushels are moved in a manner typical of the declared use," Sanders explains, "800 bushels will go finally to a flour mill where \$400 of certificates will be turned in to the Federal Treasury. But for the 200 bushels going to export (or other secondary uses) the exporter (or final sale for other secondary use) will get back \$100 from the Federal Treasury in exchange for the certificates he bought along with the wheat.

(Continued on Page 33)

EVERYTHING BUT THE SQUEAL

Agricultural scientists have perfected a process for turning cattle and hog by-products into garden hose, floor tile and refrigerator gaskets! At the USDA Philadelphia laboratory, workers have developed a method for turning inedible tallow, hog grease and vegetable oils into plasticizers—key ingredients in making vinyl plastic products. This new market makes a famous saying even more famous—everything in a pig but the squeal is used today!

There is a potential yearly market of more than 150 million pounds of inedible fats and oils. Another new market for agriculture in near future may be using cattle tallow in the tin-plating industry.

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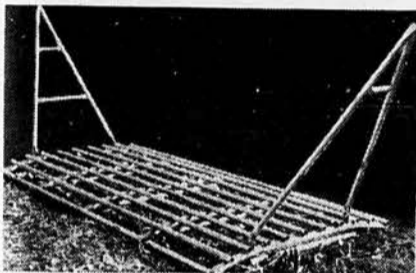


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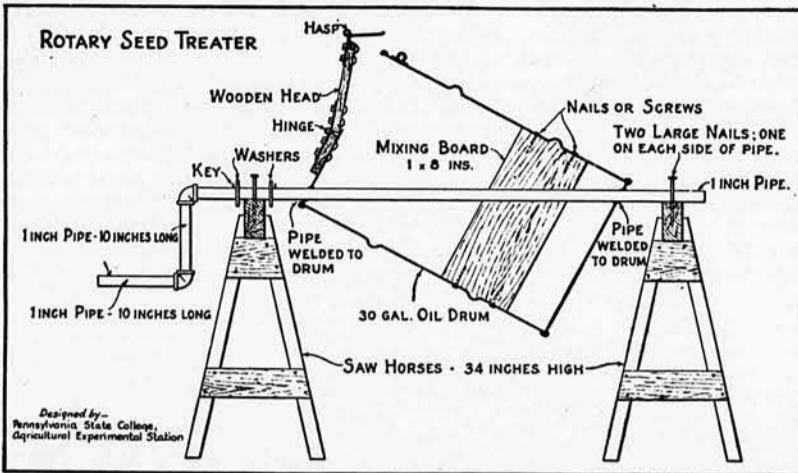


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THIS ROTARY SEED TREATER for treating sorghum, grass or other small batches of seed gives good results. For large amounts of seed an auger loader or custom equipment is suitable.

SORGHUM SEED treatment pays, even when smut is not a factor, says Claude King, Kansas State College Extension plant pathologist.

Tests conducted by Dr. E. D. Hansing, plant pathologist, show seed treatment usually increases stand 50 per cent, and treating material is much cheaper than extra seed necessary to get a proper stand. King states treating gives more dependable stands. Many farmers have told him, at farm crops meetings over the state, their experiences with treating sorghum seed. Some said it saved them from replanting when ground crusts over after a rain, gets covered too deep by rain or when cool weather follows planting.

With shortage of good sorghum seed for 1953 planting, treating seed in general over the state will enable us to make use of small amount of good seed available. If you have not been treating in the past, King cautions to reduce amount of seed used down to about two thirds, to allow for extra emergence of plants. In Doctor Hansing's tests with good seed, 50 per cent of the kernels produced seedlings when not treated and 75 per cent when treated. You can calibrate your planter for these results by knowing how thick you want the plants in the row.

Neglecting to treat seed in past 2 years has meant many reports of kernel smut, and because of this every grower should treat seed. King comments it is a great disappointment to lose \$15 or \$25 per acre due to smut when it easily could have been prevented by an expenditure of only 1 or 2 cents an acre.

Treatment materials suitable include Arasan, Ceresan M, copper carbonate, Panogen and Spargon. Directions on containers should be followed closely.

Two-price System Being Developed

(Continued from Page 32)

"The two-price movement is thus policed thru normal private trade channels without cost to the Government and without any regimentation of farmers. The plan is self-financing and will not lead to necessity of Government purchases, handling or storage, and will not require Government control of production," Sanders says.

However, for price-supported commodities where the final product went into retail trade to consumers entitled to benefit of market as against supported prices, it would require what amounts to ration cards.

To get benefit of the lower retail price, the person or institution would have to get a "food stamp"—in the case of foodstuffs—entitling him to the lower price. Such stamps would go to certain institutions, to members of lower income groups who could show the local boards they could not afford the higher prices based on parity; to those on

public relief. As in the case of the old food stamps, the retailer would turn his stamps in at the bank, and finally they would be redeemed by the Treasury—from "leavings" after the proceeds of the support certificates had taken care of the producers' payment certificates.

You'll probably hear a good deal about "two-price" systems in the coming months, while Government and farm leaders are seeking a substitute for the present price-support programs.

One of the faults, as told to the Senate Agricultural committee by Secretary Benson:

On February 28, the Commodity Credit Corporation had in inventory under the price-support program, commodities having a total value of \$1,110,667,447. Chief items involved were corn, wheat, cottonseed oil, linseed oil and butter. In addition we have under loan about 200 million bushels of corn, 400 million bushels of wheat, and 2 million bales of cotton, a substantial portion of which we can expect to acquire. The total of commodities now owned and under loan is nearly 3 billion dollars.

One result, acreage allotments and perhaps marketing quotas for wheat and cotton on the 1954 crops.

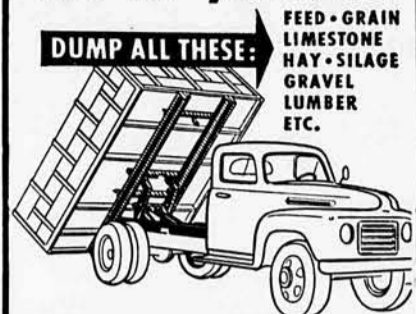
Quarter Horse Group Elects Orville Burtis

A Kansan—Orville Burtis, Manhattan—is new president of the American Quarter Horse Association. He was elected at organization's recent annual convention, at Tucson, Ariz. Mr. Burtis, prominent rancher, has been a member since the association was organized in 1943, has served on its board of directors for several years. He is a recent past president of the Kansas group.

Reappoint A. G. Pickett

Announcement is made of reappointment of A. G. Pickett, Topeka, as State Livestock Sanitary Commissioner. New term expires March 31, 1955. He has held the position since 1949.

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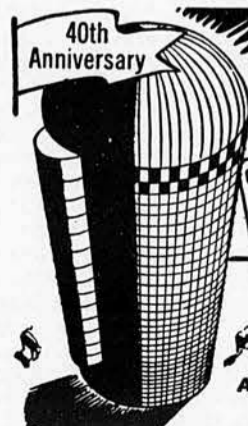
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Runoff Water Held Under Control By Grass and Concrete "Let-Downs"

TWO METHODS of controlling terrace runoff water are being used by F. F. Frederick, of Reno county. On one field terraced several years ago Mr. Frederick has an established grass waterway, which is the conventional method of handling runoff in Kansas.

But on 2 fields, one of 40 and the other of 80 acres, he had the Soil Conservation Service lay out a series of concrete let-down structures. It took 7 structures on one field and 10 on the

other. Cost of 7 structures on 40-acre field was \$2,600. Mr. Frederick believes this cost is justified from a time element as it takes about 3 years to establish a solid grass waterway, he reports.

Where concrete structures are used they are small at the top of the field and get larger as the water accumulates. The bottom of each structure is even with the top of the next structure below it, so runoff is slowed down considerably between structures.



THESE CONCRETE STRUCTURES are part of series of 7 on 40-acre wheat field on F. F. Frederick farm, to carry terrace runoff. Mr. Frederick believes structures are worth the extra cost since they allow immediate construction of terraces.

Growing Demand for Duck Meat Offers Another Chance for Profit

By MIKE BURNS

FLAVOR-FED, commercially-grown duck is quality table meat, and more Kansans are realizing it right along. Freight costs on birds shipped here from east coast are high enough we can profitably produce our own birds without worrying about competition. Duck now is most popular in Kansas as a holiday dish and during certain religious seasons. Popular education will make big increase in demand for duck.

This is the thinking of Keith Behymer, Harvey county, first commercial-scale duck breeder in state who imported Giant White Pekins 3 years ago and is developing a growing business supplying ducklings for Southwestern United States, out of shipping range of breeders further east.

Ducks are easily raised, hardy, offer dependable quality over wild game. They make excellent summer project for school-agers as they mature quickly—children can see them grow—and they are interesting to watch, Mr. Behymer says.

Watch Out for Turtles

Dry-land duck farming is quite successful. Of course, if a pond or stream is available, so much the better as the birds require a tremendous amount of drinking water. Where natural water is used, it must be free of water turtles, and young ducks must be kept out of deep water until their feathers mature enough to assure their floating (about 6 weeks). Immature feathered ducklings can get "water-logged" and sink before they realize they are in danger.

Ducks are hearty eaters too, so definite feeding management is needed to make a profit. To market meat birds, you should definitely decide on fryer (green) or baker (roasting) ducks. Fryers, like broiler chickens, are raised in confinement, are full-fed. Fryers are marketed at 10 or 11 weeks at 5 pounds. This is specialized production requiring a quality market. At least 300 birds needed for profit. Full-feeding is on broiler ration which must be without 3-nitro, now added to many broiler feeds but deadly to ducks.

Baker ducks are deferred-fed. They are summered on pasture, then full-fed

10 days before marketing at 6 or 7 months weighing 7 or 8 pounds. Pasture crops may be ladino, oats, Sudan if kept mowed or replanted, lettuce. Ducks pull up clovers other than ladino. Mr. Behymer likes quality of deferred-fed ducks, finds they are easier to make money on. Also to be remembered is that birds should be marketed when feathers are mature so they can be profitably picked. When birds start molting, neck first, they will soon lack good dressability and a duck with a lot of hard-to-pick pinfeathers soon loses its profitability at today's labor prices. Hot wax dipping or machine picking are successfully used.

This word of caution to would-be duck growers. Mr. Behymer advises that you determine your outlet for birds before going into production.

Ducklings are hatched starting about



DUCK EGGS for hatching are sold to the Keith Behymer farm by Mrs. Leonard Strodt, Sedgwick county, shown here in laying house, holding a prize drake. Hen obligingly poses on nest at left—runway built along floor all around outer wall of house. Openings are for gathering eggs. Note slat floor which keeps birds out of damp droppings, reduces disease.

May 1, on thru to fall. A square foot per duckling is needed first 6 weeks. Fryer ducks should have 3 pens: first 3 weeks on wire, 4 to 6 weeks on slats, 6 to 10 weeks on pebble-covered runs that can be washed and drained after each batch of ducks is taken off. Middle pen fed a broiler grower, last pen a finish ration.

Ducks should always have water deep enough so they can submerge beak, otherwise their breathing passages become stopped up. Waterers should be small enough that birds can't get in them, should be cleaned frequently with disinfectant. Sanitation thruout is important even tho ducks are not bothered by disease as much as other types of poultry.

Ducks should be confined away from chickens. A 2½- to 3-foot fence will hold them.

Some 300 breeder hens produce eggs for hatching by Mr. Behymer. Demand for hatching eggs is increasing. Birds are fed a layer ration with extra vitamins for production, easily come into production in week's time when fed mash. Grain is fed the rest of the time and laying immediately drops off. Birds lay 70 per cent or better when in production.

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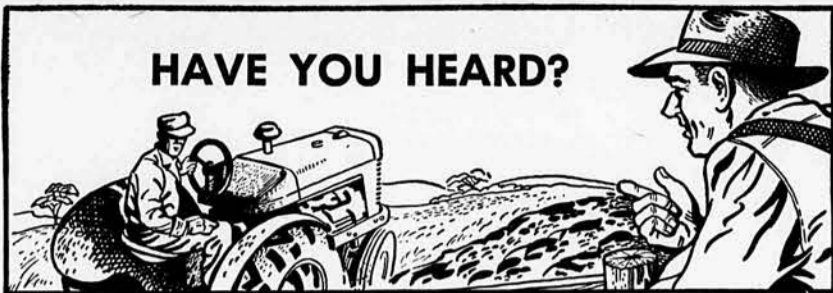
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Notes on New Products and Folks Who Make Them

GRANULAR TOXAPHENE is a free-flowing material which does not drift during application and does not cling to foliage. Has been effective against insect pests hard to control with dusts or sprays. Hercules Powder Co., Wilmington, Del.

Minneapolis-Moline Co. has developed a new, sloped end drill which can be used as press drill to follow ground contour in 1 to 5 unit hookups without interference from each other. Accurate row spacing is assured.

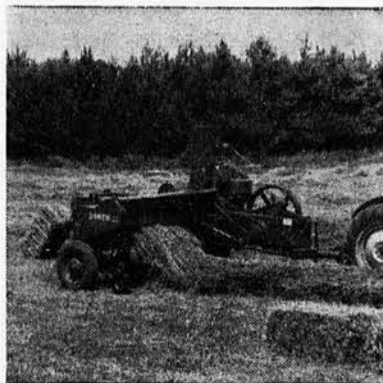
Jayhawk Hydraulic Loader has 2 new scoop control and grapple fork attachments, announces Wyatt Mfg. Co., Inc., Salina, Kan. These improvements increase number of jobs to be handled



by the loader—excavating, spreading, dumping by the scoop control and building stacks, handling bales, feeding stock by the grapple fork.

No-Knot grips a rope tightly, holds clothesline, wire, plastic rope and cable with equal ease. Can be used on truck, boat, clothesline, tent, awning. Eight grippers—4 on each disk plate—holds rope or line firmly. Rustproof, chrome plated, made of top grade steel. Mahoning's, 808 Elm., Youngstown, O.

Dearborn Hay Baler is latest addition to Dearborn line of farm equipment. Will produce 3 to 8 bales per minute and has capacity of up to 10 tons of hay per hour. Bales measure 16 by 18 inches in either 36- or 42-inch



lengths. Bale weight can be adjusted between 50 and 100 pounds. An automatic bale tension bar makes possible better packed, tightly tied, square bales, ideal for easy handling.

Two New Mobil-Disk sizes, 7 and 8-foot tandem disk harrows, are introduced by Farm Tools, Inc., Mansfield, O. Have hydraulic-controlled rubber-tired wheels.

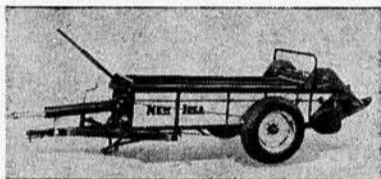
Broyhill Co., Dakota City, Nebr., has a corn planter-sprayer. There's a special attachment which saves from $\frac{1}{2}$ to $\frac{3}{8}$ amount of spray formerly used.

Easily mounted on either planter or lister and models are available for 2-row or 4-row.

Goodyear All-purpose rubber livestock trough will not tip over, break, rust or cause injury to stock. Circular trough is made of high quality rubber, can be used for container for water, salt and feed. Made in 2 sizes—for 100 pounds of feed or salt, or for 50 pounds.

Ezee Flow Corp., 10 S. LaSalle, Chicago 3, Ill., has added to its line of fertilizer spreaders and seeders, 2 new side-mounted tractor models. SM-22 and SM-34, for side-dressing 2 or 4 rows respectively, have row spacing specifications that make them adjustable to any row width desired. Guarantees exact rate of spreading fertilizer. For 2-row model, there's hopper with 500-pound capacity; 700 pounds for 4-row model.

New Idea Farm Equipment Co. announces a new power take-off manure spreader. There's long-lasting wooden box construction on steel frame; power take-off beaters, distributor and feed. Sealed wheel hubs run on tapered roller



bearings. Four-notch feed control lever can be operated from tractor seat. Framework and flared sideboards mean bigger loads and easier loading. Has rated capacity of 120 bushels.

Nitrofurazone chemical can control necro disease in swine, comments Dr. Hess & Clark, Inc., Ashland, O. Their tests demonstrated effective results in 5 tests.

A low-cost spray rig (to which you may add as necessity requires) is announced. This liquid nitrogen truck sprayer will not corrode, rust or deteriorate from chemical action. The 255-gallon tank is made of aluminum, is mounted on heavy-duty trailer with 80-inch tread to span 2 rows. Sprayer

is suitable for weed and insecticide spraying in addition to liquid nitrogen. Boom nozzles are spaced every 40 inches. There's 20-inch spacing for weeds. Power Aire Sales Co., 939 N. 24th St., Omaha, Nebr.

Hyatt Mfg. & Supply Co., Kimball, Nebr., have some literature out on 3 items—disk grinder, battery-operated fuel pump, and push-button steering device.

H. D. Hume Co., Mendota, Ill., has added the Hume Wire Winder to its line of equipment. It greatly speeds up fencing operation, rolling or unrolling up to 80 rods of plain or barbed wire in 3 to 5 minutes. Two models are available—double drive for row crop

tractors and single drive for standard tread tractors.

Flo-Rite Fertilizer will not cake or lump in storage. Gives a much better flowing quality, allowing use of older type application equipment. Flo-Rite drills and spreads evenly and accurately. Farm Bureau Service Co., of Missouri, Jefferson City.

Cast Iron Soil Pipe Institute, 1627 K St., NW, Wash 6, D. C., announce availability of their new film, "Permanent Investment." It tells how home sewage disposal system affects health, safety and comfort of family. Available without charge to clubs, schools, civic organizations. Send request to Institute headquarters at address above.

Hays Experiment Station Round-up Highlights Beef Feeding Tests

BEEF CATTLE FEEDING and breeding investigations were highlighted in progress reports at Fort Hays Branch Agricultural Experiment Station, at Hays Roundup, April 24. Reports were given on rations, values of antibiotics, silage comparisons and influence of sire on efficiency of feed utilization.

Ground alfalfa as a protein supplement consistently showed best gains in test lots in comparisons of various roughages and protein supplements for wintering steer calves. Lot 9 calves receiving 5 pounds of ground alfalfa carried more "bloom" and condition and made cheapest gains.

"Steer calves on pasture in lot 24 receiving alfalfa as protein supplement outgained those in lot 23 receiving cottonseed meal as supplement. Cost of gain for calves wintered on grass was higher than for those wintered in dry-lot on silage and same concentrate ration. Cost of gain for calves wintered on straw (lots 15 and 16) was almost 5 times cost of gain for calves wintered on silage, sorghum grain and cottonseed meal. Lots receiving sorgho silage outgained those receiving other roughages."

"There was no significant difference in winter gain due to feeding of one pound molasses on the straw. Calves receiving molasses did, however, consume 0.51 pound more straw per head daily than those not getting molasses. Molasses in the ration cheapened the gain slightly since it cost less than milo which it replaced."

In cost of feed for 100 pounds of gain, lot 9 showed best figures, with Ellis silage, Midland milo and ground alfalfa as daily ration. Highest cost for 100 pounds of gain was lot 15, with feed of wheat straw, Midland milo and cottonseed meal.

The experiments on sire influence were continuations of previous work in

testing get of sire as to feed-lot performances. "Again as in the past, calves from one sire were not consistent in their gains—calves gaining most in feed lot on a grain ration gained less on roughage rations as calves, or on grass as yearlings. Most of these gain differences were small. Gains made by lot 20 steers were somewhat below others, yet these steers were sired by a very easy-keeping bull, conforming closer to the ideal type than some of the other bulls."

Lot 19 Made Big Gains

"Steers in lot 22 which made highest daily gains on full feed and highest daily gain from birth to weaning, also were heaviest calves at birth. However, it was lot 19 which were lightest at birth that made the greatest gains as calves and on pasture as yearlings."

Lot 22 steers had this feed in placing at the top in cost of feed for 100 pounds of gains as yearlings: silage, ground milo, cottonseed meal and ground limestone. Average daily gain from birth to April 6 was 1.49 pounds. Average daily gain as yearlings for lot 22 was 3.07 pounds.

Lot 19 average pasture gain (for summer of 1952) was 240 pounds, to place first, followed by lot 15 with 238 pounds. Average gain as calves for lot 19 was 108 pounds, with second-place lot 18 showing 103 pounds.

Made More Daily Gain

In an experiment to test comparative value of antibiotics in wintering ration of steer calves, it was found "Steers receiving aureomycin made 0.18 pound more gain daily than those in the check lot for the 122-day period."

A new experiment was testing comparative values of Midland milo and Martin milo grains for fattening 2-year-old steers with sorgho silage and cottonseed meal, and Ellis silage versus other roughages.

"Steers in lot 2 fed Martin milo (recently approved for certification in Kansas) gained 0.09 pound per head less per day than those in lot 1 fed Midland milo. This difference probably was significant. Steers in lot 2 seemed to develop a dislike for their ration when grain level reached 8 pounds per head daily. As a result, it was necessary to reduce their feed. However, in the last month of the feeding period their appetites improved and they ate as much silage as steers in lot 1.

"Steers in lot 3 receiving the sweet clover-kochia silage gained 0.43 pound per head daily less than those in lot 1 receiving sorgho silage. Steers receiving western wheatgrass hay in lot 4 gained about two thirds as much as those in lot 1. Intermediate wheatgrass hay was worth a little more than prairie hay, as steers receiving this hay in lot 5 gained 0.2 pound per head daily more than those in lot 4 fed western wheatgrass hay, but gained 0.69 pound per head daily less than steers in lot 1 receiving sorgho silage."

It was reported that a high-grade roughage must be included in fattening ration if maximum gains at minimum cost are to be obtained.

No. 11 in series of farm biographies of agricultural "greats" . . .

WILLIAM N. WHITE

William Nathaniel White, distinguished American agricultural editor, was born at Stamford, Conn., November 28, 1819. After early education in schools of Walton, N. Y., he graduated with honors from Hamilton College, N. Y., in 1847.

To improve his health, he went to Georgia, became a schoolteacher there. He had his farm in Georgia, kept results of his experiments. In 1852 he began to write articles for The Horticulturist, and in 1853, for The Southern Planter. In 1856, his book, "Gardening for the South," was published, said to have worked wonders in improving Southern horticulture.

In 1856, William White was moving spirit in organizing Georgia Pomological Society, became secretary. In 1859 he became horticultural editor for The Southern Field and Fireside. In 1861 he was editor and owner of The Southern Cultivator, a monthly magazine founded in 1843. It became a leading agricultural periodical of the South, and with the largest circulation. He advocated founding of state agricultural colleges and state agricultural departments before the eyes of the public were opened to value of these institutions. He became foremost authority in the South on matters pertaining to horticulture. Results of experiments on his farm were published for public benefit. He died on July 14, 1867, after years of distributing information to people—as a teacher, researcher, writer and horticulturist.

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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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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.

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HONEY Mixed Flower \$9.90
Not Strong 60-lb. Can FOB
(Extracted) 12-lbs. Postpaid \$3.50
to 600 ml.
It must please you. — Order today.

HAHN APIARIES
1715 Lane Topeka, Kansas

OF INTEREST TO WOMEN

Two Giant size dusting and furniture polishing cloths in sanitary plastic pouch \$1.00 postpaid. 21x18 inches each. Silicone treated. Washable. The polish is right in the cloth. Use one while the other is being washed. Good Housekeeping Seal. Money refunded if not satisfied, end cash or money order. Immediate delivery. Albion Specialties Co., P. O. Box 8391, University Park Station, Denver 10, Colo.

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, Topeka, Kansas

Thrilling, Profit

WANTED TO BUY

Wanted—Puppies, all breeds; state prices, age, sex, Jerry's, Tenth and Filbert, Philadelphia, Pa.

Wanted—Old live barn pigeons, Hendricks, Rutledge, Mo.

Wanted. Fox Terrier Puppies. Box R, Stafford, Kan.

Wanted—Puppies, kittens, all breeds. Clark's, 4102 E. 15th, Kansas City, Mo.

RABBITS AND PETS

Mynah Birds—Make finest talkers. Learn quick. Herb Miller, 1911-N, Lubbock, Tex.

Giant Chinchilla Rabbits, beef type. Pedigreed. Juniors and bred does. Diamond-Chin Rabbitry, Fort Laramie, Wyo.

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Reprints size as negative 3c and oversize prints 4c. 6- or 8-exposure roll developed and printed one each 25c or two each for 35c. Three 5x7 enlargements for 50c. Four 8x10 for \$1.00. Your favorite photo copied and 10 billfold pictures 65c. **Summers Studio, Unionville, Mo.**

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Box 1068-KF Topeka, Kan.

Jumbo Prints (deckle edge)—8- to 12-exposure film, 39c per roll, developed and printed. Same-Day Service, Dean Studios, Dept. 4, Des Moines 2, Ia.

Sensationally New—16 oversize contact prints or 8 plastic bound superpak album jumbo prints with your first roll 25c. Album Studios, Weatherford, Okla.

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12 Jumbos, 25c; 16 Jumbos, 35c; from any size roll or negatives, with this ad. Skrudland 1, Lake Geneva, Wisc.

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DOGS

Gun Shy Dogs broken in 3 days. Secret revealed. Booklet only \$1.00. Ralph Armstrong, 1305 Armour, Dept. 3, Kansas City, Mo.

Service Station on U. S. Hwy. Modern Motel, resorts, Modern homes. Several good farms, Benson Real Estate, Malaca, Minn.

White Collies. Beautiful, intelligent. Farm raised. Registered males. Lane Stock Farm, Wells-ville, Mo.

HELP WANTED

Want to Learn the landscape and tree business? We need landscape, nursery, and tree men. Also a good tractor driver. Union wages, holidays, plus Blue Cross benefits. Ralph Synnestvedt & Associates, 3602 Glenview Road, Glenview, Ill.

Wanted: Cow Milker. Will hire bachelor or middle-aged couple to milk and care for 15 head of Ayrshires on modern ranch. Three rooms, light, water and milk furnished. Must enjoy dairying. R & S Ranch, Halstead, Kan.

May 16
Will Be Our Next Issue
Ads for the Classified and Livestock Section must be in our hands by
Tuesday, May 5
If your ad is late, send it in Special Delivery to 912 Kansas Ave.
Kansas Farmer, Topeka, Kan.

Reliable Advertisers Only
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Dairy CATTLE

Sponsoring Two State Consignment Sales of

100 Reg. AYRSHIRES
Iola, Kansas
May 7, 1953 and
Garden City, Kansas
May 11, 1953

DWIGHT E. HULL, Sec., El Dorado, Kan.
KANSAS AYRSHIRE BREEDERS' ASSN.
Mike Wilson, Auctioneer

WISCONSIN DAIRY CATTLE

Choice Holstein, Guernsey and Brown Swiss Calves, Yearlings and Springing Heifers. Delivered to your farm C.O.D.
Dennis R. Grosse, York, Nebr., Bx. 48, Ph. 1419

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Effective February 1, 1951

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The ad costing \$3.50 is the smallest accepted. The smallest public sale ad accepted is 1 column by 2 inches, costing \$19.60.

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

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



In the Field

MIKE WILSON

TOPEKA, KANSAS

Livestock Editor

NORTH CENTRAL KANSAS SHORTHORN BREEDERS SHOW AND SALE, at Beloit, April 16, had a somewhat lower average than the sale held last fall. Unfavorable weather conditions and a declining commercial cattle market were factors that made prices of the breeding stock lower. The offering was better as a whole than Shorthorns sold in the 1952 fall sale. Judge William Thorne, Lancaster, placed the Shorthorns the morning of the sale.

High-selling bull was champion bull, consigned by H. D. Atkinson & Son, Almena. This bull sold for \$375 to Emil Leidtke, Glasgow. High-selling female, at \$385, was 7-year-old cow with a heifer calf. She sold to Olga Irvine, Geneseo. Second high-selling female was reserve champion, which sold for \$335 to Matt Moritz, Tipton. These 2 females were from the Atkinson herd. Grand champion female was from the Leo Schmitz herd of Maryville. This 6-year-old cow sold for \$280 to Harold Ramey, Natoma. J. H. Bowser, Abilene, was paid \$325 for his bull by William Bohlen, Downs. Reserve champion consigned by Emerson S. Good, Barnard, sold for \$310. Top 10 bulls averaged \$267.50 and top 10 females \$222.25.

Bert Powell was the auctioneer, assisted by H. H. Shearer and Carson Hanson and press representatives. This was the 20th sale for the association. Edwin Hedstom, Marysville, is secretary.

THE MISSOURI GUERNSEY BREEDERS' STATE SALE, at Columbia, April 13, averaged \$340 on 76 head. Top cow, at \$800, was consigned by Repelmar Farms, Versailles, Mo., and purchased by R. O. & Phyllis Stickler, Kirksville, Mo. Top bull, at \$415, was consigned by Seco Farms, Arcadia, Mo.; buyer was George Schmitt & Son, Springfield, Mo. Five bulls averaged \$317 but they were mostly young bulls; 16 open heifers averaged \$295; 27 bred heifers averaged \$319 and 28 cows averaged \$395.

Kansas buyers were: Clarence Raymond, Fredonia, 4 head; H. H. Haney, Topeka, 2 head; W. J. Evans, Elmdale, 6 head. Seven head went to Illinois, 2 to Louisiana, 1 to Indiana and 8 head, New Mexico. Missouri buyers bought the remaining 46 head.

Auctioneers were Roy S. Johnson, Decatur, Ind.; Bert Powell, Topeka, and C. A. Brink, Olathe. H. A. Herman, secretary of the Missouri Association, Columbia, acted as sales manager.

WILBERT K. RHEA'S POLLED HEREFORD SALE, Maryville, Mo., April 11, averaged \$260 on 5 cows with calves. Most calves were just a few days old. This cow and calf group sold from \$200 to \$355; 13 bred cows averaged \$223; 15 open heifers, mostly quite young, averaged \$134 with a price range from \$120 to \$165; 9 bulls, only 2 large enough for service, averaged \$217. If these bulls had been of service age they would have sold at good figures. G. W. Baker, Holton, purchased 8 open heifers and one cow.

Iowa and Nebraska buyers made selections with 18 head going to Missouri buyers. The offering did not carry sufficient flesh to sell to best advantage. This was Mr. Rhea's first sale and it was a reduction sale. This breeder lives at Hopkins, Mo. Bert Powell, Topeka, was auctioneer with Donald Bowman, Hamilton, Mo., as sales manager.

Saturday, April 18, the **MIDWEST POLLED HEREFORD ASSOCIATION** sale at Deshler, Nebr., totaled \$23,110 on 71 lots, to average \$326. Forty-six bulls averaged \$376; 25 females, \$232. Champion bull of show was Lot 29, Chub Domino 80th, shown by Kenneth Kuhlmann, North Platte, Nebr., and sold to John M. O'Sullivan, Beaver City, Nebr., for \$800. Reserve champion bull was consigned by John Sell, Chester, Nebr., and sold for \$480 to William Zimmerman, Pickrell, Nebr. Top-selling bull in auction was consigned by Everett Matheson, Natoma, and sold to R. E. Psota, North Loup, Nebr., for \$805. Champion female was shown by Kenneth Kuhlmann, Dottie 2nd, and sold to Rudolph Hoops, Byron, Nebr. Reserve champion female was Eph Miss Larry 7th, shown by Leo Ebel, Wamego, and sold to E. F. Kilmer, Hebron, Nebr., for \$310. Col. Charles Corkle sold the offering. Fred C. Duey, Chester, Nebr., was sale manager.

THE PAUL AND GLADYS MOLZ POLLED HEREFORD SALE was held at Kiowa, April 20. Forty-seven lots brought \$14,745 to average \$314. Twenty-three bulls averaged \$416; 24 females, \$216. Top bull was Lot 5, Paul Mischief President, sold at \$1,100 to the Diamond J. Farms, Balko, Okla. Top female was Lot 26, Lady Advance President, selling to 48 Ranch, Hammon, Okla., for \$375. Vic Roth, Hays, was sale manager and Col. Freddie Chandler sold the offering, assisted by livestock men from various livestock presses.

MISSOURI POLLED SHORTHORN SALE, at Sedalia, April 6, at Missouri State Fair Grounds, had a good crowd for both show and sale. Average on 38 bulls and 19 females was \$261. Top of sale was the bull consigned by B. E. Van Sickle & Son, Hurdland. This bull sold for \$540 to T. F. Callis, Paris. Second high bull, at \$525, was grand champion bull consigned by Carl Starke, Mayview. Buyer was Emery Gould, Jamesport. Grand champion female was the high-selling female at \$420. She was consigned by E. G. Hartner, Clinton. The Hartners formerly lived in Kansas. Buyer was E. M. Kilgore, St. Louis. One bull went to J. N. Taylor, Ft. Scott. One bull went to Illinois. Rest of offering went to Missouri buyers.

DARREL HINKHOUSE, Palco, sold 60 Polled and Horned Herefords, April 7, at the sales pavilion in Plainville. The sale totaled \$14,642, to average \$244. Thirty-one bulls averaged \$247 and 29 females averaged \$241. Top bull in the auction was Lot 1, HH Beau Lad 79th and sold to Marvin Jameson, Lenora, for \$580. Top female was Lot 60, Miss Choice 718th, and sold to Walter Schepman, Holyrood, Col. Freddie Chandler sold the sale. Vic Roth, Hays, was sale manager.

On April 9, the **MID-KANSAS ABERDEEN-ANGUS ASSOCIATION** held their sale of registered cattle in Hutchinson. Seventy-one head of Angus sold for a total of \$24,075, to average \$339. Nineteen bulls averaged \$405; 52 females

EAST CENTRAL KANSAS BREEDERS

REGISTERED HOLSTEIN SALE

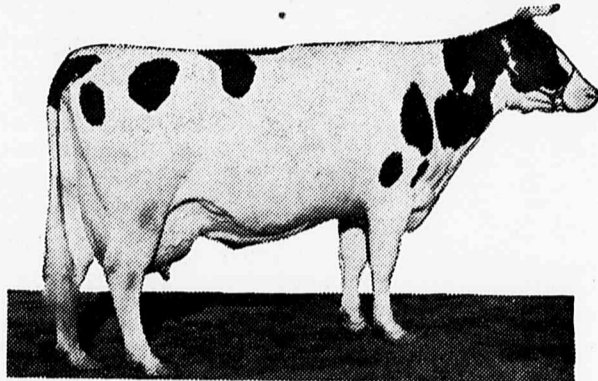
Fair Grounds

Tonganoxie, Kansas

May 20th, 1953 — 11:00 A.M.

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

75 SELECTED FEMALES — 5 HIGH RECORD BULLS



- 43 Cows with H.I.R. and D.H.I.A. records up to 650 lbs. fat on 2x.
- 14 Bred Heifers from cows with good production and proven bulls.
- 8 Open Heifers from cows with high production.
- 21 Heifer Calves, born after July 1, 1952, and selected for 4-H Club boys and girls and FFA students.
- 5 Young Bulls with very desirable production and type back of them.

CONSIGNORS

ALBERT ACKERMAN, Sabetha
CLIFFORD BECKWITH, Leavenworth
KENNETH BENEDICT, Louisburg
MERLE HOCH, Basehor
ROY HOPKINS, Clearwater
L. A. JAMESON, Linwood
ARTHUR JENSEN, Olathe
EDWARD KANNING, Lancaster
C. H. LANGDON, Edgerton
T. HOBART McVAY, Nickerson
GROVER MEYER & SON, Basehor

MOTT & KANDT, Herington
OSAWATOMIE STATE HOSPITAL, Osawatomie
C. P. REGIER, Peabody
JOHN SCHULER, Nortonville
WILBUR C. SLOAN, Cleveland
L. J. THENO, Bonner Springs
LAWRENCE THENO JR., Bonner Springs
H. H. VAN HORN, Pomona
T. A. BURGESSON & SON, Grandview, Mo.
PAUL SELKEN, Smithton, Mo.

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

THE SALE FORCE

Charles Cole, Wellington, Kan. Mike Wilson, with Kansas Farmer
Raymond Zimmerman, Leavenworth
Sale under the direction and management of sale committee.
Grover G. Meyer, Chairman, Basehor, Kan. Arthur Jensen, Olathe, Kan.
Carl Dempsey, Olathe, Kan.
Pedigrees: T. Hobart McVay, Nickerson, Kan.

Sunnyslope Jerseys EMERGENCY DISPERSAL

Horton, Kan. — Tues., May 19th, 1953

Horton Civic Center — Starting at 12:00 Noon

Due to the fact that the barns at Sunnyslope Jersey Farm have been destroyed by fire, the herd is being completely dispersed:

45 Head RICHLI BRED REGISTERED JERSEYS
20 Cows — 23 Heifers, all ages — 2 Bulls

Including daughters of Raleigh Double Designer, Sr. Superior and Silver Medal Sire; 25 daughters of Wonderful Merger, top selling bull at Ralph L. Smith Farms Dispersal, Chillicothe, Mo.; a grandson of Brampton Jester Standard & Pinnacle, tops in breeding. Wonderful Merger sells in the sale, as well as Knollwood Dandy Sultan, former herd sire at Halmark Farm. Many of the females are in calf to his service. Also selling at the same time and place is the entire herd of Wilbur Wurzbacher, Sabetha, Kan., numbering 12 head of high production and good type bloodlines.

ALL TB. AND BANG'S TESTED

For catalog of sale write IVAN N. GATES, Sale Manager, West Liberty, Ia.

THOMAS TOLLEFSON, Owner, Willis, Kansas
Auctioneer, Warren Collins, Jesup, Ia.



Among the TOP JERSEY events of the years is the

Hyer Quality Classic Sale

Saturday, May 16, 1953

Springfield, Missouri

OZARK EMPIRE FAIRGROUNDS

Sponsored by the SCHOOL OF THE OZARKS

60—Head of Top Quality Jerseys to Be Sold—60

16 head direct from the School of the Ozarks herd and the balance hand-picked from Midwest herds with "Flyers" from the Middlebrook herd in New Jersey, Pebble Hill in Kentucky, and Knolle Farm, in Texas.

You will find in this offering, Gold Medal cows, Ton o' Gold cows, Excellent and Very Good cows and the offspring from such cows.

—THREE YOUNG BULLS SELECTED FROM THE HERD AT THE SCHOOL

SPECIAL—White River Catfish Fry and Barbecue Rib Dinner

Courtesy of the Springfield Chamber of Commerce

You won't want to miss this big event; arrange now to attend by making hotel reservations at Hotel Colonial in Springfield, and in the meantime write for catalog to—

CHESTER FOLCK & SONS, Sales Managers, Springfield, O., or

JOHN FAWCETT, Manager School of Ozarks, Point Lookout, Mo.

Tom McCord, Montgomery, Ala. — AUCTIONEERS — Bert Powell, Topeka, Kan.

Hundreds of Livestock Breeders and Associations in Kansas and other states advertise in the Kansas Farmer each year. Our livestock rates are reasonable for state-wide coverage.

For information about livestock advertising write to

KANSAS FARMER, LIVESTOCK DEPARTMENT
912 Kansas Avenue Topeka, Kansas

DISPERSAL SALE

- POLLED HEREFORDS -

175 LOTS

235 HEAD

Wednesday, May 20

Sale starts at 11 A. M. at **GOLDEN WILLOW RANCH**, 12 miles east of **PITTSBURG, KAN.**, on 126 highway or 22 miles north of **JOPLIN, MO.**, on 43 highway.


**29
BULLS**
**4 Herd Sires
10 Service-age Bulls
15 Yearling Bulls**
**146
FEMALES**
**24 Open Heifers
36 Bred Heifers
60 Cows with calves
26 Cows to calve soon**

THESE BULLS SELL - ALSO THEIR GET AND SERVICE

CMR Mischief Domino 30th. He is a half brother to the World's high-selling Polled Hereford bull. His sire is CMR Rollo Domino 12. We are selling 18 females and 10 bulls sired by the "30th" and 36 females are bred to him: CMR Advance Domino 39th, an intensely bred Circle M bull; Beau Battle, a John L. Lewis bred bull; Silver D Mischief 19, a double Polled Don Carlos. Note—With everything selling this sale of registered Polled Herefords offers a wide selection. This is your opportunity to buy foundation stock or select replacement stock for your herd.

GOLDEN WILLOW RANCH

For sale catalog write

GEORGE E. HARMON
Route 1
Liberal, Missouri
Aucts.: Hamilton James and Freddie Chandler

or

GEORGE K. BRINKMAN
Box 185
Pittsburg, Kansas
Bert Powell with this Publication

SHEEP

KANSAS STATE PUREBRED RAM SALES



Kansas City Stock
Yards Sheep Pens

7th Annual Purebred

RAM SALE & SHOW

State Fair Grounds

Hutchinson, Kansas

Monday, May 11

Judging of Rams, 3 P. M.

Auction Sale, 7 P. M.

140 Purebred Rams—selected from the best flocks in Kansas. Every ram offered for sale carefully selected and approved by an inspection committee.

**Hampshires—Suffolks
Shropshires—Southdowns
Dorsets—Corriedales
Cheviots**

Write for catalogs of these 2 sales

sponsored by

**KANSAS PUREBRED SHEEP
BREEDERS' ASSOCIATION**

T. Donald Bell, Sec.-Treas.
Kansas State College, Manhattan, Kan.

HAMPSHIRE SHEEP

Two of our top yearling rams are consigned to the
State Ram Sale, May 11,
at Hutchinson, Kansas

We have a nice group of yearling rams for sale at the farm.

W. G. NICHOLSON, Great Bend, Kansas

Registered Yearling and 2-year-old SHROPSHIRE RAMS

with size \$45 to \$60. Nebraska State Fair prize winners included. Flock tested for performance.
HAROLD H. GRIEPENTROG, Monroe, Nebr.

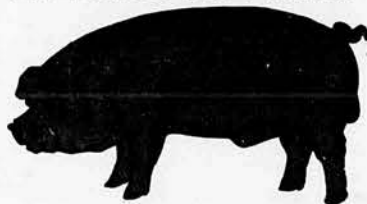
Dual-Purpose CATTLE

FOR SALE:
MILKING SHORTHORN COW
Just fresh. Three years old, red, dehorned.
MAX CRAIG, Osage City, Kansas

REGISTERED POLLED
MILKING SHORTHORN BULL
3 years old, roan, bred by Haumont. Young bulls.
McKINLEY RADCLIFFE, Hill City, Kansas

HOGS

25 DUROC FALL BOARS



This is MASTER CONSTRUCTION

These are good boars and they are sired by Master Construction, 1949 Illinois junior champion. Registered, immune, guaranteed and priced for quick sale.

WILLIS HUSTON, Americus, Kansas

For Sale: **REG. DUROC WEANLING PIGS**
Production bred. Sows and Gilts raising an average of over 9 pigs per litter. Farrowed in March. They are dandies. Write or see us for further details. Farm located 6 miles north of Manhattan on Highway 13.
G. F. GERMANN & SON, Manhattan, Kan.

DUROC FALL BOARS
Sired by a son of Distinction and by a grandson of Pioneer. Dams are by Crusader's Leader and Hillside Distinction.
LESLIE STEWART, Americus, Kansas

**POLAND CHINA
FALL BOARS AND GILTS**
Tops from 200 head. — Priced reasonable.
BAUER BROS., Gladstone, Nebraska

**Purebred Spotted Poland China
B O A R S**
Ready for service.
CARL BILLMAN, Holton, Kansas

For Sale: Two Very Choice Purebred
Spotted POLAND CHINA BOARS
Ready for Service
WARREN CONSTABLE, Havensville, Kansas

averaged \$315. Top bull, Lot 21, Prince of WRS 12th, consigned by WRS Angus Farms, Hutchinson, sold for \$1,000 to Howard Oplinger, Jewell. Top female was Lot 77, Sterling Blackbird 40th, consigned by H. F. Sankey, Sterling, and sold for \$900 to John M. Couchman & Son, Garfield. Phil Sterling, Canton, was sale manager and sale was auctioned by Col. Gene Watson, Hutchinson.

In the **REAL PLATO DOMINO SALE** held at Hays, April 6, 37 head of Polled Herefords sold for a total of \$16,710, to average \$452. Nineteen bulls averaged \$502; 18 females averaged \$398. Top bull in this auction was Lot 2, RPD Publican 5th, consigned by Brannan and Reinhardt, Timken, and sold for \$1,150 to Letch Hereford Farm, Bunker Hill. Top female was Lot 31, 4E Ambassadors 10th, consigned by Allen Engler, Topeka, and sold to Eldon Reichman, Oskosh, Nebr., for \$1,000. Vic Roth, Hays, capably managed this sale. Col. Freddie Chandler was auctioneer.

On April 10, the **MID-KANSAS SHORTHORN BREEDERS** met in Salina to sell their offering of purebred Shorthorn cattle. Eighty-three lots totaled \$24,155, to average \$291. Sixty-five bulls averaged \$290; 18 females averaged \$293. Top bull was Lot 24, The Candy Kid, consigned by Milton Nagely, Abilene, and sold for \$1,000 to J. I. Spitzer, Grigston. Top female was Lot 70, Broadhooks Maid 11th, with bull calf, consigned by William E. Thorne, Lancaster, and going for \$1,000 to A. J. Dietz, Bazine. Russell Cummings, Elizabeth, Colo., was judge of show. Mervin F. Aegerter, Seward, Nebr., was sale manager and C. D. (Pete) Swaffar, Tulsa, Okla., was auctioneer.

On April 16, the **NORTHEAST KANSAS ABERDEEN-ANGUS ASSOCIATION** held their sale at Horton, at the Civic Center Building. Sixty-seven breeders, their wives and friends attended a pre-sale banquet at the Country Club the night before the sale. The one hundred and eleven lots sold for a total of \$23,040, to average \$208. Majority of cattle were of short ages and were in pasture condition. Top bull in this auction was Lot 116, Ellenmere of Highland, consigned by C. E. Ward and E. H. Messen, Highland, and sold to Stanley Witt, Morrill, for \$825. Top female was Lot 117, Princess Lass of Highland, also from the Ward & Messen consignment and was sold for \$375 to Warren Botenberg, Holton. Wayne Ukena, Everest, was sale manager and Col. Ray Sims sold the offering.

On April 16, the **DUTTLINGER BROS. AND HOMESTEAD RANCH** held their sale of Hereford cattle at Oakley. The 117 head of Herefords sold for \$47,325, to average \$405. Fifty bulls averaged \$475; 67 females averaged \$352. Top bull was Lot 40, Baca Laddle 7th, brought \$2,650 selling to Lambert and Bolten, Arlington, Colo. Top female was Lot 50, Larry Lill 9th, and sold for \$910 to Denmen Polled Herefords, Ness City. Col. Charles Corkle sold the offering.

The name **BEN HOOK** is very familiar to all Duroc breeders in the Midwest. For many years Mr. Hook has maintained one of the top herds of Durocs in Kansas. He is constantly in search of better breeding stock to improve his own herd in order to offer higher quality breeding stock to his regular customers at all times. At the John W. Simpson sale at Edgerton, Mo., Mr. Hook purchased a son of Time Keeper, who is sired by Velvet, a son of the great \$4,000 boar. Purchase of this boar is a great addition to the Hook herd and his progeny will be passed on to Mr. Hook's customers.

Kansas Is Host to National Polled Shorthorn Event

At 13th annual National Polled Shorthorn Congress Show held at Hutchinson, April 20, it was believed strongest bull offering in Congress history. At a sale held April 21, 124 head sold for an average of \$503. The 63 bulls averaged \$567 and 61 head of females at \$438. Animals went to breeders in 18 states and Australia; Kansas breeders took many of the choice animals.

Below are chief show placings:

Grand champion bull—Alcove Better Boy, exhibited by G. W. Symonds of Victoria, Ill.

Reserved champion bull—Apsi Apoponose shown by Wayne Carr, Cincinnati, Ia.

Grand champion female—C. F. Victoria 4th shown by Cooper Farms, Nablesville, Ind.

Reserved champion female—Kintyre Red Rosie 10th exhibited by J. R. Kenner, Hebron, Nebr.

Kansas Breeders placed in the following classes:

BULLS—Calved prior to December 31, 1950. 7th—J. C. Banbury & Son, Plevna.

BULLS—Calved between February 1, 1951, and April 1, 1952. 4th—Elvin E. Britt & Son, Abilene; 6th—Clyde W. Miller & Son, Mahaska; 8th—J. C. Banbury & Son, Plevna; 11th—W. A. Rosenberger, Greensburg.

BULLS—between May 1, 1951, and June 30, 1951. 6th—C. R. Johnson, Sylvia; 8th—Wayne Hamilton & Son, Mankato.

BULLS—between October 16, 1951, and December 31, 1951. 6th—Wallace Bros., Barnard.

FEMALES—Calved prior to December 31, 1950. 1st—J. C. Banbury & Son, Plevna; 2nd—W. A. Rosenberger, Greensburg; 3rd—Elvin E. Britt & Son, Abilene.

FEMALES—Calved between Janu-

ary 1, 1951, and May 31, 1951. 1st—J. C. Banbury & Son, Plevna; 3rd—W. A. Rosenberger, Greensburg; 7th—F. M. Alford & Son, Chanute.

FEMALES—Calved between June 1, 1951, and August 31, 1951. 6th—Love & Love, Partridge; 7th—Wayne Hamilton & Son, Mankato; 8th—Alcove Farms, Victoria.

FEMALES—Calved between September 1, 1951, and October 31, 1951. 4th—Love & Love, Partridge; 6th—D. L. Snider & Son, Raymond; 9th—Roy R. Rutledge, Woodward.

FEMALES—Calved between November 1, 1951, and December 31, 1951. 2nd—Love & Love, Partridge; 8th—Roy R. Rutledge, Woodward; 9th—Calvin C. Rutledge, Woodward.

FEMALES—Calved between January 1, 1952, and February 28, 1952. 2nd—Clyde W. Miller, Mahaska; 8th—W. A. Rosenberger, Greensburg.

BEST PAIR OF FEMALES. 3rd—J. C. Banbury, Plevna; 6th—Love & Love, Partridge.

BEST BULL AND FEMALE. 12th—J. C. Banbury & Son, Plevna.

Below are the Kansas buyers at the Tuesday sale: James Ulrich, Macksville; V. E. Wilkins, Lyons; Matt Raskop, Quinter; Virgil Smith, Pratt; Paul D. Ayers, Bazaar; J. R. Clintworth, Ellis; J. M. Jeanison, Healy; Clyde Miller, Mahaska; Albert Albright, Duquoin; Love & Love, Partridge; Constantine Dietz, Ness City; L. D. Beneke, Chase; Emmanuel Kuehn, Bazine; John F. Reece, Langdon; Arthur Tonn, Haven; Clarence Shirk, Sedgwick; D. L. Snider & Son, Raymond; and Wayne Boldt, Raymond.

High selling female of the Congress sale was Kintyre Red Rosie 10th, grand champion consigned by J. R. Kenner, Hebron, Nebr., which sold to Hudson Bros., Hubbel, Nebr., for \$1,475.

Second high female was the reserve champion, CF Victoria 4th, shown by Cooper Farms, Noblesville, Ind., which went to Dr. J. D. Stoll, West Plains, Mo., for \$1,200.

A roan bull, LSF Royal Model, consigned by Lehnert Stock Farm, Gallo-way, O., set a new record bull price in the Congress.

An even \$4,000 was paid for the animal by W. M. Bottenfield, Cedar Knoll Farm, Hollidaysburg, Pa.

The second high bull price was on the bull, Challenger, consigned by Hudson Bros., Hubbel, Nebr., and taken by John Kroeck, Lexington, Mo., for \$1,725.

Another bull, Hilldale Vice Consul, consigned by W. T. Bennett, Winona, Wash., was purchased on order by Clint Tomson, representing an export farm, for D. L. Cowdrey, Daymar Quirindi, New South Wales.

Break Ground for Flying Farmers Building

Ground-breaking ceremonies were held at Wichita, April 6, for the new headquarters building of the national Flying Farmers Association. The structure, being built at the new Wichita airport, will be dedicated this September, during the organization's national convention. E. M. Anderson, Medina, Tex., rancher and president of the association, was present for the ceremony.

Sell Sorghums From CCC Bins in Kansas

All government-owned grain sorghum stored in CCC bins in Western Kansas has been sold. Last shipment of about 40,000 bushels is being sent overseas. Bins are being readied for possible use in taking over that part of 1952 wheat which is stored on farms under loan or purchase agreement. First efforts will be to place such grain in commercial storage but if this fails, CCC bins will be used.

At peak of storage operations there were about 2½ million bushels in store in Kansas. Most of this grain had a price support value per bushel of \$1.22. Grain kept in remarkably good condition and has sold at a profit to the Government.

ANNUAL SALE OF 4-H and FFA LAMBS MAY 16, 1953 at Valley View Ranch, HAVEN, KANSAS



45 Southdowns and 25 Shropshires

Most of the Southdown lambs are sired by the \$600 Kentucky ram at Valley View Ranch. The Shropshires are by the \$500 Fishburn ram. They are all from registered ewes. This is an offering of the highest quality lambs we have ever sold. There will be consignments from the Fishburn, Cooley and Worthington flocks.

For detailed information contact

VALLEY VIEW RANCH, Haven, Kansas

Harold Tonn, Owner and Auctioneer

Beef CATTLE**APPLEWOOD ANGUS-FARMS
PRODUCTION SALE
Saturday, May 9, 1953**at 1:00 P. M.
Franklin, Nebraska(near the state line)
Herd sires: Applewood—Bandolier 135 by "Bandolier of Anoka 3rd (full brother to international champion), Elba's Bandolier (1/2 brother to Black Bandolier of Den-Mor—American Futurity—Supreme Champion—1952.)**BANDOLIER BARDOLIERS**
35 open heifers; 14 bulls up to 24 months. Typy set of cattle. Good foundation kind. Blood that does good for other breeders.Herman Custer, Manager
ED POLKA, Owner, Riverton, Nebr.**NOW OFFERING
SERVICABLE AGE BULLS**

Heavy boned, well grown for farmers, ranchers or purebred breeders of Polled Herefords.

PLAIN VIEW FARMS
JESSE RIFFEL & SONS, Enterprise, Kansas**REGISTERED ANGUS**Now offering bulls 10 to 18 months.
CHESTNUT & RAILSBACK, Quinter, Kansas**1/2 Blood Charbray Bull Calf**
7 months — tops in quality — best of breeding.
Young Reg. Brahman Bulls
At Stud: Palomino Stock Horse.
Intelligent and beautiful.
BOB MCGINNESS, Lathrop, Mo., Phone 500**Polled Hereford Bulls**For Sale—A few good bulls sired by P.V.F. Advance Worth 35th. Serviceable ages.
LESTER H. KOLTERMAN, Onaga, Kan.**High Quality
POLLED HEREFORD BULLS**

OF SERVICEABLE AGES



Sired by Polled sons of C. K. Cadet bloodlines intensely Polled thru 40 years of constructive breeding.

REASONABLY PRICED

GOERNANDT BROS.

Ames, (near Concordia) Kansas

**Reg. Hereford Annual
PRODUCTION SALE
MAY 9, 1953
HORTON, KANSAS**

Civic Center Building. Sale at 1:00 P. M.

50 HEAD—20 Bulls, 30 Females

For catalog and other information write:

**WILLIAM BELDEN, Horton, Kan., or
AL J. SCHUETZ, Mercier, Kan.**
Mike Wilson for Kansas Farmer**REG. HEREFORD BULLS**

10 to 18 months old. Sired by: OJR Jupiter Star 12th. Domino Lad KTO 111th and F. Elation 22. Too range and herd bull prospects.

WAITE BROS., Winfield, Kansas**REGISTERED POLLED
HEREFORD BULLS**12 to 24 mos. old. Best of breeding. Reduced prices. 6 miles east of town.
HARTWIG HEIDEL & SON
Route 2 Junction City, Kan.**POLLED SHORTHORNS**Established — 1907
Banburys over 150 in herd. Cherry Hill—Oakwood—Coronet blood. None better. For sale: One choice young sire. Club calves, bulls and females. Some of all ages. Including the show herd. No public sale. Prices reduced. You can save \$25 to \$100.**BANBURY & SONS**Plevna, Kansas
9 miles southwest of Hutchinson, then west 14 miles on blacktop.**• AUCTIONEERS •****BERT POWELL**AUCTIONEER
LIVESTOCK AND REAL ESTATE
1529 Plaza Avenue Topeka, Kan.**HAROLD TONN**Auctioneer and
Complete
Sales Service
Write, phone or wire
Haven, Kansas**Discuss Milk
Education Program**

Milk education program for more consumption of dairy products was discussed at Shawnee county Dairy Day by George Gerber, Kansas State College dairy marketing Extension specialist. He told results of a program at Wichita, with school children, and good results obtained from a 9-year educational program.

More than 250 farmers attended the event. A dairy cattle judging contest was held and a contest for milk production judging. Several farmers showed various types of silage, and an artificial breeding demonstration was conducted.

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	\$23.00	\$24.00	\$34.75
Hogs	24.25	21.50	18.50
Lams	26.25	24.50	30.25
Hens, 4 to 5 lbs. ....	.27	.27	.22
Eggs, Standards .....	.43 1/2	.42	.32
Butterfat, No. 1 .....	.56	.56	.65
Wheat, No. 2, Hard ...	2.45	2.44	2.49 1/2
Corn, No. 2, Yellow ...	1.60 1/2	1.59 1/4	1.91
Oats, No. 2, White ...	.88	.87	.99 1/2
Barley, No. 2	1.33	1.43	1.44
Alfalfa, No. 1	—	—	35.00
Prairie, No. 1	—	—	25.00

Public Sales of Livestock**Jersey Cattle**

May 4—Kansas Jersey Consignment Sale, Hutchinson, Kan.

May 16—Hyer Quality Classic Sale, Springfield, Mo. Chester Folck & Sons, Sales Managers, Springfield, O.

May 19—Thomas Tollefson, Willis, Kan. Sale at Horton, Kan. Ivan N. Gates, Sales Manager, West Liberty, Ia.

Holstein Cattle

May 20—East Central Kansas 3rd Annual Holstein Sale, Tonganoxie, Kan. Grover Meyer, Sale Manager, Basehor, Kan.

Brown Swiss Cattle

May 2—Donald Robertson, Fowler, Ill. Norman Magnussen, Sales Manager, Lake Mills, Wis.

Aberdeen-Angus Cattle

May 2—David R. Miller, Smithville, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

May 4—Penney & James, Hamilton, Mo. J. B. McCorkle, Sales Manager, Smithville, Mo.

May 5—Marycrest Farm, Maloy, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.

May 6—Harken Farms, Osceola, Ia. J. B. McCorkle, Sales Manager, Smithville, Mo.

May 7—Pagenere Farm, Clarinda, Ia.

May 9—Ed Polka, Riverton, Nebr. Sale at Franklin, Nebr.

May 13—Fred Chilen, Miltonvale, Kan. Sale at Salina, Kan.

May 14—Cove Creek Valley Farm, E. R. Ewing, Owner, Ulrich, Mo.

May 14—Cove Creek Valley Farm, Ervin R. Ewing, Ulrich, Mo.

Hereford Cattle

May 4—Marshall County Hereford Breeders' Association, Marysville, Kan. Elmer E. Peterson, Sale Manager, Marysville, Kan.

May 9—Belden & Schuetz, Horton, Kan.

June 13—P. J. Sullivan Dispersion, Horton, Kan.

July 11—O'Bryan Polled Herefords, Hiattville, Kan.

September 7—Lee M. Smith, Claremore, Okla. Complete Hereford dispersal.

September 28—4E Ranch, Topeka, Kan.

October 1—Broken Winecup Ranch, Marion, Kan.

October 5—Beeks & Cleland, Baldwin, Kan.

September 5—Jay L. Carswell & Sons Dissolution Sale, Alton, Kan.

October 7—Brown Bros. & Streeter Funk, Fall River, Kan.

October 29—Kansas Flint Hills Association, Cottonwood Falls, Kan.

November 4—Lincoln County Hereford Association, Sylvan Grove, Kan.

November 6—Covley County Hereford Breeders' Association, Arkansas City, Kan.

November 11—W. H. Tonn & Son, Haven, Kan.

November 23—Solomon Valley Hereford Association Sale, Osborne, Kan.

December 4—South Central Hereford Association, Newton, Kan.

Ayrshire Cattle

May 7—Kansas Ayrshire Association Sale, Iola, Kan. Dwight E. Hull, Sale Manager, El Dorado, Kan.

May 11—Kansas Ayrshire Association Sale, Garden City, Kan. Dwight E. Hull, Sale Manager, El Dorado, Kan.

Guernsey Cattle

May 27—Arthur H. Penner Dispersal, Hillsboro, Kan.

June 10—H. J. Regier Dispersal of Guernsey Herd, registered and grade, Hillsboro, Kan.

Polled Hereford Cattle

May 12—L. L. Byrd, Clinton, Mo.

May 20—Golden Willow Ranch, Liberal, Mo.

September 28—4E Ranch, Topeka, Kan.

November 2—Frank Matheson, Natoma, Kan., and Jake Reich & Son, Paradise, Kan. Sale at Natoma.

November 20—Central Kansas Polled Hereford Association, Herington, Kan. O. J. Shields, Sales Manager, Lost Springs, Kan.

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 19—Shorthorn and Polled Shorthorn Sale, Cambridge, Nebr. Thos. Andrews, Sale Manager, Cambridge, Nebr.

Corriedale Sheep

July 27-28—All-American Corriedale Breeders Show and Sale, Columbia, Mo. Rollo E. Singleton, Secretary-Manager, 108 Parkhill Ave., Columbia, Mo.

Suffolk Sheep

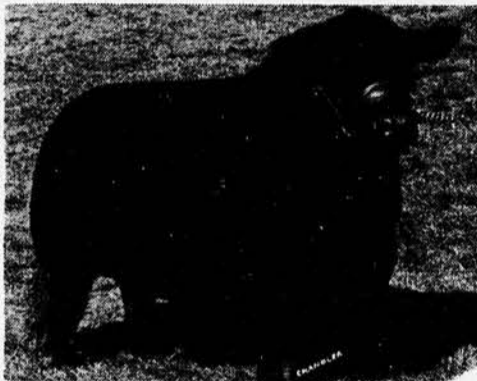
June 8—Warrick & Rock, Oskaloosa, Ia.

Sheep—All Breeds

May 11—Kansas Ram Show and Sale, Hutchinson, Kan.

May 16—Valley View Ranch 4-H and FFA Lamb Sale, Haven, Kan.

June 19-20—Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Sales Manager, care State Department of Agriculture, Jefferson City, Mo.

**CHILEN
ABERDEEN-ANGUS FARMS
PRODUCTION SALE
May 13, 1953
SALINA, KANSAS**at the
**Beverly-Wilson
Sale Pavilion****1:00 P. M.****40 HEAD SELLING****25 Yearling Bulls. Several yearling heifers, all sired by Homeplace Eileenmere 48th, a top son of the Wonder Bull Eileenmere 487th.**

This offering represents 35 years of careful selection and breeding of Angus cattle. The dams of the offering are strong in Bandolier breeding. They are selling in good breeding condition. You will not be able to buy Angus cattle anywhere with more top breeding.

For catalog and information write

FRED P. CHILEN, Miltonvale, Kansas, Owner

Roy Johnston, Auctioneer

Mike Wilson for Kansas Farmer

COVE CREEK VALLEY FARM ANGUS SALE

Sale at farm 65 miles southeast of Kansas City, Mo.; 15 miles east of Adrian, Mo., on 18 highway, or 12 miles southwest of

URICH, MISSOURI**40 Registered Angus Sell****Thursday, May 14**(Time 12:30 Noon)
FEATURING A SON OF THE BULL PICTURED HERE. He is Estamere's Bandolier 1047518, a mature bull and he sells. He is out of one of Tolan's top producing cows, the dam of Eileenmere 120th. 12 daughters and 14 of his sons sell. Several of these bulls are service age. Foundation cows that sell are bred to him and cows sell with calves at side by him. We have many of the leading families of the breed in this sale. The catalog gives information in detail.

EVA'S BANDOLIER LAD 845653

Just write to

ERVIN R. EWING, Owner, URICH, MO.

Roy Johnston, Auctioneer

Bert Powell with this publication.

**THIS IS AN INVITATION TO ATTEND THE
L. L. BYRD 2nd PRODUCTION SALE OF
POLLED HEREFORDS**

This sale of Registered Polled Herefords will be held under cover at the farm 10 miles west of

**CLINTON, MISSOURI, on
Tuesday, May 12**

TIME 1 P. M.

**SELLING 55 HEAD of Woodrow Mischief and Domestic Mischief Breeding**
17 Head of Bulls—Sired by Prince Woodrow & L L Lee's Mischief 1st.
20 Open Heifers—Sired by Prince Woodrow & L L Lee's Mischief 1st.
10 Young Cows with Calves at Side. These cows are granddaughters of Woodrow Mischief 3rd.
8 Bred Heifers

Health—All females are calftood vaccinated for Bang's disease.

WRITE FOR CATALOG TO

MR. & MRS. L. L. BYRD, Clinton, Mo.

Aucts.: C. C. McGinnis, Bert Powell and Bill Jones Mark Dempsey with this publication



From Red Tape to Black Angus!

Jim Moles used to own a dry-cleaning shop in Norfolk, Nebraska. But, as Jim puts it, "I just got tired of red tape—the restrictions and regulations on cleaning fluids and worrying about keeping my customers' clothes clean—so decided to become a farmer. With a capital of \$600 and the usual debts, I started out on a farm southeast of Norfolk."

Jim has done all right as a farmer—specializing in Black Angus. He has a herd of 110 heifers and calves and three Registered Angus Bulls. The bulls cost \$3,700. His daughter Marnette has been active in 4-H work for three years and is in charge of getting her own May steer, "Togo," ready for 4-H showing. In addition to the Angus cattle, Jim Moles also finds time to raise a lot of fine Hampshire hogs, growing the grain for his stock and making his own silage.

Above, left, Jim Moles and one of his fine Angus steers. His daughter Marnette, 11, looks on with interest for she's a proud 4-H'er. At right, Mr. Moles' special Wagon-Box and one of his Hampshires. Wagon-Box has a false end-gate so that silage or other material may be pushed out of the back end.

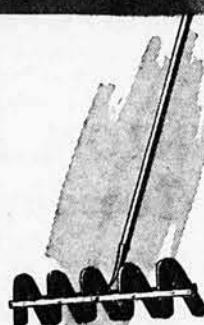
THAT CONOCO Super HELPS ENGINES Eat Less! Run Better! Live Longer!

50,000-mile road tests of grueling desert driving, with 1000-mile oil changes and proper filter service, proved that engines lubricated with CONOCO Super MOTOR OIL delivered gas mileage 99.41% as good for the last 5000 miles as for the first 5000. And—engines showed less average wear than 1/1000 of an inch on cylinders and crankshafts! PROOF that CONOCO Super MOTOR OIL, with Oil-Plating®, helps engines eat less gasoline and oil—run better—live longer!



Nail Rake

"Five old Ford magnets bolted as shown and attached to rake handle by nut or weld are very useful for picking up nails, staples and small metal pieces from driveways, lots and yards," says C. B. Birkes, Eufaula, Oklahoma. "Magnets should be placed so that ends which attract each other are adjoining."



HOT CHERRY MUFFINS

by Mrs. E. E. Shirley, Route No. 1, Sedalla, Missouri

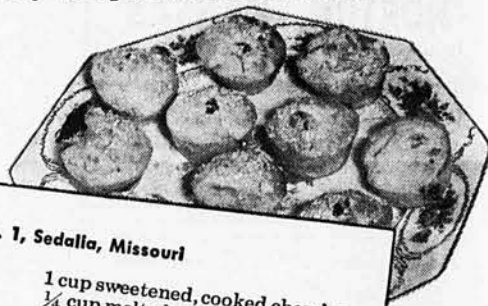
2 cups sifted flour
3 teaspoons baking powder
1 teaspoon salt

¼ cup sugar
1 egg
1 cup milk

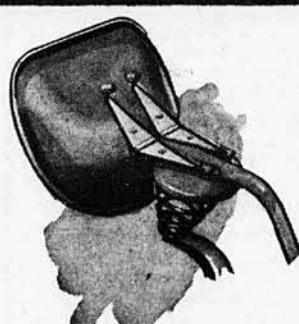
1 cup sweetened, cooked cherries
¼ cup melted shortening
pecans

Sift together flour, baking powder, salt and sugar. Beat egg; add milk, cherries and melted shortening. Add liquid to flour mixture, stirring only until flour is moistened. Fill greased muffin pans ¾ full. Sprinkle with pecans. Bake in hot oven (425 degrees) for 15 to 20 minutes.

SEND FOR RECIPES! Send your favorite recipes to Mrs. Annie Lee Wheeler, Dept. E, Conoco Cafeteria, Ponca City, Oklahoma. A \$7.50 pair of Wiss Pinking Shears awarded for every recipe published with your name. All recipes become property of Continental Oil Company.



"A tractor seat that lifts up may be made by attaching two 6" strap hinges as shown," says Dewey Dykes, R #2, Hereford, Texas. "Turns back for standing up on tractor or for protecting seat from showers."



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Conoco Gasolines	Conoco HD Oil
Conoco Kerosene	Conoco Transmission Oil
Conoco Tractor Fuel	Conoco Pressure Lubricant
Conoco Diesel Fuel	Conoco Super Motor Oil

CONTINENTAL OIL COMPANY

Send your original ideas to The Tank Truck, Dept. E, Continental Oil Company, Ponca City, Oklahoma, and get a genuine \$10.25, D-15, Henry Disston Hand Saw for every idea that's printed!