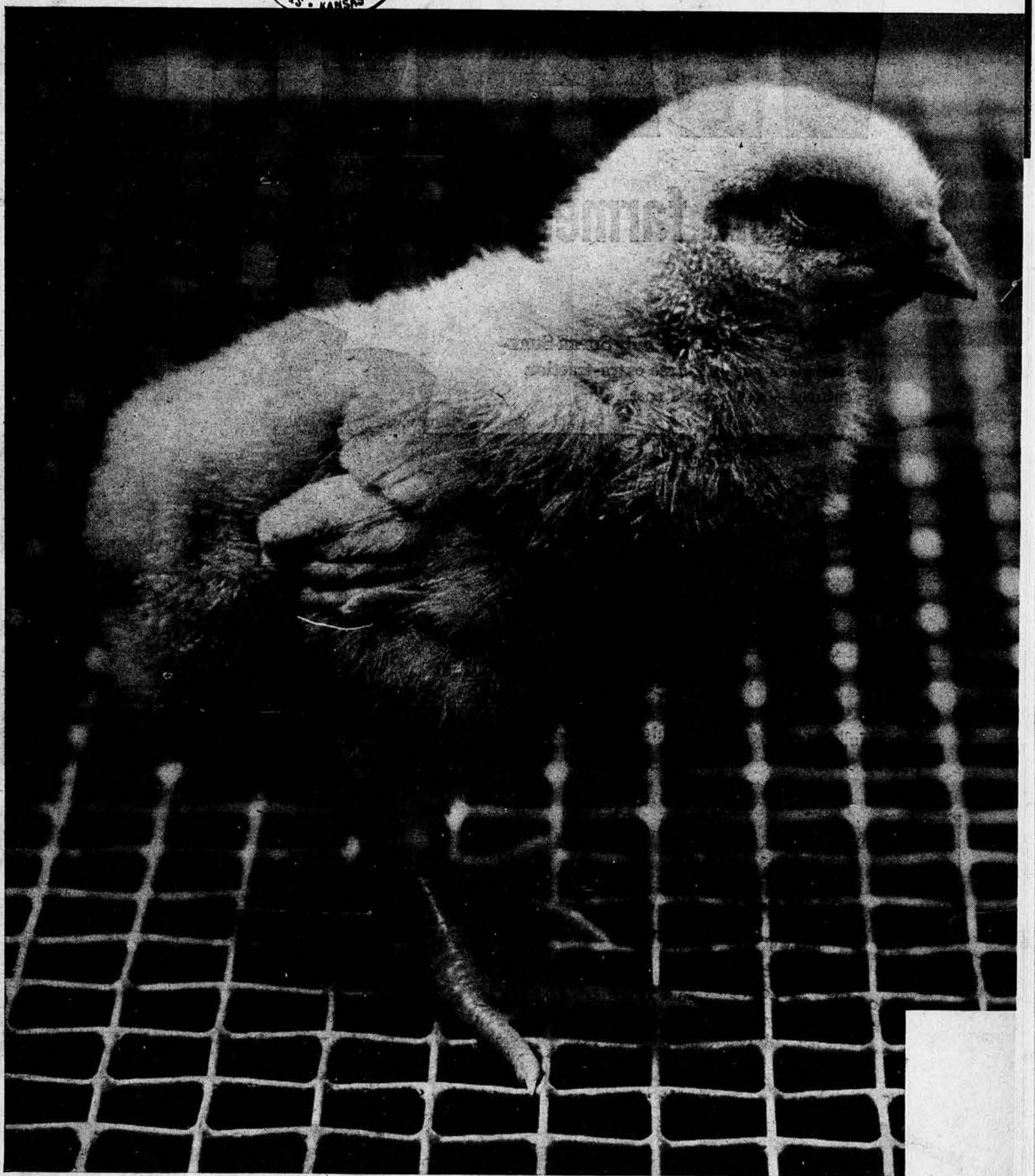


Kansas Farmer



- **Who Is to Blame?** Page 24
- **Blue Caleb the Talking Rooster** Page 36
- **A Kansas Farmer Sees Mexico** Page 38

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because only SUPER-SURE-GRIP gives you *all three* extra-traction features—at no extra cost!

WEDGE-GRIP ACTION

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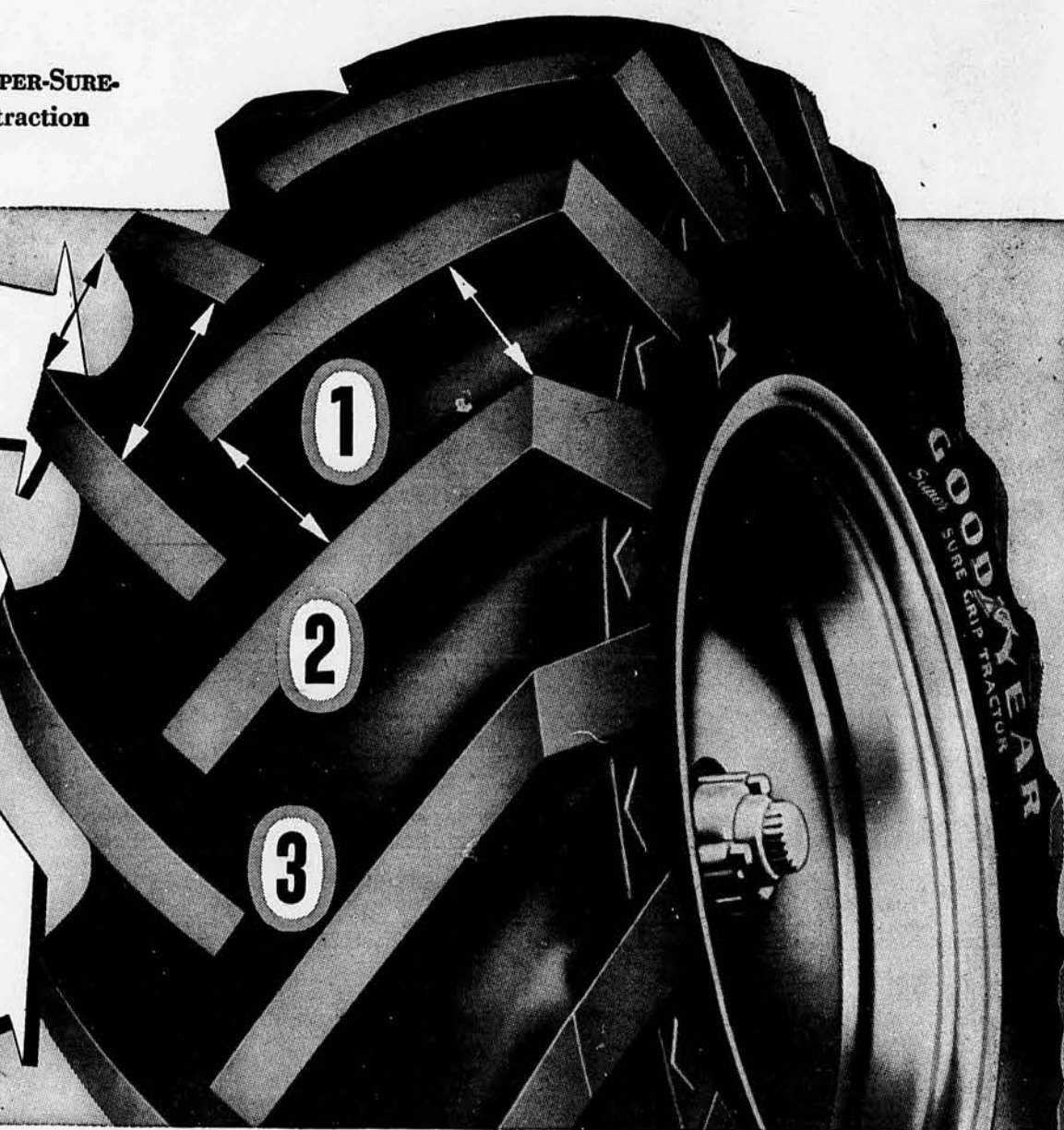
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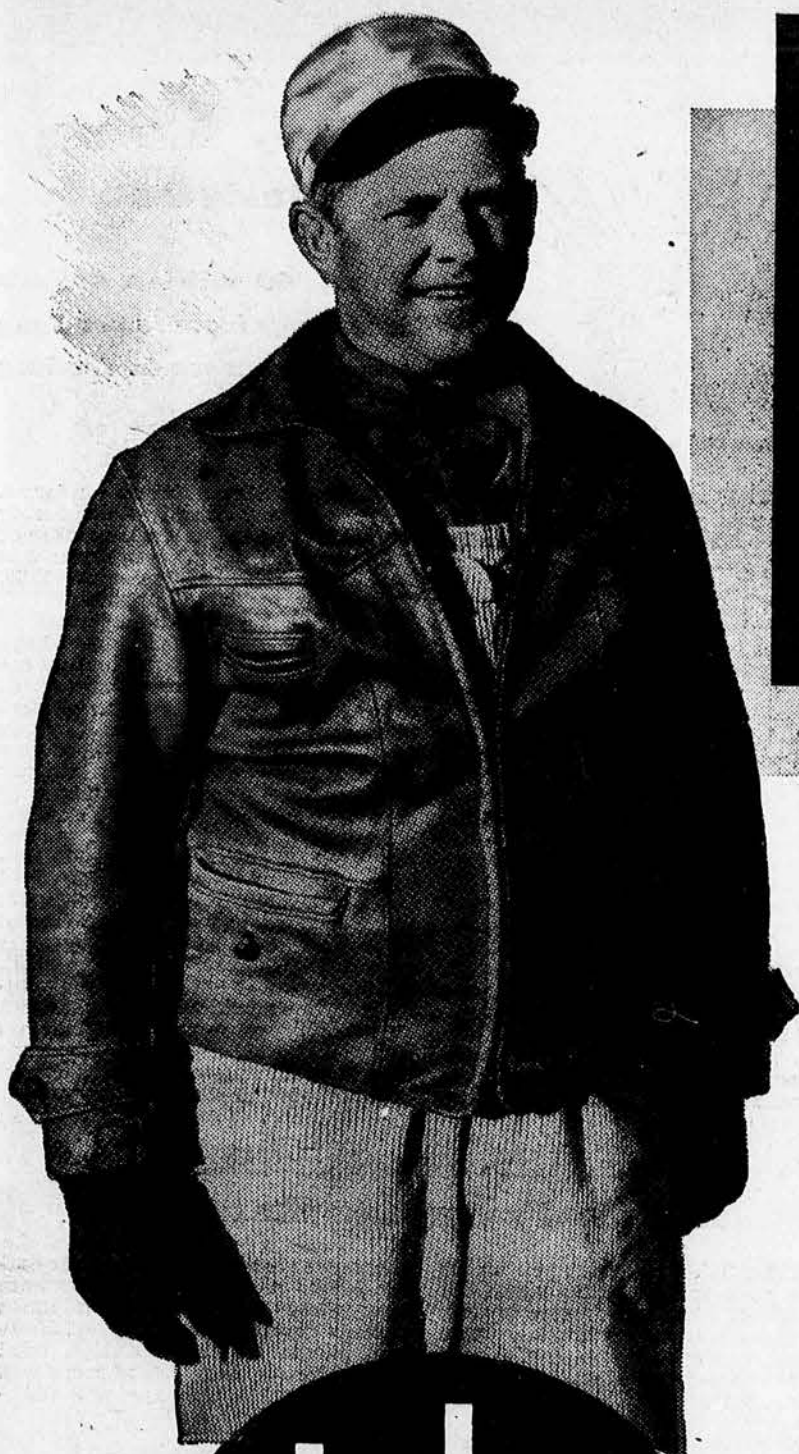


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Super-Sure-Grip Tractor Tires

We think you'll like "THE GREATEST STORY EVER TOLD"—Every Sunday—ABC Network

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



**"PIG MAMA
is the Best Sow
in any hog lot!"**

***SAYS ELTON ALLEN Soldier, Kansas—
WINNER, KANSAS SWINE PRODUCTION CONTEST***

"When the county agent got me to keep records on my pigs, two things happened," says Elton Allen of Soldier, Kans. "First, I found out how profitable it is to feed PIG MAMA. Second, I won the Kansas Swine Production Contest!"

Allen had three sows that farrowed during the first week of March. He fed Staley PIG MAMA and grain to the sows for 90 days before farrowing, and to the young pigs until weaned. He fed Staley PRO-LASS and corn to the shoats until he marketed them. Including grain, which was purchased from a local elevator, he spent \$850.03 for feed, and on August 15 he sold the 3 litters of 31 pigs for \$1,464.15 — a net profit of \$614.12.

"The thing that surprised me," says Allen, "is how little it cost to feed PIG MAMA, and what a difference it made in what I got for my hogs. I say PIG MAMA's the best sow in any hog lot!"

One Free Pig In Every Litter

Elton Allen's experience with PIG MAMA is one more proof of what tests at leading agricultural experiment stations have indicated — that, compared with good standard rations, feeding PIG MAMA to brood sows and young pigs gives you the equivalent of *one free pig* in each litter. Pigs from sows fed PIG MAMA-type rations average 7 to 12 lbs. more per pig when weaned, and pigs started on PIG MAMA average 21 to 36 lbs. heavier when marketed. That's equal to one *extra* 240 lb. hog from each litter of 8 pigs!

Controls "Sleeping" Enteritis

Scrawny, scouring, "poor-doing" pigs — these are usually suffering from "sleeping" enteritis. In experimental tests, and on thousands of farms throughout the midwest, it has definitely been proven that PIG MAMA's high-level nutrients effectively control enteritis, scours, so-called "necro" due to nutritional causes.

Feed 50-50 With Grain

Staley PIG MAMA should be fed 50-50 with grain to sows and young pigs. As a *corrective treatment* for pigs suffering from nutritional enteritis, feed PIG MAMA straight as a complete ration until scouring stops. Always call in a qualified veterinarian for diagnosis and supervision of treatment.

STALEY MILLING COMPANY
KANSAS CITY 16, MO.

**staley
FEEDS**

Pig Mama

Controls Enteritis

*Scours and So-Called Necro Due to Nutritional Causes

America's Most Famous Feed for BROOD SOWS and YOUNG PIGS

Eats Up the Acres Under Toughest Going



8000 ACRES—and still going strong! Shown above is Myron C. McGraw, Taylor, Nebraska, who says: "This is my 4th season for using my NEW IDEA Mower and I have cut approximately 8000 acres of hay—mostly native upland grass which is 5 times as tough as alfalfa. I plan to make my next mower another NEW IDEA."

that's why a **NEW IDEA** is a good idea!

Just a few minutes—that's all it takes to hitch a NEW IDEA Mower to any tractor. And that gives you what it takes to mow *any* hay field . . . smoother and easier . . . at a faster clip!

You're sure of cleaner, more even cutting on any kind of ground. This compact, whip-resistant mower trails straight and true—with full weight balanced on its own heavy but free-rolling wheels.

Cutter bar is lifted or lowered by tractor power—with just a tug of a trip rope—and fully protected against hidden obstructions by patented Automatic Safety Release.

Flexible power transmission lets you take square corners right in stride—with no time out for swingout, no cramping or binding.

Specially designed Pitman lock reduces sickle vibration. Knives stay snugly positioned against ledger plates—cut like brand-new scissors.

Speedier, surer cutting alone makes a NEW IDEA your shrewdest mower buy. But there's more, lots more! It's lighter in draft, easy to handle. It's unhitched in a jiffy to free the tractor for use with other hay tools. It's built through-out to insure thriftiest operation. Get further facts from your NEW IDEA dealer. You'll agree this NEW IDEA is a better-than-good idea!



NEW IDEA Hydraulic Lift Tractor Mower: Combines all the outstanding qualities of the standard NEW IDEA mower—plus more exact control in lifting or lowering cutter bar. Hydraulic power quickly puts sickle up or down to any desired height from ground—and holds it firmly in position.



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"Sure we're important!"

Poultry IS Big Business

- Worth 60 million dollars
- More eggs from fewer hens
- Great progress in feeding

POULTRY may not be the biggest project on your farm, but the Kansas Poultry Industry really is big business. Few people realize just how big.

Did you know, for instance, that gross income from sale of poultry meat in Kansas reached a high of 28 million dollars in 1943? Kansas farmers sold a gross of 10 million dollars worth of chickens in 1934 and 16 million dollars worth in 1949.

Egg sales bring even more. Records show that peak in gross egg income for Kansas was reached in 1947, when farmers sold eggs valued at \$64,108,000. Gross farm income from eggs has increased from 34 million dollars in 1924 to 60 million dollars in 1949.

Turkeys bring in additional farm revenue, too, and must be counted as part of the poultry revenue. Adding everything together—poultry meat, eggs and turkeys—we find Kansas farmers had a gross income from poultry of \$76,663,000 in 1949.

One nice thing about the poultry business in Kansas is farmers are getting much more income at present from

a lot less poultry numbers on farms. For instance, records show during the 1925-29 period average number of pullets and hens on Kansas farms was 20,688,000, while on January 1, 1950, the number was only 14,800,000.

But, here is what has happened. In 1940 Kansas hens produced an average of 113 eggs (figured on a monthly average basis), while in 1949 Kansas hens averaged 163 eggs. There is an increase in production per layer of 2½ dozen eggs in 9 years. Figured at 30 cents a dozen, it means each layer is bringing in an extra 75 cents in income now compared to hens of the 1940 vintage.

Actually, benefits are even greater than that. It stands to reason 15 million chickens will eat a lot less feed than 20 million. Kansas farmers are getting more eggs from fewer hens and on less feed because of improvements in breeding, feeding and management.

Right now the outlook for the poultry industry is particularly bright. With all other types of meat getting less plentiful and higher in price, consumers will be turning to poultry meat and eggs for a larger share of their diet.

New Nitrogen Fertilizer Makes Favorable Returns

ANHYDROUS ammonia applications on corn in the Salina area last summer compared favorably with ammonium nitrate applications. The new anhydrous ammonia service was made available in the state for the first time last summer by G. M. McClellan, Salina.

Applications were made at the rate of 40 pounds of available nitrogen an acre. That would be the same as an application of 120 pounds of ammonium nitrate.

Six acres of corn on the Hansen Brothers farm, Cloud county, were tested with anhydrous ammonia. It increased yield over no treatment 27.9 bushels an acre. Then 5½ acres of corn in heavy bottom ground on the W. W. Gilliam farm, Saline county, were treated in the same way. There was a yield difference of 17.7 bushels in favor of treated over non-treated corn. Both yields in this bottom ground went beyond 100 bushels.

Some wheat tests were made last year but applications were too late in spring to afford a fair comparison for anhydrous ammonia. Better wheat tests will be available this year. In addition Mr. McClellan hopes to make some tests on alfalfa to see whether protein level of the legume can be raised.

Costs of anhydrous ammonia also compare favorably with present costs of ammonium nitrate. Present dealer prices of ammonia nitrate put cost for each pound of available nitrogen slightly above 12 cents. Mr. McClellan makes anhydrous ammonia available to farmers at 10 cents a pound for available nitrogen and adds \$2 an acre for application expense.

Kansas Leads in Producing Grass Seed

Kansas is the leading state in production of buffalo grass, side-oats grama and sand lovegrass seed, according to a recent survey of the U. S. Bureau of Agricultural Economics and the Kansas State Board of Agriculture. The state also ranks high in production of bluestem, brome grass, blue grama and crested wheatgrass.

During 1950, larger acreages were harvested for bluestem, brome grass, blue grama, side-oats grama, and sand lovegrass with smaller acreages reported for buffalo grass and crested

wheatgrass compared with a year earlier. Prices received by growers were lower in 1950 than in 1949 for all kinds of seeds covered by the survey. However, due to larger production, total farm value for these 7 seed crops was \$1,040,200 in 1950, compared with \$964,000 in 1949.

Poultry Congress

The 9th World's Poultry Congress is to be held in Paris, France, August 2 to 9, 1951. This event offers unusual advantages for Americans who can attend, states the publicity committee of the Congress. There's the opportunity of taking part in a world event and sharing scientific information and benefiting from that of other countries. There's a wonderful opportunity, too, to see some of the landmarks of Europe.

Senator Capper on Radio

Every Sunday afternoon at 12:30 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

KANSAS FARMER

Continuing Mail & Breeze

121-123 West 8th St.
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Vol. 88, No. 6

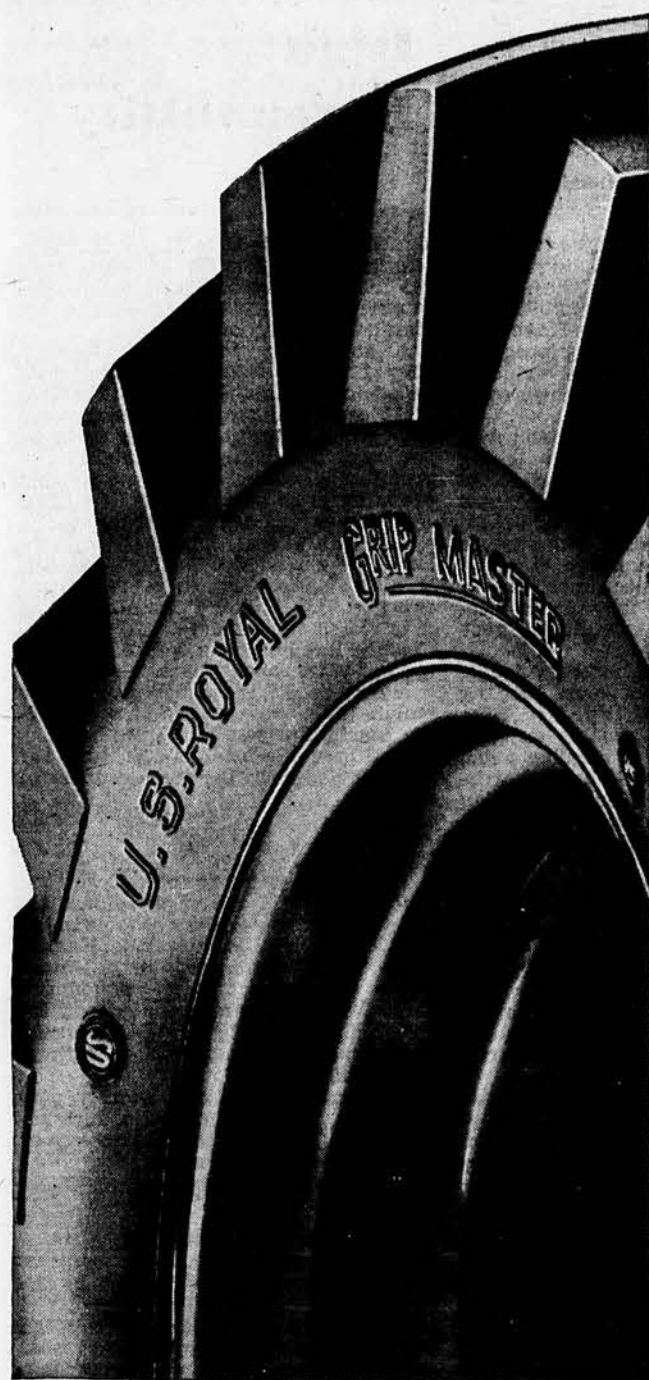
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Tractor Traction never known before!

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All over the great State of KANSAS this superb new U.S. Royal Tractor Tire leaves no doubt about its superiority. It is *outworking* and *outperforming* other tractor tires on all Kansas soils and cover crops—giving power penetration and traction never known before!



- **SHARPER** — Spearhead penetration — digs deeper—*holds tight* in soil or cover crop.
- **WIDER** — Full width bite for *complete* shoulder to shoulder power grip.
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- **TOUGHER** — High-tensile Cord Body takes more punishment.

THE GREAT NEW
U.S. ROYAL GRIP-MASTER
UNITED STATES RUBBER COMPANY



We wouldn't change a word of this!

Arizona Farmer printed an article in their issue of September 30th that tells the Aldrin story so well we're quoting from it verbatim!

(With the kind permission of Arizona Farmer editors)

* "Little aldrin Kills many Grasshoppers!"

**"Two ounces per acre
give wonderful control..."**

*Quoted from ARIZONA FARMER, Sept. 30, 1950

"Simpler, easier and cheaper grasshopper control, with sprays or dusts and without bait material of any kind, is apparently here.

"This statement is based on the remarkable success achieved with a new chemical called Aldrin, in the recent range grasshopper campaign . . .

"Two ounces of Aldrin . . . (1/2 pint Aldrin emulsifiable concentrate in a petroleum carrier) . . . sprayed from airplanes at the rate of a gallon per acre, proved astonishingly effective.

"Aldrin will be an approved hopper poison . . . because so little of it is lethal to the pests and all the bother of bait mixing is avoided." (Note: Aldrin has since received approval by agricultural agencies for grasshopper control.)

"On 40,000 acres the application rate was one gallon to the acre. The infestation varied, ran from 100 to 150 (grasshoppers) per square yard in spots specially favored by the hoppers. The average kill was 91% in 24 hours. Wherever the Aldrin got to the hoppers, they died.

"There seems to be no doubt . . . that chemistry has provided another extremely effective weapon for mankind's ancient war with the grasshopper tribe. Perhaps it is the most valuable weapon yet, and the most easily used."

Thanks, Arizona Farmer!

aldrin

SHELL CHEMICAL CORPORATION

Aldrin is manufactured by Julius Hyman & Co., and is distributed by Shell Chemical Corporation, 500 Fifth Avenue, New York 18.

Aldrin is available under the brand names of leading insecticide manufacturers. Consult your local dealer and county agent.



Nothing like a good steady diet!

Need Special Feed For High Hatchability

HIGH hatchability of eggs is an important item in breeding flocks. But it takes more than good breeding to get good hatchability. It takes good feeding, too. Hatchery people point out the feeding program has much to do with actual value of eggs they buy from parent flock owners.

There is more than one reason why hatcheries pay premiums for hatching eggs. One reason, of course, is the background of the chickens. They may be a particular strain of a particular breed; probably expensive birds. But another reason they pay premiums is for a certain amount of assurance that a large number of eggs they buy will become chicks. Also, assurance these chicks will live.

We talked to several hatchery people about relationship between feeding programs and hatchability. Mrs. Elva Tindell, Burlingame, reports most of her flock owners feed a breeding mash during hatching season. Should hatchability go down in any flocks providing her hatchery with eggs, they make a quick examination of the feeding program on the farm.

John DeForrest, Peabody, prepares a special mash for his breeding flocks. He reports about half of his flock owners use this special feed. Most of the others use a good commercial breeding mash. It is an important item, Mr. DeForrest points out. If hatchability goes down on a breeding flock you can just about tell there is something wrong with the feeding program.

J. O. Coombs and Son, Sedgwick, attack the problem in a different way. They set out a specific feeding program for flock owners. This program is designed to provide 16 to 17 per cent protein in the ration. In addition, they recommend a commercial mash containing known nutrients needed for high hatchability of eggs.

As an incentive toward good feeding, they have a sliding premium scale based on hatchability of eggs. It starts at 10 cents a dozen above current receipt price for eggs hatching up to 64 per cent. For better hatchability the premium is increased. Highest possible premium is 25 cents a dozen for eggs with 92 per cent or better hatchability.

A premium scale like that throws a lot of weight on the feeding program. It also requires considerable clerical expense. But Eustace Coombs figures it is worth the expense. Anyway, the Coombs hatchery has worked on that type of scale for 20 years.

A good breeding mash may not make pullets lay more eggs than a good laying mash. But hatchery people know a good breeding mash is assurance for more chicks from the same number of eggs.

Good Vet School

The veterinary school at Kansas State College is one of the oldest accredited state veterinary schools in the United States. Recently, the Kansas State School was one of 10 in the United States to be re-accredited, announced E. E. Leasure, dean of the school. Inspection was done by Dr. W. A. Hagan, of Ithaca, N. Y., and Dr. W. A. Aitken, of Merrill, Ia.

Accrediting is based on faculty, personnel, student-faculty ratio, instruction space, and number and quality of instruments for instruction.

A Typical 4-H Winner

BLOND, blue-eyed Margaret Mary Litz, 15, daughter of Mr. and Mrs. Conrad R. Litz, of Ruleton, is a very active 4-H girl. Under auspices of her big brother she joined the Sherman Leaders as an associate member. As he left for the service shortly after, she promised to carry thru. Margaret Mary decided to be an all-project girl and with help of her leader, Mrs. Floyd Kemp, she set to work sewing and baking; raising chickens, ducks, guineas, wheat and corn, and included home decorating. All of these projects were taken in her stride. Two years ago she started on a calf project.

This past year, having a black Angus steer named "Black Heller," she decided to take him to Denver National

Stock Show after placing 1st in the lightweight division. He entered the same class there and placed 4th in the Junior Division. Margaret Mary said she learned a lot there in showmanship and her ambition now is to have a winner at some show. When very new in 4-H work her mother noticed she won a blue ribbon on her tea towel at the county fair and remarked excitedly, "Margaret you won a blue ribbon." Very dignified, very sober she replied, "I expected to mother, because I worked very hard."

We hope this ambition carries her thru to many more honors. At present she is enrolled as a sophomore in St. Scholastica Academy at Canon City, Colo.



Margaret Mary Litz, of Ruleton, and the Angus she showed to a high placing at Denver. She is ambitiously carrying half a dozen 4-H projects.

"See the complete FARMHAND line now ready for demonstration by your FARMHAND DEALER"

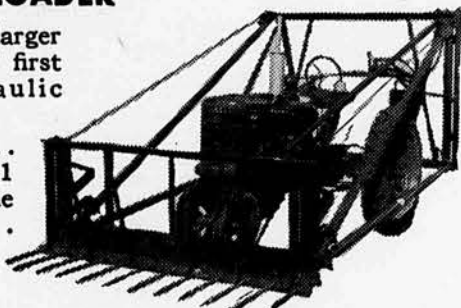
SEE 'EM ALL IN ACTION! The most modern materials handling machines—for any heavy lifting, loading, or moving jobs on the farm!



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For 2-3 plow and larger tractors. Farmers' first choice in hydraulic loaders.

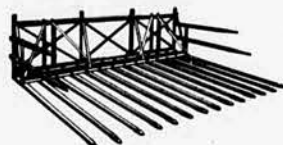
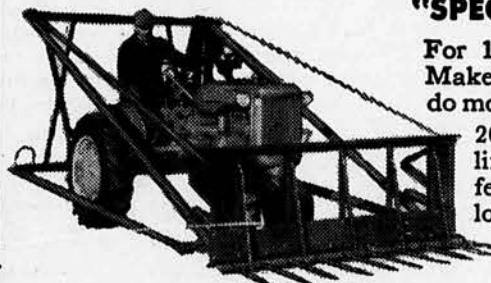
3000-lb. capacity... lifts the full load 21 feet in the air. One hand control... automatic self-leveling.



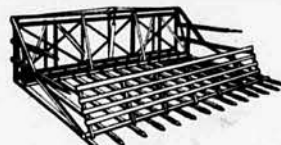
"SPECIAL" LOADER

For 1-2 plow tractors. Makes smaller tractors do more and bigger jobs.

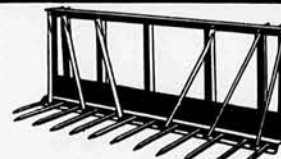
2000-lb. capacity... lifts any load 17 feet in the air. A lower cost version of the Heavy Duty Loader.



HAY BASKET Big 9x12' basket handles loose or baled hay easily.



PUSH-OFF Builds stacks 27' high! Separate hydraulic control.



MANURE FORK Full width of loader. Slip-on gravel plate optional.



FORAGE FORK For lifting and hauling anything from straw butts to logs.



DETACHABLE SCOOP 33-bu. capacity. Slips on manure fork. Handles bulk materials.



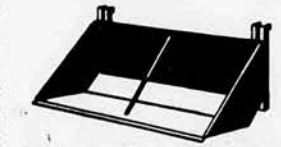
GRAPPLE FORK Grabs 1/2-ton "handfuls." Eliminates pitchfork from haying.



BULLDOZER BLADE Takes the backbreak out of farm maintenance.

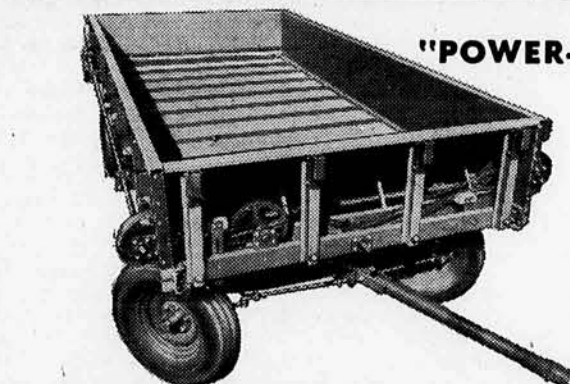


V-PLOW 8-ft. width, adjustable height makes road clearing easy.

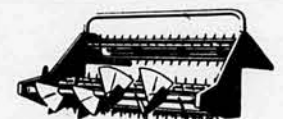


ALL-PURPOSE SCOOP Water-tight, one-piece construction. For bulk materials from grain to snow.

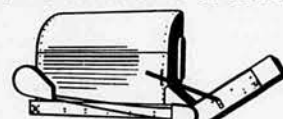
"POWER-BOX"



All-purpose, self-unloading box with Manure Spreader, Mixer-Feeder Attachments. Takeoff-powered worm gear drive, roller chain conveyor empty 6-ton loads quickly.



SPREADER Wide 12-ft. spread, controlled concentration. Sealed, self-aligning ball bearings used throughout.



MIXER-FEEDER One man mixes, feeds up to 6 tons in 2 minutes.



LARGE MODEL
—load test
14,000 lbs.



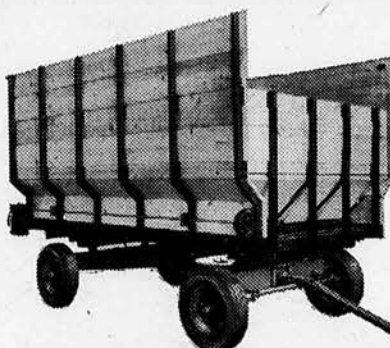
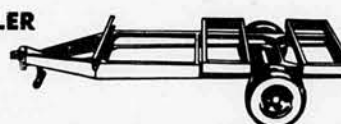
SMALL MODEL
—load test
8000 lbs.

"90" WAGONS

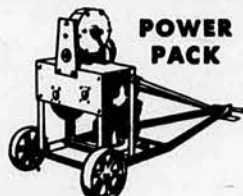
Automotive steering gear, 72" tread permit 90° turns with complete stability. Straddles 2 corn rows. "Quick-Hitch" tongue gives safe, sure hook-up.

SINGLE AXLE TRAILER

Brute-strong. Engineered to put least weight on drawbar. Load test 14,000 lbs.



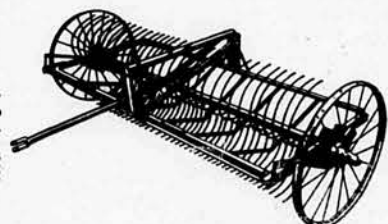
Handles the harvest from field to finish. Hauls grain, silage, chopped hay—all bulk materials. Powered by takeoff or speed jack. Full roller chain conveyor.



Portable. Worm gear transmission.

3-LEVEL FORAGE UNIT

DUMP RAKE
Engineered for rugged power farming. Rakes swaths from two 7-ft. mowers into 54" windrows or bunches. Works with any power unit at speeds up to 15 mph.



RAKE TEETH

Farmhand branded. Straight grain Douglas fir, vernox seal-treated.

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MAIL COUPON to Dept. 301, Farmhand Division,
Superior Separator Company, Hopkins, Minn.

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Name of implement

NAME _____

ADDRESS _____

TOWN _____ STATE _____

Farmhand

**MATERIALS HANDLING EQUIPMENT
FOR THE FARM**

Made by the SUPERIOR SEPARATOR COMPANY, Hopkins, Minnesota
Farm Machinery Specialists

If you wish to check up
on yourself, here is .



What Successful Poultrymen Do

By Dick Mann and Ed Rupp

IF YOU don't already have those baby chicks you soon will. Your success depends on how well you take care of them. To help you do the best job possible, here are some ideas picked up from interviews with successful Kansas poultrymen.

John R. Bengtson, of Robinson, likes early chicks—late January or early February. "I have more time to take care of them then," he says. "I also find I have fewer chick deaths and fewer pullet losses later when I grow early

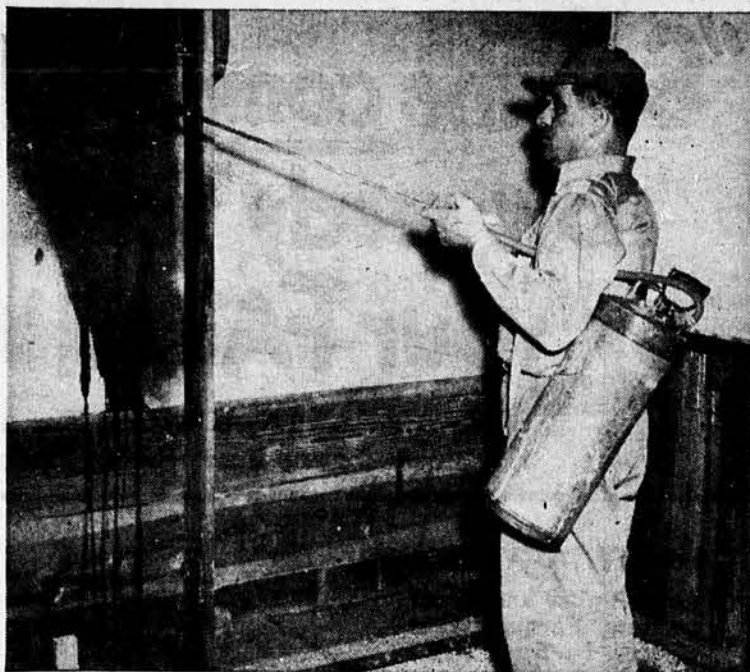
chicks, as they definitely seem more rugged. Of course, they come into heavy production during fall, when prices are highest, which makes them more profitable." Another point Mr. Bengtson lists in favor of early chicks—it is easier to keep the brooder house at an even temperature in cold weather than in spring. "There is less disease trouble, too," he adds.

Here are some management practices Mr. Bengtson finds most profitable. He moves brooder houses every year—2 years in the same

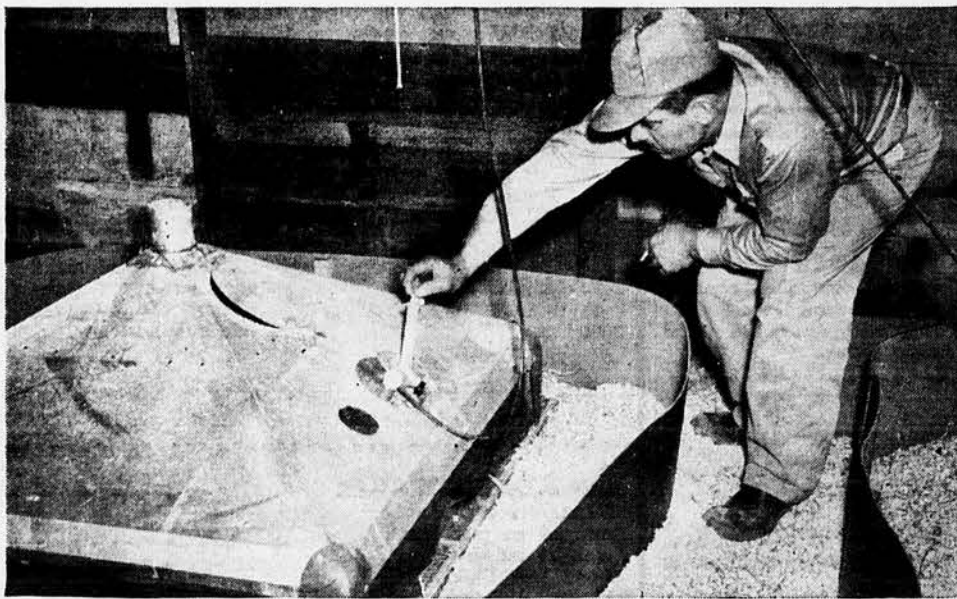
lot, then to a new lot. Chicks have free run of sun porches when 2 weeks old. Light is used in brooder at night to keep chicks from becoming panicky during storms. Lots of skim milk is fed to chicks and layers. An increased amount of oats is fed during summer to keep pullets from coming into production too soon.

Some poultrymen we talked to do not agree with Mr. Bengtson on value of early chicks. "We think they are more likely to go into a molt during laying season," these folks say. We took this question up with M. A. Seaton, Kansas State College Extension poultry specialist. He says: "Molt has no relation to whether chicks are early or late. Molt can be caused by neglect, change of feed, sudden change in weather, or perhaps from crowding or forcing pullets into production too early. Feeding and management are more important than date chicks are purchased." Mr. Seaton, however, believes there is more profit in early chicks.

Both Mr. Bengtson and Chester Wenger, of near Whiting, say letting chicks get too warm is the worst thing that can happen from a management standpoint [Continued on Page 40]



SPRAYING WALLS of brooder with disinfectant, Val Zeigler, St. George, safeguards against disease and parasites. He sprays far enough ahead so walls will be dry before chicks arrive.



ELECTRIC BROODERS are kept running by Mr. Zeigler 2 days before chicks arrive to make sure they are operating perfectly. Overheating or chilling chicks can be expensive.



EVEN IN cold weather chicks will use a sun porch and benefit from it. Here Mr. and Mrs. Chester Wenger, Whiting, watch chicks enjoying a February outing.

EARLY CHICKS have less disease and are more profitable, says John R. Bengtson, Robinson, shown here with some of his early chicks. "I have more time to take care of them in February than later," he says.

Farm Matters

AS I SEE THEM

DEALING with prices and income statistics can be tricky, but you may be interested in opinions of some leading business analysts on agricultural and general business conditions.

In the current issue of Alexander Hamilton Institute on business conditions, I find this comment:

"With prospect of a substantial rise in the farmer's income in 1951, there seems to be a good possibility the 3-year downward trend in their purchasing power is facing reversal."

Final returns for 1950, by the way, showed American farmers received \$27,921,000,000 from marketings, or somewhat less than the \$28,127,000,000 in 1949. This decrease was nearly offset by a rise in government benefit payments from \$185,000,000 in 1949 to \$247,000,000 in 1950. Including benefit payments, farmers' total cash income last year was \$28,188,000,000 or almost as large as their preceding year's (cash) income of \$28,312,000,000.

But for the upsurge of prices—following Korea, the announcement of the huge military and rearmament program, and the promise of price controls—farm income probably would have dropped 10 to 15 per cent in 1950 under 1949.

Moreover, as the Institute bulletin puts it: "In 1950, however, the farmers had to pay higher prices than in 1949 for the goods they bought. . . . The decline in their purchasing power was greater than in their income."

From the Guaranty Survey (published monthly by the Guaranty Trust Company of New York) we cull this:

"Reports now becoming available for the closing months of 1950 give further evidence of the stimulating influences and the inflationary forces that were present during that period, even tho the rearmament program was still mostly in the blueprint stage. The combination of increased volume and higher prices is estimated to have raised the annual rate of gross national product by the end of the year to the all-time record of \$300 billion, which is \$46 billion above the rate for the fourth quarter of 1949. The product total for 1950 is placed at \$280 billion, as against \$256 billion in the preceding year."

Sounds like dollar prosperity, doesn't it? But part of the increase in national productivity—and in prices—was due to manufacturers', dealers' and consumers'—rush to get in ahead of the Administration program calling for spending one fifth or more of the national income this year for war purposes.

Guaranty Survey also notes the increase in gross national product just mentioned was accompanied by a rise in national income from \$217 billion in 1949 to \$236 billion in 1950, and a gain in personal income from \$206 billion to \$223 billion. President Truman wants to collect \$71.6 billion of the \$236 billion national income in taxes this year.

More from Guaranty—

"Manufacturing earnings were 15 per cent larger than in 1949, and gains of more than 10 per cent were reported in mining, contract construction, communication, and public utilities.

"Workers' earning totaled \$152 billion, or \$11.5 billion more than in the preceding year.

"Agriculture was the only major industry that did NOT register an advance in income."

Reading the metropolitan press and listening to radio commentators, one would gather, nevertheless, that farmers were the great "profiters" of 1950. The figures do not seem to indicate this is the case.

Here are some of the more pressing problems ahead for farmers this year: manpower situation is getting bad . . . higher wages will have to be paid farm labor . . . a shortage of fertilizer and bug sprays is in prospect . . . fewer new farm machines and replacements.

I receive many inquiries as to drafting farm boys. The present draft law does not grant special deferment for farm boys. It is up to the local boards to grant deferment if a boy is essential.

Selective Service, I am informed, is trying to stop this wholesale riddling of farm essential help.

County USDA mobilization committees are expected to assist in this job; directed to keep local draft boards informed on the essentiality of boys in their areas.

Might be a good idea, if you have an essential man, 19 to 26, who is facing draft, to get in touch with your PMA county chairman—he also is chairman of the USDA mobilization committee. His recommendations are supposed to carry weight with the local draft boards.

How Strong Is Agriculture?

I WAS asked the other day that question you have heard so often: "Isn't the world in the worst mess today of all times?" Probably that same question has been asked in every generation. In history you read about crisis after crisis, virtually all brought on by wars. Are we in more peril today as a nation than ever before? I think that is what the question really asks. Frankly, I believe we are. For many reasons, reaching all the way from the individual who fails in his job, to outright incompetence in government. As to the final outcome, I have every confidence the American people will come thru victorious—provided we buckle down and do the job ahead, honestly, unselfishly.

In times like these we check up on our most dependable resources, measure our strong points to see whether they will stand up under the strain.

One source of strength is our agriculture which backs up our men at the front with abundant production. How strong is agriculture? How efficient is it? Let me draw a comparison between farming and industry.

We all have heard the praises of factory efficiency and production sung to the skies. All well deserved. The factory production line might

well be considered a symbol of American efficiency. It has no peer anyplace else in the world.

Now I have before me the results of a survey made by the Department of Agriculture comparing farming with industry. Let me quote from them: "Year

by year for 3 decades, output from an hour of work of both groups (industry and agriculture) has increased as the result of more and better laborsaving machines, other capital investments and improved know-how of workers. The increase in agriculture lagged behind industry from 1919 to the late 1930's, but agriculture has kept pace with industry since about 1933. . . . Productivity of agricultural labor would have risen more if demand for farm products had been higher. The potentialities were there, but it took the upward surge of wartime demand to realize them."

Now I would like to ask one more question, and answer it from this same survey. How important will agriculture be in the future, will there be further advancement? The report states: "Continued advance in the productivity of farm labor will depend, partly at least, on the ability of industry to provide machines, gasoline, and other materials and supplies to farmers at a reasonable cost." And here is the other side of the picture: "Increasing productivity of industrial labor likewise depends on the availability at reasonable rates of agricultural raw materials for factories and of food for industrial workers. Because of this interdependence, the productivity of farm and industrial workers must move upward together to provide for a continued general rise in the level of living."

I think that is the true picture. Agriculture and industry are so dependent on each other, one cannot continue to make progress unless the other makes equal forward strides. Because of free play of individual initiative under our free system of competitive enterprise, we have made the progress apparent today; we have developed a stability that can meet the problems ahead. And under this same free system the American people have attained the highest standard of living in the world. It is worth working for and fighting to protect.

You have been reading during the last few months, a series of articles in *Kansas Farmer*, reviewing farming progress of the last 50 years and looking into the future. Every field of agriculture has been explored in these articles by authorities at Kansas State College. Without exception we have seen steady progress in Kansas agriculture. Without exception every farm department has added to our standard of living, was found steadfast in times of greatest emergency. I am heartily proud of Kansas agriculture and the farm families who man it. I know you can be counted on during 1951 to shoulder added responsibilities and burdens with the same loyalty you have always exhibited.

Arthur Capper

Topeka.

Giving Away Your Weeks, Months of Labor?

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

TO GET away from the in-and-out, down-side-up, up-side-down, off-again, on-again, but not gone again—of Mike DiSalle's Office of Price Stabilization, and to get a perspective on what Washington's didoes mean to you and me, a recent statement from Fred H. Sexauer is worth attention.

Mr. Sexauer is a member of the executive committee of the National Farmer Cooperatives and a trustee of the Committee for Constitutional Government. His "A Farmer Looks at Taxes" is distributed by that committee, offices at 205 East 42nd St., New York 17, N. Y.

Here are some excerpts from Mr. Sexauer:

"Politicians and some economists deal in so much double talk about taxes we of the soil sometimes become a bit confused. Items of 5, 10, 20, 50 and 70 billion dollars roll off the tongues of the bureaucrats like water out of the end of a hose. Talk of billions is so common today the words million and billion are

often confused. Probably this is because neither a million nor a billion can be understood by most of us.

"To some of us taxes mean days and hours of work. On that basis, how much is a billion dollars?

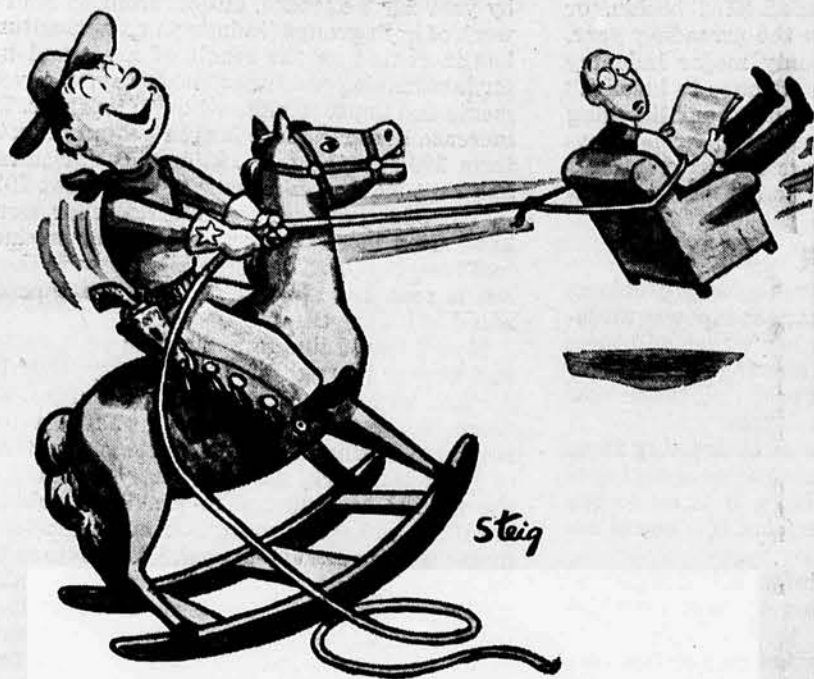
"As I figure it, \$14 per working person for each of the 70 million working people in these United States is one billion dollars. Working 8 hours a day

at \$1.75 an hour a man earns just \$14. "Sixteen billion dollars added to the tax bill of this country is the total work of each and all of us for 16 days—about 2½ weeks.

"A total estimated tax of 71 billion dollars a year means 71 days of our labor; not only my labor, not only your neighbor's labor, but the labor for 71 days—14 weeks—a quarter of a year, of every man and woman working for gain in the United States of America. And if you happen to get less than \$1.75 an hour, it may mean even more

(Continued on Page 42)

He's feeling his
CHEERIOS...



-the OAT CEREAL that
needs No Cooking!

★ ★ ★

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

Betty Crocker of General Mills, America's first lady of food, says, "Start an active day with a nourishing breakfast built around a good cereal like Cheerios with milk and fruit." Tiny, doughnut-shaped Cheerios are deliciously appetizing ... have a crisp, fresh toasted-oat flavor! Get ready-to-eat Cheerios today.



Should We Fertilize Native Bluestem Pastures?

By ED RUPP



FIRST STEP in fertilizing bluestem pasture test is getting soil samples. Wendell Moyer, Anderson county agent, uses soil tube as aid in taking soil sample. Looking on from left to right are E. V. Swinehart, owner of farm; Jess Boots, with the Anderson Countian, Garnett; Roy Moore, of Kansas Farmer, Topeka; Pete Winfrey, Thurston Chemical Company; Tom Church, Anderson county farmer and last year's president of the Anderson county Farm Bureau. Kneeling at right is Jim Gillie, also with Thurstons, of Joplin.

WHAT will an adequate amount of fertilizer do for native bluestem?

An effort will be made in Anderson county to find the answer to that question. The test will be on the farm of E. V. Swinehart.

Co-operating with Mr. Swinehart and County Agent Wendell Moyer in planning the test work are the Thurston Chemical Company, Joplin, Mo., and Kansas Farmer.

Tentative plans call for several tests to be made on the native bluestem grass. One test will measure hay production on unfertilized strips as compared with several strips supplied with plant foods in various applications. Parts of this area will be open to free grazing by the Swinehart Hereford herd. It will provide a test for palatability of grass under various plant food conditions. It is expected cattle will show preference for fertilized strips.

In these test strips plans call for 3 different rates of fertilizer application, along with an adequate number of control strips. On one strip fertilizer will

be applied according to soil test indications. On another strip about half as much fertilizer will be applied. An excessive rate of fertilizer will be used on the third strip as an aid toward determining possible soil deficiencies.

If possible to complete arrangements, another test measuring carrying capacities of fertilized and unfertilized pastures will be made. End results of this portion of the demonstration would show difference in pounds of beef produced on the 2 areas—fertilized and unfertilized.

The Swinehart pastures are in good condition. Weeds have been eliminated thru spraying and grazing management. Even so, it is expected proper fertilization will increase carrying capacity economically.

The new soil testing laboratory facilities at Garnett will be used by Mr. Moyer in making fertilizer recommendations for the pasture tests. Plant food applications will be made with normal grades of fertilizer mixtures commonly available to all farmers.

Will Your Chicks Live to Maturity?

WILL chicks you buy this spring live to maturity? These days, livability of chicks to laying age is a factor you cannot overlook.

Records show about 11 per cent of all chicks purchased by farmers in Kansas die before they are 6 months old.

Most of this loss can be prevented, says M. A. Seaton, Kansas State College Extension poultry specialist. Here are a few things to watch for in buying and growing chicks this year:

1. Buy pullorum-free chicks: Under the National Poultry Improvement Plan there are 3 pullorum classes from which to choose. They are U. S. Pullorum Controlled (tested to less than 2 per cent reactors); U. S. Pullorum Passed (tested to 0 reactors on one test), and U. S. Pullorum Clean (tested to 0 reactors on 2 tests).

"Most of the better Kansas hatcheries now are testing their hatchery supply flocks down to zero on one test," says Mr. Seaton. "In 1935," he says, "when the pullorum program first started, flocks had to be tested down to 10 per cent reactors. Now they have to test less than 2 per cent to qualify, which shows how much progress has been made in pullorum control."

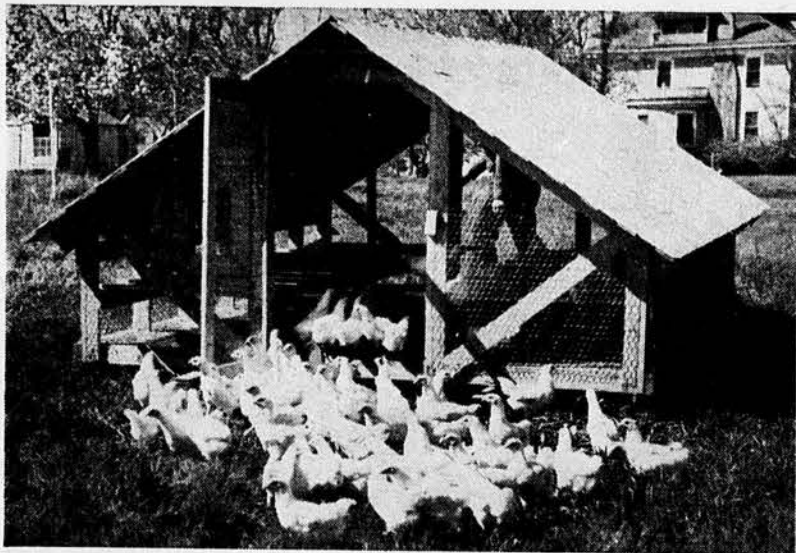
Since pullorum is the No. 1 chick killer it will pay you to buy your chicks from hatcheries that are following a good pullorum control program.

2. Get better brooding equipment: "A portable range shelter is the most important single piece of equipment in developing sturdy pullets," states Mr. Seaton. "Yet, only 10 to 15 per cent of Kansas poultrymen have range shelters for their pullets," he reports.

(Continued on Page 11)



MANY TOP poultrymen are using permanent brooders equipped with sun porches, then transferring pullets to range shelters when 8 weeks old.



RANGE SHELTER is most important single piece of equipment in producing good pullets, yet only 10 to 15 per cent of Kansas farms use them.

There are 2 ways of meeting the range shelter problem. Some top poultrymen use portable brooding houses that later are moved to range as range shelters. Other top poultrymen use permanent brooders with sun porches. Later, pullets can be moved to temporary range shelters and the brooders used to finish out cockerels. Pullets do best when transferred to range shelters when 8 weeks old.

3. Better feeding: "Feeding of poultry has become a science," says Mr. Seaton. "In most cases farmers no longer can afford to mix the complicated feeds required. We now recommend that farmers buy good commercial mash to feed with home-grown scratch feeds." Here are some feed recommendations offered by Mr. Seaton:

First 3 days—Feed chicks finely-ground scratch grain only. Do not feed mash first 3 days to avoid pasting. After third day feed commercial starting mash (no grain) until chicks are 4 weeks old. Then feed starting mash plus grain until chicks are 8 to 10 weeks old. Then switch to commercial growing mash plus grain. Green range for pullets is important after eighth week.

4. Litter: Put litter on brooder floor before chicks are placed in brooder. Never take litter out during brooding season. Just add more litter and stir. "There is plenty of experimental evidence," says Mr. Seaton, "to show chicks will live better and gain faster if litter is not cleaned out during brooding season. Finely-ground corn cobs or commercial litters can be used."

5. Water: "Many folks fail to keep enough water before chicks," says Mr. Seaton. "An automatic waterer is the perfect answer, but if this is not possible, at least keep enough waterers on hand and keep them filled. Chicks should never be without water."

Commenting on feed, Mr. Seaton says: "For laying and breeding stock about equal parts of mash and whole

grain should be consumed daily. When egg production is below expectation reduce scratch grain to 8 or 10 pounds daily per 100 mature birds, and thus force layers to eat more mash. Palatability of mash can be increased by moistening to a crumbly stage with skim milk or water, and fed between 1 and 2 p. m. daily.

Early chicks are essential to highest profits. Egg prices, says Mr. Seaton, "are always above average from August to January and below average after January. For best profits pullets should be in production by late August or early September."

So, there you have it. Buy early pullets free of chicks; use proper brooding equipment; feed high-quality commercial mashes with farm scratch grains; use built-up litter, and keep plenty of water in front of chicks.

Good Dairy Feed

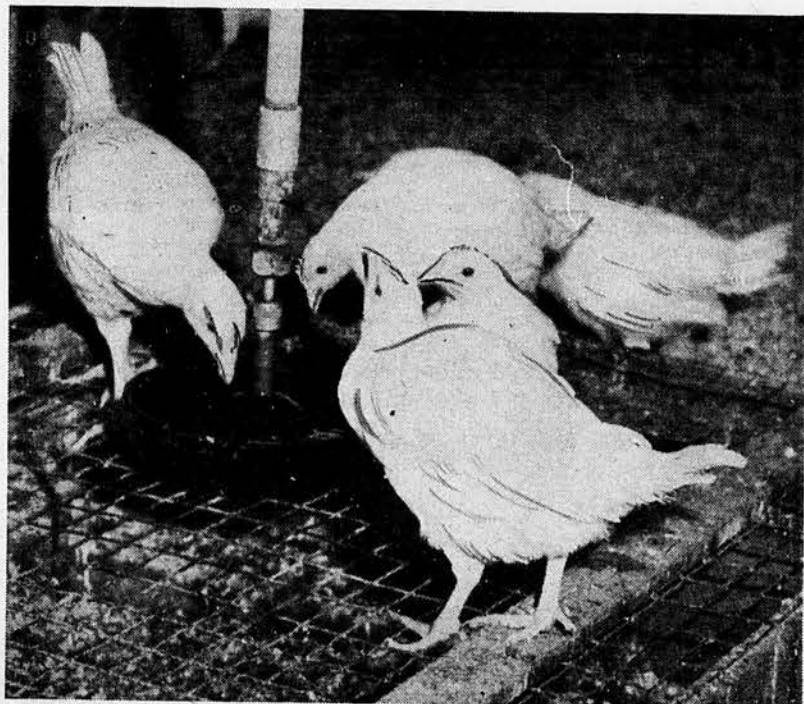
When used in a concentrate mixture for dairy cows, coarsely ground milo or sorghum grain is equal in feeding value to corn, says F. C. Fountaine, Kansas State College dairy specialist.

Little American Royal

The new field house at Kansas State College will be scene of the Little American Royal livestock show April 14. Max Milbourn, chairman of committee on use of field house, stated more and more college events will be scheduled for it in future after it has been completed.

Treat Slow Cows

For increased profits on the dairy farm, slow-breeding cows should be examined and treated by a veterinarian. Dr. F. H. Oberst, Kansas State College veterinarian, says every day of waiting to have this done means that much greater loss in milk production and calf crop. Proper treatment given early may redeem an otherwise hopeless case.



PLENTY OF WATER is needed by growing chicks. Use automatic waterers, if possible, but if not available, keep plenty of water on hand at all times.



Trail-Mounted Mower
For all Allis-Chalmers Tractors Except Model G

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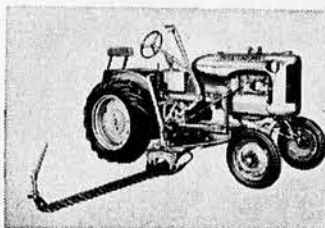
Quick-Hitch mower and tractor drive as a unit. No more hooking fence, ripping tree bark, or scraping gateposts.

You'll like this easier way of mowing for quick haymaking.

Allis-Chalmers V-belt drive mowers operate quietly. Make square corners. Back up. Hold to hillsides... no drifting.

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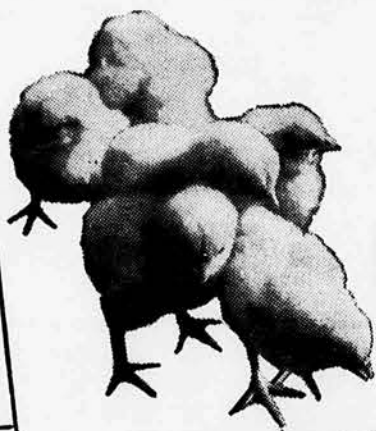
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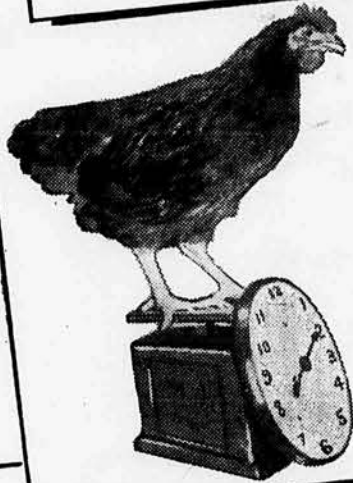
a special report to you
folks who GOOCHed
your chicks last spring...



YOU



**96.9%
livability**



**2 lbs.
8-wks.
weight**



**3.21 feed
efficiency**

(3.2 lbs. total feed per pound of
live bird)

Isn't It Wonderful To Be Right?

You folks who GOOCHed your flock on GOOCH'S BEST Starting Feed and Grow Mash last spring sure were right. You were feeder-proved right by 1,107 other GOOCH poultry-raisers on their own farms in Kansas, Nebraska, Oklahoma, Iowa, South Dakota, Texas, Wyoming, Colorado, Missouri, and New Mexico. Those 1,107 GOOCH feeders started 315,783 baby chicks. At 8 weeks there remained 306,155 sturdy, well-developed birds—a livability of 96.9%. The average weight of heavy-breed birds at 8 weeks was 2.09 lbs. Light-breed birds averaged 1.93 lbs.; and hybrids, 2.05. The average 8-weeks weight—total of all birds—was 2.007 lbs.

But that's not all!

The high livability and fast gains of GOOCH-fed birds were achieved at a feed efficiency of 3.21 . . . in other words, just over three pounds of GOOCH'S BEST and farm grains (total feed ration) for every pound of live bird.

Sworn Affidavits Support Every Statement Made by Gooch's Best

These figures are not guesses or estimates. They are from actual, accurate chick records kept by poultry-raisers themselves—figures that have been verified and sworn to before a notary public. They are available for public inspection. Yes, your judgment was sound as could be when you decided to GOOCH your chicks last spring.

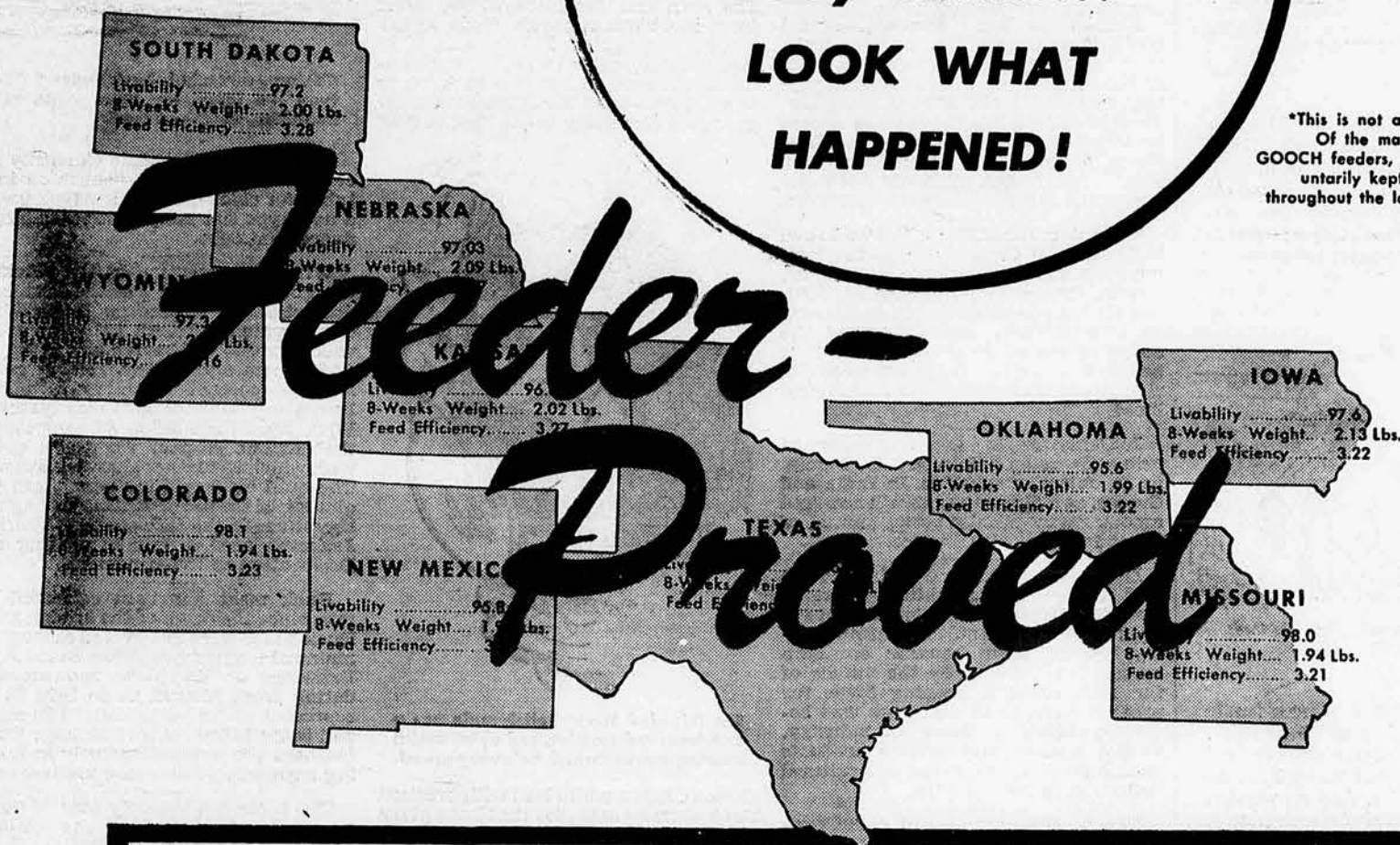
Isn't it a wonderful
feeling to be right?
And actual farm
results in 10 states
feeder-proved
just how right
you were when
you chose
GOOCH'S BEST!



WERE RIGHT!

**1,107* Feeders
Over 10-State Area
Started 315,783
Baby Chicks...
LOOK WHAT
HAPPENED!**

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Of the many thousands of
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throughout the last chick season.



Poultry-raisers who GOOCHed their chicks last spring recorded the highest livability, the best feed efficiency, the fastest chick growth and development in their entire experience.

If you GOOCHed your flock, you know this is true. If not, you have only to look at the record. GOOCH'S BEST is *feeder-proved!*

These exceptional results were made possible by the modern feed improvements the GOOCH nutritional staff has passed on to you. Those GOOCH experts—constantly investigating, researching, testing, proving—are never satisfied with the feeds you have. They strive always to make them better and even more

efficient. Their efforts brought you Condensed Sardine Fish Solubles in 1941, Fermentation-Process APF in 1948, Multiple APF in 1949, Aureomycin APF in 1950, and now **scientifically measured antibiotics**—the new growth accelerator which makes chicks grow as never before. Every year, GOOCH'S BEST brings you the latest nutritional developments just as soon as they have been tested exhaustively to prove that they are sound and right, proved to be the best possible for your poultry.

With these facts before you, with this actual *feeder* proof, how can you afford *not* to GOOCH your birds? You know you are right when you ask your dealer for GOOCH'S BEST. It's *feeder-proved!*

7 Championships At '50 International

Warren-bred Belgians win both Grand Champion mare & stallion!



Ted Warren shows Grand Champion mare, "Susie Lyn DeMons". Ted and father are two more champions who get farm-size breakfast nourishment from Wheaties!

BANCROFT, MICH.—Talk about prize Belgian horses, and you talk to Ted and Perrin Warren. Father-son team won 7 championships at '50 International Livestock Show—including both Grand Champion mare and stallion! Over 500 awards won on their Belgians since 1937!

Warren family raised Belgians over 50 years—since Perrin's grandfather first introduced breed to home county. Long-time interest in sports and breakfast cereals started Perrin and son Ted, eating Wheaties over dozen years ago. It's that Wheaties "flavor", they say—goes so well with bananas or peaches and cream.



"He changed the act after his first bowl of Wheaties."

Three generations in Warren family now enjoy "Breakfast of Champions". Includes Perrin, his seven children, and twelve grandchildren. Fine family nourishment in Wheaties. And no wonder. There's a whole kernel of wheat—plump, sweet, and golden-toasted—in every Wheaties flake!

Wheat used in Wheaties is so choice, less than 1% of all wheat grown in America meets Wheaties' high requirements! And all the healthful bran and wheat germ are left in. You get B-vitamins, minerals, protein, fast-stepping food energy. Tomorrow morning—start your day feeling good, doing good. Have Wheaties with milk and fruit. "Breakfast of Champions"!



Economy minded? Buy your Wheaties in the Extra-Big-Pak. 50% more than regular size Wheaties package... at a saving.



"Wheaties" and "Breakfast of Champions" are registered trademarks of General Mills.

Odd, humorous facts crop up about poultry. Would you ever guess once-upon-a-time . . .

Hens Had Teeth

By GORDON WEST

NO OTHER living animals in the world today can do the "crowing" act like members of the fowl family, or with as good reasons behind their boasting, either! In addition to their value, there are many interesting, humorous and unusual facts about poultry.

Fowls interest more humans than any other animal for several reasons. They supply food. Their feathers provide warmth and comfort for mankind. The belligerent character of the wild cock started the sport of cockfighting. Fowls are popular, too, because of small size compared with many other domestic animals.

The first bird of which there is a record is the Archaeopteryx (ancient winged creature). It lived 150 million years ago. It was about the size of a crow, but had certain features not possessed by any birds of present times. The tail was lizard-like, was fringed with large feathers. There were 3 free digits, each armed with a claw, in front of each wing. Its skin-covered jaws had teeth, which no modern bird has. Remains of this bird indicate perfectly formed feathers were in existence 150 million years ago.

Kansas can boast of some ancient birds. Specimens of 2 birds with teeth were once discovered imbedded in rocks of Western Kansas. One, the Ichthyornis, was about the size of a pigeon. The other, the Hesperornis, was almost as large as a man and was wingless. These 2 birds lived about 90 million years ago. Today, all fowls have one important thing in common—feathers.

The original habitat of the wild fowl is South and Central India, the lowland belt at the foot of the Himalayas, Assam, Burma and Ceylon. Also, throughout all the countries to the southward on into Sumatra and Java, and the string of islands to the eastward. It is believed domestic stocks all were derived from one species—the Red Jungle Fowl.

In China, the fowl long was esteemed primarily as an edible bird. In Persia, as an object of sacrifice. In India and Greece, as a fighter par excellence. And among many peoples as an animal of great religious significance.

Domestic fowls found a place in the diet of the earliest white settlers in America. Captain John Smith wrote of eggs eaten in Jamestown in 1609. Poultry keeping soon became common among the Indians. By the middle of the 19th century, keeping fowls for production of meat and eggs was becoming a relatively important industry. Today, poultry and poultry products rank high in value among agricultural industries in many states.

The possible number of color variations in the domestic fowl is practically unlimited. The original color pigments in the plumage of fowls probably were red and black. In the modern breeds and varieties there is an array of variously marked feathers possessing such color characteristics as lacing, penciling, barring, stippling, spangling and mottling.

The poultry world includes birds of tiny size, like the bantams, on up to the huge-size birds. There probably are more unusual breeds in this animal world than in any other. The National Geographic magazine for April 1927, states the bantam is the "pygmy" of the fowl world. There are many Bantam breeds possessing great variety in body type, feather contour and plumage colorations. The White Silkie is the "Negro" of the fowl world. Beneath soft white feathers is black skin. It has a purple face. The Black Minorcas lay the whitest-shelled eggs. The Arancanas, native of Chile, is the only domestic bird that lays a blue egg. It is rumpless, wears tufts of feathers on its neck. The head and 3 inches of the neck of the Transylvanian Naked Neck is bare of feathers. Is thought to have originated in Hungary. The Frizzles has feathers which turn upward at the

end, giving the bird a much-ruffled appearance. The Sultan is a white fowl of medium size with crest, muff, beard and feathered shanks. It has vulture hocks, a characteristic which is unusual in the poultry world.

A breed frequently referred to as Sicilian Buttercup was imported into America direct from Sicily in 1860. Was given that name from the fact its plumage in general was yellow and it had a cup-shaped comb. In Japan, the Yokohomas has been bred for hundreds of years. The cock has a tail of from 12 to 15 feet, lying in graceful curves. It is said to have been known in Korea before 1000 A. D. In olden days, the long feathers were used in heraldry and were worn as decorations by Japanese officials. When exercising, the cock's feathers have to be carried by an attendant. The longest feather of which is a record was 20 feet 2 inches.

According to the book "American Standard of Perfection," the Blue Andalusian is the "red, white and blue" chicken. It is unique among domestic fowl, its face and eyes being red, its ear lobes white and its plumage blue. The Dorkings are among the oldest breeds of domestic fowl in existence. The skin and flesh are white, differ from most other breeds since it has 5 toes. The typical Polish male is of medium size, with a large, flowing well-balanced crest, rising well in front so as not to obstruct the sight. The silver Spangled Hamburg is the "polka dot"



The Bearded Silver Polish male has a red face, red wattles, red eyes, and a flowing crest of which he's very proud.

chicken. It is a white bird with brilliant black circular spangles that have given the impression of a "polka dot" design. The Boosted White Bantams have long thighs, well-furnished with long, stiff feathers or vulture-hocks which almost touch the ground.

Nearly all poultry breeds known in America 100 years ago are out of existence now. A few of them, thru selective breeding, were changed in appearance and given new names, according to the Kansas Poultry Improve-

ment Association. These exist in limited numbers in the hands of fanciers. The first poultry show was held November 15 and 16, 1849, on Boston Common in Boston, Mass. There were 116 exhibitors.

On Long Island, duck farming is a \$10 million-a-year industry. According to the New York Times Magazine for June 25, 1950, total production per year is 22 million pounds. All ducks are direct descendants of 4 storm-tossed Pekin ducks shipped to America from China in 1873. They were bred in Connecticut for 9 years. Flocks were removed to eastern Long Island—where conditions for raising them were ideal—low, sloping shores bordering on countless creeks, streams and bays.



Chickens nowadays bask under a new type sun lamp, lay more eggs, are healthier, need less feed.

Westinghouse Electric Company recently commented on "sunshine in a tube" for chickens. Chickens loiter under a new type sun lamp that resembles a fluorescent tube.

With the exception of the chicken, the goose probably was the first bird domesticated. According to National Geographic for March 1930, the goose was regarded as a sacred bird in Egypt 4,000 years ago. Today, raising geese is an important industry in many European countries and in many states. With the introduction of gunpowder the demand stopped for goose quills with which to feather shafts of arrows. The quill was used for pens from beginning of the art of writing among the Egyptians to the 18th century. Thomas Jefferson used a quill in writing the Declaration of Independence.

Duck meat has been esteemed by man since the dawn of the human race. Duck bones were discovered among remains of troglodytes of the Stone Age. Drawings on Egyptian monuments dating from 3000 B. C. to 1000 B. C. represent ducks being caught in nests and being killed by boomerangs. Duck feathers are used extensively in making cushions, pillows and mattresses.

The turkey is the only race of poultry that originated in the United States. They were domesticated in Mexico in 1518. Indian and Aztec tribes hunted wild turkeys hundreds of years ago.

Poultry have been popular birds for millions of years, will continue to be. In addition to their meat, feathers, quills and eggs, uses for poultry have been found in books, poems, stories, movies and songs.

Lovejoy Story Continues

(See April 7, Kansas Farmer)

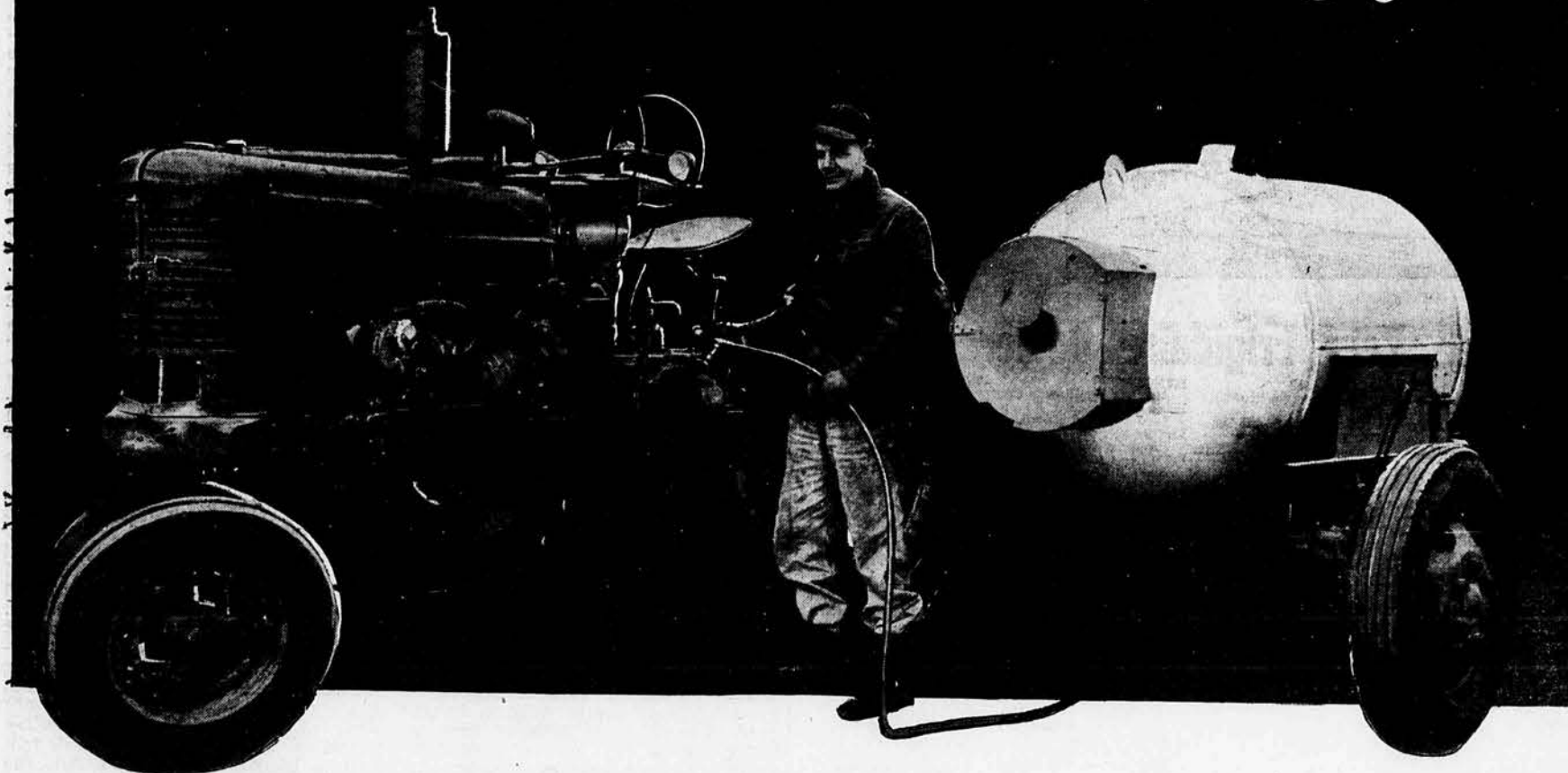
Last month we offered you first installment of another series of articles on "This Is Life in Early Kansas," by Lela Barnes, staff member of the Kansas Historical Society. In the coming April 7 issue of Kansas Farmer, Mrs. Barnes will continue the story of the Reverend Charles Lovejoy and his wife, Julia, who emigrated from New Hampshire to Kansas to join anti-slavery forces.

Julia's letters tell of the destitute settlers in her midst, of the settlement of Baldwin and the plan of the Methodist church to establish Baker University there. Watch for this story in the April 7, 1951, issue.

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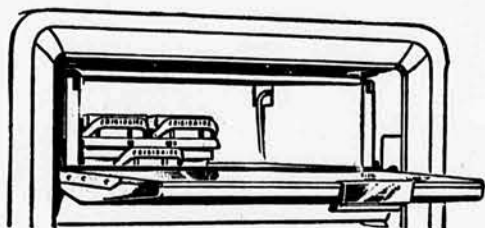
tion, water heating in the home—for stationary engines, milk house sterilizers, brooder heaters around the farm. See your Philgas Distributor for the complete story today.



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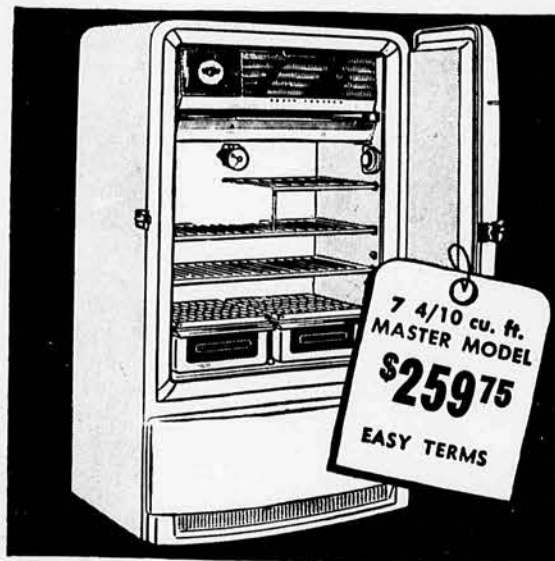
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New things in nutrition
add importance to . . .

Formula Feeds

RESEARCH in animal nutrition has heaped responsibility on feed manufacturers. Farmers are becoming more and more dependent on products of feed companies as the science of feed formulation becomes more intricate and difficult.

This increased responsibility on the part of feed manufacturers was quite apparent thruout the proceedings of the Kansas Formula Feed Conference held at Kansas State College in January. The knowledge of nutrition is advancing rapidly, particularly animal nutrition. Feed men must be alert constantly to keep up with advancements.

Many new things learned in the last few years are tremendously important to the farmer, the feeder. In many cases the amount required of a particular substance is extremely small; so small the individual farmer cannot very well mix it in his feed economically. But its presence in the feed, nevertheless, is important. That is why farmers are depending more and more on feed companies to balance their livestock and poultry rations; why responsibility on the part of feed companies has increased.

Poultry provides an outstanding example of progress made in nutritional research. On the whole turkey production is mostly confined to large flocks today. It is a specialized business. And most turkey producers work hand-in-glove with feed manufacturers to provide the exact nutrients turkeys need from incubator to dresser.

Chickens seem to be moving in that same direction. Broiler production is a specialized undertaking. Large broiler plants are the rule, and again feed manufacturers are depended on to supply correct rations. In the laying flock department the recommendation is for 300 or more, or just enough to supply family needs. And as flock sizes increase producers depend on feed companies to supply them with specially formulated feeds for various stages in the life cycle of the laying hen. Production must be high to make the laying flock pay out. And wise use of present knowledge in poultry nutrition is necessary to achieve high production. Again we depend on feed companies.

Would Be Impossible

Using only home-grown feeds, it would be extremely difficult, practically impossible, for a poultryman to make certain his poultry rations contain the proper amounts of some 9 or more important vitamins, 6 or more essential minerals. And that doesn't take into account the proper amount of protein required in various stages of growth. There are more than 20 recognized amino acids. Some of these are indispensable. Just one amino acid deficiency can render a diet inadequate.

Similar advancements have been made in pig rations as with poultry. But the case of the ruminants, cattle and sheep, present different problems due to digestive system differences.

As pointed out at the conference by Dr. E. E. Bartley, department of dairy husbandry, Kansas State College, some preliminary work has been done in other states with aureomycin as a nutritional supplement for adult ruminants. Addition of 600 milligrams of aureomycin to rations of steers reduced their appetites and produced di-

arrhea. But favorable results were obtained at Kansas State College by use of a smaller amount of aureomycin in rations of newborn calves.

As Doctor Bartley pointed out, the difference may be due to the fact that in a newborn calf the paunch is small and non-functional. At this stage of growth a calf behaves like a non-ruminant in digesting food.

With very small amounts of aureomycin added to rations of calves from 1 week to 7 weeks old, their weight gain was superior to control calves not receiving the supplement. Considerable scouring was noticed in the control calves. Apparently calves continued on this supplement from 7 weeks to 12 weeks of age also benefited from aureomycin even tho the rumen apparently was functioning normally. At this stage they no longer behaved like non-ruminant animals.

Amount of aureomycin used was only 15 milligrams for each 100 pounds of body weight.

Aids With Calves

From these preliminary findings, Doctor Bartley pointed out, it seems apparent under certain conditions of management aureomycin fed in fairly small amounts appears to aid in control of calf scours. This is important because death losses in young calves are extremely high. And calves that scour periodically seldom grow as well as those that have been free of sickness.

Aureomycin in the calf ration seems to work as a preventive of calf scours rather than a cure. More research is needed to substantiate preliminary findings made at Kansas State. And a practical method of supplementing calves under 3 weeks old needs to be devised.

Speaking of the properties of hormones, Dr. J. S. Hughes, department of chemistry, Kansas State College, pointed out that synthetic female hormone used in proper amounts increases rate of growth in some young animals. He believes use of some synthetic hormones has a place in animal production, but they are not ingredients to be used indiscriminately in formula feeds.

By use of a hormone, production of a dairy cow can be increased 6 per cent. That means one extra cow in a herd of 16, Doctor Hughes pointed out. And there is no evidence of harm if fed properly. However, it is not permitted for Herd Improvement Registry herds.

What we already know today about amino acids, vitamins, minerals, hormones, antibiotics makes feed mixing an exacting science. And there still is more to come. New discoveries are made each year in animal and poultry nutrition. The job of mixing feeds will become increasingly difficult. And the role of the feed manufacturer will become more and more important as the farmer depends on him to provide the best feed for economical production of meat, milk and eggs.

Research Consultant

Dr. Max Milner, of Kansas State College milling department, has been retained as consultant to the Midwest Research Institute, Kansas City. Doctor Milner will continue as professor of milling industry at Manhattan.

Wasps and Flies Destroy Corn Borers

Bring hundreds of wasps and flies into Kansas to help control European corn borer? Yes, that's what Kansas State College scientists have done in their studies to help control this pest of corn. Nearly 9,000 adult macrocentrus wasps and 540 lydella flies have been imported. These 2 insects live on the larva of European corn borers.

"They can't control the borer, but they help," explains Dr. Roger C. Smith, head of the Kansas State College entomology department. Entomologists also have ordered another 1,000 flies at a cost of \$50 to be released "probably in Shawnee county or close to Manhattan" so college men can study work done by the flies in destroying borers.

Kansas farmers lost \$657,000 to the borer on 1950 crops, Doctor Smith reported recently. This figure is based on a conservatively estimated 472,800 bushels lost at \$1.39 a bushel, the December 15 market price. This estimate was made by official federal government statisticians. They worked from random samples made on a scientific basis among Kansas cornfields last fall.

HELPFUL ELECTRIC HINTS FOR POULTRYMEN

Chick Brooding, of course, is only one of the many chores you can put on the shoulders of Reddy Kilowatt and probably an argument could be started as to the most important use to which you can put electricity.

Heat Lamp: For instance, there's the infrared heat lamp, which in itself is excellent for both heat and light in the poultry house, usually about one lamp for brooding 100 chicks.

Supplemental Heat: And we are not through with the heat lamp. In the coldest weather it can be used to advantage in the laying house, as well as keeping wet mash from cooling off or freezing . . . and to help keep wet litter dry.

Lights at Night: Don't minimize the importance of keeping the laying house lighted at night. Highly recommended by experts as stimulating a big increase in egg production, it is suggested that a 40-watt lamp be hung every 10 feet from the ceiling. Ordinary reflectors will provide ample illumination.

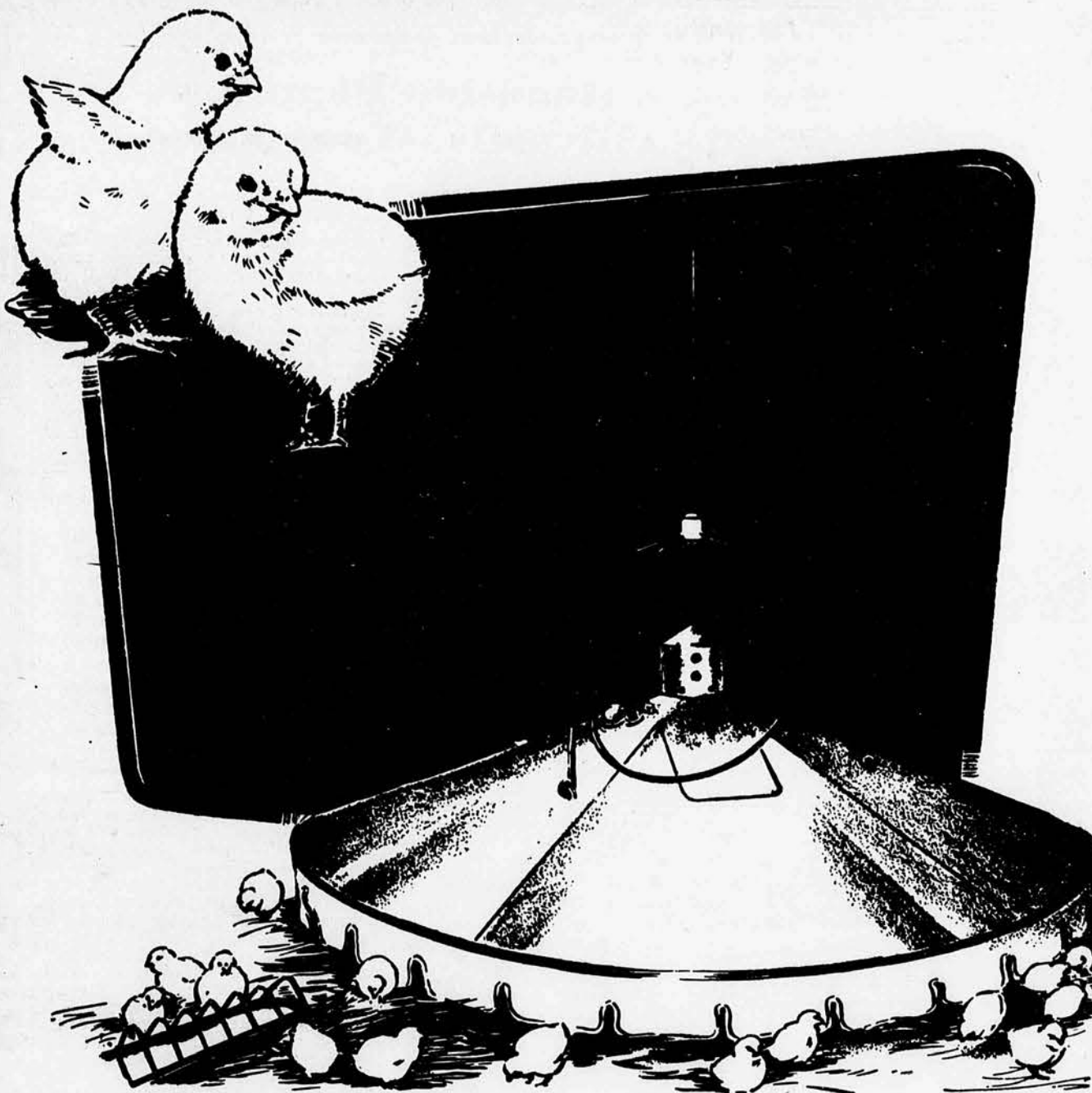
Automatic Water Supply: Maybe you didn't know it, but an egg is 65 per cent water. That's why a flock requires plenty of water "served" automatically from drinking fountains supplied by an electric pump of course. Correct temperature of about 50 degrees can be maintained by an electric immersion heater. The heat lamp can also be used to keep water from freezing if suspended at the right height from the drinking fountain.

Germ Killers: Germicidal lamps in brooder and laying houses will kill many air-borne infections . . . practically eliminate colds and roup. Installation is as easy as any ordinary lighting fixture and cost only a few cents a day to operate. They help to raise more chicks to maturity.

Feed Grinding: Many poultrymen find an electric feed grinder and mixer a "must." Almost automatic in its behavior, the owner of such a machine can take full advantage of the economy of having freshly ground feed at the lowest possible cost.

Ventilating Fans: A properly installed electric ventilation fan in which the colder air is drawn from the floor of the poultry house is highly recommended by many poultry experts. Moisture trouble is lessened and no wet and soggy litter with your flock protected from weather and temperature extremes.

Consult Experts: Before you install any electric improvement in your poultry house, it's a good idea to consult your local electric dealer or one of our own representatives as to your individual needs.



INCREASE YOUR 1951 POULTRY PROFITS NOW!

That's Right! You can count on bigger profits from poultry if your chicks are raised in an electric brooder. In the first place, more chicks will live when brooded electrically.

You will find, too, that chicks will feather out faster and get on the range sooner when raised with an electric brooder. That means your birds will get started faster and lay well ahead of the others.

Add to this the time you save and safety you enjoy with automatic, safe, electric heat.

Electric brooding does this for you in any kind of wintry weather:

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- Reduces mortality, insures greater profits.
- Provides safe, positive, even temperatures.
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- Decreases the hours spent caring for chicks.

See one of our representatives or your local electric dealer. They have many plans and ideas to help you in selecting those new modern appliances for the home or laborsaving items about the farm that pay for themselves in a short time.

*I'm your only hired hand
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few cents a day!*

—REDDY KILOWATT



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The Kansas Power and Light Company



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A PRODUCT OF
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No. 5 in flower series written by a man
who grows them by the acre

Roadside Plantings Advertise Your Farm

By FRANK PAYNE

ONE day last summer driving along 50 Highway I stopped at a farmhouse to inquire about the home of a certain farmer. A tall, friendly man came in answer to my knock on the door. "Howdy Mister, I said, can you tell me where the John Jones farm is located?"

"Yes sir," he replied. "Right down the highway about one mile, then turn to your right."

"How will I know the place?" I asked.

"You can't miss it," he said. "They have lots of flowers planted all around the house and even have flowers all along the front of their farm outside of the fence! It's a right pretty place," he continued, "especially when the flowers are all out in bloom. My wife and I often drive down that way when going to town just to gaze at the pretty sight. Mrs. Jones is just wild about flowers and Mr. Jones likes them, too. No sir, you can't miss finding that Jones farm."

"He was right. I did find it easily. The entire farm was outstanding, just like a picture with a frame of flowers. Now wouldn't you like your neighbors for miles around to speak kindly about your farm? Of course, everyone likes to have folks speak nicely about them and their possessions. You surely can, and easily too, if you will make roadside plantings."

A Real Beauty Spot

Most farms have fully a rod of land between fence and road that is idle and does grow up in ugly weeds if not mowed or plowed. Now that land is virgin soil, and all it needs is cultivation and planting to make a real beauty spot that causes travelers to drive slowly when passing your farm.

What flowers can I recommend? Well many kinds, both annuals and hardy perennials. Some annuals will reseed themselves like lespedeza does. The perennials only have to be planted once and they stay right there and bloom year after year, increasing in size and beauty each year with very little care.

For annuals you can sow the seed of iceland poppies, zinnias, marigolds, cosmos, cockscomb, four o'clocks or petunias. Be sure to get bright colors, say red, rose, golden or bright yellow shades. These make the most attractive showing. One solid color instead of mixed colors is best because it matches Mother Nature's plantings, and you cannot go wrong when you copy her plantings.

A Good List

In hardy perennial or permanent plantings you also have a good list to choose from. Iris, peonies, day lilies, hardy chrysanthemums, roses, hardy phlox or daisies all do well for your roadside plantings. In roses I recommend you use the extremely hardy type — ramblers are best. They sometimes grow as much as 20 feet in a single year, so you can plant them about a rod apart and save on original cost. Of the other hardy perennials you should plant much closer, say 2 or 3 feet apart in the row. If planted in rows heavy cultivations can be taken care of with a tractor using same tools you would in plowing young corn. Of course, shallow cultivation with a hoe would always be required where the

tractor couldn't reach, especially when plants are young and need most care.

By now someone asks, "Will the public steal flowers that grow along the road?" I can answer that because my experience proves the public can be trusted in such matters. I have grown flowers for more than 31 years. I don't even have fencing around any of my farms and I live in a thickly populated district. I have thousands of folks come to visit my flower farms, but in all 31

Any Questions?

If you have any questions about flowers you would like answered by Mr. Payne, please send them to Kansas Farmer, Topeka, Kan. He will answer any sent in by May 1, 1951, provided they are about flowers only, and provided you send a stamped addressed envelope for his reply. Send your questions to Editor, Kansas Farmer, Topeka, Kan.

years I never have lost 10 cents worth by anyone stealing them. The real facts to remember are this: Folks who love flowers are nice, honest people same as you and I and they really enjoy looking at and drinking in flower beauty. They also apparently love and respect flowers too much to stoop so low as to steal them.

About 20 years ago I planted a double row of peonies 600 feet long in front of a 10-acre strawberry patch. Peonies bloomed right about the time we were picking and selling berries at our roadside market. I sold choice blooms for Memorial Day bouquets for enough profit to pay the entire taxes on that 10 acres alone. It was quite an item because annual taxes were \$15 an acre. I even did better than that. I gave the short-stem blooms away in small bouquets to my berry customers. That seemed to make them feel real happy and built up good friends. I could tell that by their smiles and many thanks. Yes, I still say, roadside plantings will advertise your farm, and anyway are a lot nicer to look at than ugly weeds.

(My next article tells you about HARDY CHRYSANTHEMUMS.)

Buddy Poppy Sale

The annual national Buddy Poppy Sale for 1951, sponsored by the Veterans of Foreign Wars, is set for May 20 to Memorial Day. Poppies are made by disabled war veterans in government hospitals. All proceeds from sale are devoted to rehabilitation and welfare work among needy veterans and their families.

Grit for Hens

Hens need sharp grit or coarse gravel available for grinding feed in the gizzard. L. F. Payne, head of the Kansas State College poultry husbandry department, says hens will utilize their feed more efficiently if grit is available. Oyster shell will not substitute for grit, but it should be available at all times to supply calcium for a good egg shell.

New Amendment to Constitution

In the future, a president of the United States will be limited to 2 terms in office. The new 22nd amendment to the U. S. Constitution stipulates no person can be elected to more than 2 full terms as president. It also states any president who serves more than 2 years of a predecessor's unexpired term can only run once in his own right. On March 26, 1947, the proposed amendment was submitted to the states for ratification. The U. S. Congress specified the amendment must be ratified by March, 1954, to become effective. Nevada became the 36th state to ratify, on February 26, making the amendment part of the Constitution. Kansas and Missouri ratified the amendment in 1947.

A COMPLETE MINERAL PLAN that Saves Money gives livestock all the Minerals they need



PUT Morton's Trace Mineralized Salt in one side of a divided mineral box. In the other, put a mixture of bone meal and ground limestone or similar good source of calcium and phosphorus.

Recommended by leading animal nutritionists, this simple plan provides all the minerals livestock need. It supplies the minerals needed in quantity — calcium, phosphorus, and salt. Through the salt, it also supplies the trace minerals — iron, copper, cobalt, manganese, iodine and zinc — so necessary for healthy, thrifty, fast gaining, big producing animals.

Salt is the ideal carrier for the trace minerals. The chlorine of salt is needed to digest proteins. The sodium of salt aids in digesting fats and carbohydrates. The trace minerals help control the enzyme, vitamin and hormone functions of the body which convert feed into nutrients and in turn, build nutrients into growth, heavy production and healthy young.

Follow this simple Morton mineral feeding plan. It is safe, simple, economical and complete. Fed free choice, your dairy cows, beef animals, hogs and sheep will take what they want and need for thrifty use of feed, rapid gains, good reproduction and low feeding costs. Ask your dealer for Morton's Trace Mineralized Salt by name — feed it free choice.



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TRACE MINERALIZED
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FREE—Just off the press, this 32-page book gives you the complete facts on feeding salt and trace minerals to all classes of animals. Mailed FREE and postpaid. Morton Salt Co., P. O. Box 781, Chicago 90, Ill.





DELAWARE
Case No. 3405

"My Chicks Go to Market for 1⁴/₁₀ Cents per Mile!"

—says JAMES STAFFORD
Poultryman of Middletown, Del.

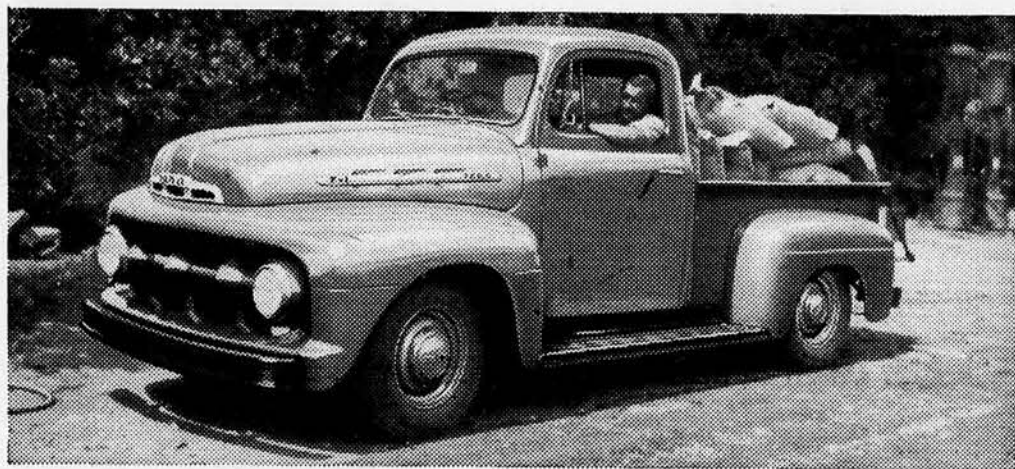
He drove a 1950 Ford F-1 Panel equipped with POWER PILOT in Ford's nationwide Economy Run. He says, "It sold me on the over-all economy of Ford Trucks."

Poultryman Stafford has been raising chicks for 15 years . . . owns four Ford Trucks. He says "Ford's Economy Run showed me how to save time and money . . . helped me keep track of hauling costs. For example: In six months I traveled 8195 miles with an average load of 1300 lbs., had no repairs, made 735 stops. I spent a total of \$115.94 for gas, oil and maintenance, giving me a running cost of only 1.41 cents per mile."

Like others who rely on Ford for greater savings—you'll like the regular, excellent service you get from your local Ford Truck Dealer. And, for more facts on the trucks that last longer and save you money every mile—mail the attached coupon.



Stafford and driver haul chicks and eggs to market, operating his truck 8 to 14 hours a day.

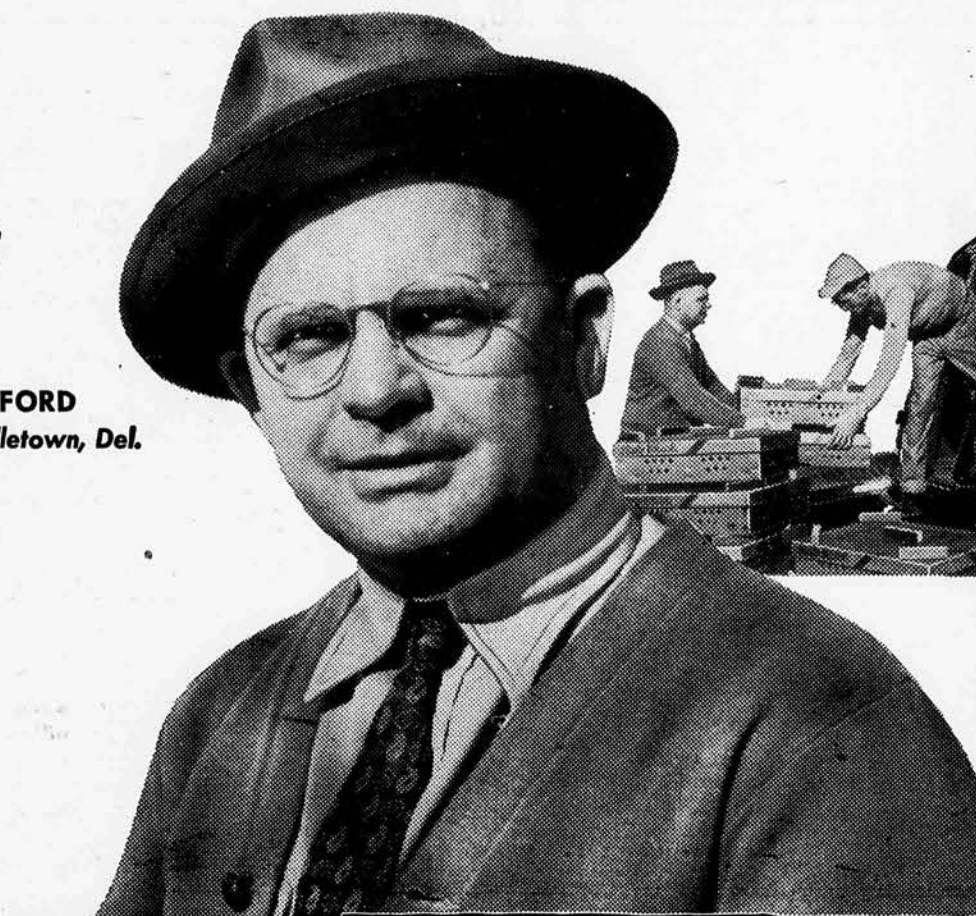


This new Ford F-1 Pickup for '51, like Stafford's F-1 Panel, is America's No. 1 Economy Value. It features new steering

column gearshift for passenger-car shifting ease. With over 180 models to choose from, there's a Ford Truck to fit your job.

Ford Trucking Costs Less Because— FORD TRUCKS LAST LONGER

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POWER PILOT helps POULTRYMEN hold down hauling costs



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NEWS



From Your STATE CAPITOL

FIRST bill signed by Governor Arn affecting Kansas farmers was one appropriating \$40,000 in the next biennium for wolf and coyote bounties. The bill was signed into law on February 17.

Boost 4-H Camp

Rock Springs Ranch, state 4-H Club camp, was recommended to the people of Kansas as a "project worthy of their support" in a resolution introduced February 22 in the House of Representatives. The resolution was sponsored by A. E. Anderson, Leoti; William Ljungdahl, Menlo, and H. H. Hoffman, Abilene.

The resolution stated "that an expression of appreciation be given to the work already done for this project by 4-H Club members and volunteers of the state 4-H camp development committee, and that they be encouraged to continue this activity." Kansas' outstanding 4-H Club program was referred to as one of the most effective means of training boys and girls in the democratic way of life. The resolution told of the development of Rock Springs Ranch and future plans.

Signs Fuel Bill

On February 23, the Governor signed into law the special fuel use tax bill, a companion bill to the 5th-cent gasoline tax measure. Until June 30, 1953, there will be the 5th cent on such motor fuels as Diesel oil and LP gases, such as propane and butane mixtures, used in vehicles on highways for transportation purposes. The bill on the 5th cent gasoline tax has not yet been signed into law. It has passed the House and Senate (with amendments) and is expected to be signed soon. Revenue from this "5th cent" goes to counties and cities.

Wheat Council Bill

A major farm measure at the present legislative session was approved March 5 by the House Agriculture Committee, with some amendments and recommendations for approval by the House. This proposal, House Bill No. 257, concerns promotion and advancement of Kansas thru development of industries and markets based on wheat. If passed and signed into law, a Kansas Wheat Commission of 7 members would be created. There would be a one-mill tax levied on the original sale of each bushel of grain to finance research by the Commission.

The 7 members would be appointed by the Governor for 4-year, staggered terms. Tentative selections would be recommended by representatives of the wheat-producing and milling industry. They would submit 14 names to the Governor who would choose 7. Ex-officio members to serve on the proposed commission would be the secretary of the State Board of Agriculture and the dean of the School of Agriculture of Kansas State College.

The mill tax would be assessed growers (after June 1) at time of sale of wheat and collection made by elevator operators. This levy of \$1 on each 1,000 bushels would produce an estimated fund of \$180,000 each year. The money would be used to promote production, marketing and advertising of Kansas wheat varieties. Research would be conducted on miscellaneous problems.

A full-time administrator would be employed but the commission would serve without salary. One commissioner would be appointed from each of 6 "wheat districts" and one member-at-large.

Wheat research work done by Kansas State College is paid for in part by the general taxpayer who aids in the support of this land grant institution and its activities.

The new proposal in the Kansas House of Representatives has endorsement of the Kansas Wheat Growers' Association and Kansas State College officials.



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You can depend on your Mobilgas-Mobiloil Man for everything you need to help keep your equipment at top efficiency. His products are highest quality—endorsed by 72 leading farm machinery builders. He knows the *right* lubricant for every moving part. He keeps you posted on the latest in maintenance . . . delivers promptly right to your door. Why not get *Mobil Farm Lubrication*?

MOBILLOIL—World's Largest Seller—assures Full Protection . . . Maximum Power . . . Economical Operation!

MOBILGREASE—stays put under heaviest jolts and loads—seals out grime, moisture!

MOBILUBE GEAR OIL—guards against wear, corrosion, unnecessary lay-ups—promotes efficient power transmission!



Mobil FARM LUBRICATION

Thoughts TO LIVE BY

Comfort

HERE is a word that is in danger of losing its verity and value. Being comfortable is a state toward which most people aspire. And by comfortable, they mean being at ease, reclining in the lap of luxury. How far the word has wandered from its origin!

Comfort is derived from two Latin words "con" and "fortis" meaning with courage. To comfort a person is to give him strength. There should be nothing weak or sentimental about comforting a friend. It is fundamentally a process of giving him courage so he may overcome opposition and transcend trouble. It is giving a dying man the will to live, the perplexed person a purpose. It is giving new courage to one who is discouraged.

Sometime ago, I attended a funeral service in which the deceased did much to comfort the bereaved. The eulogy of the clergyman was not very long, but we knew he meant every word he said, and there was much good left unsaid. The departed had lived such a life of service, and by his conduct he had revealed such love for God, that gratitude was mixed with a feeling all was well. He was like Enoch who "walked with

God: and he was not; for God took him." The transition was very slight. The religious convictions of that person and his moral characteristics were a comforting heritage to the lonely family more valuable than a large bequest could have been.

We have attended other services, too. In one, the clergyman did not know the deceased, and it wasn't the clergyman's fault. While the departed lived a reasonably decent life, and had no criminal record, his virtues were largely negative. He had some faith for a man cannot live without it. He believed in God, but that belief did not control his life. He loved his family, but considered all other people to be strangers beyond his responsibility. There was no time nor place in his life for the Church. When his family felt the sting of separation, they missed the comfort he might have given them.

While I am not a hearse chaser and would never recommend such activity to anyone else, I have learned something valuable from these services: what I believe and do today may be of comfort to my family tomorrow. And like others, I love my family sufficiently to desire for them every available aid. Surely the comfort that I can give is a thought for me to live by.

—Larry Schwarz.

Watch the protein balance for . . .

High Egg Production

CAREFUL feeding programs are essential for high egg production. Ask a good poultryman how he gets high production, and the answer generally will be good management. But break good management down into its various parts and you will find feed is one of the most important items.

For years the Colwell Leghorn Farm, near Emporia, has been a leader in state poultry circles. Last year this farm was second in the state poultry production contest. How? Good management is the answer. But in talking to the owners about their management you find they pay a lot of attention to their feeding program.

The elder member of the family, Willard Colwell, recalls the old formula they once used in mixing feed. So much wheat, so much corn and oats. This much alfalfa meal, meat scraps and other items. His son, Kenneth, says, "That's it. I remember it now." But times have changed and so have for-

mulas. Mixing feed for the laying flock on the Colwell farm is an entirely different operation today. But it still is subject to change.

Laying flocks on this farm now are managed by the sons, Kenneth and Bill. The elder Mr. Colwell has retired from the poultry business and is giving his attention to certified seed production.

Kenneth showed us the mechanical mixer they use to build up their poultry rations. But we are just about to quit using this mixer, he says. We are able to buy a high-protein mash that is ready to feed at a price that makes it uneconomical to mix our own mash.

When we talked with the Colwells one flock was receiving mash that was already prepared. The other flock was receiving a mash mixed on the farm with a high-protein supplement. With pencil and paper Kenneth figured the difference in dollars and cents, balanced that off against time and expense

(Continued on Page 22)



HEALTHY HENS like these on the Asa Gookins farm, Wabaunsee county, speak for a good feeding and management program. They went into high production soon after being placed in the laying house and maintained a high rate of egg production.

SWEEP . . . LOAD . . . STACK IT FOR LESS

WITH A **Jayhawk** ONE MAN HAY TOOL

HYDRAULIC OR MECHANICAL OPERATION

World Famous Portable Stacker Does It All in Less Time, at Lower Cost

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JAYHAWK FEATURES
Handles hay, straw, heavy forage, bunched or loose. Carries load on its own wheels. Works in wind and on rough ground. Won't upset tractor. Lasts indefinitely. Very little about it to wear out.

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Four Different Types-Sectional Tube Construction Throughout

TYPE A With Famous FLEXODRIVE . . . Best grain handler of all. More flexible. More adaptable to different operating conditions. Easier to operate, control, transport. Flexible shaft drive. No long belts. Motor down LOW. Sixteen foot basic length with 5, 10, 15 and 20-foot extensions.

TYPE B, below. In 11 and 16-foot truck units or with road carrier and windlass. Adjustable motor mount. Idler pulley drive. Heavy tubing, best heli-coid flighting, high speed, sealed bearings.

TYPE C, right. Sectional tube with electric motor drive at head. Low cost unit for vertical operation or permanent installation.

TYPE D, not shown. A Type "A" Bazooka for electric power. Countershaft drive. Motor mounted low. Complete with Type A carrier.

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Quality Built, Easily Attached, Low Cost

NEW Jayhawk HYDRAULIC LOADER

Most practical farm loader of all . . . simplified in design, easily attached, ruggedly built. Welded channel and angle steel frame, precision machined cylinder, tested to 2850 pounds. Easily attached, detached. Operates off most built-in pumps. Equipped with patented Jayhawk automatic load leveler. See your Jayhawk dealer. Write direct for **FREE CIRCULAR** and prices . . . today.

AVAILABLE FOR MORE THAN 60 DIFFERENT TRACTORS, INCLUDING FORD, FORD-FERGUSON AND FERGUSON

New Push-Off Stacker and Hay Loader . . .
Attaches to loader arms with scoop removed. Fully hydraulic, with individually controlled auxiliary cylinder at back of rake. Back boards of sweep used as push-off. Has full 9-foot fork with 11 metal pointed teeth and two side arms. Sweeps, loads, builds 18-foot stacks.

Other Jayhawk Attachments include sweeprake, 3-way bulldozer, 20-foot hay crane, snow scoop. Full details in loader circular. Write today.

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Lot MORE BUSHELS OF CROP!**





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**Add up to
BIGGER YIELDS**

The Great Corn — WITH STRONG VITALITY

**HIGHEST YIELD EVER MADE
IN KANSAS . . . 144.6 Bu. per
Acre with FUNK'S G-HYBRIDS**

The highest yield ever harvested in any official Kansas Corn Performance Test was made in 1949 with Funk's G-Hybrid corn. The official yield was 144.6 bushels an acre. (See Kansas Bulletin 342, pages 24 and 25.) Also 5 out of the 6 highest yields in the 1949 Kansas official tests (all over 123 bushels per acre) were made with Funk's G-Hybrids.

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On a farm and field scale and 5-and-10 acre basis throughout the entire Corn Belt, Funk's G-Hybrids hold more high and official records over a long period of years than any other corn. These are official records—not company sponsored and controlled.

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Has the high price of feed got you nervous? Do you sweat when you think of mounting feed and butterfat production costs? You can cure those feed jitters by investing \$38 in a Dodson "Red and White Top" Silo, and pay the balance from income. Silage preserves sugar, protein, vitamin A and minerals. It's smart to cut feed costs and increase beef and butterfat production by feeding silage. Send for descriptive literature and the article, "Grass Silage" by Louis Bromfield.

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**FARMERS SAVE LABOR COSTS
AND VALUABLE TIME**

DANSCO grain elevators will load or unload up to 1000 bushels per hour. Available in lengths 9, 10½, 12, 16, 20, 30 and 40 feet.

See your dealer now while all models are available or write us for literature and prices.

DANSCO
Farm Equipment Company
23 W. Park Enid, Oklahoma

High Egg Production

(Continued from Page 21)

of mixing on the farm. He came up with this answer: "It just doesn't seem to be worth it. Before long we may quit using the mixer to prepare our laying mash."

Colwells feed both grain and mash free-choice. Grains will average out at about 10 per cent protein. Mash carries 26 per cent protein. With high-protein mash available their layers are able to balance their own rations at a necessary level of 15 per cent protein.

Other producers prefer to use a mash with a lower percentage of protein. Then, to make sure their layers get a 15 per cent protein ration, they feed all or most of the grain in measured amounts.

Mr. and Mrs. Asa Gookins, Wabaunsee county, feed a 20 per cent laying mash to their parent flock of Ames In-Cross. Mash is fed free-choice, as much as the flock cares to eat. Grain oats also is fed free-choice and a small amount of milo is fed at noon. Oats is relatively high in protein, averaging just below wheat. Milo is quite low like corn. Using coats and only a small amount of

April Parties

Having a party in April? Our leaflet, "An April Party," has several suggestions for parties and instructions for making clever favors. New ideas. For a copy of the leaflet, please address Entertainment Editor, Kansas Farmer, Topeka. Price 3c.

milo, they are able to balance their poultry ration at 15 per cent protein even with a 20 per cent protein mash.

This flock was brought up from chicks on the Gookins farm according to recommendations of one feed manufacturer. Result of this planned feeding program was a low rate of mortality and a healthy flock of layers housed in fall. This flock was laying at a 30 per cent rate when housed at 5½ months of age. Soon after laying mash was started in the ration, production increased rapidly. Two months later production was up above 70 per cent and was continuing at that rate.

Change Was Made

Since the specific purpose of this flock is to produce the Ames In-Cross type of hybrid layers, a change in the ration was made at the outset of the hatching season. A change was made from laying mash to breeding mash. Just looking at the guaranteed analysis tag on the bag you could see little difference. It carried the same protein content. But there are little things that improve hatchability in eggs. Little things breeding hens need which are not so essential for a commercial flock. Breeding hens need more riboflavin, pantothenic acid and biotin. They need more manganese and iodine in rations.

Mr. Gookins says he just couldn't mix his feed and expect to get the kind of production they are getting now. And if he did mix his feed the cost would be about the same.

"It's the little things the feed manufacturer can put into feed in correct balance you can't do on the farm that make the difference," Mr. Gookins points out. "They may be extremely small amounts but are important."

How is this flock doing? Well, Mr. Gookins says egg sales amounted to \$231 in December and feed costs were \$187. At that time they weren't yet receiving a premium for producing hatching eggs.

School Days Party

We have just prepared a new leaflet entitled, "An Old-Time School Days Party." It consists of 2 games followed by a short playlet which requires 8 women or girls, one acting as teacher. Suitable for entertainment at a club meeting, a community entertainment or the last day of school. Very little rehearsing and costuming required. Send 3 cents to Home Service Editor, Kansas Farmer, Topeka.

Now That You Have Electricity

We have added to our information about the electric air improvers, or deodorizers, mentioned briefly last year. They are simple devices incorporating a small amount of activated carbon, and a motor blower that circulates the air and can solve a number of air sanitation problems in small spaces where ventilation is lacking.

There is an ice-cream freezer device on the market that is placed in the freeze compartment of a refrigerator and turns out nearly 3 pints of "dasher-mixed" ice cream while the meal cooks. Our information did not state where the electricity for the device could be obtained, however. Tell you later about this soon as we find out.

We believe an electric yarn winder recently advertised may be a great contribution to the machine age. But what's going to happen to the educational conversations which children experienced while holding a skein of grandma's yarn?

Pure drinking water is available now wherever there is electricity. A new ultra-violet sterilizer can be attached to the water system to deliver safe water from your household taps.

Here's an item for a farm workshop that uses several appliances, or for a kitchen work space. It is a multiple plug 12 inches long that can handle 8 appliances at once. However, it isn't advisable to use all 8 items at once since the load loss likely would not permit any of them to work efficiently.

Incidentally, you might make a sheepskin mitten to fit over a single beater on your electric mixer to serve as a polisher. For silver, copper, brass and even leather or furniture, such a device would make a high gloss easy to produce.

Here's something for small kitchens where work space is at a premium. From the west coast comes a 4-cubic-foot refrigerator of table height, atop which can be placed a 4-burner electric range. The same company also will supply a separate oven which can be installed on the wall or recessed in a cupboard elsewhere in the room.

It was early this year a new electric rotary brush for grooming farm animals was introduced by a major manufacturer. Some use of the gadget since

that time has shown how it digs out the dirt and combs and polishes the hair. There also is a built-in currycomb, just to make it all-purpose.

How about an electric soldering gun that is said to deliver melting heat within seconds?

Maybe some of you have wondered what to do with an antique clock that perhaps was a family heirloom brought to Kansas by Aunt Susie or Grandma who always said it came over on the Mayflower. A clock that doesn't work is about as useful as a mirror turned to the wall. So we suggest a little careful shopping among electric-clock stores might produce a dial and hands to match the effect of the antique piece. Then a bit of installing of works and the piece can be useful as well as ornamental and sentimental. It is possible, even, to leave a pendulum hanging below the dial, if one was on the original clock.

An electric hot-lunch box certainly has an appealing aspect or two for children in school or for pop if he lugs a lunch. The compact case of suitable size that is on the market merely plugs in just before lunch time and dishes up tasty food at palatable temperatures. It reminds us of a suggestion made in this column a few months ago about preparing a family meal in one of these roaster ovens and carrying it to the Grange or Farm Bureau meeting. A few minutes of heating via electricity and the diners have hot food.

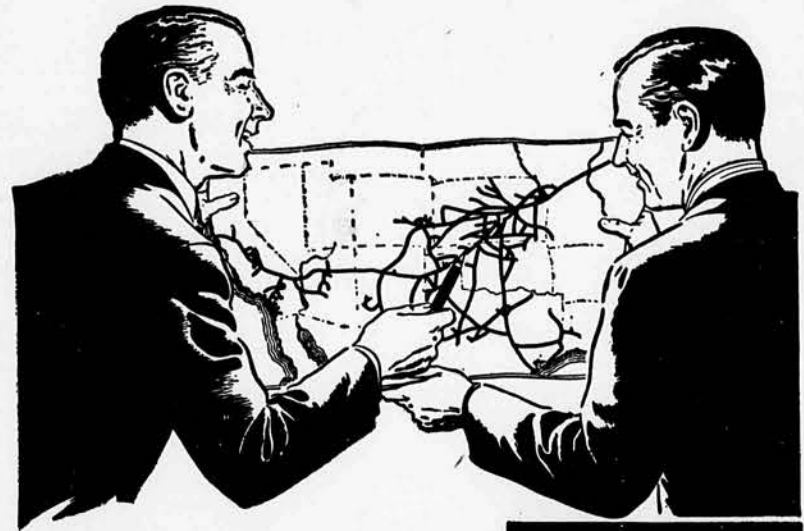
Electricity is taking the work out of everything, it would seem. Even coffeemaking has been reduced to a minimum with these new automatic arrangements. The human element merely measures the water and coffee and plugs in the cord. The electric element then takes over and heats the water to the correct point just below boiling to raise the water into the coffee chamber, reduces the heat to warming temperature while the coffee is lowered and keeps it hot. The drinking operation is still up to the humans, however.

Read the other day where high-frequency radio waves are being used to hasten sprouting of seeds. It isn't too early to guess that some day a "Speedy Seed Sprouter" will be standard equipment on Kansas farms, altho it would seem this might find more use in regions of shorter growing seasons.

GRANDMA . . . By Charles Kuhn



Your answer man with the Santa Fe



Where's my car? What about special handling? How about rates?

Bring on your freight questions, open up your freight problems. Your Santa Fe freight representative has the answers or knows where to get them quickly.

He is either in your town or has your town assigned to him. His knowledge of freight problems in your territory, plus the "know how" of Santa Fe's entire organization of transportation specialists, is at your service, just by a telephone call.

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BEM BRAND Fertilizer is made right here in this area to help "Bring Extra Money" on your farm. In addition to the guaranteed amounts of Nitrogen, Phosphate and Potash, BEM BRAND gives you liberal quantities of CALCIUM, SULPHUR, and OTHER essential plant foods as a BONUS.



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JOPLIN, MISSOURI
TULSA, OKLAHOMA
LAWRENCE, KANSAS

Who's to Blame for Early Chick Troubles?

By TOM AVERY,
Department of Poultry Husbandry,
Kansas State College



A-a-h, aah, aah, catch cannibalism before it grows up!

THERE is nothing more discouraging than to hatch or purchase several hundred baby chicks and have 50 per cent of them die before they are a month old. Brooding would be so much easier if chicks just weren't quite so delicate. Even with reasonable care, one can expect to lose 10 to 15 out of every 100 chicks before they reach maturity.

Reproducing the farm flock is one of our greatest problems, and it must be done economically. Net cost of rearing a pullet is influenced by per cent mortality.

What are some of these early chick troubles? How may they be prevented? How should they be controlled? Who, if anyone, is responsible for these troubles or losses?

The hatcheryman may be to blame if an excessive loss occurs due to poor quality of breeding stock, improper incubation, or pullorum disease. Chicks from breeding stock that have not been culled for vigor and vitality will not thrive. Insist on chicks from pullorum-

result of overcrowding or too few feeders. Danger of piling and suffocation may be greatly lessened by rounding the corners of the brooder house with some material such as hardware cloth.

Chicks should not be placed under the hoyer until they are ready to eat. They don't begin to get hungry until 36 hours old. If placed under the hoyer too early, they are likely to consume large quantities of chaff from litter. The chick is not equipped to handle this fibrous material and is likely to starve from lack of proper food material.

Must Be Balanced

We cannot overemphasize the value of feeding a well-balanced ration. If the growing chicks make efficient use of feeds they must be fed in proper amounts and in properly balanced form. Give chicks all the feed they want all the time, in plenty of good clean feeders. There is never danger of having too many feeders, but all too often there are too few.

Always be on the lookout for chicks that are drooping or that fail to eat. These should be removed from the flock immediately and observed closely. Most chick diseases can be checked if one is able to remove the first few sick birds, but few diseases can be readily stopped after they once gain a real foothold. Frequent cleaning of feeders, waterers, and equipment is a good precaution, even if there are no symptoms of disease.

County Agent Wins National Award

Armin Samuelson, county 4-H Club agent in Dickinson county, won a national award of \$300 from Freedoms Foundation, Inc. His prize is for a magazine article in the June, 1949, American Magazine on "I Want to Be My Own Boss." Freedoms Foundation, Inc., is a nonprofit, nonpolitical, nonsectarian foundation chartered in 1949. The purpose of the organization is to make awards for contributions to a better understanding of freedom among peoples.

Mr. Samuelson, former outstanding Shawnee county 4-H Club member, won a 2nd place award in the 1950 competition. He went to Valley Forge, Pa., to receive his award on February 22. He is a graduate of Kansas State College where he was active in the Collegiate 4-H Club, serving as president. You'll remember you read his articles in *Kansas Farmer* in 1948 on his travels to Europe as one of America's delegates under the International Farm Youth Exchange program. Mr. Samuelson was acting county 4-H Club agent in Shawnee county several years ago.

Poultry Bulletins

Kansas State College has these excellent bulletins free for distribution as long as the supply lasts. Information in each is reliable and instructions easily followed. Please address Bulletin Service, Kansas Farmer, Topeka, indicating bulletins desired. Your order will receive prompt attention.

Miscellaneous No. 3—Constant Flow Chicken Waterers.
Miscellaneous Bulletin—"V" Feeder for Laying Flock.

Leaflet No. 2—House for Large Flocks (New Straw-Loft Laying).

free flocks. The hatcheryman can be responsible for pullorum, and it is his responsibility to see that chicks you purchase from him are free from the disease. This is the only disease likely to be carried from hatchery to your flock.

Chicks affected with this disease will appear normal the first 3 days of their lives. Mortality usually starts on the fourth day and increases each day until the ninth when the peak is reached. From the tenth day on mortality drops rapidly until the fourteenth day when it will practically cease. Chicks either contract the disease from other chicks while still in the incubator or thru the egg from parent stock.

Good Results From Feed

Feed frequently is blamed for trouble when the cause actually was poor stock, or poor management practices. Most feed, if purchased from a reliable company, is well-balanced and will give excellent results if management is good.

The poultry raiser is responsible for losses due to poor equipment, improper brooding, poor management, carelessness. If each poultry raiser could realize the handicap he imposes upon himself by using inadequate equipment, he would soon learn money wasted each year on dead chicks would soon pay for good equipment. A good brooder house or battery brooder, plus proper heat, are necessary for success in artificial brooding. Makeshift houses and equipment spell poor economy.

Probably one of the greatest evils is crowding 400 chicks into a house where 200 belong. Crowding prevents normal development, will cause piling, is quick way to encourage toe-picking and cannibalism. Best brooding results are obtained in units of 350 chicks or less. One-half square foot of floor space should be allowed each chick. An unusually large number of runts is the

PURINA CHECKERBOARD NEWS

FROM YOUR PURINA DEALER



Well-Grown Pullets Lay Well

Early last spring a brood of cross breeds was started at the Research Farm. Our poultry breeding work is restricted to 3 standard breeds, but because of widespread interest in them the crossbred chicks were secured. They were managed and fed according to our program where feeds are not under test. Now that the pullets have been in production several months a summary of our records should be of interest:

Average weight at 6 weeks . . . 1.35 lbs.
Mortality to 6 weeks 1.80%
Age when 1st egg was laid . 18 weeks
Production at 20 weeks . . . 11.7%
Production at 24 weeks . . . 53.4%
Production at 28 weeks . . . 71.5%

Our research work prohibits culling, since removal of birds would nullify other phases of the experiment. This was not an attempt to prove superiority of one line of breeding over another, but it does show that birds bred for eggs lay well when properly grown.



Without benefits of culling production at 24 weeks of age averaged 53.4%.

226 Turkey Eggs in 323 Days

Turkey breeder hen No. 4893 laid 226 eggs from Oct. 13, 1949, to Sept. 2, 1950. Thirty-two of the 193 eggs set were infertile, but 147 poults, or 91.3% of the fertile eggs hatched. This again proves that high hatchability of fertile eggs can be obtained from a high producer—provided she is well fed and cared for.



Kansan's Sows Averaged 17½ Hogs Raised Last Year

It's not de luxe equipment that helps Kenneth Schwope of Highland, Kansas, get top results. Neither is it needless pampering. Schwope has found a practical hog program which helps his sows farrow big litters of heavy pigs that go on to make cheap gains. And he sticks to this program.

Schwope's in the hog business to make money. He chose the Purina Hog Program as the way to reach his goal and he's been successful. Let's look at his records from last spring.

Eight cross-Chester White gilts farrowed 68 pigs, an average of 8½ pigs per litter. A little over 5 months later, 64 hogs averaging 200 lbs. each were sent to market. How's that for first-litter sows?

Then, last fall, these same 8 sows laid down and farrowed 92 pigs. At weaning, they had saved 76 . . . a 9½ pig-per-litter average!

How does Schwope do it? His sows are conditioned with Purina Sow & Pig Chow and grain during the gestation period. Then just before farrowing they are scrubbed of dirt and put into clean, dry farrowing quarters. Their ration is changed at this time to Purina D & F Chow, a bulky ration that's mighty soothing to sows about to farrow.

As the pigs come, Schwope clips the needle teeth to prevent injury to the sows' udders. He says, "I think it's a good idea . . . prevents trouble." The pigs are good-sized little rascals and reflect the sound nutrition their mothers got during gestation.

Schwope uses pig brooders to help him save pigs. They are put under brooders as soon as they are born.

At the end of ten days, the sows are back on full feed. At weaning time, they are still in swell shape . . . holding a lot of condition and giving plenty of milk.

Schwope's pigs get Purina Sow & Pig Chow until they weigh from 100 to 125 pounds. From here to market they get Purina Hog Chow and grain. As was mentioned before, Schwope's hogs weighed 200 pounds or better at 5½ months. This fast gain allows him to market his hogs early, ahead of the big runs, for high prices.

The future looks good for the Kenneth Schwopes. Their small son, Richard, already likes to help daddy. With a teacher like Kenneth, he should be another "crackerjack" hog raiser before long.



Like the spring shoats which weighed forty-seven pounds at 9 weeks, these fall pigs will be real heavyweights at weaning.

FOR THE LATEST NEWS and FARM FEATURES
listen to these
CHECKERBOARD RADIO PROGRAMS

WIBW, Topeka — Wes Seyler with Noon Markets, Mon. thru Sat., 12:20 p.m.
Wes Seyler "Sunday Farm Forum," Sun., 8:00 a.m.

KFH, Wichita — Bruce Behymer, Mon. thru Fri., 6:15 a.m.

KMBC, Kansas City — Ken Parsons' Farm Feature, Mon. thru Sat., 6:10 a.m.



PURINA CHECKERBOARD NEWS

It Took 1028 Tests But We're Getting Bigger Chicks, Pullets

Miracle growth promoters combined into Formula "1028" now added to Purina Startena and Growing Chow

Discussions dealing with miracle growth promoters described as Antibiotics, Vitamin B₁₂ Supplement (formerly APF), and Growth Vitamins are confusing. Only highly trained research scientists can understand much about them. Yet, your chicks, pullets, poults, broilers, pigs, etc., can't make maximum growth without them.

Now, after a total of 1028 feeding tests in Purina Laboratories and at the Purina Research Farm a new combination, "Formula 1028" for poultry is perfected. 571 tests resulted in a perfected formula for poults. Still other tests conducted in similar detail resulted in special formulas for pigs, for growing pullets, and for broilers.

The Antibiotics, Vitamin B₁₂ Supplement and Growth Vitamins are very complex in their action. Chicks respond best to one combination; poults to another; pigs to another, etc.



Whis Millhollen makes thousands of individual weighings in conducting these tests

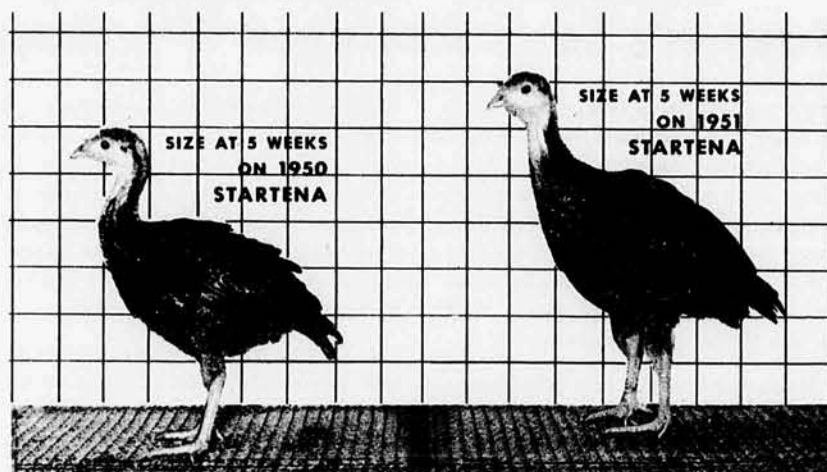
The illustration shows growth contrast on poults resulting from the new formulas perfected through 571 poult feeding tests. Growth results on the new formulas for chicks, pullets, broilers and pigs are similarly startling.

Without Purina's background of knowledge gained from these

feeding tests, mistakes might easily have been made that would be costly to our feeders.

★ ★ ★ ★

Your Purina dealer will be showing a film that tells an exciting story about Formula "1028." Ask him for an invitation.



POULT RAISING HINTS...



By JOHN HOFF
Purina Turkey Field Specialist



Your hopes are pinned on a profit from every poult, but profit chances die with the loss of each poult.

Don't give disease a chance. Be ready when your poults come. Scrape and sweep brooder house and equipment clean, then scrub with Purina Disinfectant. Wait 'til house is dry before poults go in.



Don't guess about the heat. Hang up a thermometer and make sure the temperature is 90°-95° at first. Lower 5° per week. Too much heat is as dangerous as too little.



Give 'em fresh air. As birds grow, open the house for ventilation. Open windows or vents on one side, but avoid floor drafts. It's necessary to let excess heat out and to let fresh air in.

HOME HANDIES

Keep an extra pair of clean cotton work gloves near your freezer to save your hands when taking foods out, rearranging, or putting foods in the deep freeze.



It's easy to do a professional pressing job if you remember that pressing means setting the iron down and lifting it up, never moving it to and fro across the material.



Here's an unusual—and welcome—way to wrap your gift for a baby shower. Instead of paper, wrap the gift in a diaper, fasten it with safety pins, and decorate it with a tiny rattle.

EGG FUTURE LOOKS BRIGHT FOR 1951...

A looming egg shortage points to exceptional profit opportunity for those whose birds are ready.

Government figures released December 1 showed the following startling situation:

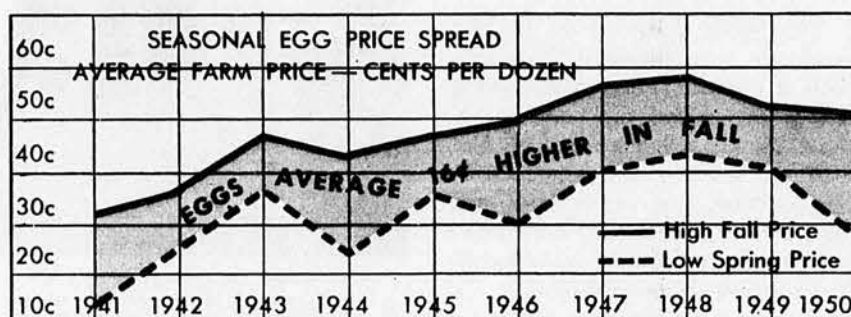
1. Only 58,000 cases of shell eggs in storage as against 250,000 cases on hand one year ago. This was the smallest number of eggs in storage since 1916. Average for the past 5 years was 710,000 cases.

2. 18,000,000 fewer layers than a year ago. There were only 438 million hens and pullets (potential layers) on farms as against 456 millions last year, and a 5 year average of 466 millions.

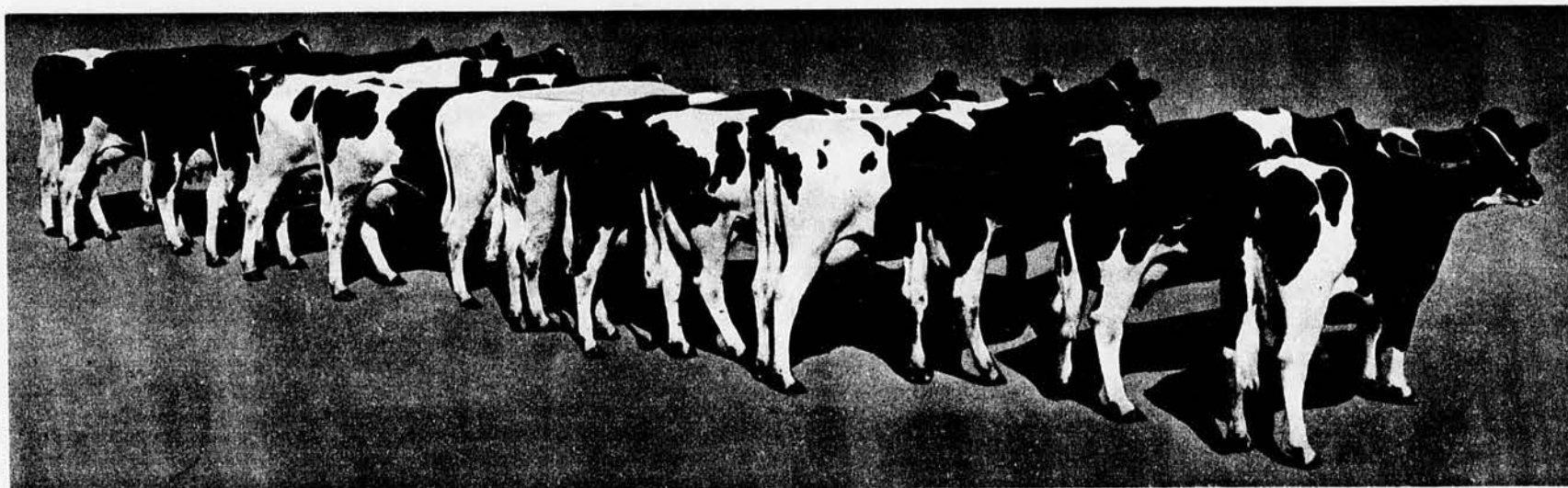
3. Eggs at their peak in December brought 22.4 cents more per dozen than at their low point in May.

4. The gain in price from low in the spring to high in the fall has never been less than 10 cents per dozen. Usually it is much more.

Instead of worrying about what eggs will bring next fall, wise poultrymen are ordering chicks for immediate delivery, and are making plans to properly grow their pullets. They want to be ready with eggs to sell while prices are best.



PURINA CHECKERBOARD NEWS



14 FIRST-CALF HEIFERS AVERAGE 404 LBS. FAT

In the whole year of operation, the heifers on most farms come in for less attention than any other dairy animal. This is natural, because heifers "cost"—they don't "pay."

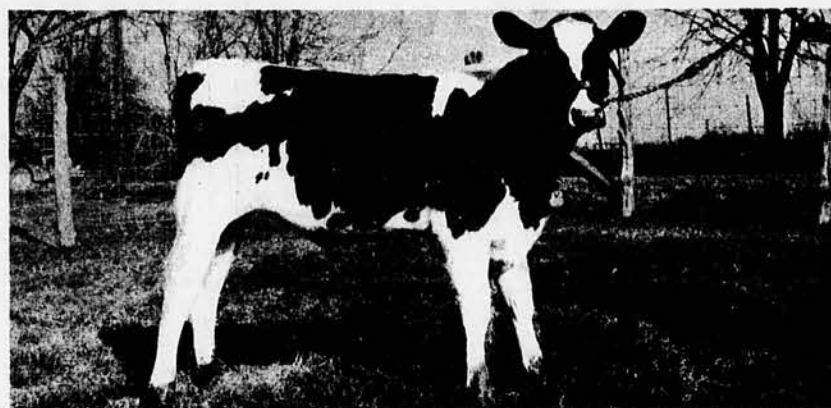
Yet research work at the Purina Farm has consistently shown that a small amount of feed and care given the growing stock will "pay" high profits in earlier calving, and in more milk during the first lactation. At the Purina Farm in 1948 we put 14 grade Holstein heifers into the milking herd. Without any special pampering at all, they averaged 404 lbs. fat apiece during their first milking years. All records are 10 months long.

That's an average of 4 gallons per head—almost half a can—a day for the full 10 months! Yet these heifers calved averaging only 24 months old!

The secret of their success is that they were BIG—weighing an average of 1244 lbs. per head at two years old. All it takes to grow them big is reasonably good hay or pasture and 3 pounds a day of a mixture of $\frac{1}{2}$ oats or barley, $\frac{1}{2}$ Purina Bulky Las or D & F Chow Supplement. This special body ration is increased to 10 to 12 pounds a day for the last 3 months before calving. The extra feed at this time is necessary to keep the heifers growing while developing their calves.



The best way to grow a good heifer is to start with a well-developed calf. We can grow a bigger, hardier calf on dry Calf Startena than we can with milk.



Purina Farm heifers are bred by weight (750 pounds for Holsteins, 550 for Guernseys). They grow fast, usually reach these weights by 13 to 15 months.

SAVE A CALF...



By E. B. PRATT
Purina Dairy Field Specialist

Heavy calf mortality has caused the downfall of many a prospective dairyman. Each heifer calf represents a future milker. Consider her loss a calamity that should have been prevented.

Let Calves Suck At Start



The first milk is laxative, and supplies essential vitamins which help build disease resistance. Let calves suck for 3 days.

Pen Calves Separately At First

After being penned separately for 10 days several calves can be safely turned together in a larger pen or room.

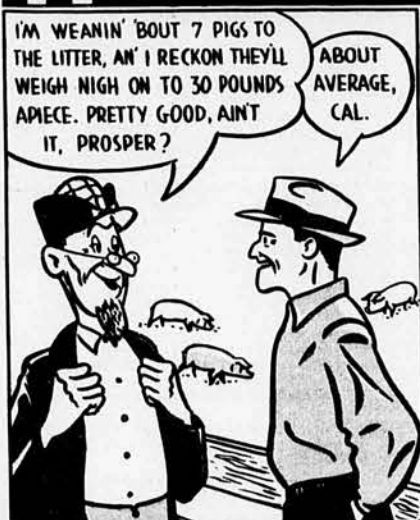


Teach To Eat Calf Startena



Teach calves to eat Calf Startena along with a limited amount of whole milk. After the 4th week feed no more milk.

CALAMITY CAL...



PURINA CHECKERBOARD NEWS



Wes Seyler Brings You Farm Markets and Farm Forum on WIBW

Efficient marketing is a basic principle of successful farming and live-stock raising. That's a common "rule of thumb" today among farmers and stockmen. To assist you in doing an efficient job in marketing your farm products, Purina and your neighborhood Purina Dealer are now presenting the MARKET REPORTS featuring Farm Editor Wes Seyler each Monday through Friday from 12:20 to 12:30 p.m. on WIBW, Topeka.

The MARKET REPORTS with Wes will keep you posted on the

latest market news and quotations. You'll like the easy-to-follow manner that Wes uses in describing the markets so that you can quickly get the picture on current farm product price trends.

FARM FORUM, a round-table review of today's farm problems, is another Purina service feature, conducted by Wes Seyler. Be sure to listen to FARM FORUM presented by Purina on WIBW, Topeka, each Sunday morning at 8 o'clock.

CUSTOM MIX MIKE SEZ:

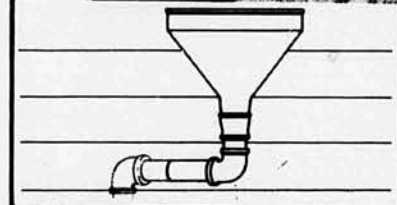
WHAT A DIFFERENCE NOW IN BOSSY-GIVES MORE MILK AND HAIR COAT'S GLOSSY-COW CHOW MIXED WITH HOME-GROWN GRAIN HELPED THE HERD TO MAKE A GAIN. THE OWNER SAYS 'THIS PLAN IS GREAT YOU CAN'T BEAT GRAIN PLUS CONCENTRATE!'

FARM HANDIES

Waste Water Piped Off Through Overflow Funnel

Edgar S. Alderson, Kingman, Ind., installed a handy overflow funnel in the upper floor of his laying house. This way water used to wash fountains can be easily carried outside the building.

A gravity flow water tank is suspended in the barn loft. It is filled with an electrically operated pump.



Home-made Pig Brooder Is Also Guard Rail

This pig brooder, "home-made" by W. P. Moore, Higginsville, Mo., costs just a little over \$3. A light socket is fitted into the bottom of a metal can. The can is set down through a hole in the top of the triangular brooder and rests on hardware cloth nailed on the inside.



YOUR PURINA DEALER

IS HEADQUARTERS FOR GOOD CHICKS AND SUPPLIES

PURINA STARTENA

GOOD CHICKS

PURINA DISINFECTANT AND CHEK-R-TABS

FEEDERS AND FOUNTS

KANSAS

ABILENE, Gordon Mark Elevator Co.
ALMA, Schulte Produce
ANDALE, Andale Farmers Elevator
ANDOVER, L. S. Dock
ANTHONY, Thurman Hatchery
ARGONIA, Botkin Grain Co.
ARKANSAS CITY, Airbuckle's Hatchery & Feed Co.
ASHLAND, Wallingford Elevator
ATCHISON, Berry Bros. Hatchery
ATTICA, Imperial Flour Mills Co.
AUGUSTA, Furlong Hatchery & Feed
BALDWIN CITY, Hardy Farm Supply
BAXTER SPRINGS, Gaines Feed Store
BELLE PLAINE, Halls Produce & Feed
BELLEVILLE, Hall Mill & Elevator
BELoit, Jones Feed & Seed Co.
BONNER SPRINGS, Coleman Coal & Feed Co.
BURLINGTON, Salsby's Feed & Seed Store
BURTON, Hensley Oil & Feeds
CANEY, Halligan Feed & Produce
CARBONDALE, Surber Grain Co.
CEDARVALE, L. C. Adam Mercantile Co.
CHANUTE, Farm Service Store
CHANUTE, Floyd R. Potter
CHENEY, Ball Produce & Hatchery
CHERRYVALE, Cherryvale Grain Co.
CHETOPA, Karns Grain Products Co.
CLAY CENTER, Gordon Mark Elevator
CLEARWATER, Hugh R. Wilk
CLYDE, Derousseau's Hatchery
COFFEYVILLE, C. C. Feeders Supply
COLUMBUS, Columbus Hatchery
CONWAY SPRINGS, Farmers Union Coop. Assn.
COTTONWOOD FALLS, Schoap Poultry & Egg Co.
COUNCIL GROVE, Powell's Feed Store
DENISON, Farmers Elevator
DODGE CITY, Casterline Grain & Seed, Inc.
DOWNEY, Dwight Feed Co.
EDGERTON, Edgerton Grain Co.
EDNA, Edna Produce
EL DORADO, The Home Grain Co., Inc.
ELK FALLS, O & B Oil Co.
ELKHART, Elkhart Coop. Equity Exchange
ELLIS, The Wheatland Elevator
EMPORIA, The Kansas Soya Products Co., Inc.
ESBON, Esbon Feed & Seed Co.
ESKRIDGE, Converse Farm Service Co.
EUREKA, C. T. Agrelius Feed Co.
FONTANA, Barnes Feed & Seed Store

FORD, Security Elevator Co.
FT. SCOTT, Chas. Leist Feed & Seed Co.
FT. SCOTT, National Coal, Ice & Fuel Co.
FRANKFORT, Kenro Hatchery
FREDONIA, Cox Produce & Grain Co.
GARDEN CITY, Western Terminal
GARDNER, Gardner Grain Co.
GARLAND, Pfeiffer Produce
GARNETT, A. H. Fawkes & Sons
GAS CITY, Goodsell Hatchery
GIRARD, Potter's Hatchery
GREAT BEND, Barton County Hatchery
GREELEY, Rommelfanger Produce
GREENSBURG, Security Elevator Co.
HAMMOND, Bruce General Mdse.
HARPER, The Imperial Flour Mills Co.
HARVEYVILLE, Harveyville Grange Coop. Bus. Assn.
HAYS, Engel Electric Hatchery
HERINGTON, Wilkerson Grain Co.
HIAWATHA, Wolf Feed & Grain Co.
HIGHLAND, The Derrick-Hischke Farm Supply
HILLSDALE, Fessenden Grain Co.
HOLTON, Farmers Union Coop. Assn.
HOPE, The Farmers Coop. Elev. & Sup. Co.
HUGOTON, Security Elevator Co.
HUMBOLDT, Dale's Feed Store
HUTCHINSON, Orth's Feed & Seed Co.
HUTCHINSON, Salt City Hatchery
HUTCHINSON, Security Elevator Co. B.
INDEPENDENCE, Star Mill Co., Inc.
IOLA, Art's Feed Store
IONIA, Ionia Produce
JUNCTION CITY, Hart Bartlett Sturtevant Grain Co.
KANSAS CITY, Crawford Hatcheries
KANSAS CITY, Dyer & Co.
KANSAS CITY, Kansas Avenue Merc. Co.
KANSAS CITY, Kelley Feed Store
KANSAS CITY, Midwest Hatchery
KANSAS CITY, State Ave. Merc. Farm Store
KANSAS CITY, Frank Wells Feed Store
KANSAS CITY, KANS., Kelley Feed & Seed, 740 Kansas Ave.
KANSAS CITY, KANS., Park Junction Feed Store, 1905 N. 5th St.
KENSINGTON, Levin Bros.
KINGMAN, Goenner Hatchery
KIOWA, Curran Hatchery
LA CYGNE, Farmers Produce
LANE, Gerth's Breeder Hatchery
LAWRENCE, Cadwell Hatchery
LAWRENCE, Douglas County Hatchery

LEAVENWORTH, Hibbs Farm Service
LEBO, Lebo Grain Co., Inc.
LENEXA, Jennings Feed & Coal Co.
LEOTI, Herb J. Barr & Sons Grain & Supply Co.
LIBERAL, Security Elevator Co.
LOGAN, The Logan Grain Co.
LOUISBURG, Owens Feed & Produce
LYONS, W. S. Dayton Hatchery
MACKSVILLE, Kansas Milling Co.
MAIZE, Maize Mills, Inc.
MANHATTAN, Johnson Feed & Seed
MARION, Seymour Packing Co.
MARQUETTE, Rodney Milling Co.
MARYSVILLE, Mak's Marysville Hatchery
MAYETTA, Farmers Union Coop. Assn.
McLOUTH, McLoth Grain Co.
McPHERSON, Community Produce
McPHERSON, Hilltop Turkey Farm & Hatchery
MEDICINE LODGE, Kansas Milling Co.
MERRIAM, Merriam Feed Store
MICHIGAN VALLEY, Bulmer Grain Co.
MINNEAPOLIS, Golden Rule Hatchery
MONTEZUMA, Security Elevator Co.
MONUMENT, Wheatland Elevator
MORAN, Louie Benbrook Produce
MORSE, Morse Grain Co.
MOUND CITY, Ward Produce
MOUNDVILLE, Moundville Coop. Elev. Assn.
MULVANE, Moore Grain Co.
MUNICE, J. E. Puett
NEODESHA, Shacklett Hatchery & Feed
NEWTON, Berry's Feed & Supply Store
NICKERSON, Farmers Coop. Elevator Co.
NORTON, N. L. Johnson Grain Co.
OAKLEY, Wheatland Elevator
OBERLIN, Earl C. Wilson & Sons
OLATHE, Farmers Coop. Union
OSAGE CITY, Lafferty Grain & Produce Co.
OSAGE CITY, Steinhoff & Son
OSAWATOMIE, Osawatomie Feed & Produce Co.
OSKALOOSA, Oskaloosa Feed Store
OSWEGO, Karns Grain Products Co.
OTTAWA, Ottawa Produce Co.
OVERLAND PARK, Jennings Feed & Coal
PAOLA, Washburn Hatchery
PEABODY, Peabody Coop. Equity Exchange
PENALOSA, Kansas Milling Co.
PERRY, Heck & Seyler
PIQUA, Niemann's Store
PITTSBURG, The Potter Hatcheries

PLEASANTON, Pleasanton Mill & Elevator Co.
POMONA, Pomona Feed Store
PORTIS, Walter's Lumber Co.
PRATT, Pratt Equity Exchange
PRETTY PRAIRIE, Security Elev. Co.
PROTECTION, Park Hatchery
RICHMOND, Farmers Home Coop. Merc. Society
SABETHA, Sabetha Coop. Produce Co.
ST. MARYS, Farmers Union Coop. Assn.
SALINA, McMinn & Tanner Feed & Produce
SCOTT CITY, Durrant Seed & Supply Co.
SEDAN, Sedan Seed House
SEDFWICK, J. O. Coombs & Son
SHAWNEE, Shawnee Hatchery
SPRING HILL, Zwellmiller Feed & Produce
STAFFORD, Stafford Hatchery
STANLEY, Boyd & Maelzer
STERLING, Sterling Feed & Seed
STILWELL, Stilwell Feed & Coal
STOCKTON, Bouchey Grain Co.
THAYER, Potter's
TOPEKA, Emery T. Shimer Feeds & Seeds
TOPEKA, J. R. Shimer
TRIBUNE, South Side Service
TROY, Winzer Hdwe.
TURON, Turon Hatchery
VALLEY CENTER, Valley Center Farmers Elevator Co.
VALLEY FALLS, Reichart Elevator
VIRGIL, Virgil Feed & Coal
WAKEENEY, The Wheatland Elevator
WATERSVILLE, Wagor Produce
WATHENA, Wathena Hatchery
WAVERLY, J. R. Baxter Produce
WELLINGTON, Newell's Feed Store
WELLSVILLE, Averill Produce
WHITE CITY, White City Grain Co.
WHITEWATER, Whitewater Hatchery
WICHITA, C. Ball Feed Co.
WICHITA, Berry's Hatchery & Feed Store
WICHITA, Capital Feed & Seed Co.
WICHITA, Kellogg Brothers Feed & Seed
WICHITA, Maxwell Feed & Hatchery
WILLIAMSBURG, Williamsburg Produce
WILSEY, F. S. Riegel
WINFIELD, Wallace Feed Store
WINONA, Wheatland Elevator
WOODBINE, Reed's Store
YATES CENTER, Yates Center Elevator Co.
ZARAH, Zarah Grain & Elev.
ZENITH, The Zenith Cooperative Grain Co.

Irish Cobbler One of Best For Kansas Gardens

By W. G. AMSTEIN, Kansas State College

IT IS or soon will be Irish potato planting time. Consider them an important part of your home food-production program. In a few Kansas communities, commercial Irish potato growing is still of importance.

Planting the Irish potato crop early is a point too many gardeners neglect. Conditions that favor good, rapid growth and early maturity need to be emphasized. Remember, the Irish potato is a cool-weather crop that under Kansas conditions does best when planted as soon as conditions permit in March or early April. Hot, dry weather in July requires early-maturing varieties.

Irish Cobbler still is one of the best varieties for Kansas. It has deep eyes that require a little more time to prepare them for table use, but it yields as well or better than any other commonly available variety. Storage results also are satisfactory. Cooking quality of the Cobbler is better than most other varieties—a point too often neglected in recent years.

Red Warba is in first place in Kansas as a commercial variety. Early maturity and a red skin have helped give it a market premium in many Midwest cities during our shipping season. Red Warba is now planted by many farm families as their principal variety. Some object to it because of a tendency to overset in a wet season. It does not store quite as well as the Irish Cobbler and should be used first if both grown.

Not too many newer varieties seem to deserve much attention. White Cloud is a new variety of Irish Cobbler type, developed by Dr. H. O. Werner, University of Nebraska. It has shown to advantage in limited tests in Kansas.

Use of certified Irish potato seed is important. A large supply of high-quality certified seed is available this year. Certified seed should be used wherever possible instead of ordinary seed. None of us can tell by appearance whether seed is free of disease since

many diseases do not show on surface.

The statement too often found on the tag, "Grown from certified seed," should not be misread to mean it is in turn certified seed. Be sure you obtain certified seed. A sack of certified seed will have a seal still in place where the sack is sewed up. Also a blue tag (usually) with the grower's name and name of the state agency that did the inspection will be in place.

Seed treatment also is desirable even where certified seed is used. A commercial product known as "Semesan Bel" is a convenient material to use to treat one or two sacks. Directions on the package should be followed.

Warning! Be Careful With This

The acid corrosive sublimate treatment is another often used. For this method, have your druggist weigh out ½ ounce of corrosive sublimate and 2½ ounces of commercial hydrochloric acid. Add this mixture to 2 gallons of water in a 5- or 10-gallon wooden or stone crock container when you are ready to treat the seed. Do not use a metal container. Remember corrosive sublimate is a poison. Treat 10 minutes.

Seed pieces 1 to 1½ ounces in weight, blocky and have at least one eye are most useful. While space between rows will be based on your cultivation equipment, rows can be as close as 30 inches. Seed pieces can be 12 inches apart in row. If planting early in season, cover seed 3 to 4 inches. In late-season planting, a 2-inch cover is often enough.

A sandy loam piece of ground of above average fertility supplied with organic matter and well drained is best. Phosphate fertilizer has paid good returns in increasing both yield and quality of Irish potatoes. One pound of a 20 per cent or ½ pound of a 45 per cent phosphate fertilizer can be used to 100 feet of row. One and one-half pounds of a 5-10-5 or 6-30-0 can be used in place of the phosphate. Mix fertilizer in furrow before planting seed potatoes.

Fertilizer on Wheat Boosts Reno County Yields

AN INVESTMENT of \$1 in fertilizer returned \$6.50 in additional wheat yield on at least 2 fertility test plots in Reno county. And that happened with the last wheat crop that suffered from dry weather until extremely late in the season.

An application of 80 pounds of ammonium nitrate and 65 pounds of 45 per cent superphosphate made in fall on the Clinton Trostle farm, near Nickerson, produced a yield of 40½ bushels an acre. The check plot produced 22.3 bushels. An investment of \$5.34 an acre returned \$35.10 in additional wheat yield. Each dollar spent for fertilizer accounted for \$6.57 in wheat.

Where alfalfa had preceded the wheat on the Wilbur McGonigle farm, Nickerson, only application was 80 pounds of 45 per cent superphosphate. Yield was 49.3 bushels compared to 39.7 bushels in the check plot. Fertilizer material cost was \$2.88 an acre against an increase of \$18.72 an acre yield. Each fertilizer dollar returned \$6.50 in wheat.

But even where prolonged dry weather threatened the crop, applications of nitrate and phosphate in combination produced economical increases in yield. On the John Reece farm, Langdon, fertilizer costing \$5 an acre returned \$8.97 more wheat an acre. An application costing \$6.45 an acre on

the Wesley Nunnemaker farm, Langdon, produced an increase worth \$12.28 an acre. On the James Glass farm, Hutchinson, \$6.45 in fertilizer returned \$8.45 in wheat.

Interesting results also were obtained in the correlation plots. Extreme amounts of fertilizer are used in these tests for observation purposes. In rather heavy soil on the H. R. Dick farm, Buhler, yield without fertilizer was 21.9 bushels. Heavy applications of phosphate and potash produced no increase. But with nitrogen, phosphate and potash in a 100-100-100 combination, the yield was 37.9 bushels. With only nitrogen and phosphate in a 100-100-0 combination, yield went up to 41.4 bushels an acre. Those yields tended to uphold soil test predictions. Organic matter content was low showing a nitrogen deficiency. Phosphate level was low, too, but potash high.

Similar results were obtained from the correlation plots in a little lighter type of soil on the Lewis Campbell farm, Nickerson. But in sandy soil on the Vernon Krehbiel farm, Pretty Prairie, yield increases were slight even with heavy applications. That was a dry area in spring and went without redeeming showers late in the season. However, this test tended to prove fertilizer in itself does not cause burning of crops in dry weather.

Men of Sixty

By CHARLES H. LERRIGO, M. D.

There was a day when 60 was definitely the old-age gate. "Leave hope behind, etc." Our twentieth-century standards make nothing of it. Sixty is the prime of life. As a physician I must warn you that when 60 comes there are certain matters of adjustment to be considered. My special letter, "Hints for the Man of Sixty," gives you interesting details. Anyone desiring a copy should send his request, with an envelope addressed to himself, and bearing a 3-cent stamp, to Dr. C. H. Lerrigo, Kansas Farmer, Topeka, Kan.

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GRANITE CITY STEEL

Kansas Farm Home and Family

FLORENCE McKINNEY, Editor



FRIED CHICKEN BARBECUE: It's right for family-style and convenient for serving a crowd.

drizzle the mixture over each piece of chicken.

5. Place the pans of chicken in a moderate oven (350° F.) and continue cooking until chicken is tender, 30 to 40 minutes. Turn once to crisp evenly. During the cooking more broth or milk may be drizzled over the chicken if it appears dry. Test for doneness with a fork. Serve hot or cold.

Fried Chicken Barbecue

To make barbecued chicken, cook in the oven as given above, but use the following barbecue sauce instead of the butter-and-milk mixture.

- | | |
|------------------------|----------------------|
| 1 teaspoon salt | 1 medium onion, |
| ½ teaspoon pepper | chopped fine |
| 1 tablespoon paprika | ½ cup water |
| 1 tablespoon sugar | ½ cup lemon juice or |
| ½ teaspoon garlic salt | vinegar |
| or ½ garlic clove | 1 tablespoon Worces- |
| 1 cup catsup | tershire sauce |
| | ¼ cup butter |

Blend salt, pepper, paprika and sugar. Add garlic, catsup, onion and water. Heat to boiling. Remove from heat and add remaining ingredients. Makes 2½ cups. Drizzle over the chicken with a spoon before placing in the oven. Repeat with the liquid if the chicken becomes dry while cooking.

Fried - Broiled - Roasted

It's CHICKEN

the Year 'Round

EVERYBODY likes chicken, fried, barbecued, broiled and roasted. But until a few years ago serving fried or broiled young chicken was limited to a few summer months . . . the season for young chickens was over quickly.

Today, raising chickens is a specialized industry and as a result young tender chickens may be served from home freezer, locker or bought from your favorite grocery store any day.

Here, we offer you new ways of serving chicken, something different and right for your own dining table as well as a large crowd.

Oven Fried Chicken

This method is fine for your own family serving one chicken, but is a great timesaver when 2 or more chickens are to be prepared. It is sometimes called "banquet-style" chicken for that reason. It's just right for the church or community supper.

For each 2 pounds of chicken, make a seasoned flour as follows:

- | | |
|---|-------------------|
| ½ cup flour | 1½ teaspoons salt |
| 2 teaspoons paprika | ¼ teaspoon pepper |
| ¼ teaspoon poultry seasoning (optional) | |

Put all ingredients in a paper bag and shake. Then proceed as follows:

1. Coat chicken several pieces at a time, by placing in bag and shaking.

2. Brown pieces of chicken on both sides in at least ½-inch layer of fat in a heavy skillet.

3. Place browned chicken one layer deep in shallow baking pans.

4. For each chicken prepare a mixture of 2 tablespoons of melted butter and 2 tablespoons of chicken broth or milk. With a spoon

Smothered Chicken

- | | |
|-----------------------|----------------------|
| young chicken, 3 or 4 | ½ cup flour |
| pounds | ½ cup fat |
| 1½ teaspoons salt | 2 cups cream or rich |
| ¼ teaspoon pepper | milk |
| ¼ teaspoon ginger | ¼ pound sliced |
| ¼ teaspoon poultry | mushrooms |
| seasoning | |

Cut chicken as for frying. Coat chicken with mixture of the salt, pepper, ginger, poultry seasoning and flour. Cook chicken in hot fat in heavy skillet until golden brown. Place pieces in casserole. Sprinkle any remaining flour mixture over the chicken. Heat cream to boiling, add sliced mushrooms and pour over chicken. Cover and bake in moderate oven (350° F.) until tender, 1 to 1½ hours. Makes 6 to 7 servings.



FRIED IN OVEN: Browned in skillet, it's drizzled with butter and milk and finished in oven.

Great news from Procter & Gamble for every woman who washes clothes

No matter what soap you're now using, **cheer**[®] guarantees you a cleaner, whiter wash!

You're probably using a perfectly good soap now. But because new CHEER is, beyond question, an important improvement in washing products, you owe it to yourself to try new CHEER—at least once.

And the very first time you *do* use it, you'll see, at every washing step, how new CHEER works to give you a cleaner, whiter wash than *any* soap you ever knew.

Next washday, you be the judge!

1. Prove Cheer's Guarantee—IN YOUR WASHING MACHINE!

New CHEER is the grandest help a woman ever had to do her wash. Thick, long-lasting suds spring up in a flash . . . work to remove not only toughest, greasiest dirt, but *also* the dulling film left on clothes by soap-washings! No water softeners needed!

2. Prove Cheer's Guarantee—ON YOUR WASHLINE!

You'll rinse and wring out a wash so clean and white it fairly *shimmers* on the line. Clothes dry so soft and fluffy, so fresh and sweet smelling, you'll want to *hug* them! And new CHEER is safe for colored washables, kind to hands.

3. Prove Cheer's Guarantee—ON YOUR IRONING BOARD!

Your clothes iron beautifully—gleam white and bright. CHEER leaves no film to yellow under the iron's heat! Your clothes are cleaner, whiter than *any* soap will get them! CHEER guarantees it—or your money back!

SAVE SHOPPING TIME! Get CHEER in the Giant Economy-size package.

Try Cheer once...and you'll Cheer forever!

**P.S. Wonderful for
NO-RINSE WASHING, too!**

If you wash without rinsing, no washing product on earth can give you a cleaner wash than CHEER. CHEER will give you the cleanest no-rinse wash that it's possible to get.

cheer

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"Clothes dry so fresh
and sweet smelling
you'll want to hug them!"

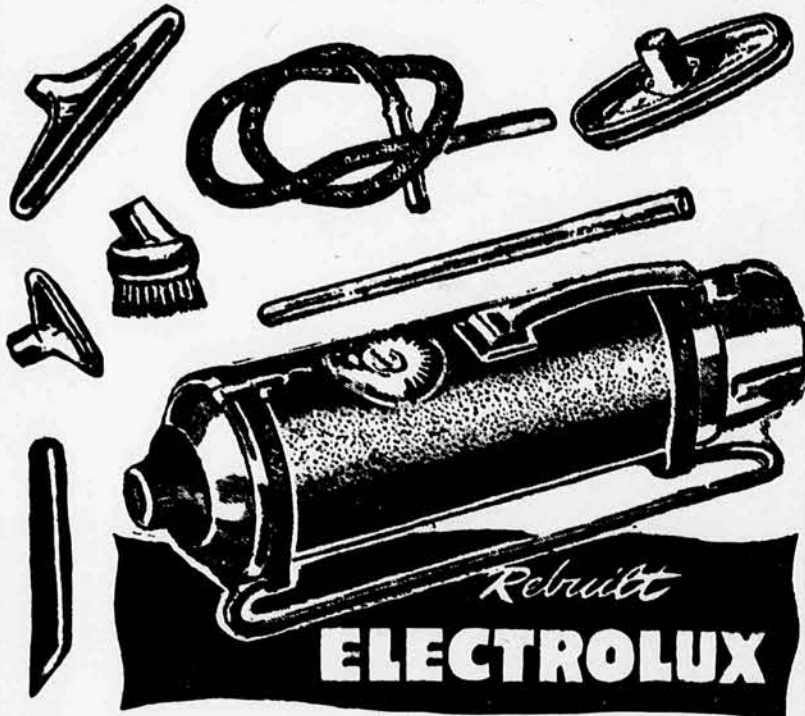


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Dear Sir:

I am interested in a FREE Home Demonstration of a Rebuilt Electrolux Cleaner, complete with Attachments.

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KF 3-17

RESULTS PROVE THEIR VALUE

As a result of the better breeding program of the Kansas Poultry Improvement Assn. it now takes only two hens to produce as many eggs as three hens produced in 1925. Turn to the classified pages for more details on this poultry program.

3% SAVE BY MAIL

NOW—let your idle funds be earning a LIBERAL dividend. We've been paying at least 8% on savings for 20 years.

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UNITED BUILDING AND LOAN ASSOCIATION

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Be Sure to Give Chicks
GERMOZONE

The Liquid Drinking Water Medicine
Effective antiseptic action destroys many germs—helps keep drinking water pure. So safe for the chicks it can be used day after day in your prevention program.

At your local Lee Dealer.
The Line of Quality... Since 1895

GEO. H. LEE COMPANY
Omaha 8, Nebraska



47 40
SIZES
12-20
40

Spring Thru Summer



9065
SIZES
2-8

4740—Smooth-fitting dress with deep-cut petal neckline. Sizes 12 to 20 and size 40. Size 16 takes 3 3/4 yards of 35-inch material.

9065—Ensemble for active games or party wear. Skirt buttons for sunsuit. Sizes 2 to 8. Size 6 ensemble takes 2 7/8 yards of 35-inch material.

9204—Five aprons in this pattern, each gaily trimmed. Sizes small, medium, large. Small takes 1 1/4 yards and 1 yard contrast of 35-inch material.

Five Aprons!

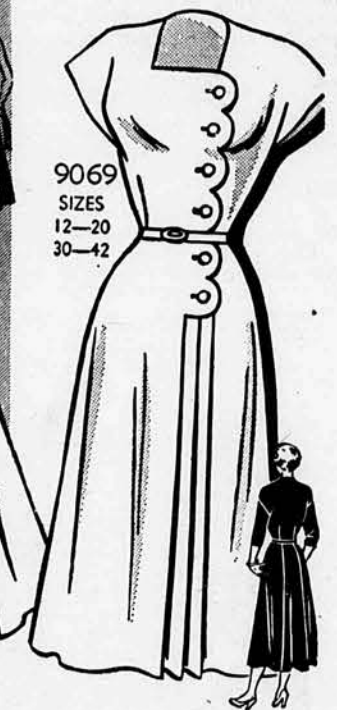
9204
SIZES
S-14-16
M-18-20
L-40-42



46 48
SIZES
34-50



4689
SIZES
12-20; 40



9069
SIZES
12-20
30-42

9069—The sideline is the best line for spring. Here it's done with scallops and pleats. Sizes 12 to 20 and 30 to 42. Size 16 takes 3 3/4 yards of 39-inch material.

apron. Sizes 12 to 20 and size 40. Size 16 takes 3 3/4 yards of 35-inch material.

4648—Scale your figure down with panels and soft lines. Sizes 34 to 50. Size 36 takes 4 3/4 yards of 35-inch material.

4689—Wrap it on for a sundress or

Pattern Numbers	Size	Name
		Route
		Town
		State

Send 30 cents for each pattern to Fashion Editor, Kansas Farmer, Topeka. Use coupon above.

News To You?

IT IS better to brush carrots with a stiff brush than to peel. It saves both time and the vitamins.

Stuff rubber overshoes and galoshes with newspapers for the summer so they will not wrinkle and eventually crack.

Narrow shelves just deep enough to hold one row of utensils or packaged goods, make an orderly kitchen. They save time and tempers for there need be no searching or moving of equipment to find what is needed.

Perhaps you are tired of canned string beans. To vary the flavor try a hint of nutmeg or finely chopped onion, onion salt, lemon juice with a little bacon drippings or a little mustard.

Another conclusion arrived at by one experiment station was that advertising material more often caused these women to try new dishes than educational material and educators.

When planning your new garden, consider having a variety thruout the entire growing season. Plant more than one variety of some vegetables and at different times so there will be continuous harvesting and eating.

Don't keep your finest pictures in the dark! Trim, little portable lighting units may be placed beneath your best picture, over the mantel for instance, and they will enhance the beauty of the picture no end!

Plain shades will look well when lamps are placed near figured draperies

or near walls with paper of pronounced design.

When you serve a new food to a small child just learning to eat various foods, serve them with old stand-bys, a little at a time and give him a chance to become used to the new flavor.

An empty aspirin box is just right for the razor blades you may want to keep in your sewing box. Good protection from accidental cuts, too.

Parsnips are delicious when creamed and sprinkled with grated cheese. Always peel and remove the core if it is woody.

Associate with people who are successful and happy. Attend at least one social affair each week. Call on your neighbors and go to church. These are simple ways toward personality development.

Since nylon is super-elastic, it is advisable to use nylon thread. Cotton and silk thread on nylon differs in shrinkage and elasticity.

For Spanish potatoes, fry 1 tablespoon minced onion, 2 tablespoons of chopped green pepper and 2 tablespoons of chopped pimiento in 4 tablespoons of fat until the mixture is light brown. Then add 2 cups of cold boiled, diced potatoes and 1/2 cup of cold cooked ham, chopped.

Shoes make the news this spring and summer. New shoes are blossoming out in a riot of gay shades, not only red and green as in past seasons. They'll be orange, peacock blue, pale pink and every other color in the maypole.

Chicken in the Jar

HERE'S a quick, new method of canning chicken, recently developed by the Bureau of Human Nutrition and Home Economics in Washington.

Not only does this raw pack save time and work, but it produces chicken as tasty, even tastier than chicken canned by longer methods. The meat is packed raw, without even adding water. In all the tests made on 5 methods of chicken canning, this method was pronounced best—the meat is juicy, tender and flavorful. It was rated better than chicken which had been boiled in water, boiled in broth, lightly fried or browned in the oven before canning. It is not recommended for very fat chicken.

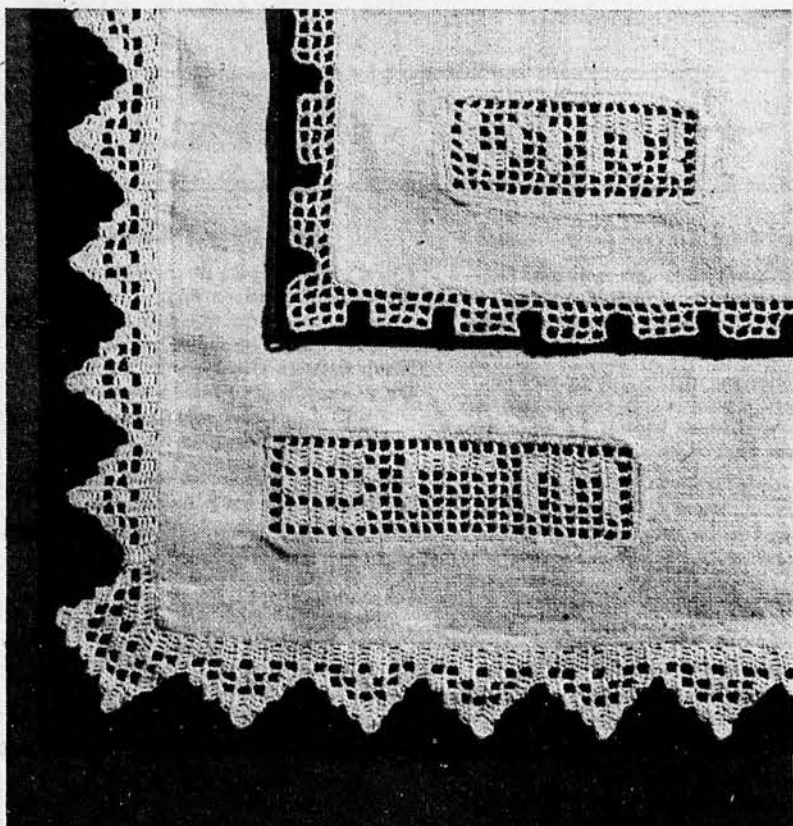
Clean and cut up chicken as usual for cooking or canning. Sort chicken

into meaty and bony pieces, setting giblets aside to can separately. Bone the breast, saw drumsticks off short if desired but leave bone in other meaty pieces. Trim off any lumps of fat.

If salt is desired, put 1 teaspoon in each quart jar. Then pack in thighs and drumsticks, with skin side next to sides of jars. In the center of jar, fit breasts and then smaller pieces where needed. Pack jars to about 1 inch of top and adjust lids.

Process in the pressure cooker at 10 pounds pressure (240° F.) for 80 minutes for quart jars. Remove from canner and complete the seal if the lids are not self-sealing. Cool jars right side up away from drafts. Check for leaks the following day and label before storing in a cool, dry place.

Initials in Crochet Insertion



Two edgings and initialed insertions for linens. Send 5 cents for leaflet No. E 150 to the Home Service Editor, Kansas Farmer, Topeka.

For Downright Delicious Flavor



the
BEST BUY
is
Butter-Nut

**COSTS LESS
PER CUP
THAN CHEAP COFFEES
THAT SELL FOR LESS
PER POUND**



THE FARM FAVORITE



"Finds new Dry Yeast easier and faster than ever"

HUTCHINSON COOK WINS 10 PRIZES AT STATE FAIR

Time never hangs heavily on Mrs. L. C. Britain's capable hands. This busy Hutchinson, Kansas, grandmother has 3 full-time hobbies—she gardens, sews and wins cooking competitions. Mrs. Britain's latest triumph came at the 1950 State Fair when she won 10 awards for her entries. A long-time Fleischmann's Yeast user, Mrs. Britain says: "I find Fleischmann's New Improved Active Dry Yeast especially good. It's

easier to use and dissolves faster than ever."

When you bake at home use yeast. The delicious goodness and wholesome nourishment of yeast-raised treats make them a top favorite. And when you use yeast—use the best—Fleischmann's New Improved Active Dry Yeast. It's easier, faster working. Get it when you bake at home—treat your family to delicious, nutritious yeast-raised goodies.

BUY UNITED STATES SAVINGS BONDS

FARM MOTHER STRICKEN WITH UNDULANT FEVER

Hospitalized three times within year

"I am lying in bed writing this letter—just arrived home after my third stay in the hospital in less than a year due to Undulant Fever. It is a terrible disease, causing pain and discomfort, weakness, nervousness and depression. My two small children don't know what it means to have a mother that is well and able to do for them. My advice to all farmers is—pasteurize your milk before you become a victim."

(Signed) Mrs. Robert I. Smith



BE SAFE Pasteurize Milk at Home

Your doctor will tell you that raw milk may contain the disease organisms that cause not only undulant fever, but also septic sore throat, typhoid fever, scarlet fever and even dreaded polio. Milk MUST be pasteurized to make it safe. It's easy to do with the HOME HEALTH unit. Automatic . . . laboratory tested . . . guaranteed.



**HOME
HEALTH**
MILK & CREAM
PASTEURIZER

**FREE
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WATERS CONLEY CO.
Dept. K-A, Rochester, Minn.
Please send me your free folder giving facts on milk borne diseases and details on the Home Health Pasteurizer.

NAME _____

ADDRESS _____

Stop Taking Harsh Drugs for Constipation

End chronic dosing!
Regain normal regularity
this all-vegetable way!

Taking harsh drugs for constipation can punish you brutally! Their cramps and griping disrupt normal bowel action, make you feel in need of repeated dosing.

When you occasionally feel constipated, get gentle but sure relief. Take Dr. Caldwell's Senna Laxative. It's all-vegetable. No salts, no harsh drugs. Dr. Caldwell's contains an extract of Senna, oldest and one of the finest natural laxatives known to medicine.

Gentle, effective relief

Pleasant, minty-flavored Dr. Caldwell's acts mildly, brings thorough relief comfortably. Helps you get regular, ends chronic dosing. Even relieves stomach sourness that constipation often brings.

Try Dr. Caldwell's. See how wonderful you feel. 25¢, 60¢, \$1.20 sizes. Get Dr. Caldwell's Senna Laxative now.

**DR. CALDWELL'S
SENNA LAXATIVE**

Pride of the Community

Garfield Presents The Messiah Yearly



GARFIELD COMMUNITY CHORUS: Mrs. Floyd Larson, director of the chorus stands first in front row at left, Mrs. Robert Schumate accompanist, at far right end.

LINDSBORG has been famous for years for its beautiful rendition of The Messiah. But the little Swedish community of Garfield, in Pawnee county, is basking in a limelight of its own. Those who have been privileged to listen or take part in the presentation of choral music, talk of it with growing and pardonable pride. It is tangible assurance to other communities who love good music, that they too can develop their hidden talents.

The Garfield community feels itself especially fortunate in having a leader of outstanding ability in Mrs. Floyd Larson, who has had experience in concert work. Concert halls are a far cry from a Kansas wheat ranch and one with less love of the enduring values of a musical career might have given up in despair. But not Ruth Leaf Larson. To her the wind from the ripening wheat fields continued to be music in a minor key . . . the majestic roll of the thunderstorms a song in major.

As she discovered many children in the neighborhood eager to learn the wonder she could teach them, either by means of instrument or voice training, it was not long before her busy days became even busier as young pupils made a path to her door.

But even this was not enough for a true musician. There always were others to be reached. Then came "The Garfield Community Chorus." Now it has become an organization with officers and responsibilities, main object the presentation each spring of The Messiah in the high-school auditorium.

Young and old alike are chosen, any-

one with a voice to offer. Palm Sunday is the date for the performance and on March 18 this year, the group will present its sixth rendition of selections from Handel's Messiah. For 2 months they have been practicing on Sunday afternoons.

From every part of the community they come, farmers, their wives, teachers, business men, members of the 3 church choirs and school children. The junior chorus, children from the fifth, sixth and seventh grades of the consolidated school, precedes the older group in an impressive introductory service.

Eligibility is considered an honor and invitations are issued from the officers. Members may recommend any interested singers. There are no dues and no obligations other than a rigid practice requirement. Two absences are questioned and a third brings dismissal. This rule has insured a regular attendance and results have paid in a pleasing and smooth performance.

A good-will offering is taken at close of the concert to defray expense of presentation. Before practice begins a banquet is held for members and their guests where plans are presented and discussed. This year membership is largest since its organization.

Garfield Community Chorus is the consummation of hours of devotion of its members, officers, the accompanists and director. It's the pride and pleasure of the community and a personal gratification to a musician who can hear melody in a ripening Kansas wheat field. —By Mrs. Ruth Blackwell.

❖ The Poet's Corner ❖

Spring Is on the Land

My thoughts they go a-wandering,
Like summer clouds they go;
And some return like summer rain,
And some are like the snow.
And some go where I long to be,
Where mossy orchards stand;
And new flowers bloom by fences old,
When spring is on the land.

Come let us walk together,
Together hand in hand;
To some far off quiet valley,
Where spring is on the land.
—By George D. Thompson.

Patches

It's spring again and marble time,
The bane of my existence,
The knees of pants, when worn by boys,
Can offer scant resistance.

I diligently mend the holes
With cloth which nearly matches,
And then, ye gods, just look at them!
They've worn right thru the patches!
—By Helen Langley.

It's My Phobia

I don't like dogs, I never did . . .
Ever since I was a kid.
They jump on me with muddy feet.
They chase bicycles in the street.
They want to climb up in my lap,
Or use my bed to take a nap,
And I don't care what you may think;
I still maintain that all dogs stink.

Why should a dog who wags his tail
At thugs bite men who carry mail?
They say the dog is man's best friend.
That well may be, but I contend
A friend ought not to eat my shoes
Or mutilate the daily news.

I know, I know, you don't agree,
But I should know, Bud, I've got
three!
—By Helen Langley.

Summer Boarders Return

Good-morning, Jimmie,
Howdy-do Jen,
So glad to see you,
J. and J. Wren.
—By Camilla Walch Wilson

Notes from the BEET SUGAR KITCHEN

by Nancy Haven



Easter Lily Cake

The dreamiest dessert you ever tasted—made of meringue layers, filled with lemon custard, topped with whipped cream.

MERINGUE LAYERS

7 egg whites
½ tsp. cream of tartar
1½ cups Beet Sugar

Beat whites till foamy; add cream of tartar; continue beating till stiff and dry. Add 2 tbsps. sugar at a time, beating until whites form sharp peaks.

Butter two 8-in. cake pans; line with 8½-in. disc of wrapping paper, pleating flat against pan sides; butter again. Divide meringue between pans; spoon in evenly. Bake in slow oven (275° F.) for 1 hour or until light golden brown. Cool slightly. (Volume decreases during cooling.)

Remove from pans, ease spatula around edge and under paper disc; peel off paper. Place first layer bottom side down on serving plate; spread with Lemon Filling, recipe below. Top with second layer; frost with sweetened whipped cream. Garnish with sliced pineapple lily. (Dip fruit in yellow-tinted pineapple juice.) For stem and leaves use thinly sliced, elongated green gumdrops or green-tinted slivers of lemon rind. Serves 6 to 8.

LEMON FILLING

8 egg yolks ¾ cup Beet Sugar
½ cup lemon juice 1 egg white
2 tps. grated lemon rind

Beat yolks till thick. Add lemon juice, rind and sugar, blend. Cook in double boiler till thick, about 10 min.; stir frequently. Fold thickened mixture into stiffly beaten egg white. Cool.

Marvelous...with Beet Sugar

Cake, pie, candy—whatever the sweet treat—it's marvelous made with Beet Sugar. For this 100%-American product is the finest sugar there is—performs to perfection in all your cooking. So use Beet Sugar. It will serve you well.

★ ★ ★

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TURN TO THE CLASSIFIED PAGES

Read about the Better Chicks produced under the Kansas Poultry Improvement Assn. requirements. Your guide for higher poultry profits.

Kidney Slow-Down May Bring Restless Nights

When kidney function slows down, many folks complain of nagging backache, headaches, dizziness and loss of pep and energy. Don't suffer restless nights with these discomforts if reduced kidney function is getting you down—due to such common causes as stress and strain, over-exertion or exposure to cold. 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. While often otherwise caused, it's amazing how many times Doan's gives happy relief from these discomforts—help the 15 miles of kidney tubes and filters flush out waste. Get Doan's Pills today!

Sugar, Beet or Cane It's the Same

Sugar from the beet and sugar from the cane are indistinguishable by the chemist, the home economist and the homemaker. In other words, sugar is sugar, whether its origin is sugar beets or sugar cane.

The sugar beet has always been associated with the western world. A German chemist in 1747 first proved that the beet stored a sugar identical with cane. The average annual per capita consumption of sugar is about 96 pounds and beet sugar provides approximately one fourth of the sugar consumed in the United States.

If your jelly doesn't jell, don't blame the sugar, it is for some other reason.

Women Give Scholarships

The Kansas Home Demonstration Council has established a scholarship fund of \$2,600 for deserving upper classwomen at Kansas State College who are planning to be home demonstration agents. Two girls, Margaret Arwood, of White Cloud, and Nancy Lee Richardson, Kinsley, are now attending K-State on such scholarships.

The council expects this will be a continuing project and a permanent fund eventually will be established.

Following an executive meeting recently, the women handed a check for \$2,100 to Dr. James A. McCain, president of the college, to be placed with the college endowment association.

Scholarships are for \$200, paid in 2 payments of \$100 each semester, according to Mrs. J. C. McKinney, Hartford, chairman of the educational committee for the council. Awards will be based on personality, leadership, service and scholarship. Applications are due April 1 and January 15.

It was the opinion of the committee a comfortable margin of money should be held in reserve. The money has been raised by home demonstration units over the state.

The Way With Eggs

Egg cookery is a bit touchy and there's one rule to follow... always cook eggs at low temperature. High temperature and overcooking toughen eggs. In dishes thickened with eggs such as custards and sauces, high temperature and overcooking cause curdling or watering. A souffle and egg-rich cakes leavened with eggs will fall if exposed to high temperatures. The crust will be tough and thick and the inside heavy and soggy.

A welcome hint on combining hot mixtures and eggs for such dishes as custards, cream filling and souffles... pour the hot mixture slowly into the beaten egg, stirring or beating constantly. With eggs, proceed carefully.

Carolyn Wins Fifth

Carolyn Fields, of Solomon, who won first in the Kansas cherry pie baking contest went on to Chicago to compete in the national. There she tied for fifth place with Marcia Vance from Colorado. Each girl baked 2 pies as they did in the state contest at Manhattan and presented the better one for judging.

The national winner was Marcheta Benton, from Chattanooga, Tenn. One of her pies was sent to President Harry Truman.

Makes New Pumpkin Pie

Crushed lemon drops folded into whipped cream add a new tart flavor to pumpkin pie. Spread the topping on the pie just before serving.

For Program Chairmen

"Grandmother's Patchwork Quilt," easy to present with little stage setting.

"Here Comes the Bride," a play requiring the bride and groom, 6 children and several singers.

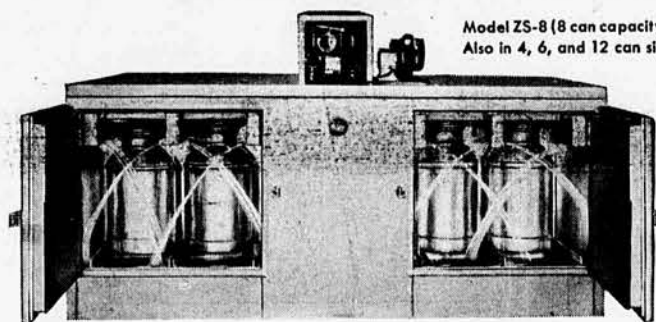
"The Rehearsal," play for school-age children, grade or high.

"So Much a Dozen," a hilarious playlet, requiring a cast of the following—photographer, bride and groom, an old maid, a family with 9 children.

We shall be glad to fill your order for any one or several of these plays. Price 5c each. Please address Entertainment Editor, Kansas Farmer, Topeka.

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Less than a 10-inch lift puts a milk can in this cooler. Other features of the Wilson Front Opening Cooler include:

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See the new Wilson Front Opening Coolers at your local Wilson dealer's. Or write to us for full information.

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Mrs. Rhoades' letter will be of utmost interest to poultry raisers. Read her experience: "Dear Sir: I think I must be one of the very first to use Walko Tablets. Some 35 years ago when I started raising chicks I saw Walko Tablets advertised as an aid in preventing the spread of disease through contaminated drinking water. I tried a package for my baby chicks with happiest results. I have depended upon Walko Tablets ever since." Mrs. Ethel Rhoades, Shenandoah, Iowa.

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Walker Remedy Co. Waterloo, Iowa

Blue Caleb The Talking Rooster!

By JOHN F. CASE

HARVEY, the invisible, talking rabbit friend of Elwood Dowd, became so famous on the stage he went out to Hollywood to make a movie. Francis, the talking mule, became known to millions thru the movies, too. Peter, Paul Bunyan's blue ox, is a legendary figure. Now comes the story of Blue Caleb, the rooster that talked. And of his remarkable owner, Gudge Ellerby.

Gudge, a slight soft-spoken man of about 50, was considered "queer" by some, and shiftless by his neighbors. For he rented out his cornland, put 60 acres in grass for beef cattle, and made frequent trips away on horse-trading expeditions. I was postmaster and eager-beaver young editor of the Bugle in Brightsville. Gudge and I found common interests, became friends.

Brightsville had a corn and poultry show, and Gudge and his wife exhibited poultry. They showed a pen of 4 Blue Andalusian hens and a strikingly handsome cock. Later he showed me a red hen of his which was big, had a coronet-shaped comb and tufts of feathers sticking out from each side of her head. The hen was a Chilean Arachunian that produced blue eggs. Gudge decided to mate this unusual hen with his Andalusian cock. The offspring was Blue Caleb, the talking rooster!

I Decided to Visit Gudge

One day I decided to go out and visit Gudge and see his new rooster. I found Gudge sitting on a front step smoothing the feathers of a giant dark blue rooster that was rubbing against him like a cat. The bird was big as a turkey, lifting a proud and high-combed head. Eyes bulging out, I got down.

Gudge said, "Caleb, this is John Case, a friend." Darned if the big rooster didn't make a jerky bow! Feeling foolish, I said, "Howdy, Caleb." Letting out a string of clucks, Caleb made a deep bow and stuck out his right foot. Gudge interpreted, "He says howdy and let's go fishing."

"Go get your worm basket, Caleb." The big bird went galloping off and came back with a small wicker basket, his head thrust under the handle. There had been rumors that Gudge Ellerby talked to his horses and got nickers back! But talking to a rooster and being understood! That stumped me!

Caleb went along with us to hunt worms. Striding on his big legs, then making short, awkward flights, Caleb dropped down by a moist spot near the creek, cocked an earlobe and began to scratch. Gudge stamped hard on the ground. Worms began popping out and Caleb picked 'em up daintily and dropped the biggest and fattest into the basket.

After we baited and threw in a few set lines, there was quail country to explore. Exactly like a hunting dog, Caleb ranged ahead, then came to a staunch point, long tail feathers quivering. "Get ready," said Gudge to me and my gun came up. "Charge!" The big blue rooster rose and came down in the midst of a covey. Gudge dropped 2 quail, and his dog, Tooker, brought them back. Blue Caleb flew out to find my quail. "He finds, but can't retrieve," said Gudge. Tooker helped him out.

Caleb Loved to Fish

Later we headed back to the creek. Caleb, ahead, seeing a jerking line, hauled out a nice channel catfish. The blue rooster would release a flycasting backlash hung in a tree. Gudge assured me Caleb just loved to fish!

Starting home, I remarked casually to Gudge, "How much boot money would you ask in a swap for Brown Molly?" Gudge drummed on a board with his fingers and I recognized Morse code. Caleb clucked back, and I saw

Building a Pond?

If you are planning to build a pond this spring, we recommend the pamphlet, "Build a Pond," by J. I. Case Co. Each operation necessary is explained and illustrated in this 16-page pamphlet. Please address Farm Service Editor, Kansas Farmer, Topeka, and include 3c postage.

**Howdy
Bub!**



light! Gudge had told me at one time he had served as a telegraph operator. At my exclamation, Gudge grinned. "Knew Caleb understood me from the beginning but couldn't tell what he said. Taught him Morse in 4 weeks. He's a smart rooster."

"Incredible," I said. "Simply incredible!"

"Caleb is an incredible bird," replied Gudge. "Most animals around a person understand what is said. But Caleb is the only bird or beast I've known that can talk back. He says \$20 is about right, if we trade."

Spring came and I went bass fishing with Gudge and Caleb. That blue rooster would play a fish, chuckling deep in his throat, then yank him in. "He's getting so he lies just like a real fisherman," commented Gudge. "I'm taking him on trading trips with me now." It was then Gudge swore me to secrecy

Goose Raising

Since we have had several inquiries about raising geese, we decided to mention USDA bulletin, No. 767, Goose Raising. We shall be glad to have a copy sent to you as long as the supply lasts. The information with illustrations is reliable and easily followed.

In ordering, please address Bulletin Service, Kansas Farmer, Topeka, and enclose 5c, the amount charged by the USDA.

again. "Never tell Mamie about Caleb. She just thinks he's a pet rooster."

One day I was called to the Gudge farm as tragedy had struck. There on the front step sat Gudge, Caleb in his arms. But the long tail feathers were gone and blood oozed slowly. Weeping, Mamie went into the house. Gudge explained. "Caleb had fallen in love with a peacock. A male peacock on the farm fanned his tail on Caleb and he went insane. With a superhuman effort, Caleb fanned his own tail back, and the feathers popped out." Both the peafowl shrieked with laughter and Caleb looked so funny I laughed, too. It was then Caleb raised his head and spoke: "She spurned me. And you laughed!" The once-proud head fell across Gudge's arm. "I killed him," sobbed Gudge. "I killed him!"

Pressing a bowed shoulder, I said gently, "No, Gudge, Caleb died of a broken heart. When you mingled the blood of a proud don of Spain with that of a Chilean princess, you combined passion and chivalry. Caleb was a gentleman. He wouldn't take by force what he could not win. Let us scatter Caleb's ashes over the waters of the lake he loved so well."

And that is the story of Blue Caleb, the rooster that talked!

Note: Any similarity between Caleb and his owner and any other rooster or person is impossible. But let's have your "tall story" about poultry or livestock.—The Editors.

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Coming Events

March 17—Osborne county, crops and soils with KSC specialists Willoughby and Selby, Osborne.

March 17—Phillips county soil conservation planning by KSC specialist, Harold Harper.

March 17—Barton county, sub-district 4-H Club day.

March 17—Neosho county, sub-district 4-H Club day, Pittsburg.

March 17—Jackson county, northeast sub-district 4-H Club day, Holton high school.

March 17—Brown county, sub-district 4-H Club day, Holton. Counties participating include Jackson, Doniphan, Nemaha, Atchison and Brown.

March 19—Barton county school for county school boards on lighting and school improvement, Great Bend.

March 19—Cherokee county, farm management meeting, Columbus.

March 20—Shawnee county, correlated crops, insects, livestock, outlook school.

March 20—Ottawa county, shelterbelt demonstration, with KSC specialist Collins. Tour of shelterbelts, beginning 10 a. m.

March 20—Wichita county, horticulture and dairying school with W. G. Amstein and Fred Foreman, KSC specialists, Leoti.

March 20—Wilson county, dairy and agronomy school, with KSC specialists Bonewitz and Cleavinger, Fredonia.

March 20—Brown county beef tour with M. B. Powell, KSC Extension livestock specialist.

March 21—Morton county, improvement school, with KSC specialists Harold Ramsour and Ethel Self.

March 21—Sedgewick county, poultry and egg meeting.

March 21—Barton county, tractor maintenance and machinery repair school.

March 21—Linn county, Lot Taylor of KSC in county for check-up and getting demonstrations underway.

March 22—Johnson county, recreation leaders school, Olathe.

March 22—Osborne county, 4-H recreation school with Durward DeWitt at the Quonset, Osborne.

March 22—Hamilton county, garden school for leaders, conducted by KSC specialist Amstein.

March 22—Hamilton county, grass silage school, conducted by KSC specialist Foreman.

March 22—Neosho county, farm management school, with C. E. Bartlett, Chanute.

March 22—Crawford county, swine carcass demonstration, Pittsburg.

March 23—Kearny county-wide dairy and gardening meeting, with Fred Foreman and W. G. Amstein, KSC specialists.

March 23—Jackson county winter beef tour.

March 23—Cloud county, Union Pacific agricultural train, Concordia.

March 23—Rush county, shop and field adjustments of tillage tools meeting, LaCrosse.

March 24—Seward county, sub-district 4-H day.

March 24—Osborne county 4-H day, Covert.

March 24-26—Smith county, handicraft training for home demonstration units project leaders, with Ellen Batchelor, KSC recreation specialist.

March 24—Jefferson county achievement day.

March 26—Jackson county sheep and swine meeting, Holton.

March 26—Johnson county, soil conservation planning meeting.

March 26—Cloud county farm forestry demonstrations with Paul Collins of KSC.

March 26—Pottawatomie county, agricultural car, Wamego.

March 26—Kiowa county dairy meeting, with KSC extension dairymen Bonewitz and Gerber in charge, Greensburg, Community building.

March 27—Leavenworth county soil conservation planning with R. C. Lind, of KSC.

March 27—Anderson county, 4-H training with Mary E. Border and Roger E. Regnier, of KSC.

March 27—Shawnee county, farm train, Ross-ville, near depot.

March 28—Anderson county landscape follow-up meeting, completing plans started in February, Garnett courtroom, 10 a. m. Tour of plans in operation 1 p. m.

March 28—Wilson county, gardening school with KSC specialists Amstein and Gates, Fredonia.

March 28—Marshall county, Union Pacific agricultural improvement car.

March 28—Neosho county, M. E. Jackson and M. A. Seaton, of KSC, will be in county on poultry work.

March 28—Linn county-wide 4-H meeting with Mary E. Border and Roger Regnier, of KSC.

March 28—Brown county swine school and tour, with C. G. Elling, of KSC.

March 28—Harvey county dairy tour with Ralph Bonewitz and George Gerber, KSC Extension specialists.

March 28-29—Cloud county district farm, home and industrial conference, Beloit.

March 28-29—Miami county home demonstration units clothing lesson, Paola.

March 29—McPherson county, district dairy meeting, McPherson.

March 29—Lyon county, spring dairy tour.

March 29—Shawnee county, poultry school with M. A. Seaton, KSC specialist.

March 29—Linn county leader training on landscaping with Charles Parks, of KSC.

March 29—Miami county leaders' training school for 4-H, Paola Presbyterian church.

March 30—Brown county Union Pacific agricultural car, with L. E. Willoughby and L. L. Compton, Hiawatha.

March 30—Pottawatomie county artificial breeding association tour.

March 30—Shawnee county stag night, Garfield Park, Topeka.

April 2—Cloud county garden leaders school with Dell Gates and Claude King, of KSC, Concordia.

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ONE STANDS OUT..



for Tractor...



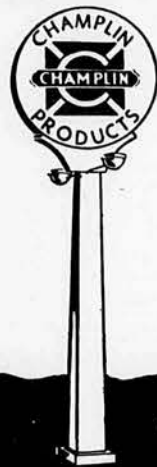
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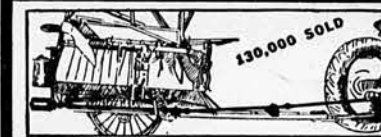
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What a Kansas Farmer Saw in Mexico

... If you have been there, compare your experiences with his. If not, you will enjoy this article just as much because you, too, may go South some vacation.

By WILLIS R. COLMAN, Namloc Acres
Lawrence, Kansas



Going down village street to get a barrel of water. To fill barrel the cart is backed down into the stream.

LEAVING Lawrence in January, 1951, going by car, we crossed the border into Mexico 2 days later at Brownsville-Matamoros, each day leaving the cold weather behind, only to find it had caught up with us by morning.

Mexican immigration and custom laws are liberal. It cost \$3 each, and a half hour, to obtain a tourist permit good for 6 months. Baggage was inspected, a few questions asked and answered, a fee paid for the car, and with a new Mexican insurance policy, we were off to find an agriculture 100 years behind our own in most places. In other smaller sections, they had all modern tractors and machinery made by U. S. companies.

It is a peculiar sensation to see big red or green tractors at work, and within a mile find 4 yoke of oxen at work in the same field hitched to 2 wheel carts, walking plows, or brush drag. These oxen are not all steers, quite often are bulls. You will sometimes see one man holding the plow, another carrying a whip.

Modern Mexico

In the Mexico of today, the people are a blend of Indian and Spanish. The food also is Indian and Spanish.

Tortillas are made today in precisely the same way they were prepared by the Indian nation before the conquest. The corn is cooked slightly and soaked overnight in water to which lime has been added. The following day it is ground on a porous rock called metate, to form a paste called nixtamol. The

there was only one packing house and one refrigeration plant in the country. In October, 1949, the U. S. Government signed a contract to buy \$70,000,000 worth of meat for European rehabilitation, and together with other export contracts, Mexico realized about a half-billion dollars on the foreign sale of meat. Washington's New Year's gift of 1951 to Mexico was the decision to lift the ban on sales of Mexican canned meat in the United States following a Mexican agreement to meet U. S. inspection requirements.

Today more than 20 canneries, each with a capacity of 600 head daily, are planning on stepping up production, with the intention of exchanging meat and gravy for cold, hard cash. I won-



Here are two typical neighbor lads down south doing their chore of carrying water from a spring to the village.

der if those tincans will make a dent in a 40-cent Kansas steer?

There are many burros used for draft, pack and saddle. One day I met a man walking with 2 corn shocks following him. On close inspection, I found 6 inches of burro leg showing between the fodder and the ground.

Quite a few make a living herding goats, selling the milk, and leg from a kid is a delicacy not to be ignored.

Free Range Country

I sure would hate to undertake to build a fence without using wire to turn goats, burros, cattle and horses, but I did see a good many miles of it. Some fences were used to keep their stock in, others to keep them out, as all is free range country.

Principal crops are corn, cotton, sugar, rubber, tobacco, henequen, coffee, cacao, chicle, bananas, wheat, beans, vanilla, peppers, and all citrus fruits.

Henequen, a sisal plant in dry Mexico, is a perennial growing for 8 to 25 years. It is not ready to cut until 5 years old, then the bottom rows of mature leaves are cut each year. Fibers of the leaves are slit with a machete at the field, or hauled to a central machine. In either case fibers are cured in the sun. A good 50-foot lasso with laced leather-covered hondo on both ends cost \$1.10 American money.

Corn I saw growing in the tropics, and by that I mean 150 miles south of (Continued on Page 39)



A well-to-do rancher lives in this adobe hacienda.

paste is patted by hand into thin pancakes and these are cooked. Contrary to my former opinion, they do not contain pepper, and with the addition of some salt, were very good eating. But just let them put on the trimmings, or as we might say, sandwich spread, call the fire department!

In any larger town good American food can be had. Everything is very good, but my wife, from the size and taste of a beef chop, thought it might have come from an oxen that had raised a few crops of corn. Substantial meals can be had at a very conservative price.

One U. S. soft drink can be purchased wherever you find more than 3 haciendas in a group. In a number of places, one must be careful of drinking water, particularly along the coast.

When aftosa broke out in Mexico,



Willis R. Colman, author of this article, standing by what he called a well-ventilated house. He was trying to take a picture of the family.

the Tropic of Cancer, was just tasseling. Where it had moisture, it looked about as far along as our corn would be the middle of July. On other fields where it had been planted by hand in new clearings, it had burned to a crisp. Mexico uses more corn than it can produce.

Getting back to the subject of Tropic of Cancer, it is a parallel line $23\frac{1}{2}$ degrees north of the equator, and the Tropic of Capricorn is $23\frac{1}{2}$ degrees south of the equator. These 2 parallels mark off the belt around the middle of the earth in which the sun, at some period of every year, is directly overhead. Elsewhere the sun's rays never shine straight down. The tropical belt therefore is the region receiving greatest heat.

In driving 5,000 miles the roughest road was on highway 40 between Lawrence and Topeka. Most highways are of asphalt and are kept in good repair. Side roads are few and far between and not safe to take, for within 40 rods it may be a burro trail. Curves are sharp, grades are steep, and ferries are numerous.

Road signs, Alto meaning stop, and Despacio for slow, were my first translations. These roads are the arteries and veins of inland transportation, both for business and pleasure.

Mexicans hail us as the fabulous people of the Estados Unidos. I would think it would be better if they would say, Santa Claus, after seeing the Pan American highway.

Not many years ago a Mexican could exchange 4.25 pesos or Mexican dollars for one American dollar. Now after our money is inflated by half, it takes 8.60 pesos for one dollar and higher than that farther inland, and the people have become very careless with small change. The Mexican penny is considered too worthless to count. They have their paper money printed in the U. S. A.

But Wait 50 Years!

In discussing different conditions confronting Mexican progress in comparison with our own, I ran across one substantial Mexican citizen who holds the view we are 50 years ahead of them now, because of their having been conquered, wars with other nations, and many overthrown governments at home. All that is now past and they have learned by experience, and in 50 years from now, we will be suffering from turmoil from within and without, and they will be ahead of us.

In leaving by Nuevo Laredo-Laredo the Mexican customs didn't have a word to say, took one glance and took up our permits. But U. S. customs were very much interested in whether we carried blue, pink or white underwear. The baggage was loaded with articles of interest we had purchased in Mexico, but as long as it did not exceed \$200 per person, all was O.K. and, just for good measure, we were vaccinated. After finding out what the vaccination did to us, I am sure glad we took it, for if that was a sample, smallpox would have killed me sure.

The freeze hit farmers on both sides of the Rio Grande Valley like the 1936 drouth hit me, with the exception they don't have to contend with a depression, too.

Arriving home the cattle looked better, the pigs tails curled tighter, the lambs jumped higher, the house looked better, the weather was just right, and the alfalfa was showing green. It's great to be home. It's wonderful that home is in Kansas.

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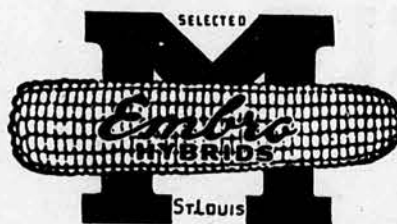
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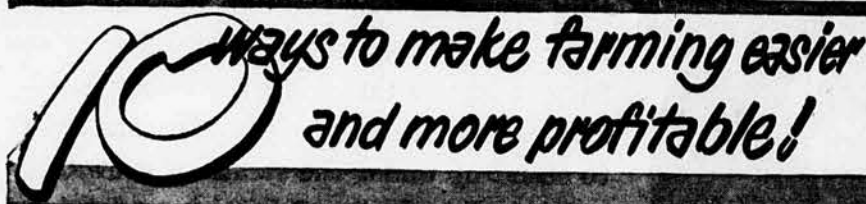
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What Successful Poultrymen Do

(Continued from Page 8)



WIRE SCREEN mounted on frame is used under hover by Mr. Zeigler. Droppings go thru and cut down possible disease problems.

the first few days. "More chicks are baked to death than die from chilling," say these poultrymen.

Mr. Wenger is starting 1,100 chicks this year—part of them as layers and part as broilers. Last year he ran 3 batches of broilers thru in addition to his layers. Mr. Bengtson buys straight-run chicks and sells cockerels as broilers. Sale of broilers seems to be a growing practice among poultrymen.

Ground corn cobs are used as litter on the Wenger and Bengtson farms. Both men cover litter with papers the first few days. "I feed on top the paper for the first 4 days," says Mr. Wenger.

Special Attention to Feed

Chicks on the Wenger farm get commercial feeds from the start and Mr. Wenger likes the feed in what is known as "crumbles" form. Chicks get a commercial starter the first week, then starter-grower for 3 or 4 weeks, then a straight grower feed.

"I am sold on getting pullets into production for those high fall egg prices," says Mr. Wenger.

A permanent brooder house, equipped with sun porch, is used by Mr. Wenger. "I let chicks have free run of sun porch after the first week and find they will go out for short periods in very cold weather," he says. "Being allowed to run on the porches does help develop more rugged pullets."

Range houses are used by Mr. Wenger, who puts them on clean ground every year. "I like to get pullets out on range by April 1, if the weather permits," he says.

Pullets usually are housed in July, but will be held back this year. "I believe I have been pushing my pullets a little too fast," he says, "so this year will hold them back."

But Mr. Bengtson and Mr. Wenger use medication in drinking water and report they are satisfied with results.

Bin Saves Time

One idea used by Mr. Wenger was new to us and should be welcomed by a lot of you folks. That is an off-the-floor feedbin in the brooder. The one in the Wenger brooder is 18 inches above the floor and holds 400 pounds. It saves a lot of time and work and the feed record sheet can be tacked right on the lid to give you an accurate check on feed output.

The Wenger feedbin is 50 inches long and 23 inches deep at the top and 15 inches deep (front to back) at the bottom.

Built-up litter in the brooder house was used by all the poultrymen we visited. Mrs. Florence Walker, of near Manhattan, however, is the only one who uses the same litter for more than one batch of chicks. She grew 800 chicks for broilers in her brooder, starting early in November. They were moved out about Christmas. The next brood was started January 25. Between broods litter was treated with 50 pounds of lime for the 20- by 16-foot room. Litter was stirred several times to dry it well.

How did Mrs. Walker get along? Just fine. In 4 weeks she lost only 8 chicks out of 400 in the second batch. Val Zeigler, of near St. George, starts his electric brooders 2 days before

chicks are due to arrive. During that time he checks them over to see that they are operating perfectly. Perfect brooder operation is important to prevent overheating or chilling. It appears to be a very good practice to check equipment in use before chicks arrive.

Of course, the brooder should be cleaned out before chicks arrive. Mr. Zeigler sprays walls and floors with disinfectant just to make sure. Mr. Bengtson and Mr. Wenger also are careful on this point of disinfecting before chicks are placed in the brooder.

Another new management practice used by Mr. Zeigler is placing a screen mesh-covered frame under the hover. Droppings go thru the 1/2-inch screen mesh, and thus do not present a moisture problem for chicks.

When his chicks arrive, Mr. Zeigler takes several from each box of 25 and dips their beaks in water to get them started. He finds other chicks soon follow suit. Other poultrymen we visited said they did not follow this practice as they did not find it necessary.

Radio for Chicks

If your chicks are wild and fail to settle down like they should, you might try an idea that certainly worked this year for Mr. Wenger. He put a small radio in the brooder (on a shelf) and turned it on during the day so it was not too loud but did make a constant sound. His chicks quieted right down. "It only took one day to settle them down," he reports.

Lights in the laying house have a lot to do with early production. George Pannbacker, of near Washington, had an interesting experience along this line. He has 2 laying houses, one with lights and one without. He divided his pullets in the 2 houses. "Pullets in the house equipped with lights came into full production almost a month earlier than the others," he reports. He does add that when the flock was divided the best pullets went into the best house. "But there shouldn't have been a month's difference," he says.

Does poultry pay? A lot of folks don't know because they don't keep records and because their flock may be too small to make much difference. But we heard about one West Central Kansas wheat farmer who decided to check his poultry profits against his wheat profits. Much to his surprise he found his poultry paid a higher net profit than a quarter section of wheat.

Other farmers are finding, too, that where the flock is large enough—at least 300 layers—and where good feeding and management are combined with good housing, poultry is a steady source of profit year in and year out.

"Shower" Leaflets

Entertaining for a bride-to-be or a prospective mother? "A Bride-to-Be Sewing Shower," 5c, and "Streamlining the Stork," 3c, are 2 helpful leaflets for the hostess. Please address Entertainment Editor, Kansas Farmer, Topeka, for copies of these leaflets.

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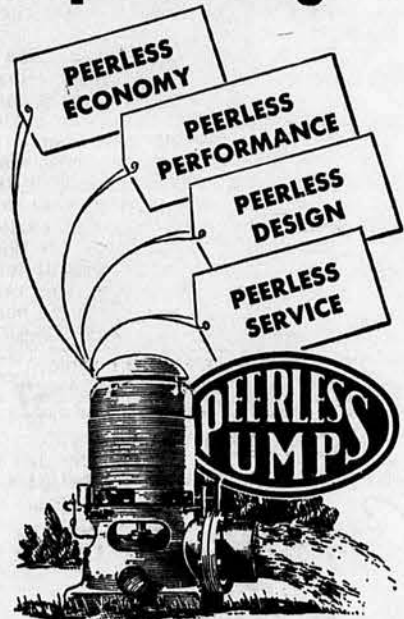
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**Kansan Elected High
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Arthur W. Van Hercke

Arthur W. Van Hercke, farm-reared Kansan, has been named vice-president of Allis-Chalmers Company, Milwaukee, Wis. Mr. Van Hercke will be in charge of engineering in the tractor division of the company.

Thru his father's farm equipment dealership at Pleasanton, Mr. Van Hercke became familiar with potentialities of mechanized farming. He spent much of his youth on the family's 900-acre farm. He liked to experiment with new equipment and discover new methods of farming. His studies and thinking have since made themselves felt in American agriculture.

Mr. Van Hercke continued his association with the family's Pleasanton dealership until 1932. Then he joined Allis-Chalmers as an industrial salesman out of the Kansas City branch. Until his appointment as Implement Sales Manager in 1939, he was closely connected with development of Allis-Chalmers industrial tractors and their sales. He was director of tractor engineering from 1943 to 1951.

Fruit Spray Schedule

We have received several inquiries recently on fruit spraying. KSC has an excellent leaflet giving information on kinds and purpose of spray, how to prepare spray, and time to spray these fruits: sour cherry, peach, plum, apricot, grape, strawberry, apple and pear. The leaflet was prepared by Kansas State College horticulture specialists W. G. Amstein and W. F. Pickett. It will be mailed free as long as the supply lasts. Send request to Bulletin Service, Kansas Farmer, Topeka.

**Annual State Barrow
Show Day Set**

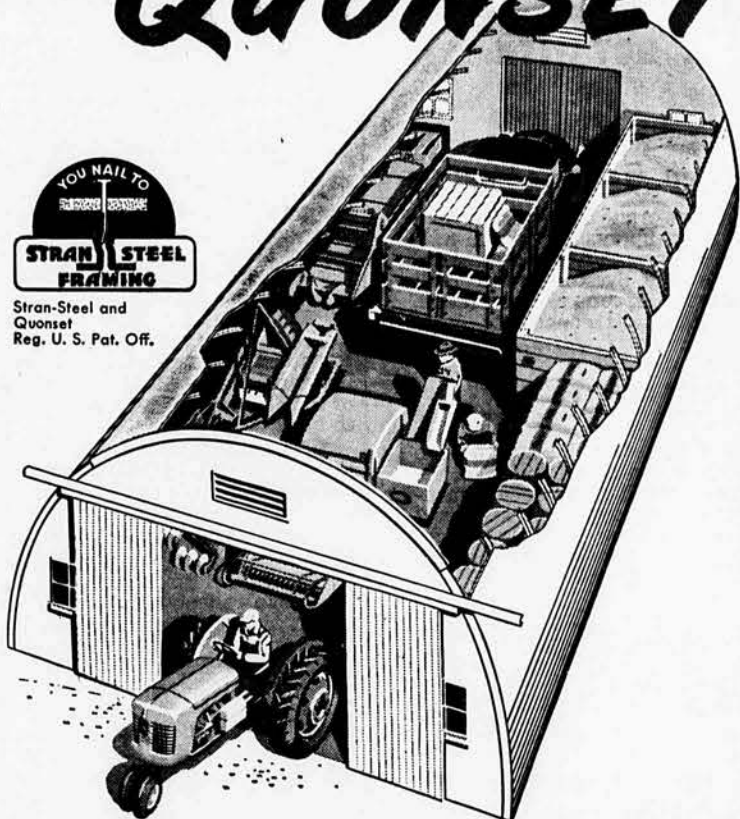
Second annual Kansas Barrow Show and Swine Day will be March 20 at the 4-H Club Livestock Building at Kansas Free Fair Grounds, Topeka. In addition to the barrow show, there will be an educational program for exhibitors and visitors. The annual event is sponsored jointly by Kansas State College Extension service, the agricultural service division of the Topeka Chamber of Commerce, and John Morrell & Co., Topeka. John Miller, Topeka Chamber of Commerce agricultural commissioner, reports many more entries are expected for the 1951 event over last year.

Hogs for Profit

The circular, "Hogs for Profit," by Carl Elling, of Kansas State College Animal Husbandry Department, gives concise information on feed requirements, cost and rate of gain for pigs at different stages of growth, sanitation, straw-loft farrowing, breeding stock, rations for shoats and fattening hogs, fitting and showing suggestions, and much other information. Kansas Farmer's Bulletin Service will have a copy of the circular sent free as long as the supply lasts.

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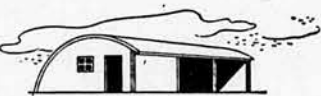
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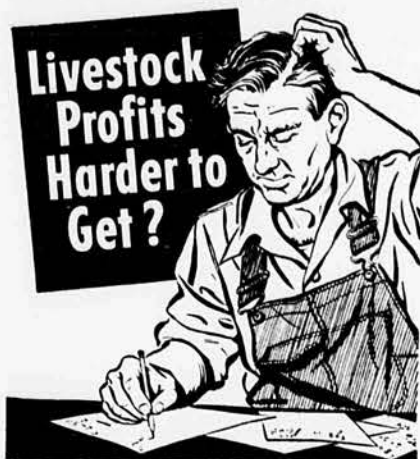
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Giving Away Your Labor

(Continued from Page 9)

days and more weeks of your labor.

"When the President makes a tax request of Congress he actually is asking for hours, days and weeks of your life and mine. When Congress appropriates that money they appropriate so many hours of our labor."

Mr. Sexauer further comments that while he realizes taxing his and your hours of labor is necessary to run the government, he would rather not have his labor wasted "to support useless office holders, maintain non-essential regulators or military wastefulness."

"When an army sells useful material as surplus, they are selling my time."

"When the RFC makes a bad loan to or thru some palace favorite, they are lending my hours of labor. When some regulator lives on government salary and does not produce he is living on the products of my labor."

"Taxes are the productivity of men's hands and brains, and the use of men's savings. They are men's hours of labor. The dollars are the only tokens by which labor, brains and savings are taken from the individual and transferred to the state."

"The next time an appropriation of a billion dollars is mentioned just say to yourself, 'There goes another day of my earnings; another day's production of the Nation which I never will be able to buy.'"

"Don't figure taxes in money. Figure them by your hours of labor, and your savings from past hours of labor."

State and local units, as their legislative and taxing authorities are discovering, are going to have to "up" their tax collections to keep up with the currency inflation created by the Federal Government's spending habits. Costs of goods and services (salaries and wages) are advancing steadily. Sales tax revenues on the up-grade are acting as a cushion, but a "peace scare" at any time in the near future might cut down sales tax receipts considerably. If that should happen, general property taxes on real and personal property will be the only answer for the local taxing units—unless these are authorized to levy sales and income taxes on their own, as already is the case in Pennsylvania and to a more limited extent in other states.

OPS in Washington is reported slowing down in getting out its new farm price ceilings. It may be that so far as most farm commodities are concerned, things will be "let slide" in the hope Congress will establish lower and less changeable ceiling minimums before July 1. Department of Agriculture feeling is that corn, flax and possibly oats are the only new major commodities which might draw ceilings before next harvest time.

That farmers get acquainted with

their county agricultural mobilization committee—and its members—against the day when the defense programs create new, or intensify present, farm problems, looks like a sound suggestion.

Mobilization committees are being organized in some 3,000 counties in farming areas of the nation. Members will include PMA county committeemen, officials of UCLDA in the county. PMA county chairmen will head the mobilization committees. In some counties, county agent and Vocational Agriculture teachers will be included in the membership.

These committees will handle imported labor to be supplied thru the Department; as shortages develop, the county mobilization committee will report to the USDA. When workers are provided, it will be the job of the county committee to channel it to farms the committee finds most in need.

Later, if shortages develop in farm equipment and supplies, the county mobilization committee will have the task of rationing scarce supplies.

Washington observers are looking for some vigorous protests from farmers and farm organizations before long. Farmers so far are not represented in any of the major national defense setups.

Labor is balking at going along with the controls program, its leaders insisting the program is dominated by industrial leaders. Labor's kick seems to be that Labor is subordinated. When the controls start pinching, farmers are likely to object that the farmer and his interests are just being ignored.

The burst of enthusiasm in planning circles for setting live animal price ceilings seems to be moderating as OPS meat price planners get into the details of handling such a program.

At any rate, Wayne Darrow, in his Washington Farmletter, indicates the idea is growing in favor of not tampering—too much—with live animal prices. The idea at present is to leave plenty of incentive for livestock men to produce; however, a rollback to the average high points during the January-December period.

Also, supposed to go into effect April 1 is the order freezing the "slaughter pattern" as nearly as possible on the basis of plant kills in 1950, and allowing no new slaughterers—unless the pressure becomes too great.

Expected soon is an order to "freeze" the distribution pattern also on 1950. Such an order would provide that meat handlers deliver to the same buyers—and in the same proportion of the dealer's total handling—as in 1950. The OPA also required that counties be similarly treated.

Antibiotics— "Secrets of the Soil"

THOUSANDS upon thousands of soil samples are being checked by scientists in laboratories the world over in the search of the "secrets of the soil"—antibiotics. That the soil holds the secret of these drugs that could cure all of mankind's infectious diseases is a scientific vision. It's a vision with reasons to hope it will come true, says Alton L. Blakeslee, Associated Press science reporter. Antibiotics are chemicals produced by microbes and molds living in the soil and elsewhere.

Penicillin started the dramatic antibiotic parade. Today we have streptomycin, aureomycin, chloromycetin and terramycin in widespread use. One or more of these former "secrets of the soil" hits the bugs causing pneumonia, typhus fever, tuberculosis, boils, strep throats, rabbit fever, parrot fever, typhoid fever, syphilis, urinary tract infections, meningitis, whooping cough, rocky mountain spotted fever, to mention only a few. New ones coming probably will act against other bacterial infections. There are hopes for antibiotics better than streptomycin against TB. As yet, no antibiotic controls the tinier viruses of flu, polio and other serious diseases.

Plants may supply the "wonder drugs," too. Researchers at the Ver-

mont Agricultural Experiment Station discovered one from a tropical plant that is potent against 10 different fungi and some bacteria in animals.

A goal of scientists today is to find new antibiotics that will hit many diseases in humans, kill insect pests, and new drugs to fight more plant and animal diseases that mean food for man.



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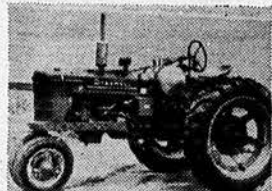
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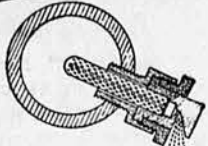
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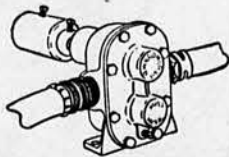
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Marketing Viewpoint

By Harold M. Riley, Livestock; John H. McCoy, Feed Grains; Paul L. Kelley, Dairy Products.

About how much should I get for a registered Angus bull a little over a year old? He is blocky and has had corn for several weeks and is in good flesh.—W. W.

On the basis of the above information, I can give only a very general estimate on the value of such a bull. His actual value probably lies somewhere between \$300 and \$600. The lower figure represents the approximate value of a moderately fat, young, 900-pound bull on the current slaughter market.

Due to the strong demand for beef breeding animals a bull showing good type and conformation, registered with reasonably good breeding behind him should be worth up to \$600 at present. This may give you some idea as to what the asking price should be. It would be impossible to estimate the value much closer without observing the bull and knowing his pedigree.

I will need protein supplement for feeding this summer. Which of the supplements do you advise buying, and when should a supply be obtained?—R. I.

The current relationship between soybean meal and cottonseed meal prices favors purchase of soybean meal on the basis of Kansas City prices. Ordinarily local prices will also reflect this differential.

Normally prices of these oil-seed feeds decline seasonally during spring and increase during summer. According to present indications, it appears the seasonal low may occur during early spring this year.

Will grade-A milk prices decline this spring?—P. D.

Some seasonal decline may occur in grade-A milk prices due to reductions in the price differentials paid over basic formula prices in certain markets. However, any price declines are expected to be small and less than usually occur in spring. A strong level of consumer incomes is expected to maintain strong demand for milk for bottling purposes. However, we nearly always have some surplus milk in city markets during flush production months.

Sets State Record

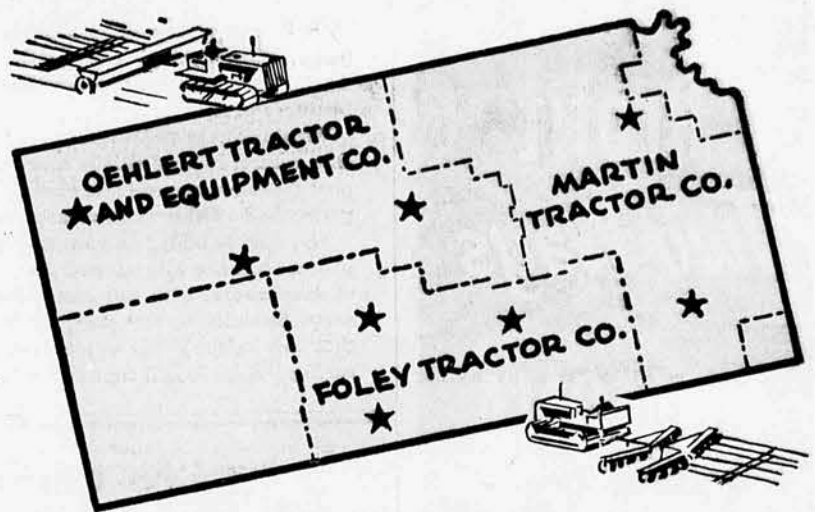
Sunbright King's Lena, a registered Guernsey cow owned by Clarence Hatfield, Jr., of Wichita, has made a state champion record for her owner. Her production of 12,384 pounds of milk and 589 pounds of butterfat is highest Advanced Register record in Kansas made by a senior 4-year-old on 2 times daily milking for a 10-month period, according to the American Guernsey Cattle Club.

Clearing Out Trees

Best way to clear undesirable trees and tree sprouts from fields and fence rows is by spraying to wet the bark thoroughly around base of trunk from ground to 12 to 15 inches above while trees are dormant. J. W. Zahnley, Kansas State College agronomist, says for Osage hedge and persimmon, a 4 per cent solution of 2,4,5-T ester in Diesel fuel or kerosene is best. Most other trees can be killed with a similar concentration of 2,4-D.



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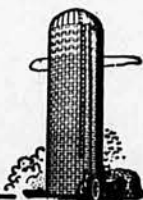
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Is It True?

Is it true mushrooms are higher in riboflavin content than any other plant, except yeast? Not only is that true, says the U. S. Department of Agriculture, but mushrooms are the basis for a 60-million-pound annual business in America.

Mushroom growers today get yields twice as big as they did in the 1920's. One reason behind this is more effective methods of pasteurizing the compost (stable manure from race tracks) after it is put on the shelves of propagating beds. Other reasons are better disease control and improved varieties.

Gypsum is added to compost to impart a mellow texture. A pasteurizing process has been developed that conditions it so as to make possible growth of mushrooms with minimum interference from molds, nematodes and insects. Substitutes for compost have been developed here and in England that are suitable for commercial mushroom growing. But manure from racing stables is still tops as a compost material.

Price Controls and Taxes Worry Livestock Men

PRICE controls and taxes were the 2 main subjects of conversation at the 38th annual convention of the Kansas Livestock Association, at Wichita, March 6, 7 and 8. There were mixed feelings about price controls but if they are inevitable, some wished the government would hurry up. "This uncertainty is killing us," they moaned. Meaning, of course, it is plenty hard to do any planning with the threat of price controls hanging over your head.

Except for the principal address by Allan B. Kline, president of the American Farm Bureau Federation, however, price control had no place on the formal discussion program. Not so with taxes. One entire afternoon program was turned over to a panel discussion on what could be done to hold the line on federal, state and local taxes. One stockman expressed it this way: "Taxes are becoming one of the major costs of operation on my farm."

The panel discussion brought out that more attention should be paid to taxes at the local level, where 54 per cent of all property taxes originate. As Ed Robbins, of Belvedere, stated it: "Income taxes can hurt you but property taxes can break you." The panel chairman, Wayne Rogler, of Matfield Green, advised farmers to attend local budget hearings to help determine how much taxes they want to pay. "It's too late when you wait until tax-paying day," said Mr. Rogler.

A plea for farmers to take research more seriously was made by A. D. Weber, assistant dean of the school of agriculture, Kansas State College. "Industry spends from 2 to 5 per cent of its income on research," said Doctor Weber, "while agriculture spends only .35 of one per cent." He urged farmers to use their influence to get more money for agricultural research.

Too Many Bruised Hogs

In a special meeting for swine growers, H. D. Elijah, Swift & Co. representative from Oklahoma City, said one out of every 3 hogs marketed is bruised. He urged more careful handling to prevent this unnecessary loss of meat. Mr. Elijah also noted a trend toward a more uniform quality of meat being offered to the consumer.

Sheep growers learned in their meeting that the reputation of Kansas wool fleeces is greatly improved. Kansas wool now ranks with the best instead of being discounted. Improvement was credited to the efforts of the Kansas Purebred Sheep Growers Association and Kansas State College Extension educational programs. A lamb production contest similar to the creep-fed calf production contest was announced for Kansas. It will be sponsored jointly by the Kansas City, Mo., Chamber of Commerce and Kansas State College. Sheep growers reported very good results from vaccinating against overeating disease.

Bob White, Garnett, was elected president of The Kansas Livestock

Association. Charles Waugh, Sharon Springs, is the new vice-president. Lew Galloway, Wakeeney, was elected a director from the 6th district; Jim Tomson, Jr., Waukarusa, from the 1st district, and Ira Wilson, Winfield, from the 3rd. A. G. Pickett, Topeka, will remain as secretary. He also was recommended for another 2-year term as Livestock Sanitary Commissioner.

Livestock Commission members re-elected are Cal W. Floyd, Sedan, 3rd district; Joe O'Bryan, Hiattville, 2nd district, and Ed Washington, Manhattan, 1st district.

In the Resolutions

Here are some highlights from resolutions adopted at the meeting:

Opposed to price controls on live animals. Opposed to subsidies as a means of increasing production of meat or feed.

Asked selective service to give farm labor needs adequate consideration.

Urged adoption in U. S. Senate of amendments to the bill to extend the Reciprocal Trade Act.

Asked U. S. Bureau of Animal Industry to modernize recommendations to include more effective materials for control of scabies on farm animals.

Asked for increased production of insecticides for control of parasites on animals without hurting defense effort.

Urged legislature to pass lien clause and urged that everything possible be done to reduce social welfare costs.

Asked that use of Formula 1080 be permitted any place in Kansas where approved by the Predatory Animal Division of the U. S. Biological Survey, and where requested by a majority of land occupiers in the area.

Urged Department of Agriculture to publish monthly statistical reports on livestock industry, and to continue and expand livestock market reports on all principal commodity markets.

Asked for continuation of present foot-and-mouth disease control program.

Asked that funds for construction of first unit of an animal industries building at Kansas State College be made available by the 1951 legislature.

Urged early truck reciprocal agreements with surrounding states.

Asked Interstate Commerce Commission to turn down a 6 per cent freight rate increase being sought by the railroads.

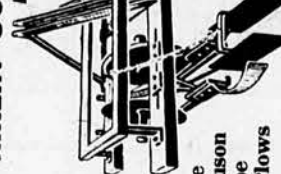
Asked for thoro study on why public utility valuations are being decreased for taxation purposes while livestock valuations are being increased.



"No, I didn't get a commission in the army—I worked on a straight salary!"

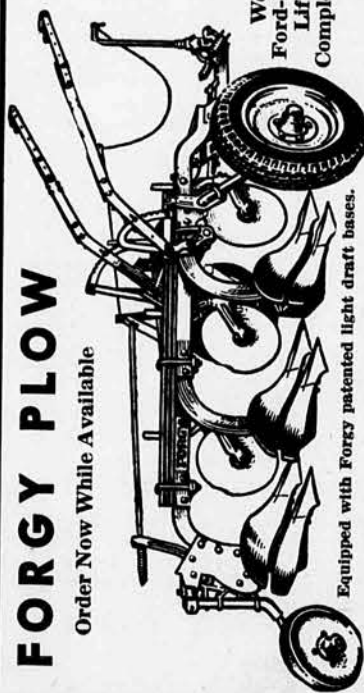
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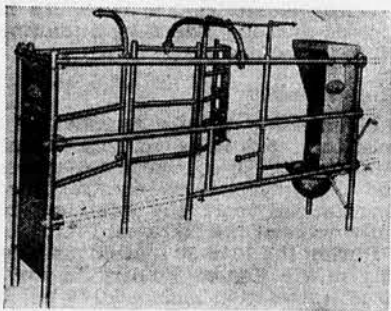
Have You Heard?



Notes on New Products and Folks Who Make Them

MINNEAPOLIS-MOLINE CO. is announcing a new machine—the Uni-Harvester. The first attachments designed for it were the harvesting unit (Uni-Combine) and 2-row corn-picking unit (Uni-Husker). The Uni-Harvester with the Uni-Combine attachment will handle all small grains, grasses, sorghums and soybeans. In less than an hour it can be changed to a self-propelled cornpicker and husker. Attachments are designed for quick mounting on a power unit called the Uni-Tractor.

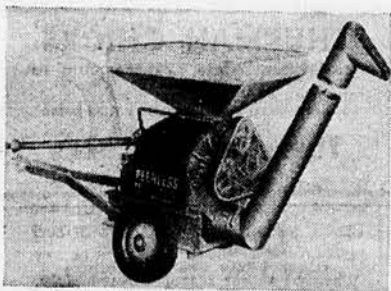
Clay Equipment Corp., Cedar Falls, Ia., say their new, improved Milking Parlor Stall features a brand-new Speed Feeding System that really cuts feeding time and work. The hopper runs ground feed directly to feed bowl. By merely twisting a small crank handle, mixed feeds (in desired amounts)



can be dropped in front of cow. The new unit can be installed in old and new barns. The new system does away with long walks from one end of the barn to the other. It brings feed, milking equipment and cows to the operator—cuts down milking and feeding time.

Lederle Laboratories changed the name of its animal-protein-factor feed supplement. Previously known as APF Feeding Supplement No. 5, the supplement is now called Aurofac Vitamin B₁₂ Antibiotic Feed Supplement effective January 1. Aurofac contains both vitamin B₁₂ and aureomycin. Aureomycin is proving effective in combating many types of animal and human diseases, is known to improve growth of livestock.

Peerless Equip. Co., Joplin, Mo., is announcing the first line of low-cost, portable power take-off roller mills. Both portable and stationary models are manufactured in farm, feeder and mill sizes. All models can be operated



by tractor from the power take-off or with flat-belt pulley. The 10-inch-diameter "hi-capacity" rolls can be adjusted accurately to crimp, crack or crumble all small grains to any degree without dusting. Larger rolls also handle more grain per hour and require less power. Largest models have capacities up to 400 or 500 bushels an hour.

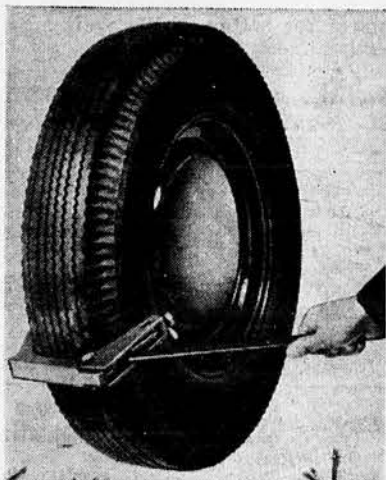
Interest in the recent development of pig hatcheries is growing. Latest news of one of these new kind of "hatcheries" for livestock is the new \$25,000 unit at Perry, Ia. G. C. Pound, executive vice-president of Kraft Foods Company, owns the farm. All 32 individual farrowing pens are equipped with galvanized steel partitions, folding farrowing rails and tilting troughs. The building is of double tile wall constructions. There are radiant heat coils un-

der floors of farrowing pens. There are several advantages to a pig hatchery. Regular farrowing thruout the year means a farmer, ordering ahead of time, can raise his pigs at the most desirable periods, either from price or labor standpoint. Weaned pigs can be sold at less than it costs the average farmer to raise them.

Caterpillar Tractor Company now is producing an added attachment to its newly-developed Caterpillar Tool Bar. It is called the Root Plane, a tool designed specifically for range development. It also can be adapted for tillage of summer fallow and stubble mulch practice. The new tool can be mounted on a Caterpillar Diesel D4 tractor and operated by a hydraulic cylinder. Cutting a 100-inch swath, depth of penetration is easily adjusted by the tilting features on the beam. Adjustment depth depends on variety of the brush and soil conditions. This tool successfully undercuts deep-rooted, noxious range shrubs and brush.

J. I. Case Co., Racine Wis., says their Trailer-Baler "is a completely equipped hay baler that goes places and gets things done in a hurry." Hook it to the trailer hitch on the family car, to the farm truck or tractor. Trail it thru narrow farm lanes, across fields. All you do is pull up to the job, lift the hitch pin, lower the hitch, and the Trailer-Baler is ready to bale hay.

The new Lantz Tire Traction Clamp really pulls your car out when you get stuck in snow, mud, ditch, or on a sheet of ice. The clamp is quickly and easily



slipped over the tire, is fastened securely with a single stroke of a lever. This sturdy, cast-steel clamp fits any 5:90 to 7:00 tire. Once you're out of trouble, clamps are removed just as easily and stored in trunk of car. There is nothing to get out of order. Clamp costs no more than a set of strap chains.

A new automatic trailer hitch now is on the market. It offers a fully automatic hitch that permits coupling and uncoupling of farm implements without getting off the tractor. The hitch brings speed and ease to tractor operator. The inventor is Max R. Cundiff, farmer of Saybrook, Ill.

Paint-Stik is a new, all-weather, specially-compounded branding paint in stick form for farm animals. It eliminates inconvenience and annoyance of liquid-branding paints and dipping brushes. It hardens almost instantly upon application. And it remains on the animal's coat in all weathers—impenetrable to rain, sleet, snow or driving winds—until it is removed by the normal growth of hair. Paint-Stik is harmless to animals, fadeproof, easily removed from pelts in scouring process, may be used on either wet or dry pelts. The new branding paint is made by Lake Chemical Co., 3052 W. Carroll Avenue, Chicago 12, Ill.

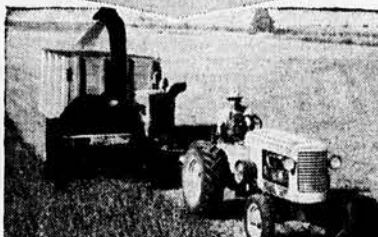
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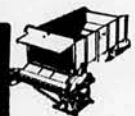
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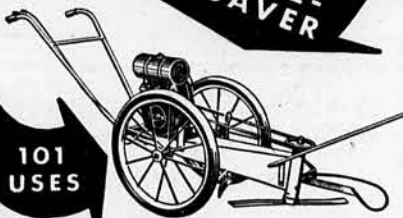
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Accomplishments

The Kansas Poultry Improvement Association has been actively engaged since 1935 administering and supervising the National Plan. During this time, remarkable accomplishments have been noted in regard to egg production and the reduction of the prevalence of pullorum disease, both in chickens and turkeys.

The average Kansas hen produced 122 eggs in 1935, 133 in 1940, 152 in 1945, and 166 in 1948. Much of this increase in egg production is due to the program of the National Poultry Improvement Plan as conducted by the Kansas Poultry Improvement Association. It is interesting to note that two hens are now producing as many eggs as three hens back in 1925.

Success in the long fight against pullorum disease is showing up in steadily increasing number of hatchery flocks tested and steadily decreasing number of reactors removed from hatchery flocks. In 1945 an average of 2.91% reaction was found on first test for all flocks tested. This percentage decreased each year until in 1950 only 1.68% reaction was found on first test for the 5,090 flocks reported.

Pullorum testing of turkeys under the turkey improvement program has been conducted by the Bacteriology Department at Kansas State College. In 1945 the percentage of reactors for all breeders tested was 7.12%. This percentage was lowered to .88% in 1950, making it possible for turkey growers to raise a higher percentage of the poults started.

These accomplishments by Association members leading to increased production and livability have added millions of dollars to the income of Kansas farmers and chick buyers. Excellent chicks now can be purchased in all areas in Kansas. Kansas chicks are the answer for better quality, better production and extra profits.

Why Do Association Hatcheries Produce Good Chicks?

Here are a few reasons why hatcheries belonging to the Kansas Poultry Improvement Association and operating under the National Poultry Improvement Plan are producing better quality chicks each year, chicks that live well and make a profitable return.

1. All breeding flocks are carefully selected and culled by qualified, state approved agents.
2. All breeding flocks are carefully and accurately tested for pullorum disease by approved agents.
3. All breeding birds are leg-banded with official bands for identification.
4. Breeding flocks are inspected and check-tested by state inspectors.
5. Hatching eggs are carefully selected for size, shape, texture, color, uniformity, and cleanliness.
6. Sanitation is maintained in all hatcheries to insure the production of healthier chicks.
7. All hatcheries are carefully inspected and supervised by authorized State inspectors.

Membership

Membership in the Association is voluntary, but it is confined to only those poultry breeders, hatcherymen, and flock owners who desire to co-operate and meet the minimum requirements of the National Plan.

During the 1949-50 season, membership in the Kansas Poultry Improvement Association included 174 hatcheries, 5,090 chicken flocks, 74 turkey flocks, and 8 R. O. P. breeders. During the season, nearly 1,100,000 birds were leg-banded under the supervision of the Association to produce hatching eggs for the co-operating hatcheries. More than 65% of the entire hatching capacity of the State is represented by membership in the Association.

See the April 7 issue of KANSAS FARMER for more information about Kansas Poultry Improvement Assn. hatched chicks.



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Assorted Heavyweights (no sex guarantee)			8.90

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April 7

Will Be Our Next Issue

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

Friday, March 30

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

CLASSIFIED ADVERTISING DEPARTMENT

KANSAS FARMER Classified Advertising

WORD RATE

10c per word each issue.
Minimum—12 words.
Names and addresses are part of ad, thus are billed at per-word rate.

Livestock Ads Not Sold on a Per-Word Basis

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Column	Cost Per	Column	Cost Per
Inches	Issue	Inches	Issue
1/4	\$4.90	2	\$19.60
1/2	9.80	3	29.40

Minimum—1/4 inch.
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Write for special display requirements.

Kansas Farmer, Topeka, Kan.

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White, Barred Rocks, Hampshires, Reds, Wyandottes, \$8.95; pullets, \$12.95; cockerels, \$10.95; Big White, Brown Leghorns, \$8.95; pullets, \$14.95; Austra-Whites, Black, Buff Minorcas, \$8.95; pullets, \$15.95; Heavies, \$7.95. Mixed, \$6.95. Leftovers, \$5.95. Fryers, \$4.95; Barnyard Special, \$3.95. F.O.B. 100% alive. Free catalog. Bush Hatchery, Clinton, Mo.

Bargains—AAA Barred, White Rocks, Reds, New Hampshires, \$8.90; Pullets \$12.90; Cockerels \$8.40; Large Egg-Bred Brown White Leghorns; Austra White, \$8.90; Pullets \$15.90; Heavies \$6.95. Leftovers \$3.95. Eating Special \$2.90. Assorted Pullets \$11.90. Surplus \$2.50. F.O.B. Quality Hatchery, Clinton, Mo.

Big Type White Leghorns, Austra-Whites, White, Barred Rocks, Hampshires, \$7.95; Pullets \$11.95; Heavies \$6.95; Heavy Cockerels and Cross-breeds \$5.95; Table Special \$4.95; Surplus Assorted \$2.95; Fryer Special \$1.95. 100% alive. F.O.B. HIGrade Chicks, Deepwater, Mo.

White, Barred Rocks, Hampshires, Wyandottes, \$8.90; Cockerels \$11.45; Pullets \$12.95. Fancy White, Brown Leghorns, \$8.95; Pullets, \$14.90. Minorcas, Austra-Whites, \$9.90; Pullets, \$14.95. Heavies, \$6.95. Mixed, \$5.95; Assorted, \$4.95. Odds \$3.95. F.O.B. 100% alive. Helpful folder. Clinton Chick Store, Clinton, Mo.

Large White, Brown Leghorns, Minorcas, Austra-Whites, Rocks, Hampshires, \$8.95; Pullets \$13.95. Heavies \$6.95. Mixed \$5.95. Table Special \$4.95. Dukes Mixture \$2.95. 100% alive F.O.B. Thompson Chicks, Springfield, Mo.

Cantrill's Famous Purebred, bloodtested, ROP sired, U. S. Approved genuine Husky New Hampshire chicks—the kind that live, grow, lay and pay. Free circular. Cantrill Poultry Farm & Hatchery, Carthage, Mo.

15 Years Breeding of ROP Sired Chicks. All leading breeds and crossbreeds. Pullorum passed. New prices for early orders. Free literature. Send postcard to General Chicks, Box 5A, Rich Hill, Mo.

DeForest Blue-blood Chicks Production or Broiler breeds. Hatching year around. Broad-breasted Bronze and Beltsville White Poults in season. DeForest Hatcheries, Box E, Peabody, Kan.

Baby Chicks—Sturdy quality, 25 purebreds, 6 cross-breeds, bloodtested, licensed inspected, low prices. Rush postal; colored book free. Albert Frehe, Route 12, Salina, Kan.

● **DUCKS AND GESE**

Geese, Goslings, Goose eggs. Safe shipment anywhere. Bulletins, magazine on breeding, hatching, rearing, marketing. Peyton Goose Farms, Route 2CK, Duluth, Minnesota.

● **JERSEY GIANTS**

Superfine Chicks, eggs, since 1922. White Giants, Black Giants. Best for capons. Literature. The Thomas Farms, Pleasanton, Kan.

● **MINORCAS**

Superfine Chicks, eggs, since 1925. Golden Buff Minorcas. Literature. The Thomas Farms, Pleasanton, Kan.

● **NEW HAMPSHIRE**

Pure Christie's New Hampshires. Bred by Berry's, U. S. Approved, Pullorum-tested three times yearly with no reactors. Berry's customers demand rugged chicks. Hatched by experts. Large orders trucked in special fast air conditioned vans. Write for free illustrated catalog and low farm prices. Berry's Chicks, Box 623, Newton, Kan.

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Best Quality Silverlaced or White Wyandottes—Chicks, eggs. Literature. The Thomas Farms, Pleasanton, Kan.

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Pheasants, Swans, Pheasants, Guinea, Bantams, Ducks, Geese, thirty varieties pigeons. John Hass, Bettendorf, Ia.

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At Last! Something new and sensational in Everyday Cards, 21 for \$1. Make extra money fast! Show Satin, Velour, Metallic Cards. Get orders easy. Big line \$1 Assortments. Scented Stationery. Personal Matches, Kiddie Books. Imprints free. Two \$1 boxes on approval. Puro Co., 2801 Locust, Dept. 187-C, St. Louis 3, Mo.

● **WANTED TO BUY**

Wanted: Horse Hair, Tail and Mane. Rabbit skins, wool, pelts, beeswax. Write for prices, shipping tags. Sturges Co., 2630 "N" St., Omaha, Neb.

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Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water; pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. E-54, Chicago 22, Ill.

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

● **HOBBIES—HOMECRAFT**

Save on Leather Items. Make easy-to-assemble belts, purses, gloves, woolskin toys, etc., as gifts or to sell. Send 10c for big catalog. 100 money-making ideas. Largest Leathercraft stock U. S. J. C. Larson Co., 820 S. Tripp, Dept. 1091, Chicago 24.

● **FEATHERS WANTED**

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.

● **REMEDIES—TREATMENTS**

Latest Methods treating Piles, Fistula, Colon-Stomach disorders. Write for book. McCleary Clinic and Hospital, E340, Excelsior Springs, Mo.

● **OF INTEREST TO ALL**

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water; pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. H-51, Chicago 22, Ill.

Save Chicken Feed! Don't feed the sparrows high priced chicken-feed. My homemade trap guaranteed to catch them by the dozens. Easy to make. Plans 10c and stamp. Sparrowman, 1715 Lane, Topeka, Kan.

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

● **FARMS—KANSAS**

160 Acres \$7,100. In Eastern Kansas. Graveled mail, milk route, phone line, 70 cultivation, 12 bluestem meadow, balance pasture; 6-room house, 44x50 barn, other improvements. Widow unable to handle makes low price \$11,000. Terms. Free folder. Peterson Realty, Osage City, Kan.

● **FARMS—MISCELLANEOUS**

Big Free Spring Catalog! Farm and country real estate bargains. Good pictures, many states, easy terms, many equipped, business opportunities. For special service, state requirements, desired location. United Farm Agency, 2825-KF Main St., Kansas City 8, Mo.

New Strout Catalog—Spring issue, just out! Farms, homes, country businesses, etc. Our 51st year. World's largest! 3,084 outstanding bargains, 33 states. Mailed free! Buy now, beat inflation. Save thru Strout, 20 West 9th St., Kansas City 6, Mo.

American Royal Dairy Show Set for May

A new feature has been added to the American Royal Dairy Cattle Show to be held in Kansas City, May 7 thru 11. Dairy breed associations in the 90 local districts of Kansas, Missouri and Oklahoma will sponsor a princess contest. Winners of the contest will be determined by sales of the most tickets in each area. All princesses will receive a trip to the dairy show and rodeo. One of the princesses will be chosen Queen.

Cash awards totaling \$20,000 along with hundreds of ribbons and trophies will be offered this year. Again, a rodeo will be staged in connection with the dairy show.

The dairy show is a farmer's show, not one designed to feature professional dairy show herds. The only show of its kind in the country, it encourages the small breeder to participate by paying transportation costs on his cattle to the show. This makes it as easy as possible for small herds to take part.

Ticket sales in Kansas are clearing thru F. W. Atkeson, department of dairy husbandry, Kansas State College, Manhattan. Information on the show can be obtained from A. M. Paterson, secretary-manager of the American Royal.

New Studies on Salt for Lambs

Salt in the diet of lambs is being studied by Kansas State College agricultural research men, with a grant from the Salt Producers Association, Detroit, Mich. Effects of both high and low potassium-sodium ratios on salt needs of feeding lambs will be studied. Whether withholding salt from the diet of fattening lambs is economically sound is being investigated. The studies just started are to tell whether withholding salt results in poorer feed-lot performance of lambs. R. I. Throckmorton, director of Kansas agricultural experiment stations, said it is hoped the studies also will add new information on the physiological function of salt in sheep's diets.

Otto Neumann Is Corn Champ

Otto D. Neumann, Hanover, is the 1950 champion of Kansas in the 13th annual national 5-acre DeKalb corn-growing contest. Sponsor of the contest is the DeKalb Agricultural Association of DeKalb, Ill. Mr. Neumann won the state title with a yield of 141.99 bushels of corn an acre. In 1949 he also won first place in Washington county in the DeKalb contest with a yield of 120.14 bushels an acre.

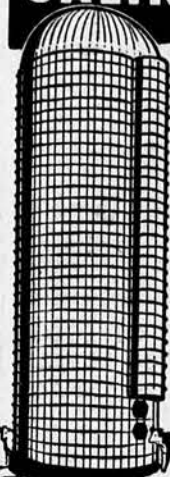
Tom Schwartz, who owns the farm adjoining the Neumann farm, won 2nd place in the state in the 1950 contest. His 5-acre contest field yielded 138.67 bushels an acre.



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Concrete stave construction means lifetime durability. All steel, air-tight, free-swinging doors give easy access.

Prevent waste on your farm... good silage helps keep cattle from getting off feed... get more profit from grasses and legumes. Let us show you how you can lower feeding costs and make your silo pay for itself.

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You've always wanted a Front Mounted Mower. Now it's here. With a Kosch, you see where you're going—see where you're mowing. Mount in a few minutes. Never before has mowing been so fast and easy. All points of wear are Standard IH parts, including bar, sickle and pitman. Thousands satisfied users. Learn why KOSCH MOWER is Best. Available for Farmall, John Deere, Allis Chalmers, Ford, Ford-Ferguson, Ferguson, and other make tractors. Get all the facts. Specify make and model of tractor. Write for FREE literature today. **KOSCH MFG. CO., Dept. E-7, Columbus, Nebr.**

QUIET, EASY RUNNING, SELF REGULATING CURRIE WINDMILL AS LOW AS \$37.00

Better mill—lower cost, in famous Currie, dependable for 60 years. Guaranteed for 5 Years! Self oiling or open geared, direct center lift, automatic speed control, internal brake. More efficient vane and sail design; responds to slightest breeze. DIRECT FACTORY PRICES SAVE UP TO 30%. PROMPT SHIPMENT. FREE LITERATURE. WRITE TODAY. **CURRIE WINDMILL, DEPT. C-94 SALINA, KANS.** DIRECT TO YOU

Build Your Own "LOW COST" Crop or Livestock SPRAY RIG WITH Farnam POWER TAKE-OFF TRAKTOR SPRAY

Why Pay \$300 to \$600 For A Spray Rig? Assemble your own, and save! Low-Cost Farnam TRAKTOR Spray Kits provide wear-resistant NYRO (Nylon Roller) Pump. Operates from power take-off. Low or high pressure! Adjustable from 25 to 400 lbs. Kits include controls, gauges, hose and fittings for either crop or livestock rigs. Booms, nozzles, tanks also available. **Farnam Equipment Co., Dept. 321, Omaha, Neb.**

Livestock Advertising Rates Effective February 1, 1951

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

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

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

You Can Do No Finer Thing

than make a generous contribution for the treatment of crippled children. The Capper Foundation will appreciate your gift and will see that it helps some worthy child on the way to a normal life.

The Capper Foundation for Crippled Children
Topeka, Kansas

CERTIFIED SEED GROWERS

Send your ad in now for the next issue of Kansas Farmer for the Certified Seed Section. Forms close March 30.

Rates: Display \$9.80 an inch, \$4.90 a half-inch
(Large black face type used in these ads)

Classified 10c a word—12 words minimum

See our Certified Seed Section

HOGS**SUPERIOR DUROCS**

Excellent fall boars and gilts by Super Spot-light, Perfect Trend, King of Diamonds—a top son of Red Diamond. These are rich red, heavy hammed, thick with smoothness and well set legs. Also offer 4 spring boars. We can fill your Duroc needs. Come or write.

G. M. SHEPHERD, Lyons, Kan.

JAYHAWK FARM DUROCS

The home of state and national winners. In this herd you will find the most of the best. Choice breeding stock for sale at all times. Visitors always welcome.

RALPH SCHULTE, Little River, Kansas

SUPERIOR DUROC GILTS

Sired by He'll Do's Model and bred to Kansas Harvester, top son of Harvester, Nebraska grand champion boar, 1950, for March and April farrow. Service-age boars. Also fall pigs by Royal Fleeting First. Registered. Immune.

B. M. HOOK & SON, Silver Lake, Kansas

ETHYLEDALE FARM

Improved for type and bigger litters. Best of breeding. Choice spring boars and spring gilts ready to go.

PRODUCTION HAMPSHIRE

DALE SCHEEL
Emporia, Kan., Rt. 2

Poland China Fall Boars & Gilts

By Buck's Lad 2nd, sire of American Royal winner, shown by K. S. C. Varnat and registered.

PAUL DAVIDSON & SONS, Simpson, Kan.

REG. SPOTTED POLAND CHINAS

Choice fall boars and gilts with plenty of length, deep sides and deep full hams. Sired by Pawnee King and Blue Ace. Double immune.

J. V. CUNDIFF, Talmage, Kan. (4½ miles N.)

SHEEP**4-H LAMBS**

Better than 100 Head to choose from
REGISTERED SOUTHDOWNS

Breeding Stock for Sale
VALLEY VIEW RANCH

Harold Tonn Haven, Kan.

Dual-Purpose CATTLE**Reg. Milking Shorthorn BULLS**

Red and roan, 5 & 6 months old, out of RM cows classified Good Plus. Very Good and Excellent.

LESLIE & LESLIE, Goft, Kansas

REG. MILKING SHORTHORN BULL

For Sale, 2 years old. Grand sire is Natick Red Robin. A. W. SHOBERG, Lawrence, Kan.
Route 2 Telephone 787N2

Dairy CATTLE

NEMAHA VALLEY HOLSTEINS
Rock-Burke breeding. Herd ave. 531 lbs. fat. Records up to 1,000 lbs. 2x 3 yr. Bulls up to service age for sale.

Mrs. H. D. Burger & Son, Seneca, Kansas

REGISTERED AYRSHIRES

For Sale—60 Heifer Calves, 2 months to 9 months old. 5 Bred Heifers, 3 Top Bull Calves. All reg.

W. S. WATSON, Rt. 2, Hutchinson, Kansas

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LIVESTOCK AND REAL ESTATE
1529 Plass Avenue Topeka, Kan.

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Purebred Livestock. Real Estate and Farm Sales. Ask those for whom I have sold.
CLAY CENTER, KANSAS

**HAROLD TONN**

Auctioneer and Complete Sales Service
Write, phone or wire
Haven, Kansas

Warfarin Stops Rats

WITH new Warfarin-type bait rats and mice present no problem. So says Val Zeigler, St. George poultryman. Even with dirt floors and straw lofts you can lick rodents before they even get half started.

Mr. Zeigler keeps bait set up in his straw lofts and feed rooms much of the time. Rodents don't get shy of Warfarin-type baits like they do many others. Rats and mice never know what hit them and have no reason to get shy of these new killers.

The effect on rodents is much like the effect of spoiled sweet clover hay on cattle. When sweet clover hay is spoiled coumarin in the plants is changed to a poisonous compound, dicoumarin, which causes internal bleeding in cattle. These Warfarin chemicals have a similar effect on mice and rats.

These compounds are quite safe to use, however. Since meats are not used in the baits, dogs and cats show little interest in them. And the chemical seems to have little effect on poultry even in quite large doses.

Cobalt Deficiency In Cattle and Sheep

Cobalt is essential for cattle and sheep. Dr. A. L. Good, Kansas State College veterinarian, says cobalt deficiency is seen most commonly in ruminant animals, such as cattle and sheep. It is thought the element has much to do with the proper growth and maintenance of bacteria and protozoa in the paunch.

Symptoms of cobalt deficiency is shown in anemia, loss of condition and lack of appetite. Feeding trace-mineralized salt mixtures which are needed in minute amounts only is cheap insurance against mineral deficiency diseases from which farm animals may suffer.

To Be National Judge

Prof. A. L. Clapp, of Kansas State College agronomy department, will be a national judge of wheat and soybean entries submitted for Pillsbury awards in Minneapolis, Minn., April 3 and 4. Professor Clapp has served on the committee of 4 judges since awards were first made in 1941. First- and second-place winners at state fairs are eligible to compete in the national event. Winning at the State Fair at Hutchinson qualifies a Kansan to compete nationally. The International Crop Improvement Association determines policies and rules governing the contest.

Increased Cattle Numbers

There were 8 per cent more cattle on Kansas farms on January 1, 1951, over a year ago. According to a recent release of the U. S. Bureau of Agricultural Economics and the Kansas State Board of Agriculture, cattle and calves (including milk cows) were estimated at 3,917,000. This total was 8 per cent below the 1944 record high of 4,274,000. Numbers of hogs increased 20 per cent from a year earlier, was the highest since 1946. All sheep and lambs were down 11 per cent—due to a reduced number of sheep and lambs on feed and wheat pastures. Stock sheep numbers showed a gain of 15 per cent from a year earlier. Number of chickens was down 6 per cent.

Southeast Kansas Aberdeen-Angus Breeders' Association

6th ANNUAL SALE

of Registered Angus Cattle at

Iola, Kansas

Fairgrounds Pavilion

SHOW AT 9:00 A. M.

SALE AT 1:00 P. M.

Wed., April 4, 1951

32 FEMALES --- 39 BULLS

You will find breeding and quality as good as the best by 29 of the outstanding breeders of Southeast Kansas.

CONSIGNORS

	Bulls	Females
RUSSELL SIMMONS, ROLLICKING ACRES FARM, Severy	3	0
FINK BROS., Redfield	1	2
GORGES ANGUS FARM, A. J. GORGES, Fall River	3	0
DALEBANKS FARMS, FRANCIS & ALICE FERRIER, Eureka	0	2
HARRY M. MILLER & SON, HAVEN ACRES, Ft. Scott	1	0
CLARENCE C. ERICSON & SONS, DOUBLE X BAR RANCH, Savonburg	2	1
PERKINS & SON, Mulberry	0	6
BLACKPOST RANCH, S. E. FIFIELD, Olathe	0	4
PECKMAN BROS., Paola	3	2
W. C. KEITH & SONS, Burlington	3	0
PIERCE, Westphalia	2	1
CREEK VALLEY FARM, LEE F. GORGES, Fall River	1	0
BERT A. FINNEY, WINSTED ANGUS FARM, Humboldt	1	3
FRED ROTHBERGER, Eudora	2	0
MR. and MRS. RAY BIVINS, JO-RA ANGUS FARM, Ottawa	1	0
JAMES L. POOL & SONS, ARNELIFFE ACRES, Wellsville	1	0
M. B. WREN & SON, MILONA FARMS, Williamsburg	0	1
MOORE BROS., ANGUS ACRES, Gardner	0	4
DAVIS P. JENNINGS, GRAIANLYN ANGUS FARM, Ope	1	0
EARL & TONY OLSON, Eureka	0	2
JOE JAURNIG, BLACKBRIDGE ANGUS FARM, Burlington	3	0
VICTOR SMITH & SONS, SMITH ANGUS RANCH, Farlington	2	0
T. M. & FRANCES GERKEN, Paola	1	0
E. A. PARKS & SONS, Pomona	2	0
LAURENCE TITUS, Coffeyville	2	0
CHARLES KUESTERSTEFFEN, Piqua	1	0
R. J. MORGAN & SONS, PLEASANT VALLEY FARM, Greeley	2	0
HUDESON BROS., Pomona	1	1
CLIFFORD E. GOODRICH, ELMDALE STOCK FARM, Columbus	1	2

**Business Meeting and Banquet at
7:00 P. M., April 3, Kelley Hotel, Iola**

For catalogs and information address

CLARENCE C. ERICSON, Sale Mgr., Savonburg, Kan.
Auctioneer: Ray Sims, Belton, Mo. Mike Wilson for Kansas Farmer

It's Easy to Do a Little "Shopping in the Advertising Columns of Kansas Farmer"

When you find the item you want, read the manufacturers' description and then hunt up your local dealer. Likely he has the product in stock you have been reading about in the Kansas Farmer.

Kansas Farmer Recommends Its Advertisers!

SALE APRIL 9TH



GET INTO HIGH PRODUCTION

IMPROVE YOUR HERD WITH

BOARS and GILTS

FEATURING THE SERVICES OF

PEPPARD'S QUALITY

AND PEPPARD'S WAVEMASTER

The offering consists of 20 boars and 40 gilts—every one double stamped with high-level quality by top-flight sires and dams. Here are "good doers" with everything you need to improve the best of herds, rejuvenate the average herd or zoom a new herd to the top quickly.

No hog raiser should miss this sale, particularly those who raise hogs for the commercial market. In the offering are full brothers and sisters of our record making show pigs—the kind that can hit the price "ceiling" faster at less feed cost. So don't miss it.

Mrs. J. L. Peppard,
Owner

Chet Swafford,
Herdsmen

PEPPARD FARMS

3½ MILES S. E.
LAWSON, MO.

NEBRASKA-KANSAS SHORTHORN AND POLLED SHORTHORN BREEDERS' AUCTION

at the Superior Sales Company Pavilion
Superior, Nebr., Tuesday, April 3, 1951

Sale at 1:00 P. M. — J. E. Halsey, Auctioneer
Show at 9:00 A. M. — K. C. Fouts, Judge

SELLING

11 Shorthorn Bulls

7 Shorthorn Females

29 Polled Shorthorn Bulls

9 Polled Shorthorn Females

Twenty-five of these bulls are strong yearlings and 2-year-olds, the remainder are 1950 spring calves that will be ready for light service when you turn to pasture in May and June. The females include 4 cows with calves at foot, 7 bred heifers and 5 open heifers. If you want more beef and milk... use a good Shorthorn or Polled Shorthorn bull. A good beef cow herd is better than money in the bank. At the 1951 record-breaking feeder calf sale at Denver, the grand champion and top-selling carload were Shorthorns, and every load of Shorthorn feeder calves commanded a premium up to \$20 per cwt. over those of other breeds. It pays to raise Shorthorns, commercially or purebred.

EVERY ANIMAL IS TB. AND BANG'S TESTED

CONSIGNORS

John Barnard, Adams, Nebr.
Elvin E. Britt, Abilene
Edw. L. Burger, Wilber, Nebr.
Martin Corliss, Hebron, Nebr.
Cedar Farms, Red Cloud, Nebr.
Carl Dierforde, Hebron, Nebr.
Henry R. Fausch, Hastings, Nebr.
Larry Gallion, Chester, Nebr.
Wayne Hamilton & Son, Mankato
Arnold Hansen, Rusklin, Nebr.
Hudson Bros., Hubbell, Nebr.
Albert Hultine & Sons, Saronville, Nebr.
J. R. Kenner, Hebron, Nebr.

Clyde W. Miller, Mahaska
Ernest H. Niemeler, Holbrook, Nebr.
Andrew Petterson, Beloit
Ernest H. Retzlaff, Walton, Nebr.
Warren L. Roe, Nora, Nebr.
Carl Retzlaff & Sons, Walton, Nebr.
Joe Slater, Rt. 2, Gibbon, Nebr.
D. V. Spohn, Superior, Nebr.
Harvey Schlermeyer, Superior, Nebr.
J. Dee Shank, Superior, Nebr.
C. B. Steward & Son, Panama, Nebr.
Stuart Sutton, Hubbell, Nebr.

For the catalog and other information address—
MERVIN F. AEGERTER, Sale Manager, Seward, Nebraska

THE ANNUAL MIDWEST POLLED HEREFORD BREEDERS' ASSOCIATION SHOW and SALE April 7, 1951 --- Deshler, Nebr.

at the Sale Pavilion

Show at 9 A. M. — Sale at 1 P. M.



30 Bulls --- 20 Females

This offering is selected from the breeding herds in Kansas and Nebraska. These represent some of the top bloodlines the breed possesses. They have been carefully selected.

CONSIGNORS

	Bulls	Females
Kenneth Kuhlmann, North Platte, Nebr.	2	1
F. L. Robinson & Son, Kearney, Nebr.	3	0
R. E. Psota, North Loup, Nebr.	3	3
Fred C. Duey & Sons, Chester, Nebr.	1	8
Fred Sukovaty, Plymouth, Nebr.	3	1
Wm. F. Kuhlmann, Chester, Nebr.	3	0
E. F. Kilmen, Hebron, Nebr.	4	0
H. H. McCann, Edison, Nebr.	2	0
L. H. & W. O. Kuhlman, Chester, Nebr.	1	1
Harold L. McNeel, North Platte, Nebr.	1	0
R. A. Madsen & Son, Minden, Nebr.	1	0
Jesse Barnes, Clay Center, Nebr.	1	0
Ed Valek & Son, Wayne	1	0
Wm. Bende, Wayne	1	0
Melvin & Mary Schiermeyer, Superior, Nebr.	1	0
Rudolph Hoops, Byron, Nebr.	1	0
Alvin H. Meyer, Chester, Nebr.	1	0
Douglas D. Duey, Chester, Nebr.	0	1
Jack V. Sell, Chester, Nebr.	1	0
E. T. York, Kearney, Nebr.	1	0
Phil Sander, Miller, Kan.	0	1
R. A. Warner & Son, Nebraska City, Nebr.	0	2
Stanley Siper, Swanton, Nebr.	2	0

Joe Lewis, Larned, Judge

Chas. Corkle, Auctioneer

For catalogs write

FRED C. DUEY, Sale Manager, Chester, Nebr.

Mike Wilson for Kansas Farmer

REDUCTION SALE OF "BARDINE" MILKING SHORTHORNS Tuesday, April 3, 1951, 1 P. M.

at
Wellington, Kansas

(4-H Building)

40 FEMALES — 5 BULLS

FEATURING: Neralcam, Hollandale, Duallyn, Fox, Bartford, Retnuh and English breeding. And most cows and heifers bred to Fox's Maid's Duke whose 7 nearest dams average over 12,000 m.-500 f. He is by Hastoe Imperial Duke (Imp) and out of a Neralcam Sir Charlie daughter.

Cows of good type with good udders. Bred and open heifers and quality bull calves. Heifers for 4-H projects. This is not a culling sale.

All cattle bred and owned by C. E. Boatright, Conway Springs, Kan.

For catalog write

C. O. HEIDEBRECHT, Sale Manager

Inman, Kansas

Auctioneers: Chas. Cole, Gus Heidebrecht, Roy Paul

Hark! Hark!—Important News to Every
one Interested in Good

HAMPSHIRE HOGS

ATTEND THE

L. E. HINES REG. HAMPSHIRE SALE

Tues., March 20, 12:30 P.M.

Come early for ham dinner at noon.

at Legion Park (in tent)

HAMILTON, MISSOURI

This is not a complete dispersion, but the larger
part of the Hines herd sells.

85 HEAD AT AUCTION—25 Top Bred Sows and Gilts. They represent an abundance of
breeding, type, quality, production and show ring winnings.

25 Outstanding Fall Boars — 25 Splendid Fall Gilts — 10 Off-belt Gilts
Featuring the blood of Imprint, a son of Mid-Fashioner; Special Design; Shine On; and
other popular bloodlines.

ONE OF THE TOP OFFERINGS TO BE SOLD THIS SPRING

Write today for sale catalog to DONALD J. BOWMAN, Sales Manager, Hamilton, Missouri
Auctioneer: Darwin Johnson



IN THE FIELD

MIKE WILSON

Topeka, Kansas
Livestock Editor

H. E. HOLLIDAY, secretary and manager of the Kansas Spotted Poland China Breeders Association sale, reports a very satisfactory sale on February 26 at Phillipsburg. Clifford Goff & Son, Burwell, Nebr., purchased the 2 top-selling bred gilts at \$360 and \$350 each. Average in this sale was probably the best average this breed has ever made in Kansas on an association sale. It was \$213 per head. Mr. Holliday says the prices paid were very satisfactory, the sale was well attended, animals were well fitted. Ron Martin, Fremont, Nebr., conducted the sale.

The KONKEL, FIESER, HOLLIDAY, WHITFIELD, SPOTTED POLAND CHINA SALE was very well attended at the Hutchinson state fairgrounds on February 13. Thirty-four head of registered Spots were auctioned. Homer Delaney, Jr., Ness City, took the top-selling bred gilt at \$160. The 26 bred gilts averaged \$126. Boars and gilts figured a general average of \$109. Probably weather conditions held some buyers away from the sale, as it was cold and quite a lot of snow, making some country roads rather bad to travel. Curt Reiger sold the offering.

KNELLVIEW FARM Duroc sale, Carthage, Mo., on February 21 attracted a number of Kansas people. Top fall boar pig at \$100 went to McGee Brothers, Blue Mound. Top bred gilt went to Arthur Harper, Jasper, Mo., at \$165. Average on bred gilts was \$133 with 40 head selling from \$100 to \$165. Thirty-three head sold to Missouri buyers with the rest going to outstate buyers. It was a snappy sale and buyers liked the kind this breeder was selling. The 6 fall boars averaged \$82.50. Bert Powell was auctioneer. Knellview Farm is owned and operated by Ed Knell and his son, Frank, of Carthage, Mo.

I have word from T. HOBART McVAY, Holstein sales manager of Nickerson, that the HENRY TOPLIFF & SON herd of Holsteins will be dispersed in the near future in Hutchinson at the Kansas State Fairgrounds. Ill health makes this dispersion necessary. This great herd has been built from good individuals, very strong Rock breeding. A number of the animals included in the sale belong to the son, Louis. He started out in 4-H Club work, has gradually built a fine herd of cattle. Those interested in good Holsteins should get in touch with T. Hobart McVay, sale manager. Write him at Nickerson for a sale catalog.

THE NORTH CENTRAL KANSAS DUROC BREEDERS sold 49 head of registered Durocs in their winter sale at Belleville on February 20. Forty-three of these Durocs were sold to buyers who live in Kansas. Allen Lard, Clay Center, purchased the top-selling fall boar at \$140. Albert Johannes, Marysville, paid \$260 for the top-selling bred gilt in the sale. She was consigned by George C. Wreath, Belleville. The fall boars made an average of \$78 per head. The bred gilts made an average of \$164 while the fall gilts were sold at an average of \$85.50. Around 500 farmers and breeders from North Central Kansas and Southern Nebraska attended this sale. The majority of the offering was sold locally. Tom Sullivan was auctioneer.

W. C. AINSWORTH & SON, Elmo, dispersed the registered herd of Ayrshire cattle on February 8 at their farm between Elmo and Abilene. A top of \$640 was paid on females by Brown Memorial Home of Abilene. The bulls that sold were only baby calves from one week to 5 months old. Burton Adamson, Toronto, bought the 5-month-old calf at the top price of \$85. Cows and heifers made an average of \$400 per head. Mr. and Mrs. Ainsworth's son, Clarence, was called into the armed forces, making it necessary for Mr. Ainsworth to disperse this good herd of registered Ayrshires. The herd ranked among the highest in the state of Kansas. The auction was conducted by Mike Wilson, assisted by Ben Shank, local auctioneer.

ZIMMERBROOK FARM, Inman, famous for its production of quality O I C hogs, held their production sale at the Jack Beverly Sale Pavilion in Salina on February 14. J. C. Murdock, Tescott, secured the top-selling bred gilt on the bid of \$150. The fall boars made an average of \$66 per head with a top of \$70. That figure was paid by C. A. Weller, Kupp. The bred gilt average was \$110. The boars and gilts together figured an average of \$90 each. The sale pavilion was filled to capacity. It was felt bad weather held back many of the out-of-state buyers. However, the offering was one of the highest quality ever presented by this breeding establishment. Zimmerbrook Farm is owned and operated by Mr. and Mrs. Vernon Zimmerman. Col. Harold Tonn did a splendid job in the box.

C. R. ROWE & SON, Scranton, sold their 45 head of registered Poland Chinas at Osage City on February 19. The sale was held in the local sale barn. The top-selling sow in this sale was Challengers Beauty, who had been in the Rowe herd 3 years. She had been grand champion at many fairs, including both Kansas Fairs at Topeka and Hutchinson. Hays Beck, Junction City, paid \$350 for this grand champion sow. The average price paid for bred gilts was \$179 per head. Several fall boars were sold at an average of \$88 with the top going at \$100 to Myron Fouse, Belpe. Around 750 attended the sale and judging contest held in the forenoon. This was probably one of the most outstanding offerings of Poland to be sold in Kansas this year. Kansas breeders purchased 42 of the 45 head sold. The sale was conducted by Mike Wilson, assisted by Jim Wilson and Roe Runyan.

The FENNEY AND JAMES ANGUS SALE, at Hamilton, Mo., on March 5, set a 1951 record for the breed when an average of \$5,025 was made on 68 lots. Seventeen bulls averaged \$9,188 with 51 females averaging \$3,639. Two bulls sold for \$34,000 and \$30,000. The \$34,000 bull, a son of Elieenmere 487th, went to C. V. Whitney Farms, Lexington, Ky. The 2nd high bull of the sale, at \$30,000, was sired by Elieenmere 999th and went to Lorrain Farms, Mason, Ga. Ten head representing service and get of 487th averaged \$13,220. Thirty head representing service and get of the 999th averaged \$3,395. They were

Beef CATTLE

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On the butcher's block and in interbreed competition, Angus steers conclusively prove their superiority as producers of better beef. For the forty-third time in 45 shows, an Angus steer carcass won the grand championship at the Chicago International. All prize-winning carcasses at this show were Angus. Blacks breed better beef! For information write: Dept. KF.



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REGISTERED ANGUS BULLS



Popular Sunbeam breeding. Several sons of Prince Enecho, our \$10,000 herd sire. Prices reasonable.

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Reg. bull calves for sale. Sunbeam breeding. CHESTNUT & RAILSBACK, Quinter, Kan.

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Shorthorn Bulls

From calves to serviceable age. Also a few well-bred heifers. Mercury and Prince William breeding. Prices reasonable.

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MULLINSVILLE, KANSAS

SHORTHORN BULLS Calves to coming
A-Bar Comp. Mercury, sire of the first prize
Junior Get at the Kansas State Fair, \$300 up.
EMERSON GOOD, Barnard, Kansas

SHORTHORN BULLS

Red, rugged and ready for service. Sired by Royal Contender by Edellyn Royal Favorite, Tomson breeding, out of dams by Royal Commander and Brawley Nugget a Canadian bull. These are out of the famous Retzlaff Golden Chain family. J. M. Nielson & Son, Marysville, Kansas

POLLED HEREFORD HERD BULL
For Sale—5 years old, son of Beau Perfect 243
and grandson of Beau Perfect 234. Never sired
a horned calf.
Leonard Harbacek, Holyrood, Kansas

Dairy CATTLE

Brown Swiss Dispersal Monday, April 9 Carver, Minnesota

The John J. Alder herd of 65 registered Swiss will be completely dispersed at the farm 8 miles southwest of Carver on State Aid Rd. 8.
30 Cows—24 Bred and Open Heifers
including 33 daughters of Annie's Keeper J.B.

9 Bulls include Comoco Ransom's
Lance whose 3 nearest dams classified excellent.

Write for catalog
NORMAN E. MAGNUSSEN
Lake Mills, Wisconsin

REGISTERED BROWN SWISS



Service-age bull from dam with
DHIA M. E. 2 yr. record of 10,487
lbs. M., 461 lbs. B. F. Sire of
James Royal of Vernon breeding.
Also some bull calves sired by
Tex Jane Hugo—now in service
at K. A. B. S. U.

Lloyd Rempel, Hillsboro, Kan.



Registered and Pure Bred
WISCONSIN HOLSTEIN CALVES
For Higher Production Herds

Exceptional offering of registered and
pure bred Holstein, Guernsey and Brown Swiss
heifers and bulls from the finest herds. Tested, vaccinated.
Well started—no milk required. Fine selection always
on hand. Approval shipment. Write today.

Lowest Prices on
HOLSTEIN
Cows and Bulls J. M. McFARLAND & Son
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SERVICE AGE

HOLSTEIN BULL

Born February 18, 1950. Sired by Maytag
Ormsby Fobes 14th, great proven sire whose
first seven 2-year-old daughters on 2X have
actual average of 505 lbs. fat 3.9%. Dam is
classified "Very Good" and has 5 records on
2X averaging over 500 lbs. fat with 4% test.
Next dam also 4%. Price \$300.00.

ERNEST A. REED & SON, Lyons, Kan.

HIGHER VIEW DAIRY FARM HOLSTEINS

Located 4 miles north of Hays, on highway
183. Featuring the bloodlines of Clyde Hill
and the Crescent Beauties. We have 125 head
in our herd. Serviceable-age bulls for sale at
all times. We offer a few females occasionally.
Visitors always welcome.
J. D. & E. E. FELLERS, Hays, Kan.

Be Sure to Attend the
U. S. Center Angus
Breeders' Associations'
6TH ANNUAL SALE
of Registered Angus
Breeding Cattle
Smith Center, Kan.
Wednesday, March 28
15 Bulls — 50 Females
65 HEAD
Show at 9:00 A. M.
Sale at 1:00 P. M.

For catalogs write the Secretary
LEONARD PATMAN
 Smith Center, Kansas
 Ham James, Auctioneer



Polled SHORTHORNS
World Wide Demand

You'll buy Polled Shorthorns
 eventually . . . why not at the

National Polled Shorthorn
Congress Show and Sale

April 9 and 10, 1951

Illinois State Fair Grounds

Springfield, Illinois

50 BULLS — 50 FEMALES

Here's a golden opportunity to select from the 100 tops from 35 of America's best Polled Shorthorn herds. And Polled Shorthorns are the logical buy for you. All the qualities of Shorthorns . . . size (to consume lots of roughage) . . . rapid growth (top weight for age) . . . good milkers (to raise a calf without help) . . . long life (to assure ample return on your investment) . . . yes, all these advantages plus natural hornlessness (an economic factor that cannot be overlooked). Plan right now to attend the sale.

Write for catalog

CLINTON K. TOMSON, Sale Manager
Polled Shorthorn Society
 Dept. KF, Union Stock Yards, Chicago 9, Ill.

See Us at the
KANSAS-OKLAHOMA
SHORTHORN
BREEDERS' SALE
Buffalo, Okla., April 5

We are consigning a beautiful dark red son of Oakwood Senator X, an outstanding daughter of Loyal Prince X and bred to Oakwood Senator X, a typey heifer by Kiowa Coronet 10th X bred to Cold Gloster 33rd X, one open heifer, smooth and very dark red, by Oakwood Senator X.
 The grand champion female in the 1949 Kansas Polled Shorthorn Show and Sale, and the 1950 grand champion bull in the same event came from our herd.
 We have two good spring bull calves, 12 and 10 months old for sale at the farm.

LOVE and LOVE
PARTRIDGE, KANSAS

ANNOUNCING THE
POLLED HEREFORD SALE
Wednesday, April 18
 at the
Hays Sale Pavilion
40 LOTS
17 Bulls — 23 Females

Captain Plato and Beau Domino breeding.
 Watch for further information.
 For catalog write
VIC ROTH, Owner
 Box 702 Hays, Kansas

CONSIGNING 1 BULL
 14 months old to the
Kaw Valley Hereford Assn.
Sale
Manhattan, Kan., March 27
 Premier—W. H. R. breeding.
 This bull is low, deep and wide.
NELSON & BRUNS, Riley, Kan.

purchased by buyers from 17 states. Kansas bull buyers were the Warren Angus Farm, Highland, and Claussen Bros., Russell. Female buyers were Black Post Ranch, Olathe; E. J. Tatje, Ramona; Floyd Erickson, Marquette, and Simon Angus Farm, Madison.

Breeders were attracted to this sale from all parts of the United States. The Ellenmere blood has been in strong demand in sales everywhere. This sale featured intense Ellenmere breeding. Two females topped at \$15,000 each. They were undefeated on the 1950 show circuit. They were purchased by Taylor Bros., Essex, Mo. J. B. McCorkle, Columbus, O., was sale manager. Roy Johnston and Ray Sims, assisted by press representatives, conducted the sale.

PAUL ERICKSON'S Poland China bred gilt sale was well attended by buyers from Northwest Kansas and Southwest Nebraska. The 11th sale from this well-known herd made an average of \$133.50 on 34 bred gilts and 3 tried sows. No high top and no low priced ones in the bred sows and gilts. Bred gilts sold from \$100 to \$157.50. The \$157.50 gilt was purchased by Ben Hoeting, Colby. Eloy Erickson, Rexford, paid \$155 for 2nd high-selling gilt. A tried sow sold for \$152.50 to Dean Soderlund, Oberlin. Joe Hubbard and Harry Cayton, both of Colby, each paid \$150 for a bred gilt. Malin Sanderson, Norton, gave \$147.50 for one of the choice gilts. Fall gilts sold from \$45 to \$47.50. Jesse Barnett, Rexford, bought the 2 gilts at \$47.50. Fall boars sold from \$50 to \$72.50. The top fall boar at \$72.50 went to Raymond Wilkinson, Beardsley. Buyers showed their preference for the earlier bred gilts and they bid readily on them. Offering was very uniform, they were not highly conditioned and many favorable comments were heard about the offering. The higher-selling gilts were sired by Herndon King.

George W. Buk, Herndon, had 4 bred gilts in the sale that sold from \$120 to \$140. Three head went to Southwest Nebraska buyers. Remainder of the offering went to Northwest Kansas buyers. Paul Erickson lives southwest of Herndon but he sold in the Oberlin Sales Pavilion on February 28. The weather was quite unsettled until noon but it didn't keep many buyers away. Selling was done by Bert Powell, Topeka, assisted by Pete Jones, Dresden, and the sales force at the Oberlin pavilion.

Public Sales of Livestock

Aberdeen-Angus Cattle

March 28—US Center Angus Association, Smith Center, Kan.
 April 4—Southeast Kansas Angus Association, Iola, Kan.
 April 12—Mid-Kansas Aberdeen-Angus Breeders' Association, Hutchinson, Kan. Phil Sterling, Secretary, Canton, Kan.

Beef Cattle

April 17—Northeast Kansas Angus Breeders Sale, Hiawatha, Kan. Harry Dandliker, Sale Manager, Hiawatha, Kan.
 May 5—Grand National Breeders Sale, Hutchinson, Kan. G. Fred Williams, Sale Manager, Hutchinson, Kan.

Hereford Cattle

March 19—C. M. Sheehy, Richards, Mo. Sale at Nevada, Mo.
 March 27—Kaw Valley Hereford Association, Manhattan, Kan. M. B. Powell, Secretary-Manager, Manhattan, Kan.
 April 7—Mid-West Polled Hereford Sale, Deshler, Neb. Fred C. Duey, Sale Manager, Chester, Neb.
 April 17—Sutor Hereford Ranch, Zurich, Kan.
 April 18—Vic Roth Polled Hereford Sale, Hays, Kan.
 April 26—O'Bryan Ranch, Hiattville, Kan.
 May 21—Vic Roth, Rays, Kan.
 October 12—Brown Brothers, Fall River, Kan.
 October 22—Beeks & Cleland, Baldwin, Kan.
 November 1—Flint Hills Association, Cottonwood Falls, Kan.
 November 2—Haven Hereford Breeders, Hutchinson, Kan.
 November 3—Jesse Riffel & Sons, Enterprise, Kan.
 November 7—Cowley County Hereford Breeders, Winfield, Kan.
 November 10—W. H. Tonn & Son, Haven, Kan.

Brown Swiss Cattle

April 9—John J. Alder, Carver, Minn. Norman E. Magnussen, Sale Manager, Lake Mills, Wis.
Holstein Cattle
 March 19—Tulsa Spring Classic Holstein Sale, C. O. Abercrombie, Sale Manager, Vinita, Okla.
 April 30—Henry Topliff & Sons Dispersion and Central Kansas Consignment, Hutchinson, Kan. T. Hobart McVay, Sale Manager, Nickerson, Kan.
 October 10—Kansas State Holstein Association Sale, Abilene, Kan. Grover Meyer, Chairman of Sale Committee, Basehor, Kan.
 October 25—Central Kansas Holstein Consignment Sale, Hutchinson, Kan. T. Hobart McVay, Sale Manager, Nickerson, Kan.

Shorthorn Cattle

April 3—Nebraska-Kansas Shorthorn Association, Superior, Neb.
 April 6—Mid-Kansas Shorthorn Sale, Salina, Kan. Mervin F. Aegerter, Sale Manager, Seward, Neb.

Milking Shorthorn Cattle

April 3—C. E. Boatright Reduction Sale, Conway Springs, Kan. Sale at Wellington, Kan. C. O. Heidebrecht, Sale Manager, Inman, Kan.
 April 27 and 28—National Milking Shorthorn Congress Show and Sale, Springfield, Mo. Managers—American Milking Shorthorn Society, 313 South Glenstone, Springfield, Mo.

Polled Shorthorn Cattle

April 9 and 10—National Polled Shorthorn Congress Show and Sale, Springfield, Ill. Clinton K. Tomson, Sales Manager, Polled Shorthorn Society, 7 Dexter Park Ave., Union Stock Yards, Chicago 9, Ill.

Duroc Hogs

March 19—C. M. Sheehy, Richards, Mo. Sale at Nevada, Mo.
 April 12—John Gareis, Wamego, Sale at St. Marys, Kan.
 April 18—Ed Knell & Son, Carthage, Mo.
 April 21—T. M. Gerken, Paola, Kan.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$37.75	\$38.25	\$31.00
Hogs	22.50	23.75	17.35
Lambs	40.00	39.00	27.50
Hens, 4 to 5 lbs.33	.33	.25
Eggs, Standards45	.42 1/2	.30
Butterfat, No. 163	.65	.61
Wheat, No. 2, Hard	2.46 1/2	2.53 1/2	2.30 1/2
Corn, No. 2, Yellow	1.72 1/2	1.78 1/2	1.32
Oats, No. 2, White	1.08 1/2	1.09	.85
Barley, No. 2	1.57	1.57	1.21
Alfalfa, No. 1	37.00	39.00	27.00
Prairie, No. 1	18.00	18.50	14.00

MID-KANSAS SHORTHORN BREEDERS SHOW and SALE

Friday, April 6, 1951

Saline County Fairgrounds

SALINA, KANSAS

SHOW AT 9:00 A. M. — SALE AT 1:00 P. M.

Judge—WALTER HUNT, Arkansas City, Kan.

Auctioneer—C. D. SWAFFER



SELLING
45 Bulls
25 Females

These Salina Shorthorn Sales held each spring and fall are fast becoming "headquarters" for buyers over an 8-state area. There is a reason for it too, because no other sale can match this Mid-Kansas event in the great strides in quality and volume it has been making. It will be the largest Shorthorn Sale in the entire state of Kansas this spring, so you are assured of the very top selection from Kansas' top herds.

There are 15 rugged coming 2-year-old bulls all calved in 1949. Only 10 of the 45 bulls offered will be under 12 months old. Leading bloodlines, Calrossie Mercury, Prince William, Mount Banker, Calrossie Prince Peter, Lawton Favorite, Supreme Admiral, Millhills Starry Archer, Klaymor Equipoise, Edellyn Royal Leader, Killearn Max 5th and Goldfinder.

The females include about an equal number of cows with calves at foot, bred and open heifers. This is definitely the best group of females ever offered at Salina and includes a near dispersion of the Hans Regier herd of Whitewater, Kan.

Every animal is Tb. and Bang's tested

For the catalog and other details, write

MERVIN F. AEGERTER, Sale Manager
 SEWARD, NEBRASKA

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 R. L. Bach, Larned
 Wayne K. Boldt, Raymond
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 Merlin Moorman, Solomon
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Art Nelson, New Cambria
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 Hans Regier, Whitewater
 D. A. Reusser, Wellington
 J. M. Reusser, Mulvane
 Patricia Lee Stauffer, New Cambria
 Richard Tindell, Burlingame
 Tomson Bros., Wakarusa
 Arthur R. Waits, Cassoday
 J. H. Bowser & Sons, Abilene

KAW VALLEY HEREFORD ASSN.

Show 9:00 A. M.—Sale 12:30 P. M.

Tues., March 27, 1951

Riley County Fairgrounds

Manhattan, Kan.

35 BULLS—Herd Sires and Herd Sire Prospects
15 FEMALES—Pairs, Bred Heifers & Heifer Calves

Horned and Polled

CONSIGNORS

BRETHOUR BROTHERS, Clay Center
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 JONES HEREFORD FARMS, Detroit
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 ZIMMERMAN, W. R., Alta Vista
 LONGHAFFER, LELAND, Enterprise

Auctioneer—Gene Watson

For catalog write to

M. B. POWELL, Kansas State College, Manhattan, Kan.
 Mike Wilson for Kansas Farmer

Judge—Don Good, K. S. C.



Of course these are silly questions.

One of the best things about the United States is that it is big—big enough to supply the needs of 151,000,000 Americans, and of many other millions the world over who are semi-dependent on American production.

And yet some men in this big country are critical of bigness.

"Big Business" is their special target. They have urged that some of America's leading business organizations be split up, on the grounds that these companies are "too big" to serve the public interest.

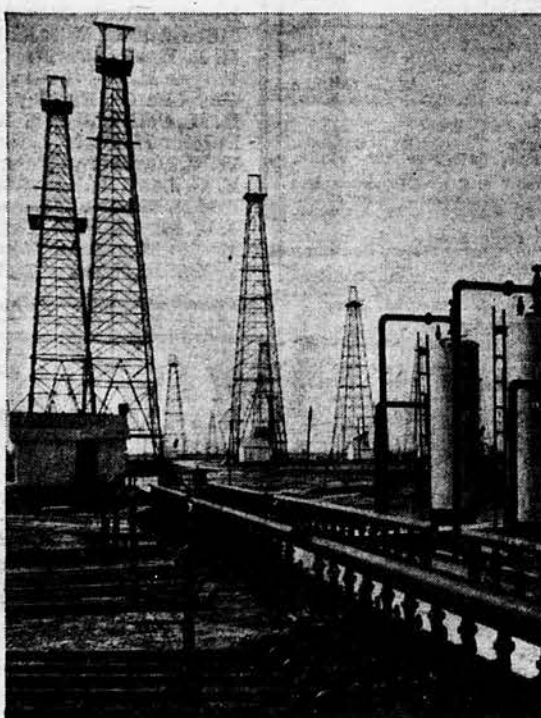
They forget that it was the public's freedom of choice that made these businesses big. They forget that the ability of business to handle big jobs is what helps America in war and serves America in peace.

Companies stay big because millions of customers keep them big. The same people who helped make any business big can make it small again, if they find more satisfaction in buying the products and services of its competitors.

In this country, a company's bigness is one of the best proofs of its usefulness.



The United States is not the biggest country in the world, but it is one of the biggest. It has the highest standard of living for the greatest number, because Americans have always been free to produce for themselves and for each other. God gave us a rich land; competitive effort has made it richer. The United States has grown because its people have always believed in bigness, not as an end in itself but as a natural result and reward of worthy effort.



The petroleum industry is not the biggest industry in America, but it is one of the biggest. It contains many thousands of separate companies, large and small, competing with each other to serve you by steadily making petroleum more useful. The petroleum industry has grown big because it helps satisfy Americans' desire to live better. Military leaders say that the American petroleum industry's size and vigor have twice proved indispensable in war.



Our company is not the biggest company in the petroleum industry, but it is one of the biggest. From small beginnings, we and our subsidiary companies have grown into an integrated organization of more than 46,000 employees, working together to serve you. We have over 96,000 owners. We have millions of customers, all of them free to buy from our competitors. It is they who make us big—and we can stay big only as long as we serve them well.

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