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Kansas Farmer

CONTINUING MAIL & BREEZE

FEBRUARY 5, 1949



To Give Farm Families Better Service

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Firestone OFFERS THREE POSITIVE WAYS TO GET MORE DRAWBAR PULL FROM YOUR TRACTOR

1 EQUIP YOUR TRACTOR WITH Firestone CHAMPION GROUND GRIP TRACTOR TIRES

For greater drawbar pull, get the tires that deliver the greatest tread bar pull — Firestone Champions. It's no wonder they **OUTpull** all other tractor tires. One look at the tread bars is enough to tell why this tire outperforms

all other tires. Anyone can see that these bars take a *deeper bite* because they're higher, a *bigger bite* because they're longer, a *stronger bite* because they're Triple-Braced, and a *sharper bite* because they're especially curved for self-cleaning.

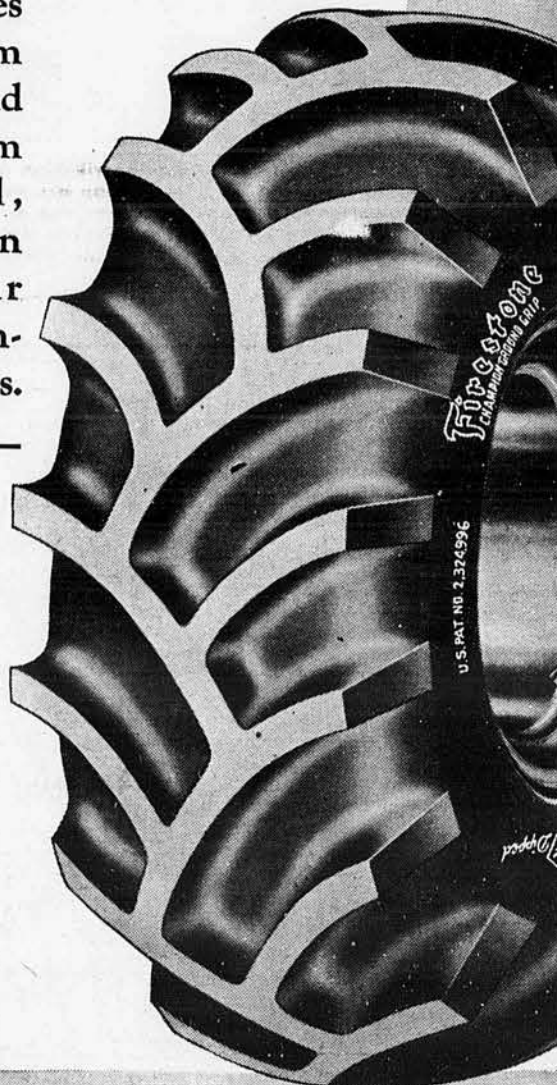
2 HAVE YOUR TIRES HYDRO-FLATED

Firestone Hydro-Flation insures the right liquid-air ratio for maximum traction. You get enough liquid weight to insure maximum drawbar pull, enough air cushion to protect your tires against dangerous body shocks.



3 INFLATE YOUR TIRES TO 12 POUNDS

By using only 12 pounds pressure, the whole tread is in full contact with the ground for greater drawbar pull. You can do this safely with Firestone Champion Ground Grip Tractor Tires because the side-walls are reinforced for low-pressure operation.



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Liberal Pond Program

Farmers desiring to build farm ponds in 1949 will find the regulations of Agricultural Conservation Program more liberal.

Prior approval on stock water dams is still required. But the amount is no longer limited by the number of acres in the pasture in which the dam is located. In the 1949 ACP program, county committees may approve an amount not exceeding \$750 for development of stock water dams in any size pasture. In previous programs, the maximum amount that could be approved by the county committee was restricted by the size of the pasture.

In addition to more liberal regulations under which practice payments may be earned for construction of farm ponds, the county committee can approve assistance to the producer for the fencing of the dam and reservoir area, for installation of trickle pipes or draw-down pipes to protect the spillway, and can also authorize payments for seeding and sodding earthen fills and filter strips. For large dams, where a considerable wave action occurs, county committees may assist operators by paying a part of the cost of rip-rapping the face of the dam as a protection against erosion by wave action.

Big Wheat Counties

The 5 banner wheat-growing counties of Kansas each produced more than 5 million bushels in 1948, reports Hubert L. Collins, Federal-State statistician for Kansas. The 5 counties and their yields are: Ford, 6,291,000 bushels; Reno, 6,020,000; Sumner, 5,270,000; McPherson, 5,269,000; and Gray, 5,037,000.

Reno county holds the 10-year high production record (1939-48) with 53 million bushels. Sumner and Ford each have produced 49 million, and McPherson and Barton, 43 million bushels each, which is a lot of wheat.

Ford county has led in acreage seeded to wheat for 5 straight years. The county harvested 379,000 acres in 1948. Reno was second with 350,000 acres, followed by Sumner, 340,000; Gray, 309,000; McPherson, 273,000; and Barton, 262,000.

Shawnee and Brown counties tied for first on high-average yields with 26 bushels, followed by Douglas at 25 and Atchison at 24.4 bushels.

One fourth of all winter wheat produced in the U. S. in 1948 was grown in Kansas.

92 Soils Districts

During 1948, twelve Kansas counties voted to establish soil-conservation districts, reports R. C. Lind, extension soil conservationist at Kansas State College in Manhattan. This brings the total in Kansas to 92, leaving only 13 counties in which districts have not been approved.

"The first district was set up just 10 years ago in Labette county," added Lind. "There are now 22,483 farms in the state with soil-conservation plans that have been developed in co-operation with the soil-conservation districts. These farm plans cover 6,620,000 acres."

Senator Capper on Radio

Every Sunday afternoon at 3:30 o'clock Senator Arthur Capper discusses national questions over WIBW radio station.

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Normal Weather

Doesn't Happen Very Often

By A. D. ROBB, Meteorologist
Weather Bureau, Topeka, Kansas

17.86	18.53	19.49	20.82	22.41	22.68	24.56	26.52	27.61	28.27	30.33	32.44	33.14
17.98	18.02	19.35	20.55	22.44	21.63	24.17	25.24	27.92	32.10	32.01	34.98	35.01
16.32	18.97	19.76	21.54	23.05	24.53	24.24	25.76	27.92	31.55	33.31	32.58	35.40
16.42	17.31	18.61	18.77	20.38	21.95	24.00	26.33	27.00	31.36	34.76	35.85	37.27
16.97	16.85	19.01	20.14	23.48	24.58	28.53	31.25	30.13	31.87	34.10	37.27	38.40
15.85	17.24	18.02	19.93	20.13	22.44	24.58	28.53	31.03	33.71	35.05	37.56	39.99
15.85	17.24	18.02	19.93	20.13	22.15	24.23	29.28	30.37	31.03	35.09	36.96	39.45
16.88	17.87	18.94	19.75	23.37	23.31	25.47	27.41	32.04	32.90	38.46	37.70	40.22
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Chart No. 1—Figures in each county show the normal precipitation (hail, snow, sleet, mist, rain) during the year. Cherokee county tops the list, Stanton county gets the least. These figures are computed from records covering the period 1898 thru 1942, from monthly amounts.

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HAIL, snow, sleet, mist, gully-washers, and those nick-of-time drouth-breakers all are included in the term precipitation, meaning deposited on the earth or to fall on the earth. The expression "normal precipitation" is more or less hypothetical or assumed, as the normal rarely occurs. means in common usage, the average for a period of years of all the moisture in these various forms that has been recorded at a given locality. The normal annual precipitation pattern for Kansas is shown in Chart No. 1. The amounts for the various counties vary from the greatest, 41.86 inches in Cherokee county in the southeast, to the least normal annual total, 15.85 inches at Johnson, in Stanton county. It will be observed that the northwestern counties have several inches more than the southwestern, the north-central counties slightly less than the south-central, and the northeastern area 6 to 8 inches less than the heavy rainfall area in the southeast.

The differences and graduations are perhaps better shown on Chart No. 2. Here lines indicating the inch limits are drawn. Along the southern border the annual precipitation decreases at the rate of about 1.00 inch for each 16 miles of westward travel, while in the northern counties the decrease is a little more irregular and not so rapid, especially in the southeast the decrease is quite rapid, some of the smaller counties of the state in that area receiving 4 inches less precipitation in the west or northwest portion of the county than in the southeast. In the western portion of the state the

westward decrease is at a much reduced rate.

The normal distribution of precipitation thru the months is quite interesting as shown in Chart No. 3. In the colder season there are 5 or 6 months in the west with less than an inch. With the gradual increase of precipitation toward the east we find that the most eastern stations all have more than an inch each month of the year. From this very light precipitation in winter, a sharp increase is observed beginning in the most eastern counties in February, and especially so in the southeast

at Columbus, but delayed until March in the more western sections of Kansas. After the rain has increased to its peak of about 2.00 inches or more a month in the southwest, that amount continues to be received for about 4 months, while up in the northwest another month of 2 inches may be expected before the decline begins. In the eastern half all of the stations have 4 inches or more for one or more months.

After the peak has been reached over the west the decline begins almost immediately and continues into the win-

ter. In the eastern half there are 2 peaks of precipitation, in May or June and again in August and September, after which the regular decline takes place. In the area from Medicine Lodge and Hutchinson northeastward toward Topeka, May appears to have a greater amount than June, but over the remainder of the state, June is the month of greatest precipitation. If these months were broken down to shorter periods, very likely the greatest 10-day or 2-week period of precipitation would come about the latter part of May and the first days of June. From Hutchinson and Cottonwood Falls north, August has the greater amount of the late summer rains, while September has the most in the extreme east and south portions.

The most prominent peculiarity in the normal precipitation over Kansas is the decrease in July, just when more rain is needed, especially in the eastern or corn-growing portion of the state. It is at this period of year that corn has reached its critical stage of silking and tasseling and hot, dry weather is a detriment and rainfall a blessing. With July in 1948 providing the greatest amount of precipitation in the eastern section in the weather history of Kansas, we have a good sample of what corn might be produced year by year if the normal precipitation in July was increased to 5 or 6 inches instead of decreasing to about 3.50 inches as it does. If it ever becomes possible to make rain on a large enough scale to be a material benefit, the last half of July would be a most desirable time to do so. The corn crop needs it then.

DISTRIBUTION OF NORMAL PRECIPITATION

KANSAS

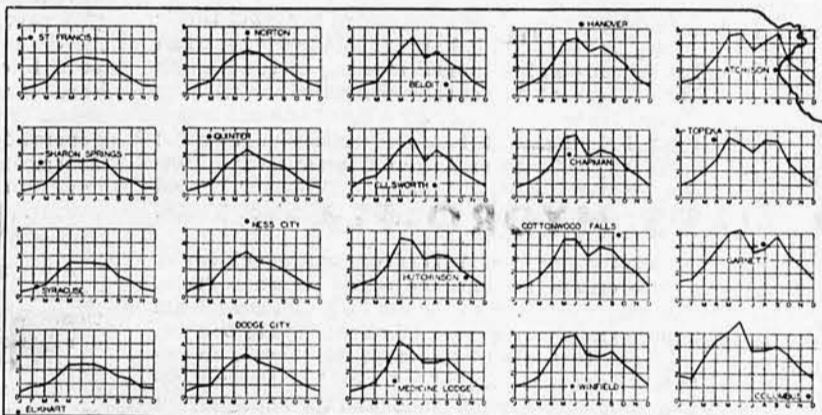


Chart No. 3—Here you see the normal distribution of precipitation thru the months in Kansas. Figures at left of each map are inches—0 to 5, reading up. Letters along bottom of each map, left to right, are months—January to December. Curved lines show how precipitation starts low (left side of maps), climbs up to a peak, and then goes down again (right side of maps).

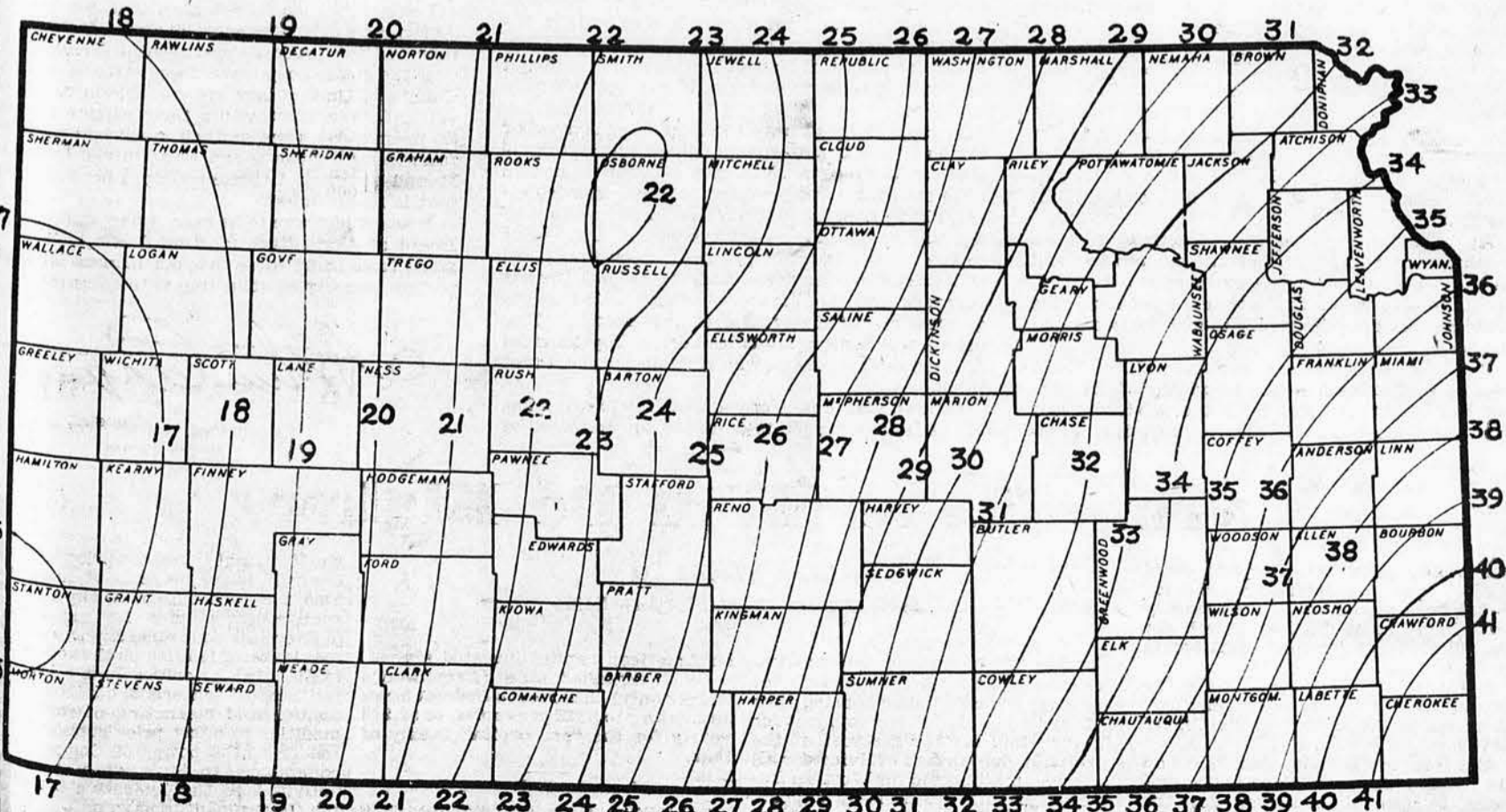


Chart No. 2—Lines show differences and graduations of normal annual precipitation. Follow the line from 18 to 18, for example, and you are in the 18-inch precipitation area. Same holds true for each set of numbers.

Farm Matters

AS I SEE THEM

I AM becoming more and more suspicious of these grandiose plans for prolonging the inflation "boom" in the United States, by continuing to provide foreign nations with American dollars with which to "buy" American farm commodities and the products of American industry.

In the long run, I do not believe the program will work. At least not to the advantage of the American farmer and the American workman.

For the time being, these programs—entirely apart from and in addition to their altruistic appeals: that we are thereby sharing our substance with a world not as well off as we are—certainly have their appeal.

Just for instance. Thru this program of Uncle Sam assuming responsibility—including financial responsibility—for world recovery, we are exporting about 500 million bushels of wheat (or equivalent) a year.

In addition, Uncle Sam is underwriting the export of huge quantities of steel and products made from steel; all kinds of manufactured products.

The rest of the world does need foodstuffs. The rest of the world needs almost everything. There is no gainsaying that fact. And you and I have gone along with the idea of the American people trying to satisfy those needs, to the best of our ability. And I believe we, the American people, should be generous in this regard; should continue to be generous.

But I note a growing disposition to regard this not as charity, but as "good business." Our foreign spending program, it is pointed out, provides a continuing market for exports of farm products. Our foreign spending program provides a continuing market for products of American industry, thereby providing jobs for American workmen, and insuring full employment.

But the proponents of this program of foreign spending program to continue "prosperity" for the American farmer and workman, it seems to me, are overlooking some fundamental facts that cannot forever be ignored.

Uncle Sam, with 147 million people of his own to look after, in dealing with some 2,000 million "children" in other nations in world trade, is not altogether different from any other head of a business institution.

Any business man who provides his customers with the dollars to buy his goods, will find a ready sale for his goods—while he continues to provide both goods and dollars. And he can build up a big business in producing raw materials from which to manufacture the goods he has to sell. He can build up a big plant to manufacture semi-finished and finished goods to "sell" to his customers. He can build up a pretty good sized distribution agency to handle the "sales" of his goods.

Matter of fact, a business man who provides his customers with both the money to buy his goods and with the goods to exchange for the money he supplies, undoubtedly will experience a business "boom"—as long as he continues to supply both money and goods.

And the producers of raw materials, and the manufacturers and distributors who process and handle his goods, also will experience a business "boom,"—as long as the customers get from this business man both the money to buy the goods and the goods themselves.

But that is not the entire picture. Since Uncle Sam as a business man has no money of his own, but has to obtain funds from the producers and manufacturers and distributors—including work-

ers) who produce and process and distribute the goods, it amounts to the producers and manufacturers and processors and distributors (and their workers) providing the money to buy the goods as well as the goods.

In the present instance, Uncle Sam is not only a world business man, but also an American tax collector. With one hand he collects taxes from his American producers, manufacturers, distributors (and their workers) to provide dollars for his foreign customers; with the other hand he gives American dollars to selected customers abroad. These selected customers abroad then use the American dollars to buy the American goods.

The question that comes to my mind, and makes me a little suspicious of the soundness of this spending-lending foreign program is just this:

How long can Uncle Sam's 147 million people—producers, manufacturers, distributors (and their workers)—continue to pay increasing taxes to provide the American dollars with which the selected customers among 2,000 million people abroad can continue to buy American goods? Do any of you have the answer?

A Thrilling Experience

I WANT to report here on one of my most thrilling experiences. It happened January 14, when the seventy-eighth annual meeting of the Kansas State Board of Agriculture presented me with an honor plaque. The wording on that plaque is something I shall cherish long and sincerely. It reads:

"In appreciation of Arthur Capper, native Kansan, Printer, Reporter, Publisher, Governor, United States Senator, Philanthropist, Friend of Youth, Champion of Agriculture."

I see the Board of Agriculture has been keeping an eye on me, because the whole record is there. The only thing left off is the fact that now I am home as a private citizen, and I am glad to be here.

I hope that record has been worthwhile to my fellow Kansans. I meant it to be. The thought always uppermost in my mind, and the hope deepest in my heart, was that I always would serve my state and my Nation well. I could give nothing but my best in public service, because back of me I knew were many, many thousands of sincere Kansas people. I also knew I was representing as Governor, and as United States Senator, what to me is the greatest state in the Union. The importance of Kansas in the national picture had to be kept before the country. I am glad I could help do that job. You good people of Kansas were generous enough to give me the opportunity, and I appreciate it very sincerely.

It happens that I have received other honors for things I tried to do—some of them successfully—down at Washington. Virtually all of these honors have been from farm-minded people, because I always have been more interested in the welfare of agriculture than in any other business. But I want to say here, this honor granted me by the Board of Agriculture delegates, and the 140,000 Kansas farmers and stockmen they represented, is the greatest award of merit I ever have received. This plaque will hang in my office here in Topeka right over my desk where all who visit me can see it first thing.

I hope a great many of you will drop in to see me. We all have a big job to do in the future. A job of

keeping this country on an even keel. I think the more we talk over our problems, the more likely we are to find the right solutions. So, my friends, I hope you will stop in to see me whenever you can.

I have read with a good deal of interest the resolutions adopted by this recent Board of Agriculture

meeting. When delegates representing 140,000 Kansas farmers and stockmen come to any decision, it is well for all of us to pay attention. I find first of all, that our Kansas farm folks—in these resolutions—pledged themselves to work for world peace. I wish the farmers of all nations could get together and talk things over. If they could meet and discuss their mutual problems, there wouldn't be any sign of war for all time to come.

Like these delegates, I also believe that agricultural prices have been overemphasized in the overall picture of high living costs. It is ridiculous to believe that production costs on the farm haven't gone up as much or more than costs in other lines. Since prices farmers received were not on a par with other incomes before this period of higher prices started, it is obvious that farmers are not and never have gotten more than their fair share of the dollar.

On national agricultural policy, Board of Agriculture delegates reaffirmed their endorsement of the principle of parity prices "as a basis of providing equality of purchasing power between the respective segments of American economy." They favor a general program of price supports at 90 percent of parity on agricultural commodities. Why? "We favor such supports," the delegates said, "not for the purpose of maintaining agricultural prices at high levels, but for the prevention of a possible agricultural price collapse such as that which followed World War I, and which led the way to a general depression and serious shock to the entire American economy." That is straight thinking. Let agriculture break, and the whole country breaks with it.

Always with an eye to improvement, delegates went on record in support of research and education. "We appreciate the excellent work done by our Agricultural College in the field of research and education, much of which is impossible to value in dollars and cents. One phase we can measure is the contribution of improved wheat varieties. These new wheats give to farmers of Kansas at least 30 million extra bushels each year. This one item alone would more than pay all experiment station expenses since the station was established." No wonder the delegates urge the legislature to grant the proposed budget for Kansas State College.

I was very glad to see, also, that our Board of Agriculture delegates are well aware of the importance of the several experimental farms located over the state. They know these stations, at Hays, Colby and Garden City are valuable in developing better farming methods in their particular areas. So it isn't any surprise they are boosting for the full support of the recently acquired farm near Mound Valley, in Labette county. I hope that support is forthcoming.

It was a pleasure to be in on a part of this year's Board of Agriculture meeting. I can well understand from being there that our Kansas farm people are keeping right in step with progress.

Arthur Capper

Topeka, Kan.

Your Taxes Will Be Higher

By CLIF STRATTON

Kansas Farmer's National Affairs Editor

IF THE Eighty-first Congress could just figure out the tax problems for all the American people as quickly and simple as it did last month for President Harry Truman, that would be great.

But that task is beyond even the capabilities of the most "mandated" Congress in the history of the United States.

Congress to date has "mandates" on the "give" side for the Federal Government to provide education for the young; security for the old; subsistence for the unemployed; high prices for the farmer; high wages for labor; low

prices to the consumer; free medical services, including hospitalization for everyone; low cost public housing; low cost public power; full employment for all; economic aid for the rest of the world; a high standard of living for all the world; military aid for Western Europe's rearmament; military support for nations of Western Europe that will join the North Atlantic Military Alliance; in addition to guaranteed returns

on American capital invested abroad. On the "take" side (President's budget only) that means Federal taxes amounting to \$312 per capita, or \$1,248 yearly for the "per capita" family of four.

More Controls Asked

In addition, there are "mandates" on the "make" side to give the Federal Government: "standby" authority for

the President to impose price and wage controls when he finds it necessary; also for extension and expansion of rent controls; plus further controls over credit; continued export controls; regulation of trading on the commodity exchanges; priorities and allocations for "scarce" materials; controls of production and marketing of farm commodities to offset price supports; surrender of the power of Congressional committees to investigate subversive activities to the Executive branch of the Government, and so on.

The combination is what President (Continued on Page 28)

What Farmers Heard and Did At Board of Agriculture Meet

RETIRING Senator Arthur Capper was guest of honor at the final session, January 14, of the Kansas State Board of Agriculture, in Topeka. In a public ceremony, B. H. Hewitt, president of the board, paid tribute to Senator Capper's long years of service to agriculture, and to the example he has set for Kansas young people to follow. A plaque was presented to the senator by the State Board in appreciation of his services.

Prior to the presentation, Governor Frank Carlson reviewed the achievements of Senator Capper in Congress in behalf of the farm people of Kansas. H. H. Smith, of Smith Center, was elected president of the State Board of Agriculture for 1949. Elmer McNabb, Pleasanton, was elected vice-president, and M. E. Rohrer, Abilene, was elected treasurer.

Here are other high lights from the Board's program:

Grain and forage sorghums have played an important part in stabilizing Kansas agriculture, said A. F. Swanson, Hays, a U. S. Department of Agriculture agronomist.

Forage sorghums as bundle feed should be fed only during fall and early winter, Mr. Swanson told farmers, since sugars in the stem often decompose after low temperatures in January and February, followed by thawing and freezing. Shocked fodder gradually loses its nutritive value with the approach of spring.

Ensiled sorghums, properly stored, in silos, plus stacks of fodder and bundle feed and shelter are the farmers best guarantees against livestock losses when sudden blizzards sweep the prairies.

Good Grain for Livestock

Kansas ranks second of all states in production of grain sorghums, Mr. Swanson pointed out. These grain sorghums are more profitable to grow than corn in Western Kansas and at least 2 of them, Midland and Westland, have proved equal to corn as livestock feeds.

Sorghum grains are used for human food in many parts of the world, Mr. Swanson said, and this country is becoming interested. Research now is trying to adapt sorghum grains for breakfast food products. Many industrial uses of sorghum grains are still in the infancy stage, he said, and will be expanded. Sorghum grain for starch now appears to be the main industrial market.

Profitable utilization of grass depends on individual farms and ranches, delegates were told by Dr. A. D. Weber, head, animal husbandry department, Kansas State College. "No one system of grass utilization will fit all situations. But 'no system at all' is bound to result in failure, and could wreck the soil conservation program," Doctor Weber said.

He outlined the grass utilization experiments now being carried on at the college. Some of these studies include effects of different wintering programs on subsequent pasture gains; supple-



H. H. Smith, new president of the State Board of Agriculture

mental feeding on pasture; relationship of pasture burning to grazing management, and studies of grazing practices.

"Substantial expansion of our livestock and dairy industry may be the answer to the grain surplus problem," said Allan B. Kline, president of the American Farm Bureau Federation. An expanded livestock program would not only solve the surplus grain problem but bring better land use, he said.

In discussing the farm legislative program on a national basis, Mr. Kline said, "We simply must provide some flexibility in our farm program to enable individual farmers to pick and choose to shift production plans if economic conditions seem to warrant it.

"A system of too-rigid controls, with their accompanying regimentation, is bound to impede progress. We must not hinder high production per worker, which is the only means by which high real wages may be earned."

R. I. Throckmorton, dean of agriculture at Kansas State College, outlined 7 points that we should do to secure the future of the Kansas wheat industry. They are:

1. Increase domestic consumption both for human food and industrial use.
2. Produce high-quality wheat to enable us to compete successfully with Canada, Argentina and Australia in foreign markets.
3. Reduce production costs by good soil management and tillage practices, seeding of adapted varieties and controlling insects and diseases.
4. Make production more consistent year after year by practicing soil and moisture conservation, systematic fallowing where needed, growing adapted varieties, and growing wheat only on those lands well adapted to its production.

5. Improve storage and marketing conditions.

6. Establish foreign trade relations which will make it possible for the United States to compete successfully in world wheat markets.

7. Develop varieties of good quality that are adapted to our conditions and that have resistance to stem rust, heat and drought.

George D. Scarseth, director of research, American Farm Research Association, La Fayette, Ind., waved off fears for huge grain surpluses in the future. He pointed to the fact that world population has doubled in the last 70 years and is increasing at a rapid rate, while soil fertility is going down. "We need more balanced farming," he said, "so we can produce the



M. E. Rohrer, Treasurer, State Board of Agriculture

same amounts of grain on less acreage while building up our soil."

Other speakers included: Dr. Roger C. Smith, head, department of entomology, Kansas State College, who discussed new insecticides and their uses; T. F. Yost, state weed supervisor, who told of progress in weed control work, and Senator Riley W. MacGregor, chairman, Governor Carlson's highway committee, who reported on the Kansas highway problems and their solution as recommended by his committee.

Here are resolutions passed at the board's session:

Favored a general program of price supports at 90 per cent of parity on agricultural commodities, at least when allotments or marketing quotas are in effect. Favored fair prices for



Elmer McNabb, Vice-President, State Board of Agriculture

agricultural products rather than subsidies.

Asked for greater uniformity in rural electric rates in areas of comparable density of population. Urged legislative approval of increased Kansas State College budget for more classrooms, expanded research and more satisfactory salaries. These are needed, delegates think, to keep Kansas State College in front.

Asked for uniform dairy regulations and inspections among states and that dual inspection of milk, cream and other dairy products be eliminated. Favored repeal of all special taxes on butter substitutes, but prohibiting manufacture and sale of butter substitutes colored yellow or in imitation of butter.

Favored repeal of the one-cent gasoline tax. Favored a severance tax on mineral products. Asked for a second scale-testing truck and expansion of testing service. Urged use of grades and standards in buying and selling of eggs, poultry, fruits and vegetables.

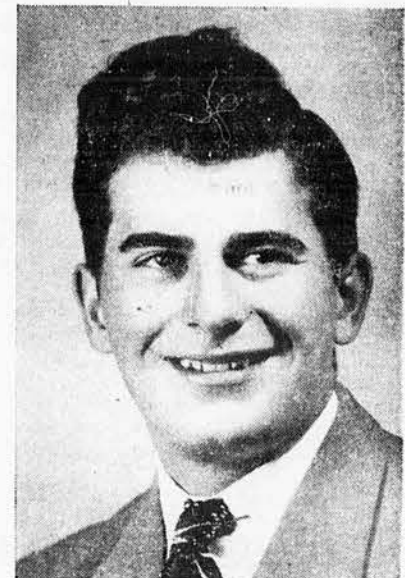
Asked legislature for funds to develop and operate a branch experiment station in Labette county. Asked for funds to expand state seed testing facilities. Urged that state brand laws be strengthened. Opposed any change in present exemption system on non-highway gasoline.

Urged change in Kansas Farm Bureau law to allow counties with less than 15 million dollars valuation to make sufficient levy to support Extension program. Supported increases in statutory limits on township levies to allow for increased road funds.

WIBW Award Winners



Evelyn Haberman, Heizer



Keith Boller, Newton

KEITH BOLLER, Newton, and Evelyn Haberman, Heizer, won the 1948 WIBW service awards, it has been announced. Objective of the awards is to encourage leadership in the club and service to the community and nation. Each winner receives a \$250 scholarship to the college of his choice and a \$100 speaking and educational trip within the state.

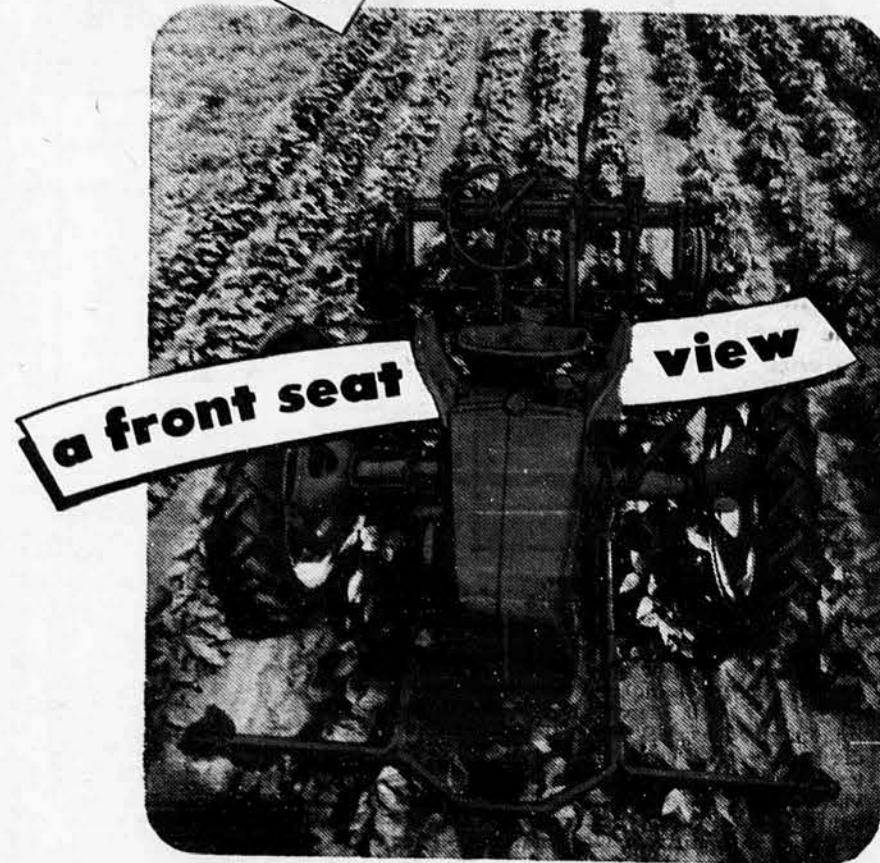
Evelyn Haberman is a member of the Eureka Homesteaders 4-H Club and has been a club member for 5 years. In addition to outstanding leadership within her club, Evelyn has given many promotional talks to community and civic groups on UNESCO and 4-H.

Keith Boller is a member of the Lucky 13 4-H Club and has been in club work 6 years. During 1948 he talked before 702 persons on the subject of "What 4-H Offers." He has been a club leader in a wide variety of activities.



Senator Arthur Capper, left, receives State Board of Agriculture award from B. H. Hewitt, president, as Governor Frank Carlson and Secretary J.C. Mohler stand by.

RESERVED FOR YOU



TODAY is the day to call your Allis-Chalmers dealer for a demonstration of the Model G.

Get on the *front seat* of this new rear-engine tractor, yourself. See how quickly a future of easier farming opens before you. Feel the new freedom from straining to look down or behind. Try *straight-ahead* vision on all kinds of your most difficult, precision work.

Ten front-view implements—all attached or detached in 5 minutes or less.

Wheels adjustable to cultivate 1 to 6 rows (as narrow as 10 inches).

Speeds from $\frac{1}{2}$ to 7 miles per hour, including throttled down "creeper" gear.

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Fertilizer Facts For High Crop Yields

KANSAS farmers used 3 times as much fertilizer last year as in 1939. The big problem has been where to get some more. There hasn't been enough to go around. At the same time, chances are that fertilizer was wasted by incorrect use.

To help you decide how much and what analysis of fertilizer to use, Kansas Farmer will print in a series of issues this year specific recommendations for various crops in Kansas. These recommendations have been outlined by Dr. Harold E. Myers, head of the Agronomy Department, Kansas State College. For the most part, they are based on fertility experiments that have been conducted over the state in past years.

General requirements of the various crops as outlined by the U. S. D. A. also will be carried with the recommendations. These should help us understand the reason for certain fertilizer recommendations.

First of the series is on oats, which should be seeded this month if possible.

Fertilizer for Oats

To make a 50-bushel crop of oats, along with 1 ton of straw an acre, says the U. S. D. A., about 44 pounds of elemental nitrogen are required, along with 17 pounds of phosphorus, 39 pounds of potassium, 13 pounds of calcium, 7 pounds of sulfur and 6 pounds of magnesium.

Main requirement in Eastern half of Kansas is nitrogen. The general rec-

ommendation for nitrogen then is from 20 to 40 pounds, which would require 60 to 120 pounds of 33 per cent ammonium nitrate. Some of the needed nitrogen will be released naturally by the soil.

The amount to apply depends somewhat on preceding crops. Where sorghum preceded the oats, a heavier application of nitrogen may be necessary. Because sorghum grows until frost in fall, soil does not have an opportunity to release nitrogen in time for early crops the following spring. So more nitrogen must be added for a good crop.

However, if clover or alfalfa preceded the sorghum, nitrogen deficiency may not be so marked.

Need for phosphorus is greatest in Southeast Kansas. Thirty to 40 pounds of available phosphorus should be used an acre when needed. That would require 150 to 200 pounds of 20 per cent superphosphate or 65 to 90 pounds of 45 per cent superphosphate. Legumes seeded with oats will benefit from this application. If no legumes are seeded, succeeding crops will benefit from the phosphate not used by oats.

In general, Kansas soils seem to carry a sufficient amount of the other elements needed by oats. Some soils in Southeast Kansas may respond favorably to applications of potassium.

Altho fertilizer recommendations for oats are similar to wheat requirements, Doctor Myers points out that the cash value tends to be less. That fact should then be kept in mind, too, when applying fertilizer to oats.

Treat Seed Oats For Better Yields

TREATMENT of seed oats prior to planting time can add extra bushels to the yield. Enough extra bushels to make the treatment a profitable practice, according to experiments conducted in Kansas as well as other states.

Seed treatment is most effective in controlling Victoria blight when crop rotation is followed. When susceptible varieties of oats were grown on infested soil for 2 or more years, increases from treatment of only 2 bushels an acre were obtained. But when infested seed was treated and planted on land not in oats the previous year, increases in yield from 10 to 20 per cent were obtained. An increase in test weight also is a common result from treating seed oats, it is pointed out.

New Improved Ceresan or Ceresan M should be used at the rate of $\frac{1}{2}$ ounce for each bushel at least 2 days before planting. The seed may be treated from 8 to 10 weeks before planting.

A test plot on the Ralph Pittman farm, Montgomery county, last year gave excellent results from treatment. Osage oats not treated made 27.2 bushels and weighed 25.1 pounds. Same seed treated made 59.4 bushels and weighed 27.8 pounds. Nemaha not treated made 55.2 bushels and weighed 33.1 pounds. Same seed treated made 73.8 bushels and weighed 32 pounds.

There was no reason to expect the presence of blight in this field. What blight was present was carried with the seed.

Dairymen's Position Is Wonderful

AT THE annual meeting of the State Dairy Association held in Topeka, January 12, W. H. Martin, Manhattan, was re-elected president, in connection with the Kansas State Board of Agriculture meeting. Martin Jensen, of the Shawnee County Creamery Co., was elected vice-president, and H. E. Dodge, Topeka, was re-elected secretary. Jensen, Orlin Baer, Topeka, and P. D. Turner, Sabetha, were elected to the board of directors.

In resolutions, the group protested the use of yellow coloring in butter substitutes, favored a legislative appropriation for inaugurating an artificial insemination program, and opposed price controls on dairy products.

F. W. Atkeson, head, dairy husbandry department, Kansas State College, reviewed the dairy situation in Kansas and the nation. He said "dairymen are in a wonderful position either to weather bad times or to expand to meet new demands." He pointed out the following favorable conditions:

1. Dairymen had a chance to retrench after the war without financial loss.

2. Population is increasing while cow numbers are decreasing.

3. Feed supplies have increased, and the feed-price ratio for 1949 is more favorable than during 1948.

4. No dangerous surpluses of dairy products are being held in storage.

T. F. Yost, state weed supervisor, told dairymen that weed damage in the U. S. annually costs farmers \$ billion dollars, which is more than the combined losses from plant and animal diseases and plant and animal parasites. Farmers now have a chance to

greatly reduce this weed cost, he said, thru use of 2,4-D and other new chemical weed killers.

Harold Benson, of the American Dairy Association, warned farmers that the oleomargarine industry was doing a better job of selling than the butter industry. The answer, he said, is to produce a top-quality product and then to increase selling efforts to win back the housewife.

Hubert L. Collins, federal-state statistician for Kansas, outlined the feed supply situation. "Feed supplies are at record highs and will support dairy expansion at this time," he said. "Milk cow numbers in Kansas are at the lowest point since the turn of the century," Mr. Collins added, "because of the relatively higher net returns from beef and hog projects. While dairy cow numbers have decreased steadily for the last 5 years, the rate of decline for 1949 will be less. And by the end of this year the numbers may stabilize, since replacement stock now is at a record high level."

Farm Poultry Raising

A well-kept flock pays as well, relatively, as most other branches of farming. We have a limited number of Farmers' Bulletin, "Farm Poultry Raising, which covers the subject pretty thoroly, from incubation to marketing. Anyone interested may write for a free copy to Bulletin Service, Kansas Farmer, Topeka.

For Success With Flax

By H. H. LAUDE, Kansas State College

FLAX can be grown in competition with other crops in many fields in Eastern Kansas if good practices are followed. Success depends much on what crop was grown on the land last season, condition of the seedbed, quality and variety of seed, time and rate of seeding, and method of harvesting.

PRECEDING CROP: Flax does particularly well after soybeans and also after other legumes such as alfalfa and sweet clover, and following perennial grasses that have been used for meadow or pasture. Lower yields of flax must be expected if the crop is planted after corn, kafir or small grain.

SEEDBED: Flax, like other small-seeded crops, requires a firm, compact seedbed with sufficient moisture for quick germination and continued growth. Following soybeans, only a little preparatory tillage is needed provided the land is clean. A light disking in early spring will ordinarily be sufficient. Meadow and sod land should be plowed in the fall. Surface tillage in the spring may be done with the spring-tooth harrow, disk, duckfoot, smooth-tong harrow or cultipacker, or several of these implements, and should be continued until the seedbed has a firm surface and a granular surface.

QUALITY OF SEED: Varieties that mature early are better adapted in Kansas than later ones because they are less frequently damaged by warm, dry weather. The variety should be resistant to disease, particularly to wilt which is the most important flax disease in Kansas. The potential yielding ability of the variety should be high. In view of these requirements, Koto, Linota or Redson are the preferable varieties to grow in Eastern Kansas. If seed of those varieties is not available, Redwing, Dakota, Bison, or perhaps Cheyenne.

Good seed flax should germinate about 85 per cent. Recent investigations have shown that treatment of flax seed with one of the fungicides such as New Improved Ceresan or Ceresan M is helpful in obtaining good stands under adverse field and weather conditions. Since the cost is small, seed treatment is recommended as an aid in obtaining good stands of flax.

PLANTING: On very well-prepared land, good stands of flax may be obtained with one-half bushel of seed to the acre. Ordinarily, however, 3 pecks of the smaller-seeded varieties should be planted to insure thick, even stands. It is usually advisable to sow flax as soon after the first of March as field conditions become favorable. Flax usually will withstand the cold weather of March and April, unless it occurs from about the time the plants emerge until they reach the 3-leaf stage. It is advisable to take some chances of frost in-

jury, however, because if flax is planted late, the crop is forced to mature in the warm weather of midsummer.

HARVESTING: Flax should be harvested when the bolls have turned brown, the stems are turning yellow and the leaves have fallen off. When conditions are very favorable, the standing crop may be harvested satisfactorily with the combine harvester-thresher. However, many times second growth of flax or green weeds in the field interfere with harvesting in this way. Weeds and green stems cause a loss of flax seed and raise the moisture content of the seed that is saved so it does not keep well in storage. Under these conditions, it is very desirable to windrow the flax and let it cure for 24 to 48 hours.

It is not necessary for the green plants to become entirely dry before the flax can be threshed. In fact, when the green stems have wilted so the plant juice is not knocked out by the cylinder, a good job of threshing can be done. If threshing is delayed until the green material is entirely dry, it will break up into small pieces and overload the separator screens.

Better Vegetables?

It is time to think of new varieties that may produce better vegetables than varieties commonly used, says W. G. Amstein, Kansas State College.

He lists the 7 varieties that won All-America honor awards in 1948 as an example. How well they will prove themselves in Kansas is yet to be determined. Since seeds of these new varieties will be limited, they should be ordered early.

Caserta, a summer squash, is a bush type that bears a week earlier than some varieties, and keeps piling its fruit up in the center of the plant for virtually daily picking.

Triumph bush lima beans, the South's favorite butter beans, young and tender, may invade the whole country, says Amstein. It is reported this variety will set pods even in hot weather when the large seeded varieties drop their blossoms and fail.

Premier Great Lakes lettuce and Pennlake lettuce should prove more heat-resistant and produce more solid heads than the Great Lakes variety. Pennlake produces a smaller head, preferred by many families.

Cherry Belle radish, Ideal Snowball cauliflower, and Flagship hybrid sweetcorn are the other vegetable varieties that won recognition last year.

"Such great strides are being made in present day plant breeding that many of our older varieties are simply outclassed, outyielded, and should give way to newer and better varieties."

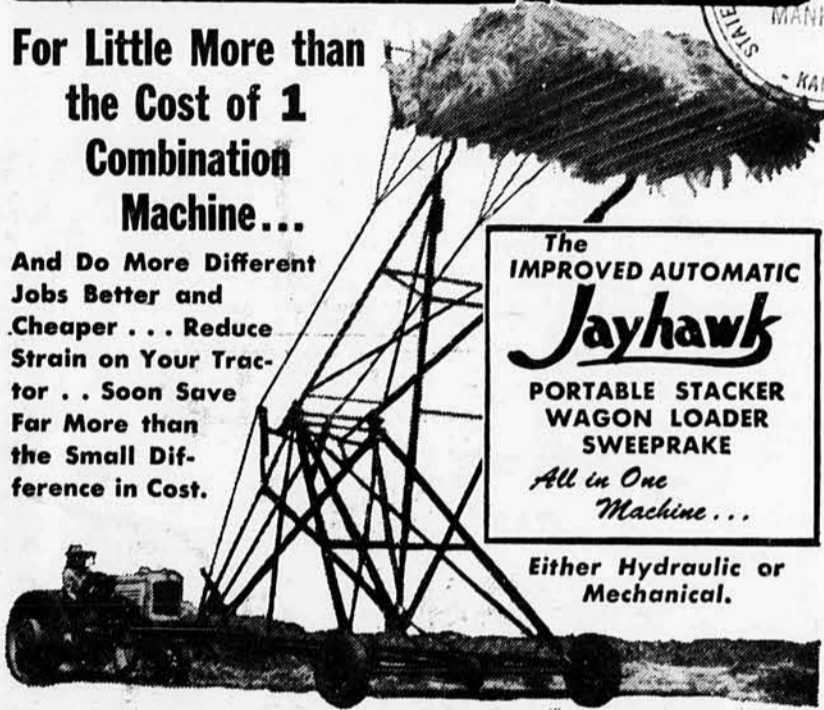
GRANDMA . . . By Charles Kuhn



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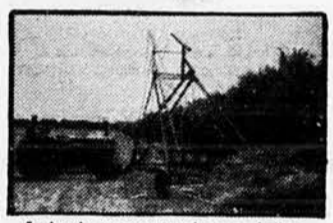
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Now It's Pre-peeled Potatoes

By JAMES SENTER BRAZELTON

POTATOES break into the news frequently. The latest story reports that in the near future housewives will be able to buy at the grocery pre-peeled potatoes. We have had ready-sliced bread so long the novelty has long since worn off. Some day pre-peeled spuds will be as commonplace.

The potatoes will be de-skinned by steam pressure, then sprayed with a mild chemical to prevent them becoming discolored. They will be marketed first to hotels and restaurants, and later will be offered in home-size packages. No one knows what this idea may do to the potato-growing industry. It could stimulate consumption, you know, so a potato subsidy no longer would be necessary.

Many of us remember when the winter's potato supply was stored in bins in the cellar, or buried in the ground. That era passed when it became more convenient to tote our potatoes home as needed. This change in buying habit

may have something to do with the nightmarish potato surpluses of recent years. I suspect another contributing factor to this undesirable economic condition is the erroneous belief that potatoes are fattening. They are no more responsible for those few pounds of extra weight than a lot of other foods.

There is nothing to prevent the spread of this commercial pre-peeling idea to other fresh-marketed vegetables and certain fruits if the experiment proves successful with spuds. The possibilities are unlimited. Increased consumption of vitamin-packed vegetables could result in better health for the nation, and production of perishables would take on new impetus.

If marketing pre-peeled potatoes could halt the downward trend in potato consumption it would mean much for the potato-growing industry. It is estimated that if the present trend continues another 25 years it will be down to one bushel per capita a year. Thirty

years ago per capita consumption was 159 pounds. In 1948 it had dropped to 116 pounds. Is there any wonder the potato market is saturated?

There is plenty of room to increase consumption, not only of potatoes but of other fresh fruits and vegetables as well. According to nutritionists in the USDA the average person needs 564 pounds of fresh produce, retail store weight, for a balanced diet and 620 pounds for the most desirable diet. In 1948 consumption was 464 pounds per capita, down from 478 pounds in 1947.

Government purchasing of potatoes must be looked upon as a salvaging operation, and certainly must not be considered a sound economic practice. Someone has figured out that 81 per cent of all potatoes grown are used as food. If this is correct, then greater efforts might well be made to induce the housewife to use more potatoes in meals. The questionable practice of selling little potatoes or dirty potatoes or potatoes infected with scab and rhizoctonia in bags labeled U. S. No. 1 is not a good way to boost consumption of this commodity.

Generally favorable weather throught

A Snowy Morning

There is enchantment in a snowy morning
With shadows gentian blue upon the white,
Tree patterns bold against the virgin cover
A contrast lovely in the wakened light.

There is enchantment in the tread of children
Where paths are blanketed in fallen snow,

In sounds of quick, excited voices
In rosy cheeks that cold has set aglow.

—By Camilla Walch Wilson.

most of the growing season of 1948 had a great deal to do with the fact that last year's potato crop broke several production records. The Bureau of Agricultural Economics, USDA, has just released some interesting figures about last year's crop. Actual acreage harvested was smallest in 70 years, but the average yield to the acre was a record high and production has been exceeded only twice.

Last year's production of 445,850,000 bushels was exceeded by the 458,887,000 bushels harvested in 1943 and the record production of 484,174,000 bushels in 1946. Last year's crop is 15 per cent larger than the 389,048,000 bushels harvested in 1947 and exceeds the 10-year average production by 14 per cent. Growers planted only 2,127,000 acres to potatoes in 1948, as compared to 2,136,000 acres planted in 1947 and 2,897,000 acres for the 10-year average.

Until a short time ago, Canadian table stock potatoes were being shipped into the United States, "flooding" our markets and making the price-support program ineffective. But this practice has been stopped.

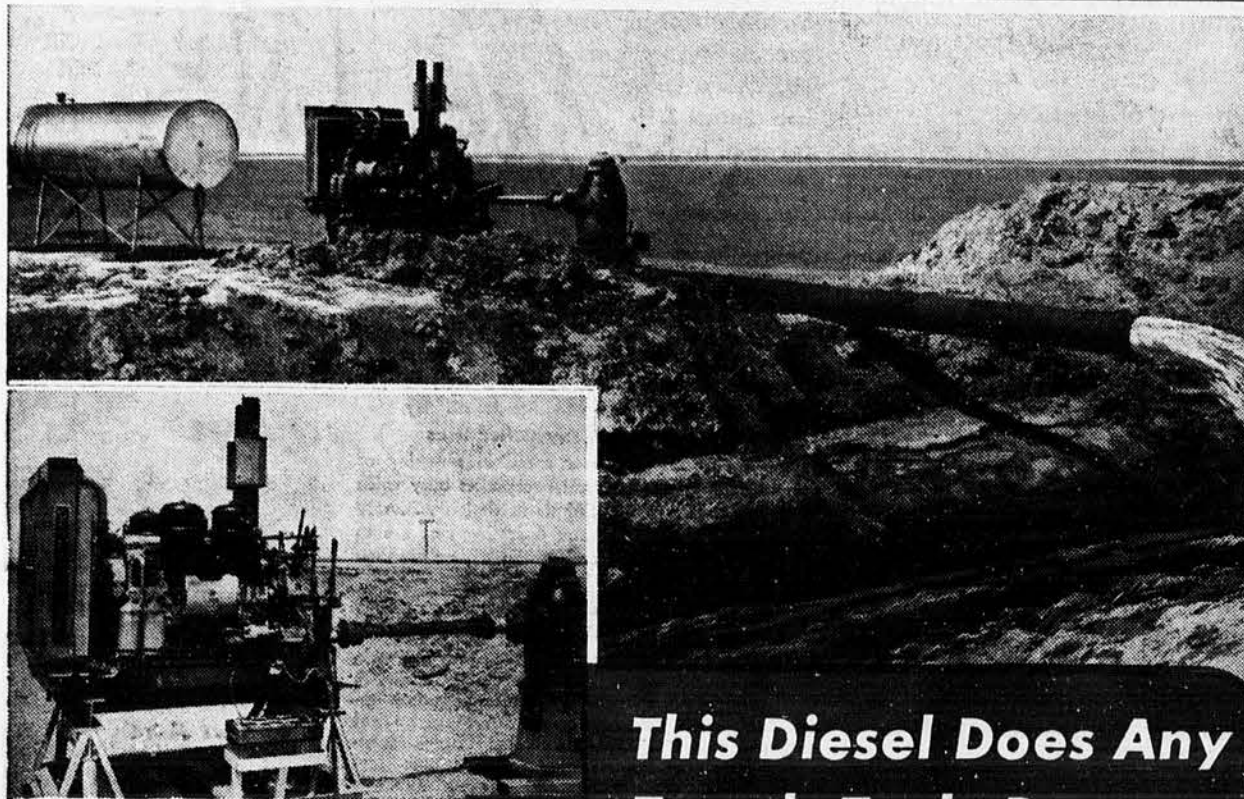
Envied Premium Prices

Potato growers in Washington and Oregon have long envied the premium prices paid for well-advertised Idaho Russet potatoes. At last they have decided to do something about it. The 1949 legislatures of the 2 states will be asked to set up potato commissions, and laws will be demanded to levy on growers to provide promotional advertising funds for spuds. Potato growers of Oregon and Washington also will seek legislation from their respective lawmakers authorizing appropriations for research work aimed at improving the quality of potatoes.

For the eleventh consecutive year Idaho governors have proclaimed a Potato and Onion Week. The Idaho Advertising Commission will use all its efforts to get nation-wide publicity in proclaiming the goodness and superior qualities of Idaho potatoes and onions.

Botanically speaking, the potato is *Solanum Dulcamara*, which identifies it as a member of the Solanaceae or Nightshade family. Many of this group are reputed to be poisonous. This relationship probably has something to do with the fact that potato sprouts and potatoes with skin turned green are often poisonous to poultry.

Some one has discovered a way to make potato plants push thru the ground quicker after planting. The secret is to spread the seed potatoes thinly on the floor in a warm, dry place about 3 weeks before planting time. They will develop thick, short sprouts which will not break off easily and will get the new plants off to a quick start.



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Capper Scholarships To 4-H Members

FOR the 17th consecutive year, Senator Arthur Capper, thru the Kansas Farmer magazine, is presenting two \$150 scholarships to outstanding Kansas 4-H Club leaders. The scholarships will further the education of these young people at Kansas State College.

Winners of the Capper scholarships for 1948 are Betty Stephens, Kanorado, and Bob Gentry, Rossville.

Betty Stephens is a member of the Grant Boosters Club, in Sherman county. She is 19 years old and has been a club member 9 years. Betty has carried junior leadership 3 years. In 1948 she carried: Clothes for special occasions, complete costume, school lunch, helping with meals, preserving, breeding heifer, dairy, breeding gilt and junior leadership.

Betty has been president of her club and also served 5 years as reporter and 2 years as secretary. She was on the county council 3 years.

She has given one demonstration in competition and taken part in 20 judging contests. Some of her other achievements include: County champion in dairy 3 years, general livestock champion 3 years, beef one year, leadership one year, and project achievement winner 2 years. She has served as president of the county council 1 year, secretary-treasurer 2 years and reporter 1 year. She is a member of the State Who's Who Club. She was county style revue champion in 1948.

Bob Gentry is a member of the Ros-



Betty Stephens, Kanorado

sville Club, in Shawnee county, and has been a club member 11 years and is 21 years old. He has carried the junior leadership project 5 years, has been president of his club 2 years, treasurer 1 year, reporter 1 year, secretary 1 year, vice-president 1 year.

He has given 17 demonstrations in competition and has taken part in 39 judging contests. His 1948 projects were: Deferred-fed steers, junior leadership, sow and litter, fat pig, breeding gilt, breeding ewe lambs, ewe and lambs, fat lambs, alfalfa and corn.

Bob has been a county council member 2 years and served as secretary-treasurer 1 year. He is a member of the State Who's Who Club, was state livestock champion in 1946, and helped organize the county 4-H band.

Spray Meet Soon

A 2-day aerial agricultural spraying conference will be held at Manhattan, February 23 and 24. The meeting is sponsored by Kansas State College, Kansas Flight Operators Association, the Kansas State Board of Agriculture, and the Division of Aeronautics of the Kansas Industrial Development Commission.

This state-wide conference is being called to provide a better understanding of the possibilities of aerial spraying. Also, to recommend standard operating procedures from the viewpoint of the farmer and the operator.



Bob Gentry, Rossville

Kansas Flour for Aleman



President Miguel Aleman, of Mexico, poses for a picture with a group of Kansas Flying Farmers who flew to Mexico for a midwinter vacation last month. This photo was taken by Charles Howes, of Kansas Farmer, just after President Aleman was presented with a 100-pound sack of Kansas wheat flour. Appearing in the picture, left to right, are: L. C. Bell, McDonald; Eugene Coats, Plains; Howard Brockhoff, Fairview; President Aleman; Ailiff Neel, Windom; Earnest Bressler, Bird City; Raymond Stewart, Fulton; E. B. Fatzer, Lewis. Ronald Bell, son of Mr. and Mrs. L. C. Bell, is in the lower part of the picture with the flour.



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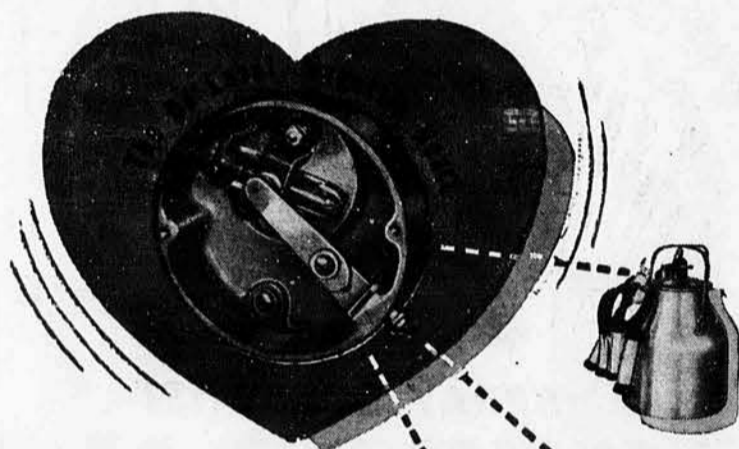
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The Cover Picture



Mrs. Laura Willison, right, Sedgwick county home demonstration agent, talks things over with her assistant, Mrs. Jean Martin. Sedgwick county has the first scientifically designed Extension offices in Kansas.

THE Sedgwick County Extension Service has rung up 2 "firsts" for Kansas. The new offices in Wichita of the Sedgwick County Extension Service are the first scientifically designed Extension offices in Kansas. Sedgwick also is the first county to have a complete Extension staff of 6 agents.

Gene Warner, of the Kansas State College Extension staff, designed the new offices, which occupy one floor of a 2-story building at 414 West 2nd, in Wichita.

Entering the building, you come into a spacious reception room, presided over by Doris Alcorn. Miss Alcorn handles all telephone calls coming into the office, has charge of the filing system, and meets all people seeking information or service. She directs those seeking information or service to whichever agent is responsible for that particular problem.

A workroom, shut off from the rest of the offices, is provided for the secretarial staff. This office is presided over by Mrs. Gladys Mitchell, with Bernadine Butler as her assistant. A third woman soon will be added to the secretarial staff.

Each agent and assistant agent has a private office. Don Ingle is the county agent, with Dallas Cantwell as assistant agent. Jim Childers is 4-H Club agent. He will have an assistant agent soon to be named. Mrs. Laura Willison is the home demonstration agent and is assisted by Mrs. Jean Martin.

In addition to a reception room, workroom, and private offices for the agents, the office plan provides for a



Doris Alcorn, receptionist at the Sedgwick County Extension office, Wichita, handles all telephone calls and incoming visitors. The time of visitors is saved by this method.

storage room, a room for the heating plant, 2 rest rooms, a kitchen and a meeting hall that will seat about 100 persons. The hall will be used for all meetings of less than county-wide proportions. The kitchen will be equipped by women in the various home demonstration units.

There were 1,389 Farm Bureau members in Sedgwick county during 1948 and the goal for 1949 is 2,000 members. The county also has 1,530 home demonstration unit members and 998 4-H Club members.

Should Extension Service Be Divorced From Farm Bureau?

A CONTROVERSY over the tieup between Farm Bureau and Extension Service has come to a head in the Kansas legislature. Charles R. Topping, Douglas county farmer, and chairman of the new state-wide temporary organization called "Friends of Extension," has announced that a bill will be introduced to divorce Farm Bureau from sponsorship of the Extension program.

- If the bill is enacted, it would mean:
1. Each county could organize its own County Extension Service Association.
 2. County commissioners would make appropriations on the basis of recommendations from the Extension associations, not from the Farm Bureau.
 3. Counties could employ Extension workers without recommendations by the Farm Bureau.
 4. No dues would be charged for membership in any county Extension association.
 5. There would be no Extension affiliation with any farm organization, altho individual members could continue to be members of any farm group desired.
 6. Tax money would not be levied for work carried on thru the Farm Bureau.

In asking for the change, Mr. Topping stated that while Extension service is available to all farmers now, many do not take advantage of it because of the tieup with the Farm Bu-

reau. Since the Farm Bureau is engaged in many activities of a controversial nature, Extension work is being hampered or opposed by those not in favor of Farm Bureau policies, he added.

Mr. Topping is a member of the Farm Bureau and says he is eager for the continued success of that organization. However, he says, many people believe they are helping pay for a service from which they do not have an equal opportunity to benefit. "I believe it would be for the good of all concerned if Extension were divorced from the Farm Bureau," Mr. Topping adds.

In a statement to Kansas Farmer, Herman Praeger, president of the Kansas Farm Bureau, made the following reply to the Topping proposal:

"The first concern of Farm Bureau is getting the maximum efficiency out of the Extension dollar, and that is hardly possible without strong local support. Were the Extension program to operate as a straight-line agency of the U. S. Department of Agriculture, we do not believe that maximum efficiency could result. We have no intention of upholding the present Kansas Farm Bureau law simply as a means for our organization to gain a statutory control or monopoly over the administration of any governmental agency.

(Continued on Page 11)

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"We are not primarily concerned with the exact details by which local support for Extension work can be assured. But we are interested in 3 fundamental policies which we hereby outline:

1. There should be local support and a certain amount of local control over Extension personnel and expenditures of money on the county level.

2. The agricultural interests in each county thru the broadest representation possible should have some voice in formulating Extension programs so these programs may be best adapted to the needs of each community. The needs of Cherokee county differ widely from those in Wallace county.

3. Extension personnel on the county level should be required to use every facility of any general farm organization in the county as a medium for getting the Extension program to large numbers of farmers in the most efficient manner. They can thus save themselves a vast amount of work in organizing meetings for demonstrations and other educational endeavor. General farm organizations can aid greatly in supplying a representative and receptive audience."

Mr. Praeger points out that in some counties up to 90 per cent of the farmers already belong to the Farm Bureau, and that many women and youths participate in home demonstration units and 4-H Clubs without any membership from the family in Farm Bureau.

L. C. Williams, director of the Kansas State College Extension Service, has this to say:

"The county Farm Bureaus of Kansas have performed and are now performing a service of tremendous worth to the State of Kansas in developing Extension Service education available to every person. The Kansas Farm Bureau and the American Farm Bureau Federation have given wholehearted support to Extension education at state, national and county levels.

"It should be emphasized that the Extension educational program is not alone for members of the Farm Bureau organization. Full co-operation should be developed with all farm organizations, with schools, with Chambers of Commerce, and all civic and business organizations or groups and individuals who can benefit in any way and who, in turn, can assist with educational activities.

"We in Extension, of course, want to give the greatest service possible to all the farm people of Kansas. It is up to the farm people to determine how that can be done—whether under the present Farm Bureau law or under a reorganized program such as that suggested by Mr. Topping.

"I hope every individual in Kansas who is interested in the future of Extension work will carefully study both sides of the question and use his influence in behalf of the program that will be of the greatest benefit."

Something Gone From the Soil



Harry Lunt, Pratt county, stands beside atlas sorghum crop on old cultivated land. Crop is about 6½ feet tall and Mr. Lunt estimated it would make about 10 tons an acre.



Here, Mr. Lunt shows his sorghum crop on land in cultivation only 2 years. The 2 pictures show how much soil fertility has been lost thru long cropping; possibly one third.

IF YOU don't think Kansas soil has lost some of its fertility thru cropping, just look at the 2 pictures. They were taken the same day on the farm of Harry Lunt, Pratt county. They show 2 fields of atlas sorghum planted the same day.

The only difference is that one field had been cropped for an unknown number of years. The other field was in its second year of cultivation.

Sorghum on the old cropped land was slightly more than 6 feet tall on September 7, last year, and made about 10 tons of silage an acre. Sorghum on the near virgin soil was at least 9 feet tall and made at least 5 tons more silage.

Based on these estimates, it would appear that the cropped field has lost about one third of its original fertility.

Mr. Lunt now has a rotation program including legumes.

Plenty of Room



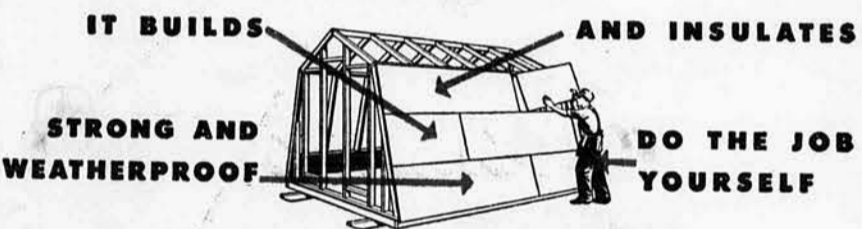
SEVEN persons find this small-appearing farm home roomy enough. It is the new farm home of Carl Filbert, Lane county. The reason it is so roomy is that the basement has 2 finished bedrooms and other living quarters, including a completely equipped kitchen and a 3-piece bath.

INSULATES

BUILDS

GET **Double** FOR YOUR MONEY!

WITH Double-Duty INSULITE

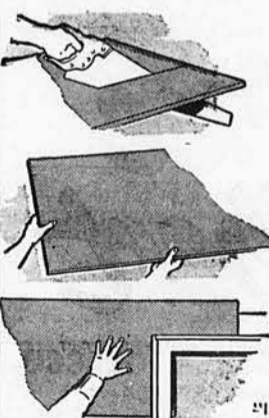


INSULITE is a big strong insulating board that serves a *double* purpose. It builds and *insulates* at the same time. Gives you TWO services for the cost of one.

Insulite is made from long, tough wood fibres. It is treated throughout with asphalt to resist wind, rain, sleet or snow. It builds strong weather-tight, moisture-resisting walls without cracks, knot holes or open joints.

Because Insulite gives you extra insulating protection, it makes any building warmer in winter, cooler in summer. Keeps livestock healthier. Helps you get better production from chickens and dairy cows.

Remember! Tests prove that Insulite provides greater bracing strength than wood sheathing horizontally applied. For long years of satisfactory service, use Insulite the next time you build. Ask your Lumber Dealer.



EASY TO SAW...
Just use an ordinary hand saw. Cuts fast and easy in any direction. No resin to gum your saw blade.

EASY TO HANDLE...
Pick it up and carry it anywhere you want. Light weight, yet strong and sturdy.

EASY TO FIT...
Can be notched to fit snug and tight around door and window frames. Butts square against framing members.

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"With the new Humidor Top, P.A. is more than ever the National Joy Smoke,"

SAYS JOHN BURKS.



I FIND REAL SMOKING COMFORT IN A PIPEFUL OF PRINCE ALBERT. AND THE NEW HUMIDOR TOP SURE KEEPS P.A. MILD AND RICH-TASTING!

"Crimpcut Prince Albert means more pipe joy to me," says John Burks. "No other tobacco can match P.A. for a tasty, rich smoke that is so cool and mild." Right, John! Prince Albert's choice, rich-tasting tobacco is specially treated to insure against tongue bite.

The New Humidor Top — Locks in freshness and flavor

MORE MEN SMOKE

R. J. Reynolds Tobacco Company
Winston-Salem, N. C.



Prince Albert

THAN ANY OTHER TOBACCO

* TUNE IN P.A.'S "GRAND OLE OPRY," SATURDAY NIGHTS ON NBC

Buy Your Omaha Quality DISC HARROW AT YOUR LOCAL DEALER
FORD MFG. INC. OMAHA, NEB.

2,4-D Tough on Sage Brush

By HAROLD SHANKLAND

SO SUCCESSFUL was last summer's campaign to eradicate sage brush by airplane applied 2,4-D, that Clark county ranchers and stockmen have high hopes they apparently have found a practical means of pasture renovation.

Some still have their fingers crossed. But the dead, tinder-dry sage that now, 6 or 7 months after spraying has no evidence of life, is cause for optimism. Further hope comes from the fact that the test with 2,4-D was on an extensive scale. Clark county had 13,500 acres sprayed, Comanche 10,000 acres, and Barber county 3,000 acres.

(Kansas Farmer in its issue of July 3, 1948, carried a story and picture of this demonstration in Southwest Kansas.)

A meeting last March was the start of the project. Dale Engler, Extension agent in Clark county, working with local soil conservation and PMA officials, and Extension agents in adjoining counties, arranged a meeting with D. A. Savage, head of the Great Plains Experiment Station, at Woodward, Okla., chemical company representatives, and farmers. The project was based on work done by Mr. Savage with 2,4-D in sage control the last 3 years.

Cost \$2 an Acre

Nineteen co-operators agreed to have all or some of their pasture acreage sprayed at \$2 an acre. The late Barth Gabbert, Ashland, who had fought sage brush for years, had his entire 3,300 acres of pasture sprayed.

Other ranchers and their acreages include the Dunne and Hoffman Ranch, 2,000; Ralph Gardner, 1,300; Jesse Harper, 1,000; Tillman Floyd, 1,000; Francis Arnold, 800; Locke Theis, 700.

Engler, in his annual report to Dean L. C. Williams, of the Kansas State College Extension Service at Manhattan, lists as other co-operators: Mrs. Bentley Randell, M. N. Rankin, Paul Randall, G. D. Leslie, Victor Harmon, Billy Phillips, Dean Matthews, Paul Blair, Val Walker, Degnan Ranch, Nathan Hayes, and Leonard Cox.

"I don't believe the sage will ever come back—it kept on dying all summer and this fall," said Cox recently. He had a section of pasture sprayed and appears to have an almost complete "kill" on the sage brush.

The Cox section was sprayed over a 3-day period, June 8, 9 and 10. All the spraying in Clark county was done

from May 15 to June 15, the best time, according to Savage.

Commenting that he believes the dead sage plants will remain in the soil for some time—or until the cattle grazing there kick them out—Cox added that the grass in the sprayed area seemed to do better than grass in adjoining non-sprayed pastures.

"I don't know what did it, but the sprayed pasture was green 2 weeks longer this fall than other pastures. I kept 130 head of stock in that 640-acre pasture all season and never took them out. I'm certainly well pleased with the spraying."

It is his estimate that the sage-control work will increase grass by at least one third. This is a conservative estimate, says Engler, as the research by Savage indicates the possibility of a 50 per cent increase.

"You can figure for yourself what such an increase in the amount of grass would mean in this county with its 450,000 acres of pasture," said Mr. Engler.

Two California pilots experienced in spraying by airplane were employed to do the work in the 3 counties. Their planes were equipped with boom sprays 22 feet long, enabling them to drift the 2,4-D mixture on a strip about 30 feet wide. They flew 8 to 10 feet above the ground.

"We used a mixture composed of 1 pound of pure 2,4-D acid, 1/10 pound of soda ash, 4 gallons of water and 1 gallon of diesel oil an acre," said Engler. "The cost to those who had pastures sprayed was \$2 an acre."

High Goal for 1949

"Our goal for this year is 70,000 acres in Clark, Comanche and Barber counties," he added, and he is optimistic about getting that acreage. From checks made in November, Engler estimates there was a 90 per cent kill on sage and a 95 per cent kill of weeds on 13,000 acres in his county. On about 500 acres, results are still in doubt and will not show up until spring.

The kickoff for the 1949 program in Clark county was held January 17 at the 4-H building at Ashland. The material to be used this year will be different than last year, Engler reports. It will consist of 1/10 pound of butyl ester of 2,4-D, 1 gallon diesel oil and 4 gallons of water an acre. The cost of the material will be higher and the total cost to the rancher this year will be \$2.25 an acre.



Effectiveness of the 2,4-D sage brush and weed-control program in Clark county last summer is shown by this photograph. Here Dale Engler, county agent in Clark county, is shown holding a lifeless sage plant. It is brittle and dry and the roots are dead.

New Hereford Group

While the counties in the extreme southwest corner of Kansas are in the process of organizing a Hereford Association, they intend in no way to infringe on any other association by adopting a similar name or by attracting any animals away from any of their sales.

Instead, it is hoped that by a series of shows and other organizational means to boost for better cattle, and to help all the surrounding associations both by sending worthy entries and by popularizing the raising of improved livestock.

The first meeting of the Hereford Breeders was held at the Farm Bureau office in Hugoton, on December 17, where a skeleton plan was outlined. O. P. Williams, of Ulysses, was chosen temporary chairman and Raymond Finchman, Stevens county agent, temporary secretary.

A committee meeting was held at Ulysses, December 27, with Lot Taylor, Extension livestock specialist from Kansas State College, Manhattan, offering valuable suggestions.

A meeting also was called of all breeders for Monday evening, January 3, at the Farm Bureau office in Hugoton, where further organization plans were considered.

The new association hopes older breed associations will give this new organization all the encouragement possible, and that all will profit from this effort at improving livestock in Southwest Kansas.

Grass Came Back

Treat old pastures right and grass will come back. Harry Heilman and son, Harold, have demonstrated that several times on their place in Neosho county. One way of getting grass back is just to let the pasture rest in summer, then graze it during winter. Winter grazing does not seem to delay grass that is making an attempt to fill in the weak spots. And permitting it to grow untouched during summer gives it full opportunity to stretch out and spread.

Five years ago they tried another scheme with an old pasture which they described as no good. It had been overgrazed heavily and grass was nearly all gone. They disked the ground and seeded lespedeza. The lespedeza provided good pasture and by careful attention bluestem was given a new chance to get started, too. The native grass is coming back in and will take over again.

Seed Dealers Elect

From a small start with just a handful of members, the Kansas Seed Dealers Association has grown in 2 years into a strong and practical organization. There now are more than 100 members. Early in January the seed dealers had their second annual convention at Wichita. In addition to members of the organization, representatives from 14 or 15 other central states were registered.

Pure seed and approved varieties are playing an important role in Kansas agriculture. Thru this organization, Kansas seed dealers seem better able to keep abreast of the times. That means better service to Kansas farmers. More assurance in uniformity of seed conditions over the whole state is a major goal for this important new agricultural organization.

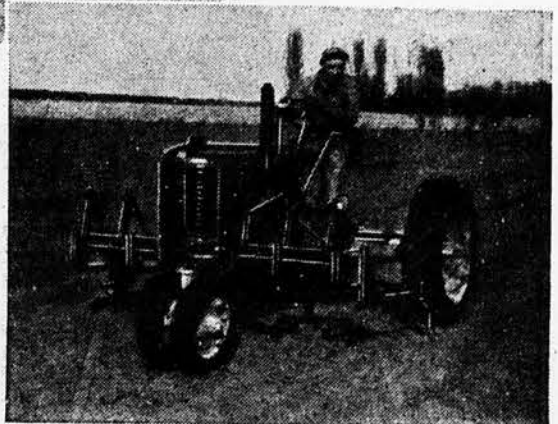
W. C. Armfield, Wichita, served as president of the association the first 2 years. Succeeding him this year is Lisle S. Congdon, Sedgwick, who was vice-president last year.



"Funny! Mom doesn't have any of this trouble when she fries an egg!"



"That's the Way to Farm a Lot of Acres"



● When you have a lot of tillage to do . . . either intensively on moderate acreage or working a larger farm . . . take a tip from a tractor-wise farmer. He says "Hustle your heavy work with a Case Model 'LA.' Use the handy 'VAC' for planting, cultivating and haying. That's how to get things done and keep costs down."

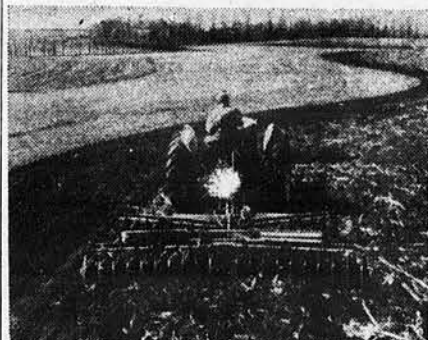
In plowing, harrowing, etc., the 4-5 plow capacity of the mighty "LA" enables one man to do as much as two men with 2-plow tractors. It cuts labor cost down to half in heavy work. It costs less per acre for operation and upkeep. Getting work done more promptly often brings gains in bigger yields and better weed control.

The light 2-plow "VAC" is just right for full 2-row capacity in cultivating and planting. It has

the speed and power you want for mowing, raking, and pulling the fast Case Slicer-Baler. Like all Case tractors it has a heavy-duty, Case-built engine that carries full load at moderate speed, pulls still stronger when slowed down. By using the fuel-saving fourth gear it handles light work at reduced engine speed.

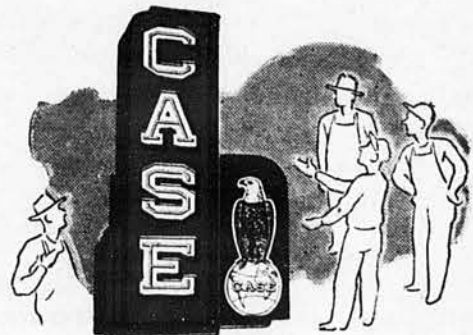
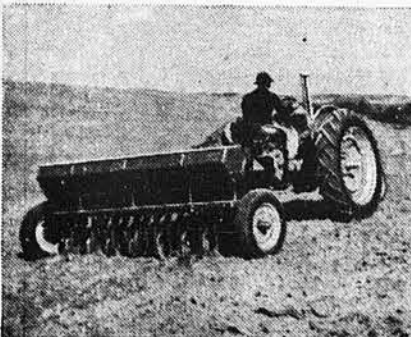
Case tractors get more work done, not through any special features but by superb balance of eager engine power, sure-footed traction, and gear speeds to make the most of implement capacity. They get their extra ENDURANCE from the Case habit of making every part a bit better than might seem necessary. It means consistent fuel economy, little expense for upkeep, extra years of use from your investment, total power cost kept low.

Forty Acres or 400 It Costs Less to Farm With CASE



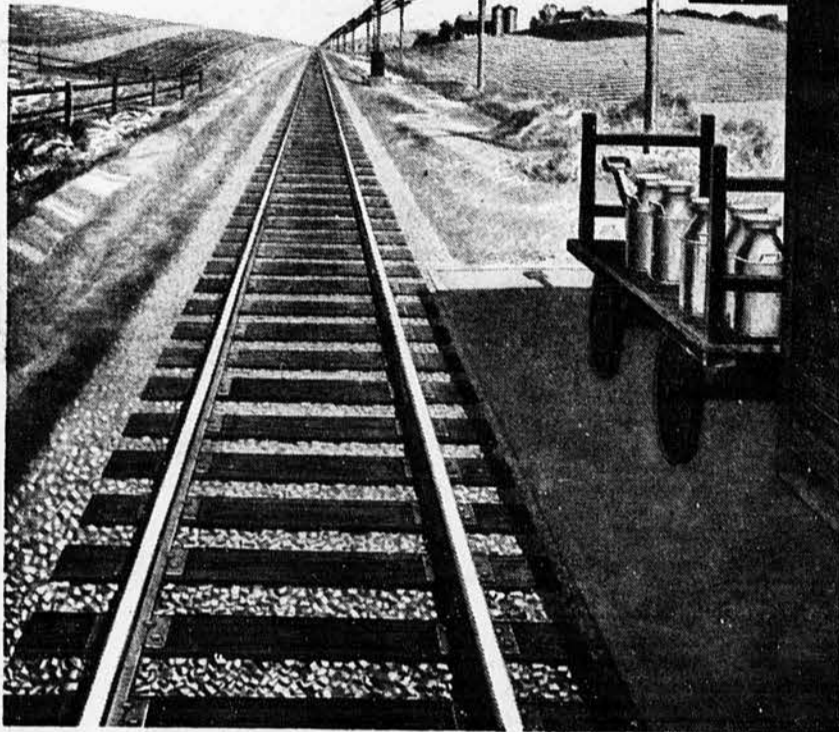
◀ Tandem disk harrow, ideal for soil conservation farming because it angles and straightens on-the-go, leaves headlands level, grass strips uncut. The full 2-plow Case "SC" tractor has pull and power to operate implements at capacity in heavy soils and difficult conditions, hustle work with power-take-off machines.

▶ Faster seeding, less lifting with new Case low-wheel grain drill. Its Seedmeter is famous for accuracy with all sizes of seed. The fast 3-plow Model "DC" tractor is compact, easy to handle as smaller tractors, gets a half more work done. Its quick-dodge steering makes easy work of fast 2 or 4-row cultivation. It handles light work in fuel-saving fourth gear.



Look to this sign for first-class dealer service and the finest of farm machines. There are 20 Case tractors, in four sizes and in types for every crop system. Write for catalog; mention size to fit your farming, also anything you need in plows or harrows, planter or grain drill, combine, mower, rake, Sliced-Hay baler, field forage harvester, corn binder or picker, hammer mill, spreader or farm truck. J. I. Case Co., Dept. B-47. Racine, Wis.

This "country road" leads straight to the nation's markets



● The early American farmer knew every turn of the winding road on which he made the all-day trip to the nearest town—his only market.

Today the farmer's market begins at the nearest railroad loading platform—and extends to profitable markets all over the land.

Last year, for example, the railroads helped move the greatest harvest ever produced in a single year by any nation. They also hauled the bulk of the other raw materials produced by our nation's farms, forests, and mines—as well as most of our manufactured products. And they handled the entire job for an average charge of only 1¼ cents for hauling a ton a mile.

In performing this service, the American railroads once again proved to be the most efficient and economical transportation system in the world. To do an even better and more efficient job in the future, the railroads are now buying cars and engines, reducing grades and curves, improving signals and shops, adding to their facilities—at a cost of a billion dollars a year.

The only way the railroads can carry on such a program for still better service is to have earnings which are more nearly in line with today's costs—earnings which will justify the large investments needed.

★

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AMERICAN
RAILROADS**
WASHINGTON 6, D. C.

Frontier Doctor in Kansas

By CHARLES H. LERRIGO, M. D., Health Adviser

DODGE CITY, Kansas, has been in the headlines for many performances—some wild, some woolly. Nowadays it is making the front page because our fellow citizen of Kansas, young Dr. Samuel Jay Crumbine, away back in 1884, more than 60 years ago, selected it as the place where his newly-painted shingle might first swing to the wind. You can read all about it in *Frontier Doctor*, just published by Dorrance and Company, of Philadelphia.

Having known Doctor Crumbine intimately for 44 years, I am firm in the opinion that Dodge City and its Boot Hill, in starting the Crumbine career, made a major contribution in making him realize that "life is real, life is earnest" and that a medical man dealing with issues of life and death must learn to be tough. Nothing tougher in "Swat the fly!" you say? But it is within our own knowledge that Crumbine also originated "Bat the Rat!" And in his dealings with corrupt politicians his rallying cry was "Drive the Rascals Out."

When you have given Dodge City credit for the iron it injected as its Kansas contribution, pass on the fact that the Crumbine career made "national" strides when he came to the capital city of his state, and took it upon himself to poke his inquiring nose into lives and deaths in an endeavor to see more and longer lives and fewer and older deaths.

Doctor Crumbine is a small man, perhaps there are 120 to 140 pounds of him at his weightiest, but never has he had any hesitation in throwing his weight around where calculated to do the most good. Had his light been hidden beneath a bushel a fire would have resulted. He made friends with many people. Members of the Kansas legislature who found difficulty in setting up a private pow-wow were always sure of a quiet spot in the State Board of Health. He had no fear of dignitaries.

The high powers that ran the United States Health Service soon learned that if Doctor Crumbine asked them to



You will recognize Dr. S. J. Crumbine, at right. At left is our own Dr. C. H. Lerrigo, of Kansas Farmer's staff. This happy reunion occurred recently in New York.

at 86, you will have to read between the lines. His book serves to show that "an honest man's the noblest work of God." And especially if he is a Kansas man who shelves his modesty in order to go right ahead and do a lot of interesting things for the sole reason that they need doing. At 86 one hesitates to call on a courageous, diplomatic, yet determined leader to lead new fights. Yet the same field of public health—a field of great promise and adventure—still lacks for men. It does not pay well in money. Doctor Crumbine is not rich. But at 86 he has lived a life. There are young people in our schools and colleges who might sing ...

*"Dare to be a Crumbine,
Dare to stand alone!
Dare to have a purpose firm,
Dare to make it known!"*

Frontier Doctor

The name Dr. Samuel J. Crumbine means "swat the fly" and the end of the roller towel to Kansas. From start to finish this book, his autobiography, will interest the people of the state. Dodge City was at the peak of brawling notoriety when young Doctor Crumbine began his practice there. It was the mid-1880's. Doctor Crumbine had been trained in the East, worked his way thru medical school, met his wife-to-be there. Later they were married and together they helped transform that noisy, frontier settlement into a well-behaved community.

By 1904, his fame had spread over the state and he became secretary of the State Board of Health at Topeka. Here he worked in public health and before long his fame had spread thru his slogans, "Swat the Fly," "Bat the Rat," better water supplies, good sewage disposal, his scientific tuberculosis campaigns, the abolition of the common drinking cup.

In those days such things took courage. Now they are accepted. Doctor Crumbine learned early that nothing was so effective against superstitions as subtle ridicule and robust satire. He applied this method vigorously to the reputed helpfulness of sassafras tea and a sack of asafetida about the neck.

In 1923, the Crumbines left Topeka for New York City where he took up new responsibilities for the American Child Health Association. He has since retired. *Frontier Doctor* is published by Dorrance and Company, Philadelphia, and sells for \$3.

To Stiffen Point

To thread a needle with yarn, rub your finger on a wet bar of soap, and twist the yarn end into a point.—M. P.

For the Children

Winter is the time for making plans for bird friends. Our leaflet, "Homes for Birds," pictures many styles of birdhouses, and gives instructions that are easily followed.

And it won't be long until kite-flying time is here. Many boys will be glad to have our leaflet, "Up to the Clouds With a Kite." There are many ideas on how to make kites and how to fly them.

For a copy of these leaflets, please address Children's Editor, Kansas Farmer, Topeka, and enclose 3c for each leaflet.

Farm Sanitation

Farmers' Bulletin, "Sewage and Garbage Disposal on the Farm," is a guide to up-to-date methods for the sanitary disposal of sewage and other household and farm wastes. How to construct satisfactory sanitary facilities and how to maintain them are given special attention in the bulletin. Installation, operation and maintenance of septic-tank systems will be of interest to many farm folks. A free copy of the bulletin will be sent upon request to Bulletin Service, Kansas Farmer, Topeka.

hold a meeting away out in Kansas, they might as well make no kick about the distance. Kansas obtained many health demonstrations that were unknown elsewhere.

Doctor Crumbine had scanty appropriations but got thousands of dollars worth of skilled service by appointing the scholarly men of Kansas University and Kansas State College to advisory positions in which they gave long hours of labor, all for free. It was not beyond him to know the unknowable or to get the ungettable. He led his advisory members deep into the mines operated at Lansing penitentiary, and then gave them a wonderful dinner at the expense of the warden. Such things were commonplace to Crumbine, and even while making a friend of the warden, he failed not to point out that the prisoners were entitled to more than the crumbs that dropped from the great man's table.

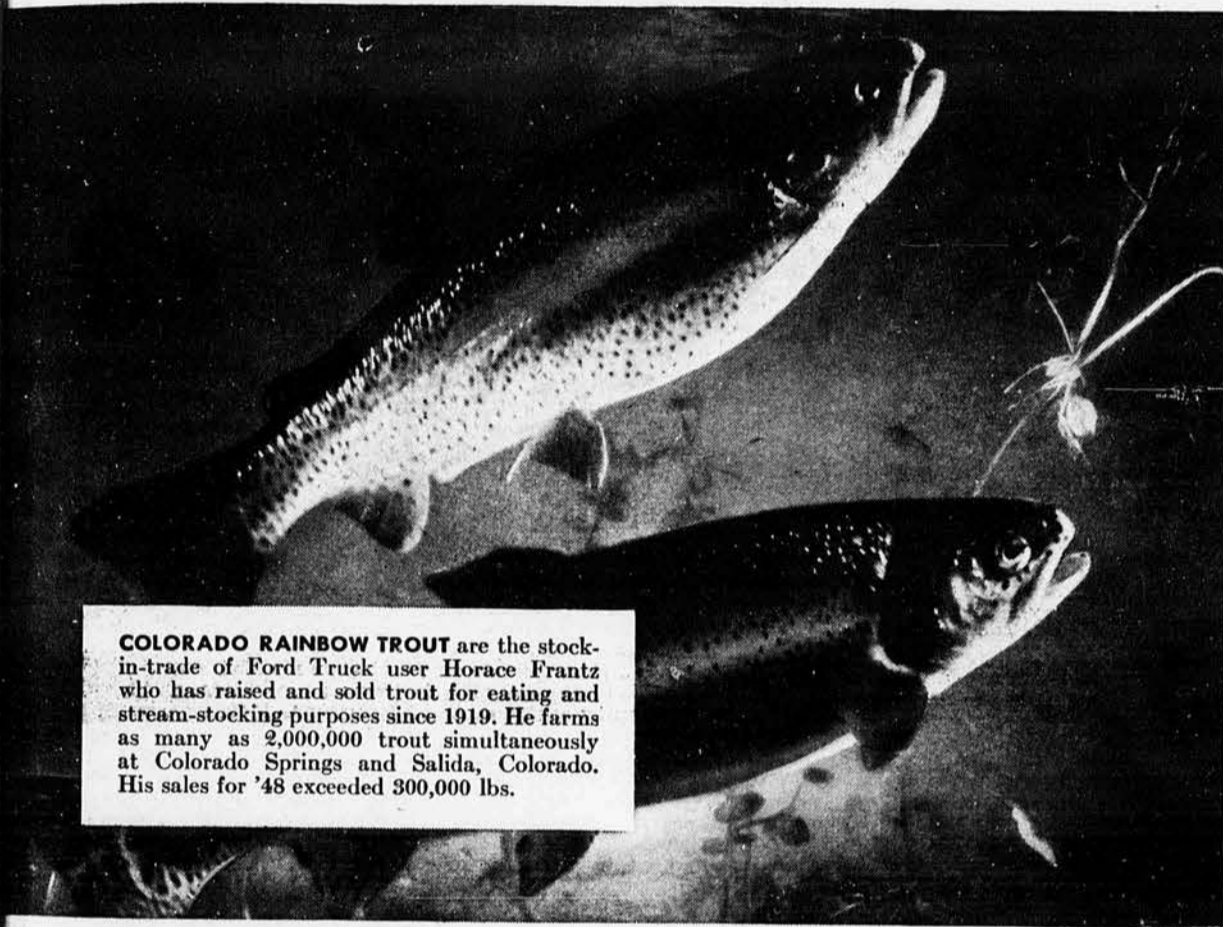
Doctor Crumbine has never claimed to be a scientist, even when Dean of Kansas University Medical College. Why should he? There were plenty of scientists holding good jobs who could be detailed for service in protecting the health of the state. And he got them. And the scientists were just as helpful as if on the State Board of Health payroll.

If you really want to know about Dr. Samuel Jay Crumbine and the public health career that still goes on

HORACE FRANTZ'S

Smart idea!

It brought him a pot of gold at the end of rainbows... millions of 'em!



COLORADO RAINBOW TROUT are the stock-in-trade of Ford Truck user Horace Frantz who has raised and sold trout for eating and stream-stocking purposes since 1919. He farms as many as 2,000,000 trout simultaneously at Colorado Springs and Salida, Colorado. His sales for '48 exceeded 300,000 lbs.



TO KEEP TROUT alive and healthy, water must be kept charged with fresh oxygen. Frantz cascades it down steps, sprays it from overhead, to keep it fresh.

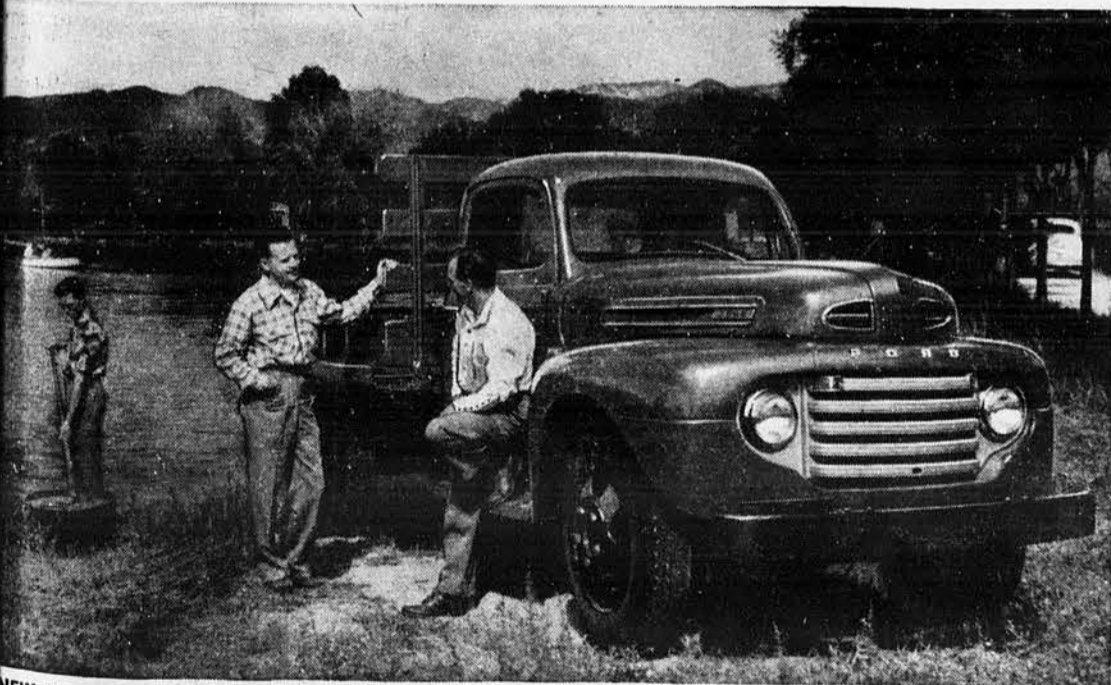


"SPRING WATER temperature in rearing runways never goes below 50 or above 52 degrees," Horace Frantz (above) says. Hatching period is 4 to 6 weeks; salable trout are "harvested" in 1 1/2 years.

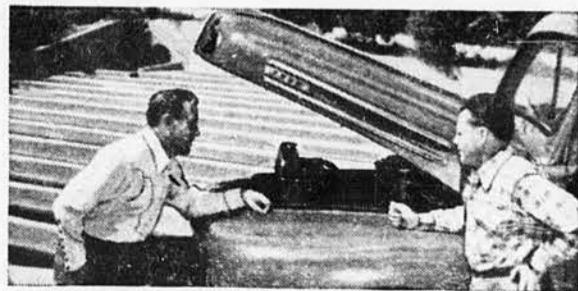
HORACE FRANTZ'S

Smart move!

He uses Ford **Bonus Built** Trucks to do the hauling in his business!



"DON'T LOOK now," says Ford Dealer Bob Allphin, "but under this cab is something no other truck has! I'm talking about Ford's exclusive Level Action suspension which insulates the cab against frame weave, smooths out the ride, and prolongs cab life."



"ONE OF THE BIG THINGS about Ford Truck engines is their reliability," says Frantz, who has used Fords for over 22 years. "That's mighty important to me, too, because in transporting live trout, a few minutes delay might mean loss of the entire load."

NEW MODEL F-5 FORD TRUCK with platform body is used in a demonstration test at feeding time by Ford Dealer Bob Allphin. Says Frantz, "My old Ford feed truck has 175,000 miles on it, but I'll bet the new F-5 could beat that." "That's a smart bet, Horace," replies Bob Allphin, "Ford Trucks are Bonus Built to take almost anything these mountain roads can give them. Every one of over 139 models, ranging from half-ton Pickups to the new 145-horsepower Big Jobs, is built extra strong to last longer."

HORACE FRANTZ'S

Smart bet!

FORD TRUCKS LAST LONGER!

Using latest registration data on 5,444,000 trucks, life insurance experts prove Ford Trucks last longer!

Cowgirl Queen Vet of 84 Rodeos!

"Collects" First Prize Saddles

HAMLIN, TEXAS—Pretty 21-year-old Jessie Myers sets a fast pace for her two older brothers, who also ride in rodeos. Jessie is especially proud of her latest win... beautiful hand-tooled saddle... first prize in sponsor's contest at '48 Texas Cowboy Reunion. Her 84th rodeo.



Has won three others too!

"BEEN RIDING since I was thirteen," says cowgirl Jessie Myers. Most of her prizes are won in girls' events—barrel race, flag race, goat tying, cow milking contests. Rugged schedule? Jessie eats her Wheaties! Started early—heard about the "Breakfast of Champions" on radio. Now she has these 100% whole wheat flakes at breakfast "most every morning".

ATTRACTIVE brown-eyed rodeo queen happily busy the year 'round. Teaches horseback riding—has active interest in tennis, swimming, softball, basketball. Youngest of lively three generation Myers family, Jessie says, "We all eat Wheaties—been our favorite cereal for years". Many three generation Wheaties families. Some families report four, even five generations enjoying "Breakfast of Champions"! Famous for nourishment—these toasty whole wheat flakes. Second-helping good, with milk and fruit! Your family had their Wheaties today?

Farm-size families find it convenient to order their Wheaties in the handy, Extra-Big-Pak. Holds 50% more than regular package. If you have several to serve, get the Extra-Big-Pak of Wheaties!

"Wheaties" and "Breakfast of Champions" are registered trade marks of General Mills.



"I'll teach you to balk for a Wheaties man!"

Deferred Feeding Success Enjoyed in Lyon County

THE Lyon county 4-H deferred feeding project probably is the largest of its kind in Kansas. A total of 57 4-H Club members in the county had deferred projects last year and fed a total of 205 head. Forty-one out of the 57 competed in the show and sale with 137 of the 205 head of calves.

Roy Johns, Reading, had the champion and reserve champion pen of deferred fed steers in this Flint Hills 4-H Deferred Fed Calf Show and Sale, at Emporia. He won the top honors with 2 pens of 3 Herefords.

The champion pen of Herefords shown by Roy topped the sale for pens at \$33.75 a hundred. The calves were purchased by E. T. Anderson, of Emporia.

Todd Schlobohm, also of Reading, had the grand champion single animal in the show. His prize animal also was a Hereford that weighed 1,080 pounds and sold for \$39.50 a hundred to E. T. Anderson.

Jimmie Jackson, Americus, had the reserve champion single animal, also a Hereford.

The champion and reserve champion pens were bought by Roy Johns on October 14, 1947. They weighed an average of 407 pounds. They were wintered on 3,320 pounds of silage an animal, 498 pounds of cob meal, 166 pounds of cotton seed meal, 18 pounds of mineral, 996 pounds of prairie hay, and were allowed to run to block salt.

Pay for Labor \$132.59

They weighed 550 pounds at the end of the wintering period. They were grazed 150 days and fed on grass the last 30 days. Their weight off grass was 780 pounds. They were fed 66 days in the dry lot, receiving a ration of 15 pounds of cob meal daily, 1½ pounds cotton seed meal, 1 pound sweet lassie, ¼ pound of mineral, 3 pounds prairie hay, and ran to block salt. They weighed an average of 950 pounds at the end of the feeding period. Total feed cost for wintering, grazing and feeding was \$95.08 an animal. Total cost of animal plus feed was \$188.03. The calves sold for an average of \$320.52, leaving young Johns a profit of \$132.59 an animal for his labor.

The grand champion single calf shown of Todd Schlobohm was purchased October 14, 1947. The calf weighed 460 pounds at time of purchase. Wintering ration was 3½ pounds cob meal daily, 7½ pounds corn-sorgo silage, 3½ pounds brome-lespedeza-alfalfa hay, 1½ pounds cottonseed meal, rye pasture 33 days in spring. The calf went on grass April 29, 1948, and was fed grain on grass for 6 days after July 28. The calf then was put into the feed lot for 93 days. Dry-lot ration was 15 pounds cob meal daily, 4 pounds molasses, 3 pounds cottonseed meal, 2 pounds prairie hay, ¼ pound mineral salt. The weight when sold was 1,080 pounds.

Purchase price was 22 cents a pound or a total cost of \$101.20. Selling price was \$39.50 a hundred for a total price of \$426.60.

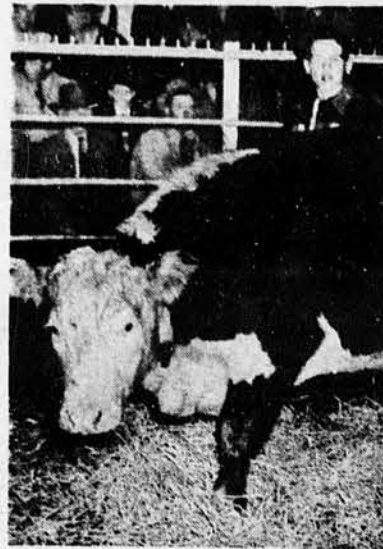
This Calf Paid \$170.33

Jimmie Jackson paid \$94.41 for his reserve champion. The weight at time of purchase was 400 pounds. His wintering ration was 5 pounds of corn, 10 pounds of alfalfa hay. The calf weighed 675 pounds at the end of wintering period. The calf was on grass for 100 days and came off grass weighing 830 pounds. Dry lot feeding period was 92 days on the following ration: 25 pounds cob meal, soybean meal hand fed, 3 pounds of alfalfa hay. Sale price was \$33.75 a hundred for a total weight of 1,055 pounds. Calf cost plus feed cost amounted to \$184.63. Labor profit was \$170.33.

All calves in the sale brought a total of \$37,815.70, for an average of \$276.03, which is \$30.26 a hundred. Boys and girls having calves in the show and sale owned their calves an average of 382 days. Average weight of all calves at the beginning was 405 pounds and average weight at date of sale was 912 pounds, or an average gain of 507 pounds, which is 1.327 pounds a day.

Winners for pens of 3 Herefords were, in order of ranking, Roy Johns, Elizabeth Ann Johns, John Smith, Elvin Johnson, Vesta Shaw, and Elvin Johnson.

Winners for pens of 3 Angus were Leanna Boline, Wanda Pyle, Richard



Jimmie Jackson, Americus, with reserve champion single calf at the show and sale.

Smith, Leanna Boline, Donald Small and Leon Smith.

Winners for single Herefords were Todd Schlobohm, Jimmie Jackson, Bill Gorman, Todd Schlobohm and Jim Gorman.

Winners for the single Angus were Carl Wingert, Bob Long, Howard Haag, Leonard Chamberlain, Leonard Chamberlain and Darrell Pyle.

Prof. F. W. Bell, of the Kansas State College animal husbandry department, was judge of the show, which was sponsored by the Emporia Junior Chamber of Commerce.

Interested Lyon county cattlemen bought the calves originally and resold them to 4-H members at cost. With Emporia business men, these cattlemen then underwrote the project with a support price of 15 cents a pound, providing the 4-H member got at least 400 pounds gain on the calves.

Members of the Junior Chamber of Commerce unloaded the calves when

they arrived, distributed them to members, helped at the show and sale, and called on all banks in the county to help arrange loans on the calves at 5 per cent interest. If the 4-H member paid 20 per cent down he could sign his own note. If he could pay nothing down he had to have a co-signer.

Following the show and sale, the Junior Chamber of Commerce entertained 4-H members and their parents and members of the sponsoring groups at a barbecue. Ben Robertson, a local cattleman and member of the civic group, supplied the beef.

Biggest buyer at the calf sale was Dick Heidrick, a local cattleman, who purchased 42 head. Other big buyers were Fanestil Packing Company, Emporia; Anderson Cattle Company, Emporia; Morrell Packing Company, Topeka; and Schroeder Packing Company, Taber, Ia.

Tries Deferred Plan

A gain of 400 to 450 pounds in one year. That was the result of a deferred feeding program for 11 calves last year by Lowell Wilhite, Butler county. This former 4-H Club boy had fed baby calves 8 out of 10 years while in club work. But when ready to start on his own expanded program, he switched to deferred feeding. He utilized knowledge he had gained in 4-H feeding projects in his deferred program.

Lowell says he wintered the calves on cornstalks, a little prairie hay and some sorgo ensilage. He also fed a small amount of grain thru the winter, about 4 pounds of a mixture of kafir and oats, along with about 1 pound of cottonseed cake. The calves were put on pasture in April and went to the dry lot October 1 for a short feed on grain.

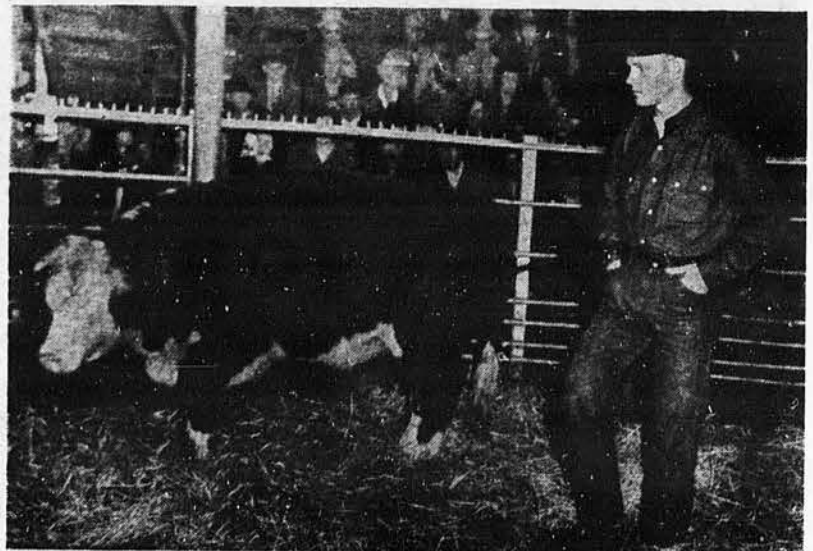
Cattle on Feed

Cattle on feed in Kansas are increasing in numbers. There were 260,000 as of January 1, 1949, reports Hubert L. Collins, Federal-State statistician for Kansas. This is 30 per cent more than for the same time in 1948, but less than for any year from 1942-46 and only about 90 per cent of the 5-year 1943-47 average.

The number of cattle on feed in the U. S. on January 1, was 19 per cent larger than a year ago.



Roy Johns, Reading, with champion pen of calves at the Flint Hills 4-H Deferred Calf Show and Sale, Emporia.



Todd Schlobohm, Reading, champion single calf exhibitor at Flint Hills 4-H Deferred Calf Show and Sale.

Sold to Swift for \$1,883,823,473.00



Quick Facts on Swift's Business in 1948

Total Sales \$2,361,114,041

Swift's average sales dollar was spent as follows:

For Livestock & Other Agricultural Products	79.8 cts.
For Employes' Wages & Salaries	9.6 cts.
For Supplies	4.0 cts.
For Transportation	2.0 cts.
For Taxes	1.5 cts.
For Other Business Expenses	1.9 cts.
<hr/>	
Total spent out of each average dollar	98.8 cts.
Remaining as Earnings for Swift	1.2 cts.
Total	100 cents

Because your business of farming and ranching is so closely related to our business of meat packing, we believe you are interested in an accounting of Swift & Company's operations in 1948. On this page we tell you how much money we received, how we spent this money, and how much we earned for services performed.



Wm. B. Traynor

The past year was reasonably profitable to both producers and Swift & Company. That's the way it should be in America. A fair profit to producers means better living and insures a sound program on farms and ranches. A fair

profit to business in cities and towns helps maintain purchasing power and markets for the products which you and Swift have to sell.

In 1948, Swift & Company paid nearly two billion dollars for agricultural products. We processed and distributed nationwide this output of your land and labor . . . cattle, calves, hogs, lambs, dairy and poultry products, soybeans, cottonseed, peanuts and other products of agriculture. For these we paid out 79.8 cents from each dollar we received from the sale of our products.

HOW THE DOLLAR WAS DIVIDED

In America a business is operated to serve the public, and to earn a profit for its owners. In 1948, Swift earned \$27,889,210 net profit. That was an average of 1.2 cents out of each dollar we received from

the sale of our products. Who got the balance of 98.8 cents? It went to people who work directly in the livestock-meat industry, to additional thousands in other businesses.



Management's Role in Modern Farming

by O. R. Johnson,
University of Missouri, Columbia

Better farm management can give startling results. If managed as well as the best 20% of the farms are managed, output of the average acre could be doubled. In most areas the output of pasture land could be increased three or four times. Our cleverest feeders get 60% more out of their feed than do average feeders. Production per cow, sow or hen could be increased 50% to 100% if animals and methods as good as those used by the top 20% of our farmers were employed by all farmers.

There are two ways of achieving higher production per acre without increasing costs. The most practical method is to raise the level of management efficiency without increasing present working forces per farm. The other method is for the farm family, with modern power and machinery, to farm more acres. This second method has obvious limitations. For there would not be enough acres to go around without eliminating many farm families. Do we want larger farm units and reduced farm population? Many think not.

However, many farmers are now faced with adopting either one or the other of the above methods. Farmers must meet today's high operating costs and still maintain living standards without forcing prices beyond the reach of the average consumer. Consumers cannot be expected to support, indefinitely, inefficient farm output by paying the high prices such inefficiency demands.



1. The major cost of meat packing is the purchase of livestock and other agricultural products. Swift paid \$1,883,823,473 to farmers and ranchers last year. You, the producers, received 79.8 cents out of each average dollar we took in from sales.



2. Swift & Company employs 73,000 men and women to provide the services producers, retailers and consumers demand. The employes look to their company for regular, gainful employment. They earned \$226,154,019 in wages and salaries in 1948 . . . or 9.6 cents of each average sales dollar.



3. Supplies of all kinds—sugar, salt, spices, containers, fuel, electricity cost us \$94,809,928. These supplies are furnished by other businesses. Our purchases from them created work and wages for many more Americans. This took 4 cents of our average sales dollar.



4. Transportation charges are a necessary item of expense, and a large one, too. Meats are moved an average of 1,000 miles from farm and ranch to market. During 1948, in distributing our products to cities, towns and villages, Swift & Company spent \$46,702,457 for transportation by rail and motor. This amounted to 2.0 cents of each average dollar of sales income.



5. Government expenses—fire and police protection, national defense, roads, social security, public education, etc.—are all paid out of taxes. Swift's tax bill for the year was \$35,220,291. The Federal Government and each of the 48 states collected some of this amount. And taxes were paid in hundreds of municipalities where our plants and properties are located. Federal, state and local taxes took 1.5 cents of our average sales dollar.



6. More than 200,000 retail store operators look to Swift for a regular supply of meats and other Swift products. We help build retailers' trade by developing nationwide consumer markets. Our research laboratories and test kitchens also help create consumer demand. Depreciation, interest and other expenses common to every business, add to this total. All these cost \$46,514,663 or 1.9 cents of the average dollar of sales.

That's the story of the division of Swift's average dollar received from sales. Of that dollar, 98.8 cents went to other people or businesses. The 1.2 cents left is our return for processing, marketing and distributing meats and other products for millions of American families. Out of this return—or net earnings—our 64,000 shareholders, men and women who invested their savings in the Company, received dividends which took 7/10 of a cent of the average sales dollar. The balance of 1/2 cent was retained to provide for future needs of the Company.

Wm. B. Traynor

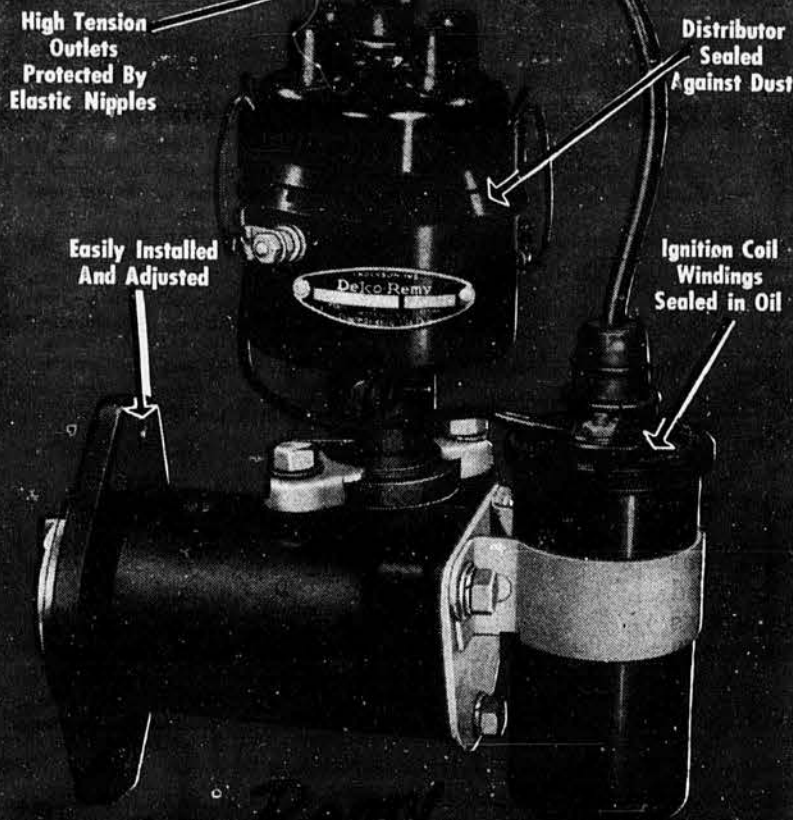
Vice President and Treasurer
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For additional information on the Delco-Remy Battery Ignition Unit, write United Motors Service, Dept. S31, General Motors Bldg., Detroit 2, Mich.

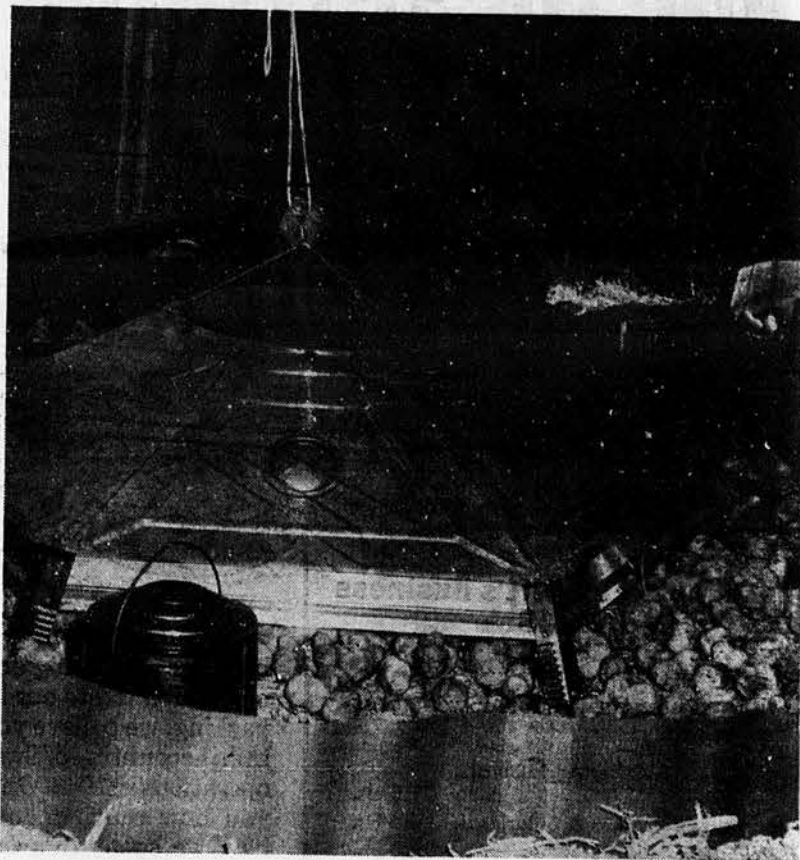
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How to Raise 48,000 Broilers



This picture shows a broiler pen arrangement being used by John Scott, Morris county. Benjamin "Junior" Blythe, caretaker, is shown with the chicks.

IF YOU are considering raising broilers, here are some good ideas being used by John Scott, Morris county farmer. He produces 36,000 to 48,000 a year, handling 12,000 broilers at a time and plans 3 or 4 projects during the year.

Mr. Scott is leasing space on the former Herington airbase. Here is the Scott program in detail:

STARTING: Chicks are started in pens formed by using 12-inch-wide strips of corrugated strawboard set on edge in circles. The 440 chicks in each pen are supplied with 4 waterers and 4 feeders.

At end of the first week, sides of pens are removed and chicks are allowed the run of building, which is heated by stoves to 65 to 70 degrees. Brooders remain in operation, however. When pens are taken down chicks are given one-half square foot each of floor space, and 4 additional broiler feeders are added for each 440 chicks.

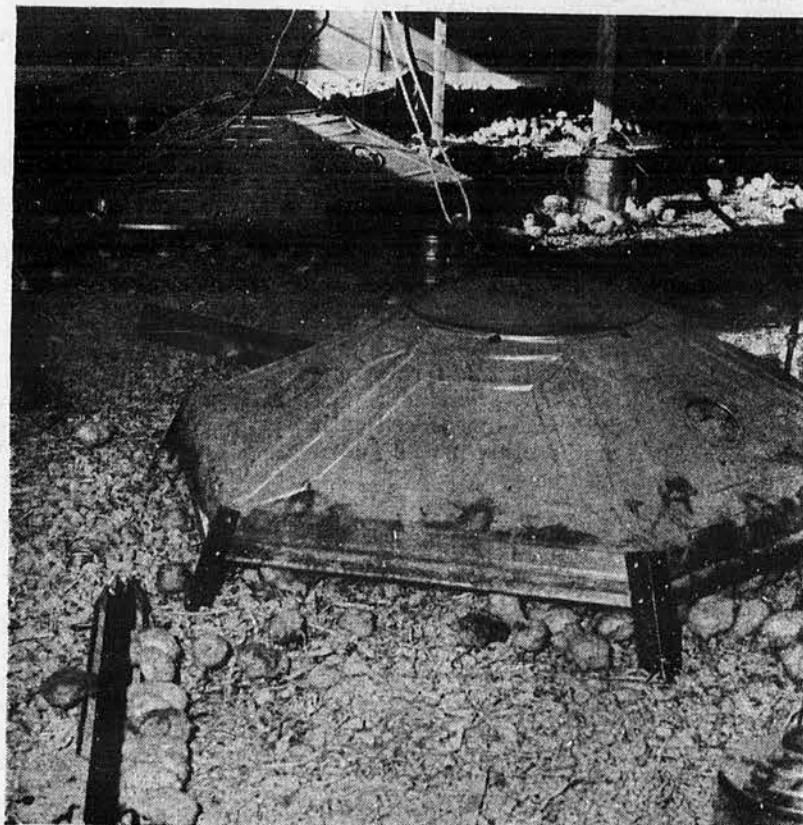
When chicks are 10 days old, waterers are removed and sterilized and run-

ning water is installed the length of the building by means of an eaves trough. All watering equipment is disinfected twice weekly.

Chicks are moved to another building when 5 or 6 weeks old and given two thirds of a square foot of space. They remain in this building thruout the remainder of the growing period. They are brooder weaned one week before moving. In the building used for the final growing stage, feed hoppers are installed along all 4 walls and the small feeders are removed. In the finish room the eaves trough watering equipment is suspended from the ceiling so it can be adjusted for height, and so it can be raised while the building is being cleaned.

LITTER: Cobs are used, with the cobs run thru an ensilage cutter to reduce to size of a walnut up to 2 inches in length. Some husks are desirable for the chicks to pick. If cobs are too finely ground they will pack and chicks may consume too much of the litter. Start

(Continued on Page 19)



At end of first week chicks are given run of building, and 4 additional feeders for each 440 chicks are added. Brooders remain in operation until end of 4th or 5th week, but temperatures are reduced 5 degrees each week.



Egg flats for scratch grain and coarsely ground corn cobs for litter are important points in broiler raising. The Blythe Cocker puppy is shown here getting acquainted with the new chicks.

with 3 inches of litter and add 2 inches with each new bunch of chicks. Clean once a year unless disease develops.

FEEDING: When chicks are first put into pens upon arrival, give them scratch grain on egg flats immediately. Scratch grain should be steel cut to chick size and fed to prevent pasting. Feeders can be filled with mash and covered with a sprinkling of scratch grain to encourage chicks to pick at it. Sprinkle small amount of grit on feed the first day to help digestion. Hand feed scratch grain on egg flats every hour to 1 1/2 hours first 2 or 3 days until chicks begin eating well from the feeders. Quit scratch grain at end of 3 days and burn egg flats. Prevent picking at 4 to 6 weeks by feeding whole oats and alfalfa hay.

LABOR: One man can care for up to 25,000 broilers except for these periods—getting houses ready, arrival of chicks, moving chicks to another building, marketing. It is not necessary to move chicks at the 5 or 6 weeks age as Mr. Scott does. He finds it an advantage in his case to keep his brooder equipment in constant use.

FEED CONSUMPTION: Mr. Scott figures on 10 to 11 pounds of feed to finish a 3-pound broiler.

COST: Housing, 1 cent a bird (this cost would be higher if you had to build instead of lease space); heat, 2 cents a bird for winter brooding; interest and depreciation on equipment, figuring life of equipment at 10 years, 1 to 1 1/2 cents a bird; labor, 4 cents a bird. Cost of litter will depend on whether you

have or can obtain cobs free. If so, figure cost of grinding and hauling only.

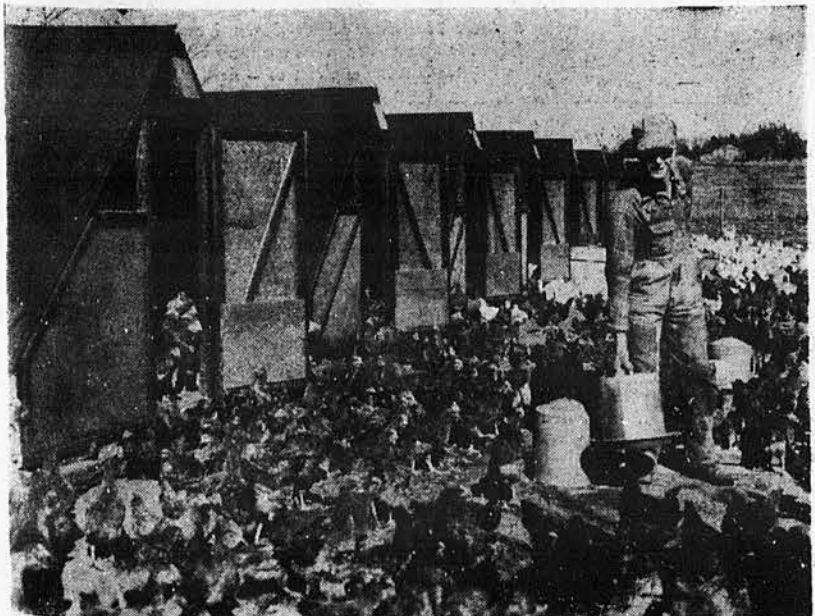
LOSSES: Mr. Scott has been averaging a 5 per cent death loss from the following causes—2 per cent from picking, 2 per cent by accident, and 1 per cent from natural causes, such as incubator weakness.

The death losses can be held to a minimum by watching the following points: Buy only strong, disease-free chicks from an accredited hatchery; feed scratch grains every hour first 3 days to get chicks started to eating fast and to prevent pasting; keep temperature even at all times; prevent picking by adding oats and alfalfa hay at from 4 to 6 weeks; use lights at night to prevent piling; start brooders at 95 degrees and reduce heat 5 degrees each week until chicks are brooder weaned; use sulfa drug in drinking water first 10 days as recommended on product; keep room temperature at 65 to 70 degrees at all times.

PROFITS: In favorable feed ratio years like this one, profits may run to 30 cents a bird. Mr. Scott says over a period of years he will be satisfied with an average of 10 cents a bird.

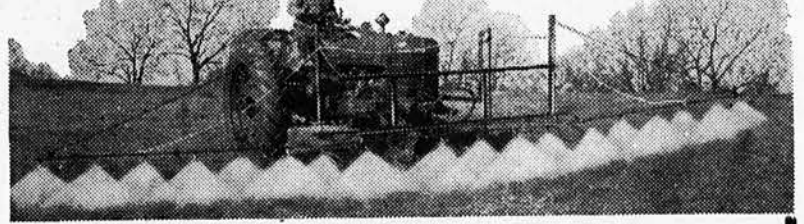
GENERAL INFORMATION: Be sure you have a market before you start your broilers; raise broilers only in large volume as profits per bird may be small; volume also insures better market as it will interest large buyers and will cut feed, labor and housing costs.

Broilers Do Well Here



Broilers can be grown with this type of equipment, being used in an experiment at Burlington by the Seymour Packing Co.

INCREASE PROFITS with EVANS STURDY, RELIABLE SPRAYERS

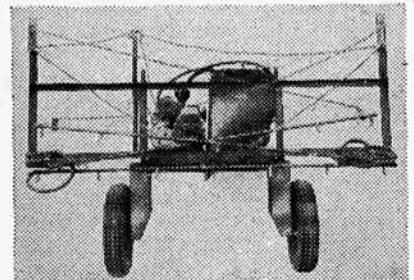


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They Make Your Housework Easier



Homemaking

By Florence McKinney

SHOPPING for new household equipment these days is a delight. There are items so gleaming, so well-designed, so efficient they make our old things outdated. The day of heavy, hard-to-run, inefficient home equipment appears to be in the past. Heavy, clumsy irons, awkward-to-operate washing machines, pieces difficult to clean, are not even on the market these days.

The day of the pop-up toaster, sit-down ironing, the automatic electric washer, home freezers and fuel-saving equipment is here to stay. Take a look around the stores, there are many from which to choose. Making the choices will be the biggest problem. Take washing machines, for instance. The new automatic washer is almost a dream. It fills itself with water, washes the clothes, rinses them, spins them damp-dry, the tub is cleaned and drained during the drying process, leaving only the trap to be cleaned by the homemaker. But the automatic washer can be used only if there is an adequate water supply, both hot and cold. Water pressure, too, is important. Perhaps a standard type of washer fits your needs better.

Learn from the dealers whether their washers will handle your size laundry. If you prefer to wash often and less clothes at a time, one washer will suit your needs better than another.

Glass kitchenware makes beautiful displays on the store shelves, some of it in colors. The latest is a 4-dish oven-refrigerator set in colors. A glass double-boiler gives the cook the advantage of actually seeing the food cooking within, even with the cover in place.

A new vacuum sweeper on the market is lightweight, made specifically for the small home and apartment. In the large home, it might well be

used for the upstairs and stored there between cleanings. It weighs only 13¾ pounds.

Irons are made these days which with the push of a button lift themselves on to a built-in stand . . . no lifting, no effort.

Ironing boards are on the market that will shift themselves with the touch of a finger, so the ironer can sit in one position while ironing . . . the board shifts, not the ironer.

These days it's possible to roast and bake on top the stove. There are utensils made especially for this purpose. For those who do not like to heat the oven for a pan of biscuits or who like to save fuel or if the oven is not working well, this top-of-the-stove baker is ideal.

Another new gadget is the magic wand for the home, which will do odd jobs about the house, anything from singeing chickens to browning casserole dishes, defrosting the refrigerator, removing paint, even thawing radiators and pipes.

Lighting has improved remarkably since the war . . . there are new lamps and new bulbs to fill a wide variety of needs.

More and more country women are buying home ironers for they save wearisome hours at the ironing board, give her more leisure time. When one becomes adept, even shirts go thru the ironer as well as flat pieces.

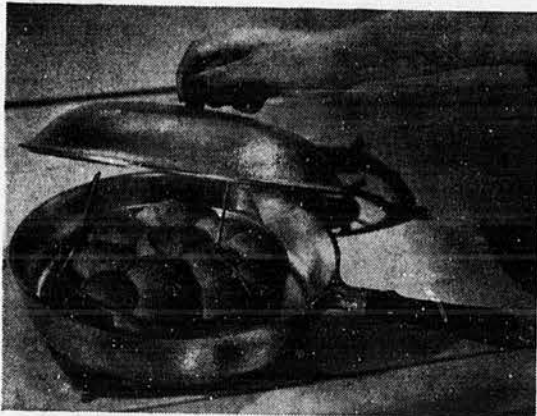
Vacuum cleaners these days clean not only the carpets but the draperies, the walls and the furniture. Clocks on stoves regulate cooking time, electric fans ventilate the whole house, electric blankets keep us warm on winter nights. There are lamps that bring sunshine right indoors, not ordinary lamps for light, but those that give ultra-violet rays. Electricity washes dishes, rinses and dries them . . . everything but places them back on the shelves in rows. It chops garbage and rinses it away.

Double-unit sinks in stainless steel as well as the traditional white porcelain interest women everywhere. Electric irons are featherweight and adjustable for any type of fabric.

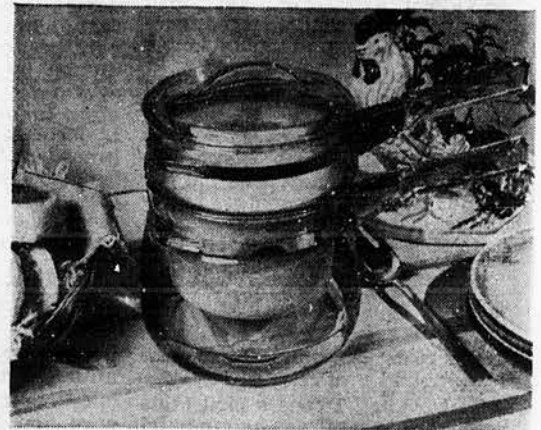
The busy farm wife needs and buys these items. She keeps up with her sister in the city. She is no longer the forgotten woman.



Above: This automatic washer soaks, rubs clothes gently for 3 to 20 minutes, depending on the time selected by the housewife, rinses and damp-dries.



Left: Top-of-the-stove baking and roasting saves fuel. A rack with handles fits into the Dutch oven for baking, roasting and easy removal.



Above: A double-boiler is a must in every home. This one of glass has an advantage . . . the cook can see within with the cover in place.

Below: This new piece of equipment will singe chickens, thaw radiators and pipes, remove paint. It's about the size of an egg beater.



Above: A lightweight vacuum sweeper will be right either for a small home or the second floor of a large one. It weighs 13¾ pounds.

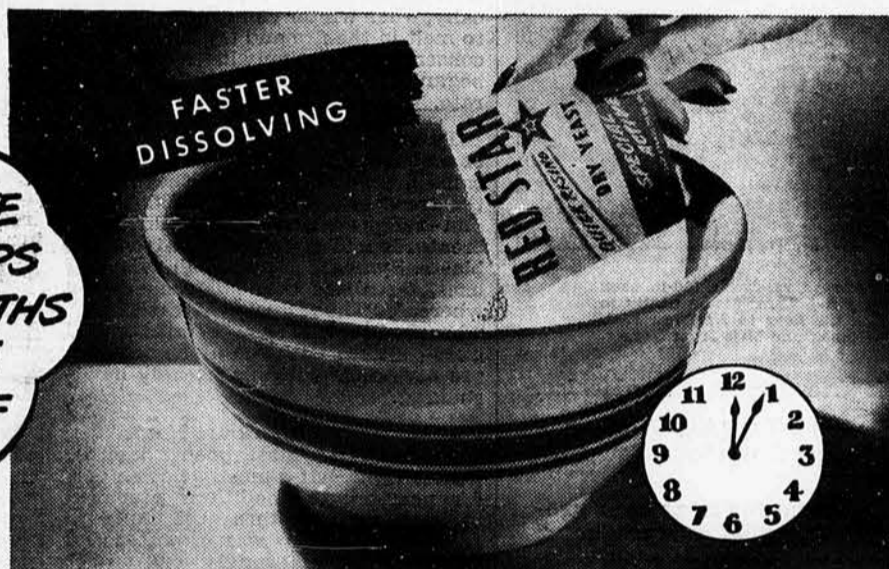
Below: The day of sit-down ironing is here. It's possible with an iron that lifts itself with a push of a finger.





Why Red Star

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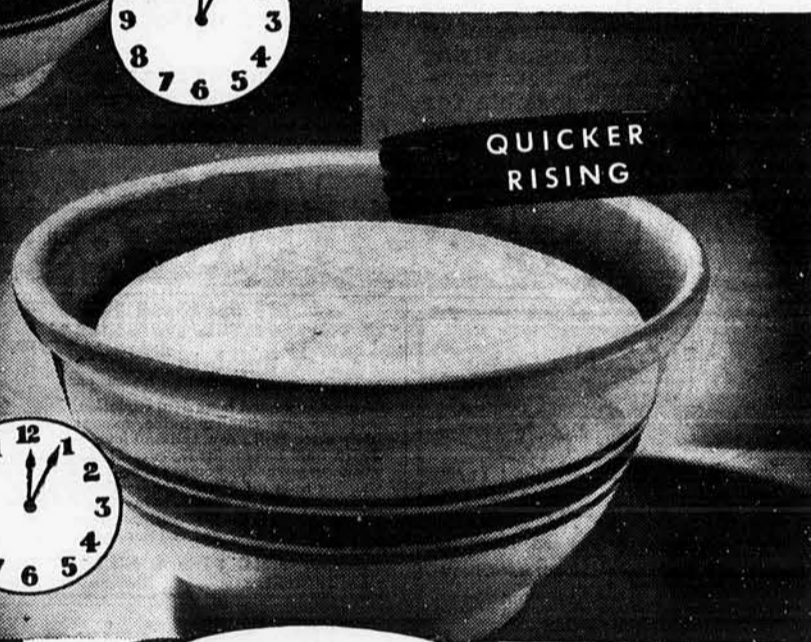


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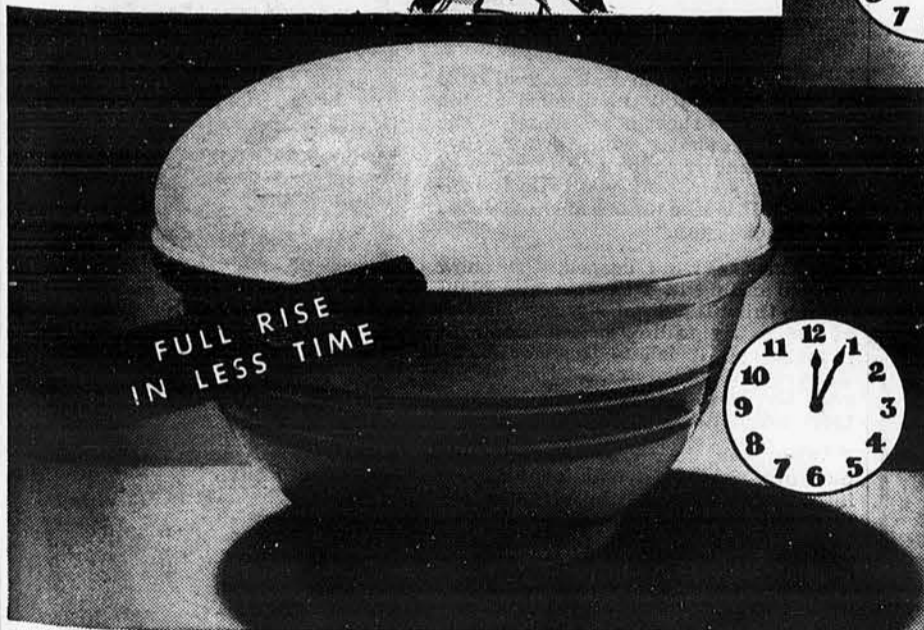
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RED STAR KEEPS
FRESH FOR MONTHS
RIGHT ON THE
PANTRY SHELF*



*... NEVER FAILS TO
GIVE ME LIGHTER, BETTER
TASTING BAKED GOODS*



*... STARTS WORKING
THE INSTANT YOU ADD
WARM WATER*



If you haven't tried Red Star *special active* Dry Yeast, get a supply today. You'll find that Red Star will save time in *all your recipes*.

And, as for flavor and texture of baked goods made with Red Star, just let your family be the judge.

KANSAS STAR FLOUR

Chosen the "GOOD NEIGHBOR" FLOUR



Aliff Neel (right) President of Kansas Flying Farmers, receives a 100-lb. sack of KANSAS STAR "Better By Far" Flour, a gift he presented recently to President Miguel Aleman of Mexico. Delivering the flour to Neel are J. J. Vanier, head of Western Star Mill Co., Salina, Kans., and Miss Joyce Vanier.

KANSAS farmers grow our nation's best wheat . . . KANSAS STAR "Better By Far" Flour is milled from only the best of Kansas wheat . . . Kansas Flying Farmers wanted the best representation possible for their great wheat state on

their "friendship flight" to Mexico. KANSAS STAR Flour, the "good neighbor" flour, flew with them! Next time you're at your grocer's, ask for the "good neighbor" flour . . .

It's KANSAS STAR FLOUR Better by Far

FROZEN

ALIVE

HERE'S SPECIAL NO. 7

40 lbs. Canadian Walleyed Pike, dressed, headless, scaled, glazed, ready for pan or home freezer

40 lbs. Canadian Silver Bass, dressed, headless, glazed

20 lbs. Extra Large Alaskan Halibut Steaks, glazed or dipped in wax, ready to fry or for home freezer

100 lbs. Net of fish, packed in dry ice . . . **\$44.00**

50 lbs. One-half of above order, packed in dry ice . . . **\$23.00**

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Containing other Specials, and Prices on frozen, smoked, salted, pickled fish, also lutefish, oysters and other sea foods.

FRADET FISH COMPANY
224 Front Street, West Fargo, North Dakota

25 GLADIOLUS Bulblets FREE

Mix of my most beautiful varieties. Regular first quality bulbs, except baby size. Will grow tall and lovely. Fully half bloom first year. Developing and growing gorgeous flowers is my hobby. My new Catalog tells all about them—that's why this exceptional offer. Write today—just say, Send Free bulblets. Enclose 3c stamp, please. Glads, catalog, my magazine Seed Sense, free, postp'd.

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1712 Elm St. Shenandoah, Iowa

Little Ads Bring Big Results
in Kansas Farmer—Classified Department. Only 10c a word, per issue—12 words minimum.

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Here is just what you need for cooking during those power-line failures. A FULL-SIZE gas range at a real bargain price, operates from natural, tank or bottled gas. This is not a "midget." THE OVEN HOLDS THE LARGEST ROASTER MADE (35-pound size). Other features:

- Easy-to-clean top and drip tray.
- Speed-simmer, double top burners.
- Pull-out broiler on roller bearings
- Automatic oven control.
- Fits flush to wall.
- AGA approved.
- Non-tilt oven racks.

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MAIL COUPON →

Homemaking

A Country Woman's Journal

By MARY SCOTT HAIR

*"Tis time to light the evening fire,
To read good books, to sing
The low and lovely songs that breathe
Of the eternal spring."
—Alice Carey.*

SINCE time immemorial, writers and poets, artists and musicians have used the winter season as inspiration for poems, books, great paintings and beautiful music. In other years, when winter arrived at the proper time, I've had my "say." But this time, like so many other kindred souls, we were not prepared, mentally or physically, when winter came. Wood seemed to melt in the fire and try as we did to conserve it, the supply in the woodshed began disappearing at an alarming rate.

Two snowy preludes to the arrival of actual calendar winter brought cold rains first, and icy winds that lashed the trees in a merciless mood. Sheep and range cattle, little wild wood creatures and birds suffered from the blasts. Sympathetic with all suffering ones, I realized that Nietzsche knew whereof "Thus Spake Zarathustra" when he had him say, "Winter, a bad guest, sitteth with me at home; blue are my hands with his friendly handshaking."

It all began with a rain. Not a "dismal rain" as most poets describe winter rains, but a most welcome one, for near-drouth conditions prevailed in our section thru the autumn months. Little streams of water and wells became alarmingly low, and it was an effort to fill the big tank from the ranch well. The rain came down in gray, slanting lines, and the dry, cold earth seemed to welcome every drop. Big drops of water, almost freezing, ran down the telephone line outside the window, like beads on a broken string.

In the night the wind blew, the windowpanes shivered, and the house seemed to brace itself against its mighty force. I always think, at such windy times, of the book, "My Father's World," by Merton S. Rice, for the chapter about the wind is one of the most beautiful, the most descriptive of any I have ever read. I've memorized portions of it, and this one is a special favorite because there are giant trees outside my bedroom window.

"It takes a tree to make a real harp for the wind, and the timbre of the tone it makes there is the secret of the tree. Send a strong wind thru a grove of trees, and if there is any sense of music in your soul you will be entranced. It is like unto a master seated at a great organ."

When the wind ceased, the snow started falling in a thick, white blanket, so thick the night sky seemed full of the softly falling flakes. Some of it melted as it fell to the wet earth. But ere long, aided and abetted by the cold, the blanket became thicker and more beautiful.

When the door was opened next morning so the kittens could come into the house from the smokehouse, which is now used for a washhouse, they paused in the doorway and touched the snow with inquiring paws. Then they plunged forward boldly and once inside the kitchen they ridded themselves of the frosty bits clinging to their furry bodies.

The crows were out early to see what was going on, on such a cold day, and one particularly handsome fellow had a glazy white cloak over his shining black wings. Wherever he slept that night, his roof leaked! But he called out a cheery greeting to the gray squirrel that scampered about looking for a handout.

About the first chore on any snowy morning is that of cleaning off the window-sill feeding shelf and filling it with goodies for the birds. It's funny how quickly the chickadees can spot a feast of cracked nuts! They came

from all directions, their cheerful chatter mingling with the bluejay's shriek of "thief, thief"! All day long, flashing shadows on the kitchen wall told me the birds were enjoying the feast prepared for them. Winter is certainly the best time of all for making friends with the birds.

It was Shakespeare who wrote, "A sad tale's best for winter." I do not agree! Give me a seed catalog, some midwinter sales books and an almanac and my winter evenings will take care of themselves . . . oh, yes, the mending basket has a place of honor all its own for just such evenings!

My favorite almanac has the story of "ground ivy" as my Granny Belle called it. I've always loved this old-fashioned plant for its fragrant leaves, and dainty little blue flowers brighten up spots where other plants refuse to grow. And it takes a mighty hard freeze to chill its enthusiasm for living.

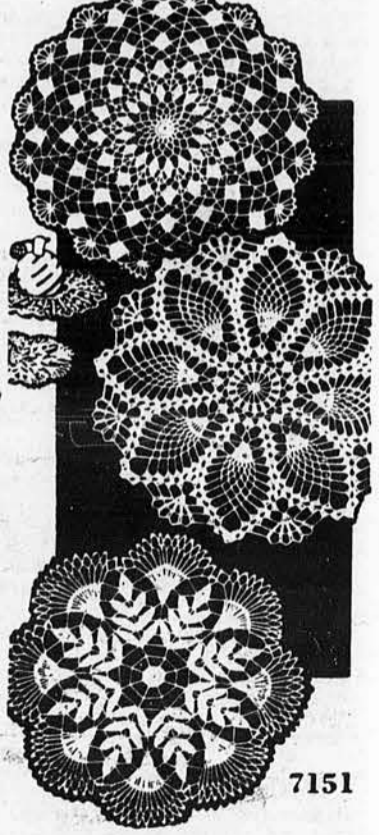
My almanac has many interesting stories and bits of information. Reading some of them brought back memories of Granny Belle's kitchen where

Geary county was named for John White Geary, third territorial governor from 1856 to 1857. He also was major general of the Pennsylvania volunteers in the Civil War, and governor of Pennsylvania from 1866 to 1873.

dried herbs hung in bunches near the big kitchen range. She always kept catnip for the big kitty that moused in the "old house" where the loom was, and where Granny wove yards and yards of rag carpets and rugs.

According to the almanac, "One often finds catnip growing around buildings of old farms because of a belief held that the odor of this plant drove off rats. The plants were set as a barricade around buildings." This idea, tho quite old, apparently, is certainly a new one to me!

Three Little Dobbies



Just see how easy they are to crochet. One is pineapple design, one fern, one is pretty flower-petals. Pattern 7151 gives complete directions for the 3 doilies.

Send 20 cents for Pattern 7151 to the Needlework Editor, Kansas Farmer, Topeka.

Homemaking

The Recipe Corner

Caramel Apples

8 apples
16 marshmallows
1 cup butter
1 cup brown sugar
½ cup nuts, almonds preferred

Arrange 2 layers of apples, cut into eighths, marshmallows cut into thirds, dots of butter, brown sugar and nuts in a buttered baking dish. Bake in moderate oven (350° F.) basting occasionally. Cool. Serve with whipped cream if desired. Serve with pork, turkey or chicken.

Tomato Sauce

1 cup cooked tomatoes
½ teaspoon celery salt
2 tablespoons butter
2 tablespoons flour
½ cup water
½ tablespoon chopped onion
1 small bay leaf
1 clove
salt and pepper

Combine all ingredients with exception of flour and butter. Simmer for a few minutes and strain. Mix flour and butter and add other mixture. Cook, stirring constantly until thick and smooth. Serve with meat and fish.

Canned Hominy

Heat hominy to a rapid boil and pack to within one inch of top of jars. Cover with boiling water. Remove air bubbles, adjust lid and process pint jars in pressure cooker for 55 minutes, quarts 85 minutes at 10 pounds pressure. If water bath is used, process pint jars for 3 hours.

bles, adjust lid and process pint jars in pressure cooker for 55 minutes, quarts 85 minutes at 10 pounds pressure. If water bath is used, process pint jars for 3 hours.

Carrot, Cheese Salad

1 pound cottage cheese
1 cup finely chopped or grated carrot
¼ teaspoon salt
Dash of pepper
2 tablespoons finely chopped onion
¾ cup cooked salad dressing

Mix the cheese with chopped carrot, onion, seasoning and serve with dressing.

German Crumb Cake

2 cups flour
1½ cups sugar
2 teaspoons baking powder
¼ teaspoon salt
½ cup butter
2 eggs, well beaten
½ cup milk
cinnamon
½ cup nuts, chopped

Sift dry ingredients together, cut or work in butter. Reserve 1 cup of mixture. To remaining mixture, add combined eggs and milk and beat well. Pour into buttered coffeecake pan. Cover top with reserved mixture. Sprinkle with cinnamon and nutmeats. Bake in a moderate oven (375° F.) for about 30 or 40 minutes.

Applesauce Is Something Special

By **ELSIE RANDOLPH**

EVER since Eve took a bite out of the apple in the garden of Eden, the apple has been looked upon with suspicion by the whole human race. People speak of applesauce in double meanings. Actually it is something special, even versatile. Applesauce may be a stimulant, a sedative, a lubricant or an adherent. It is wonderful stuff! It must be seasoned with good taste and served with judgment and discretion. You do need to be careful how you dish it out.

A little judicious praise given a child will do more good than hours of nagging. From childhood on, we respond to praise and appreciation with a new burst of speed. Appreciation of good work puts new pep and energy into an employee, while criticism slows him down. Applesauce spread on the bruised spirit of some discouraged wayfarer gives him momentum and pushes him right over the bumps in his path.

Try applesauce as a cooling agent when some hot-tempered friend gets pugnacious. Quick tempers may flare, but a bit of understanding and wise sympathy soothes the ruffled spirit. The applesauce does the trick.

You can oil the wheel of progress and the rocky road to success with applesauce. If you see someone who has a steep and bumpy road to climb, you can raise his morale by a sympathetic appreciation of his efforts. Oiling the road for someone else automatically oils your own path.

Strange as it may seem, applesauce is an adherent or sticking agent, too.

A little sweetened applesauce dished up carefully can patch up the cracks in a broken friendship. Fit the pieces together and fill the cracks with bits of

Said It With Eggs

I sent my friend a valentine
Without a verse or dart,
A basketful of new-laid eggs,
And so I won her heart.

—By *Camilla Walch Wilson.*

appreciation. Look for the good in your friend and tell him about it. There is plenty of good there or you wouldn't have been attracted to him in the beginning.

Applesauce will cement the seams in a cracking marital relationship, too. Husbands and wives get to seeing a small fault in the other and hold it so close to their eyes that it shuts out a whole world of good qualities. Many a broken home could have been mended with applesauce.

The uplifting power of love is immeasurable. People will rise to the challenge one gives them. Love draws, creates and attracts the good. Recognize the good qualities, smile at all you meet. Give to others the best of yourself and the best will come back to you. You can slide right into victory at the home plate on applesauce.

Plants Need Winter Care

PERENNIALS and bulbs, lawns and shrubs need some special care in the winter. Some injury to plants is unnecessary and can be prevented. The cold seldom is injurious to plants. It's the drying by winter wind and sun which causes the common "winter kill" of evergreens. When the ground freezes so evergreens cannot take up the moisture they need in the winter as well as in warmer weather, they often brown and die by drying. A shade

against the sun or a windbreak may be needed to save them.

After a heavy fall of wet snow, shake small trees and evergreens to prevent broken limbs. Shake before the wet snow freezes on and makes the branches brittle.

Alternate freezing and thawing sometimes heaves bulbs and perennial roots out of the ground and leaves them exposed to the air. Once the ground has frozen, a covering of leaves or other mulch makes a good insulation to protect against thawing until spring arrives.

Another wintertime problem is roof drip. It will kill or at least damage plants. Drain spouts should be cleaned and little temporary shed roofs built to cover the shrubbery.

One more hazard in winter is salt sprinkled on icy sidewalks. As the ice melts, the salt is washed into the nearby soil and salt is not beneficial to most plants. Sand or ashes are better, less damaging.

A Valentine Party

It isn't too late to send for our leaflet, "A Hearty Party," if you need suggestions for a Valentine's party. We shall give all orders our prompt attention. Please address Entertainment Editor, Kansas Farmer, Topeka, and enclose 3c for postage.



**The Finest Coffee
You Could Serve**

WOULD STILL BE

Butter-Nut

LESS THAN A

Penny a Cup!

If you were wealthy beyond your dreams, still you could buy no finer coffee than Butter-Nut...at less than a penny a cup. Favorite of millions...and probably costs no more than the brand you now use. Next time buy Butter-Nut. You'll love it.



**Butter-Nut
"The
Coffee
DELICIOUS"**

BUTTER-NUT GLASS JARS ARE REAL FRUIT JARS. SAVE THEM

Homemaking

Study the Pattern

Tips for the Dressmaker

BUY your pattern by bust measure, not dress size, as patterns are marked a size smaller than ready-to-wear items.

them off to reduce the bulk. Cut one thickness very close, the next a bit wider and so on.

Before cutting, read the pattern directions carefully. They give you the sewing details which give your work that custom-made look. Note carefully the directions in which to press darts and seams. Even if you are experienced, you're bound to get new sewing techniques from these directions.

Fit the garment with the right side out, to take care of figure variations.

Be certain to use the shoulder pads you will wear with the dress, otherwise the fit will be inaccurate. Even blouses and wash dresses perk up if worn with shoulder pads.

Before cutting the garment, check each piece for fit. First, get your complete body measurements by measuring yourself and any well-fitting dress. Compare these measurements with those on the pattern envelope. Pattern measurements are body measurements. The pattern itself allows for seams, and ease of material. Measure the pattern for correct length as well and then adjust the pattern as necessary.

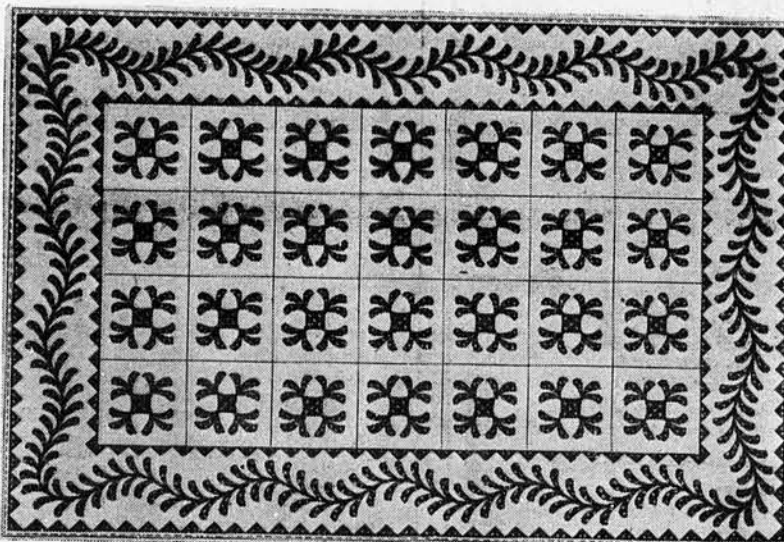
Tape stitched under the row of buttons on a dress or blouse will add to the life of the garment. Especially, if the garment is rayon, the damage from a hot iron will be prevented.

A piece of organdy, dampened slightly, serves well as a pressing cloth as you sew. It is easy to handle and its transparency enables you to follow chalk marks. On rayon fabrics, which can't stand much heat, use dampened tissue paper for pressing.

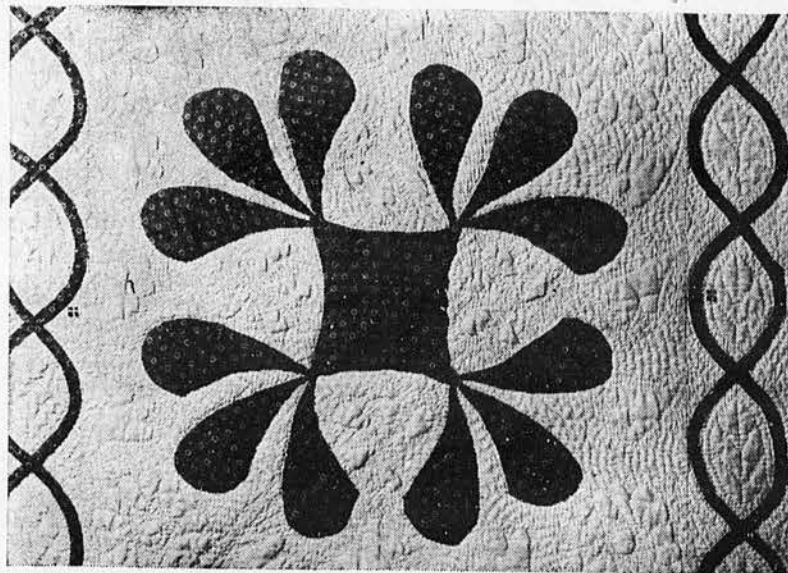
Recipes Wanted

The home department invites recipes from readers. We especially desire simple recipes having only a few ingredients, some one-dish meal recipes and other types for the whole year around if simple and practical. We have plenty recipes at present for cakes, pies and candies. All recipes will be tested by the women's editor. We will pay \$1 for any recipe published. Please send to the Women's Editor, Kansas Farmer, Topeka.

Turkey Tracks



This pattern is of the sort that wins the prize at the fair. Unusual in design and quilting. Pioneer mothers fearing that "wandering foot" suggested wanderlust, renamed this quilt pattern the "turkey tracks."



The detail pattern shows the size and the quilting design as well. To order, send 5 cents to the Home Editor, Kansas Farmer, Topeka, and specify the name, "turkey tracks."

THE BOYS SAID "NO"—But I'm making this Offer anyway!—HENRY FIELD



Thrive Anywhere Easy to Grow

3 PKTS. ALL FOR A **3¢ STAMP!**

MY 3 NEW SUPER GIANT ZINNIAS

These SUPER GIANT ZINNIAS are really something to behold. They grow so big and beautiful they are unbelievable. You'll have people from all over the countryside talking about yours. And they grow anywhere. Hardest flower of all. Sure to bloom ALL SUMMER LONG. 3 packets. 1 Yellow, 1 Orange, 1 Red. All for 3c stamp.



MAIL THIS RIGHT AWAY

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1710 Elm St.
Shenandoah, Iowa

HURRY. DON'T WAIT—Am making this amazing offer to get acquainted with new gardeners. But don't have too big supply of seed, so get your order in right away. Will send along my 1949 seed and nursery catalog, and a FREE subscription to my magazine "Seed Sense."

HENRY FIELD, 1710 Elm St., Shenandoah, Iowa

Dear Henry: Please send me 3 Super Giant Zinnia Packets, New 1949 Catalog and "Seed Sense" Magazine. I am enclosing a 3c stamp to help with the mailing.

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FOLEY'S Honey & Tar Cough Compound

The Story of the Capper Foundation
tells of crippled children made whole! Of sad parents made happy! It tells how you may help in this expanding program of healing. Write for your free copy of the story today.
THE CAPPER FOUNDATION for CRIPPLED CHILDREN
Capper Building : Topeka, Kansas

Do you suffer distress from *'periodic'* **FEMALE WEAKNESS**

With Its Nervous, Highstrung Feelings?

Are you troubled by distress of female functional monthly disturbances? Does it make you feel so nervous, cranky, restless, weak, a bit moody—at such times? Then do try Lydia E. Pinkham's Vegetable Compound to relieve such symptoms! Women by the thousands have reported remarkable benefits.

Pinkham's Compound is what Doctors call a uterine sedative. It has a grand soothing effect on one of woman's most important organs. Taken regularly—Pinkham's Compound helps build up resistance against such distress. It's ALSO a great stomachic tonic! All drugstores.

Monthly Female Pains

Pinkham's Compound is very effective to relieve monthly cramps, headache, backache,—when due to female functional monthly disturbances.



Change of Life

If the functional 'middle-age' period peculiar to women makes you suffer from hot flashes, weak, highstrung, irritable feelings—try Pinkham's Compound to relieve such symptoms. It's famous for this purpose.

Lydia E. Pinkham's VEGETABLE COMPOUND

"—NO MORE UPSET STOMACH"

Do you suffer heartburn after meals?...feel lousy?...uncomfortable? Then read this heartening letter from a woman who found her way to better digestion and better health:



"Before switching to POSTUM, I suffered both indigestion and nervousness... But now my nerves are quieted and my digestion much improved. No more upset stomach after drinking POSTUM!"

SCIENTIFIC FACTS: Both coffee and tea contain caffeine, and caffeine is a drug which in many persons tends to produce harmful stomach acidity, as well as nervousness and sleepless nights. So while many people can drink coffee or tea without ill-effect, others can't—and this may mean YOU!

MAKE THIS TEST: Give up coffee—give up tea—drink POSTUM exclusively for 30 days—and judge by results! Remember: POSTUM contains no caffeine or other drug—nothing that can possibly cause indigestion, nervousness, sleeplessness! Ask your grocer today for INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

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Think of it! Five fine bulbs that will bloom for years—producing innumerable flowers of aristocratic, waxy beauty. We also will send you our New Seed and Nursery Catalog and a free subscription to Gurney's Planting Guide. Exceptional value. Send 10¢ Today.

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YOUR NAME ENGRAVED FREE!

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No Cooking. No Work. Real Saving.

Here's an old home mixture your mother probably used, but, for real results, it is still one of the most effective and dependable for coughs due to colds. Once tried, you'll swear by it.

It's no trouble. Make a syrup by stirring 2 cups granulated sugar and one cup water for a few moments, until dissolved. No cooking needed—it's so easy! Or you can use corn syrup or liquid honey, instead of sugar syrup.

Now put 2½ ounces of Pinex into a pint bottle, and fill up with your syrup. This makes a full pint of truly splendid cough medicine, and gives you about four times as much for your money. It keeps perfectly and tastes fine.

And you'll say it's really excellent for quick action. You can feel it take hold swiftly. It loosens the phlegm, soothes the irritated membranes, and helps clear the air passages. Thus it makes breathing easy and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action on throat and bronchial irritations. Money refunded if not pleased in every way.

Homemaking

Cut Back Poinsettia

Soon after the Christmas poinsettia has bloomed, cut the plant back, allowing but one or two buds to a stem and give it a complete rest for 2 or 3 months. When new growth starts, stems will branch where cut. The more stems, the more flowers that will bloom. Use the cuttings to start new plants.

During the rest period, a poinsettia should have only enough moisture to keep stems from shriveling. Lay pot on side, first in basement, then under garden shrubbery when weather warms enough. After the rest period, scrape off the top soil and add fresh. Keep plant well watered. Bring indoors next fall and start the black-cloth treatment in early November in preparation for another Christmas blooming.

A Good Height

Around 25 inches is the best height for a table lamp. See that it has a spreading shade and is lined with white or near-white. A large 100-watt bulb in a reading lamp is a good investment in good and lasting eyesight.

Family Living Costs Up

Farm families are spending \$500 a year more for family living now than in 1940. This spending is expected to continue in 1949. There is a large supply of durable goods available now and the demand by farm people for these goods has not been met. Many more families still need new washing machines, new stoves and refrigerators. In 1948, improved housing and new home equipment accounted for a large amount of cash spent.

Children and Books

Children should grow up with books of their own. Books wisely chosen to widen the world and feed the natural

interests of childhood are not luxuries. They are as essential to mental and spiritual growth and change as right foods for the body, and some provision for their purchase should be made in every household budget.

A Grooming Hint

If your hair is dry and difficult to manage, a shampoo containing lanolin may help restore some of its life. Lanolin is the natural fat from wool. The label on the package or bottle will tell you whether it contains lanolin.

Small-Equipment Care

Buy a small recipe box and in it keep the manufacturers' directions for repairing and care of all equipment. Keep the guarantees in this box with the date you purchased the equipment written on the guarantee.

If You're Stout

Don't wear square or rounded necklines if you're on the stout side. Don't wear satin or puffy sleeves or ruffles.

Play for St. Pat's Day

We have another brand-new playlet for our readers entitled, "Peggy's St. Patrick's Day Party." It requires 8 young folks, one at the piano, all sing and harmonize. Included in the playlet are such good old Irish songs as "I'll Take You Home Again Kathleen," and "Come Back to Erin." It is suitable for a school program or any other community project. To obtain "Peggy's St. Patrick's Day Party," send 5 cents to the Farm Service Editor, Kansas Farmer, Topeka. Orders will be filled promptly.

Spring Sewing



9341—A pair of dresses for little sister. Make one for every day, the other for a summer sundress. Panty pattern included. Sizes 2 to 10. Size 6 with collar, 2½ yards; ¼ yard of contrast; sundress requires 2 yards of 35-inch material.

9010—Choose this dress for good fit and smart styling. Has the new sideline and 3 trim pleats. Sizes 10 to 16. Size 12 requires 3 yards and ¾ yard of contrasting 35-inch material.

4944—Do your Easter parading in this ensemble... flare skirt, pert bolero

and blouse with bow. Sizes 12 to 20. Size 16 requires 3¾ yards of 54-inch material. Blouse requires 1½ yards of 39-inch material.

9271—As you like it... slim, trim and easy-to-sew. Add colorful embroidery. Size 34 to 46. Size 36 requires 3¾ yards of 39-inch material. Transfer pattern included.

9254—Treat yourself to this fashionable frock for the new season. Just 2 main pattern pieces. Sizes 12 to 20. Size 16 requires 3¾ yards of 35-inch material.

Send 25 cents for each pattern to Fashion Editor, Kansas Farmer, Topeka.



PAYS TWO WAYS

You profit two ways when you inoculate legumes with NITRAGIN. You gain from better growth and you save soil fertility. Legumes inoculated with NITRAGIN take free nitrogen from the air to enrich the land... to provide higher yields of hay and pastures. Yet NITRAGIN costs only a few cents an acre. Get "the inoculant in the yellow can" from your seedsman.

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ROAD GEAR

FOR OLD MODEL JOHN DEERE A OR B
FOR FARMALL F-20, F-30 & REGULAR MODEL

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GEAR BOX**



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Behlen Gear Box really cuts tractor time. No more tiresome inching along when you can use speed. Helps do many more jobs in a day. Ideal for bucking hay, rotary hoes, long hauls, etc. Does not interfere with present gears. Bring your old tractor up-to-date with a New Behlen Gear Box.

Close-up of Behlen Gear Box on John Deere.



For Farmall H or M—Useful Middle Gear

Equip your H or M for all 'round work. New Behlen Gear Box adds handy in-between speed of 10 m.p.h. Not too fast, not too slow for many field jobs. If you prefer, you can have 7 m.p.h. gear box.

Write today for literature, where to buy. In writing, please indicate tractor you are interested in.

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PIONEER
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GREATER
PROFITS**

NATIONAL Vitrified SILOS
Everlasting TILE
Cheap to install. Trouble Free. Also Tile Stave Silos. Outside Reinforcing.
NO Blowing In Buy Now
Blowing Down Erect Early
Freezing Immediate Shipment
Rowell Roller Bearing Ensilage Cutters.
Write for prices. Special discounts now Good territory open for live agents.
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STATE SIZE WANTED KANSAS CITY 15, MO.

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ALL-VEGETABLE LAXATIVE
NATURE'S REMEDY (NR) TABLETS—A purely vegetable laxative to relieve constipation without the usual griping, sickening, perturbing sensations, and does not cause a rash. Try NR—you will see the difference. Uncoated or candy coated—their action is dependable, thorough, yet gentle as millions of NR's have proved. Get a 25c box and use as directed.
Nature's Remedy
NR TO-NIGHT TOMORROW ALRIGHT

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RELIEF FOR ACID INDIGESTION, GAS AND HEARTBURN
TUMS FOR THE TUMMY!

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To Have a Good Garden

By WILLIAM G. AMSTEIN
Kansas State College Extension Horticulturist

A GOOD farm vegetable garden is as valuable as any enterprise you can carry for the time and area devoted to it. In addition, better health results from time devoted to producing these protective crops. In no other way can as high-quality products be obtained for table use in season, for freezing, canning or other types of storage.

More farm gardens can be planned to include a wider variety of vegetables and, in addition, some of the better-adapted fruits, especially strawberries. Our main emphasis should be on well-adapted, nutritious crops. Too many gardens fail to include some of the better-adapted crops that can be grown to good advantage under a wide range of conditions.

Best time to plan the family garden is during the next few weeks before the garden season gets under way. Seed catalogs have made their appearance, so it is time to start building up our spring garden fever.

Choosing crops as well as varieties to plant is a never-ending puzzle to many gardeners. Experience is, no doubt, the best teacher in the selection of a variety list. It is certainly worthwhile to try some of the more promising new ones, but I would not use up very much time or space on unknown varieties. For every 15 varieties introduced, not more than one gains or deserves to have a place in our main planting. Every gardener wants varieties that show resistance to diseases and insects, as well as to climatic conditions such as drought. Many varieties now are available that offer one or more of these qualities. An outstanding example is the availability of "yellows" disease-resistant varieties or strains of cabbage.

How Long Rows Help

There is a decided advantage in long rows rather than short rows. Certain crops such as tomatoes, bush lima beans, green snap beans and peppers, do best in the home garden when they are protected from the hot afternoon sun, and the strong southwest winds from stubble fields. Many have found by planting these tender vegetables on the east or north side of sweet corn they have practically doubled their yield.

You do not need an elaborate garden plan, but it is worthwhile to lay out the crops by rows including planting sequence. True, it may not all work out as you plan, but your results will be better for a plan.

Many gardeners lose track of their rows where slow germinating seeds are involved. Some slow vegetables, such as beets, carrots, parsnips and onion seed, can be given a marker crop such as radish seed thru the row. This marks them and produces some early radishes, also.

Too many garden programs find many of the early crops planted too late. And

the late crops, in a few cases, planted too early, in which case they run into a spring frost and are often lost.

Some additional suggestions are (1) select a new location if necessary to avoid soil-borne diseases; (2) arrange for irrigation if possible; (3) order seed early; (4) use only adapted varieties of vegetables and where possible certified seed of disease-resistant strains; (5) provide an even supply of vegetables by succession planting; (6) use thrifty, disease-free, well-grown plants. Arrange for local production of cabbage and tomato plants for early planting; (7) buy spray and dust materials early; apply at right time, but don't waste; (8) practice crop rotation when possible.

For Good Results

BEST VARIETIES FOR KANSAS:
Beans: snap—Stringless Green Pod, Bountiful; wax—Pencil Pod Black Wax, Golden Wax; pole—Kentucky Wonder; lima—Henderson Bush Lima, Fordhook.

BEETS—Early Wonder, Crosby's Egyptian.

CABBAGE—"Yellows" Resistant Golden Acre, Marion Market; Chinese, Chihli.

CARROTS—Chantenay, Danvers Half Long.

CORN—Golden Cross Bantam, Ioana, Marcross.

LETTUCE—Grand Rapids, Black-Seeded Simpson (leaf); Great Lakes (head).

ONIONS—Yellow Globe Danvers, Riverside Sweet Spanish, Bermuda.

PARSNIPS—Hollow Crown.

PEAS—Little Marvel, Alaska.

POTATOES—(use certified seed)—Irish Cobbler, Red Warba.

SWEET POTATOES—Nancy Gold, Orange Little Stem, Red Bermuda (in west).

SPINACH—Bloomsdale Long Standing, Victoria.

SUMMER SPINACH—New Zealand.

SQUASH, Summer—Table Queen, Crook Neck; *Squash, Winter*—Delicious Hubbard.

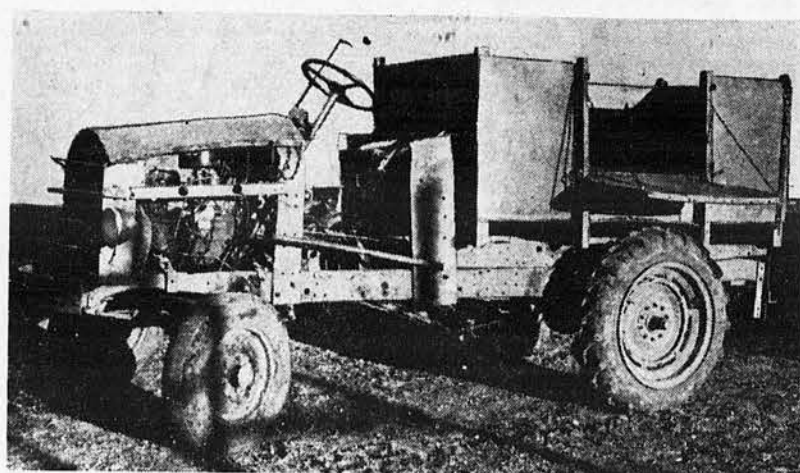
SWISS CHARD—Lucullus.

TOMATOES—(eastern counties) (wilt resistant)—Rutgers, Pritchard, Marglobe; (non-wilt resistant) Stokesdale, Valiant, Bonny Best; (central and western counties) Sioux, Firesteel, Danmark.

TURNIPS—Purple Top Globe.

PLANTING DATES: Radishes, spinach, peas, lettuce, turnips—as soon as ground can be worked after February 20. Onion sets, beets, carrots, potatoes, parsnips, cabbage plants—oats planting time, March 10 to 31. Tomato plants, pepper plants, beans (snap), okra—corn planting time, or frost-free date. Squash, sweet potatoes, beans—after soil is warm, week to 10 days after frost-free date.

Homemade Ensilage Truck



THIS homemade ensilage truck on the Oscar C. Latzke farm, Geary county, hasn't been stuck in mud yet. It has tractor-type tires on the rear wheels that keep it going under adverse conditions. The sidegate opening prevents spillage of ensilage and makes feeding easier. He used a truck differential in building the vehicle, 2 transmissions, one from an old truck and another from an old car. It is powered by a war-surplus Jeep engine. With good engine speeds the machine will go 2 miles an hour or 60 with the wide gear ratio.

To add to its uses, Mr. Latzke mounts a mower between the 2 transmissions. In that way he can get most any combinations of speeds he might need on sickle or forward movement.

Five Reasons for Collapse

IN HIS "Decline and Fall of the Roman Empire," Historian Gibbon summarized 5 reasons for collapse of the Roman Empire:

1. Rapid increase in divorce, undermining the dignity and sanctity of the home, the basis of society.
2. Higher and higher taxes; spending public money for "bread and circuses."
3. The mad craze for pleasure; sports every year becoming more exciting and brutal.
4. Building of gigantic armaments, when the real enemy was within—in the decadence of the Roman people.
5. The decay of religion.

Oh, of course, there is no parallel between the Roman Empire and the United States, because Rome had become an empire, a world power; had ceased to be a Republic. Aside from (1) the rapid increase in the divorce rate; (2) the higher and higher taxes to support "social reforms" and military operations; (3) the mad craze for pleasure; (4) the building of huge armaments; and (5) the decay in religion, there really are none of the 5 reasons given by Gibbon that apply to the United States today. Oh, of course not!—Clif Stratton.

Foreign Visitors Study Here

FROM Brazil, Ecuador, France, from 13 countries in all, representatives attended the National 4-H Club Congress in Chicago, November 28 to December 2. There were 17 altogether, most of whom spoke English haltingly, all of whom are in our country studying agriculture or home economics so they can apply the things they learn when they go back home.

From Venezuela came Josefina Blanco, who is going to organize home-making education with adults and young people on a plan similar to our rural Extension and 4-H Clubs. Ana Dias is from Guatemala, and plans to give Extension work to the people who live on the coffee farms there. He has been studying and working on farms in Iowa and will soon go to Arkansas, Wisconsin, West Virginia, New York and Washington, D. C.

Grace Llarena comes from Havana, Cuba, where she obtained a Ph.D. degree in education and social work. She arrived in Washington in August and will remain 9 more months. She has spent some months in Kansas at Kansas State College and working with home demonstration agents. She hopes to do both 4-H and women's Extension work when she returns to Cuba.

The young man, Oscar Churaman, from British Guiana, spoke perfect English with no hesitancy for his is a crown colony of Britain and all his people speak English. Already, he has worked 10 years in the department of agriculture in his home country, working only with men. When he returns, he plans to organize 4-H Clubs. He is a graduate of the Imperial College of Tropical Agriculture, at Trinidad, established for British subjects and which deals only with tropical crops. He was impressed most with the mechanical equipment in our country and with the excellent opportunities for young folks in education.

Joao Borges came to this country on private business originally, but now is making a tour of states where he is

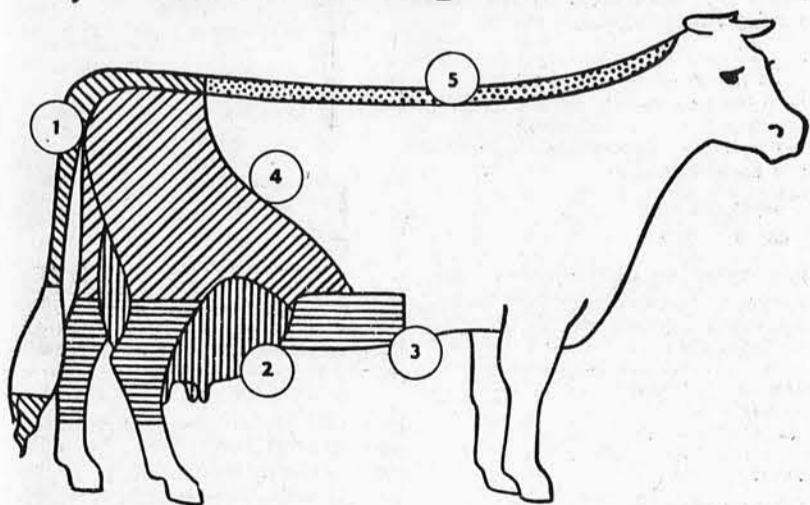
studying cattle feeding, primarily. A large ranch owner himself, and a raiser of Brahma cattle, he came to observe grain feeding. Cattle in Brazil live on grass the year around for there is no winter season, but he hopes to improve the breed of cattle by the use of grain. Corn will grow there, but there is no machinery for producing it in quantity. Labor is cheap, however, and the present rate is \$1 a day. Mr. Borges lives in Sao Paulo, a city of 2 million located in the state by the same name. His state produces more coffee than the rest of the world together. Meat also is an important product and American packing houses—Swifts, Armours and Wilsons—operate there as here.

Galo Grando is a university professor in Ecuador, the Central University of Quito, where he teaches agriculture. He has been visiting farmers and agricultural colleges during his trips around the United States. Mr. Grando will continue his work as a teacher and as agricultural inspector upon his return. Other Ecuadorians have preceded him here, and eventually by combining efforts they hope to establish an agricultural Extension service in their home country.

Chile has 2 representatives studying here, both are farm advisers in their home country, both officers of their government. Chile, it seems, has a fairly well advanced agricultural Extension service and very soon the government plans to begin work in home economics for women. Four-H Clubs already are growing in number. Jorge Bolton and Luis Diaz both mentioned the scarcity of farm machinery in their country. Chile has limited importations of machinery from our country because of their limited exports. A dollar shortage exists despite the large amounts of nitrates exported from Chile to the United States.

All foreign representatives are under the guidance of Dr. Fred Frutchey of the U. S. Extension Service, Washington, D. C.

Where to Clip the Cow



KEEPING these 5 areas of the dairy cow clipped regularly is the first step in production of low-sediment milk, and will result in greater profits. It takes only a few minutes to clip a dairy cow, but when this is done, it greatly reduces the time needed to get the cow ready for milking. Clipped cows, however, also must be brushed and the udders washed with warm water and chlorine solution just before milking.



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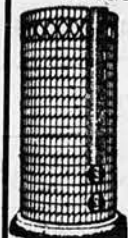
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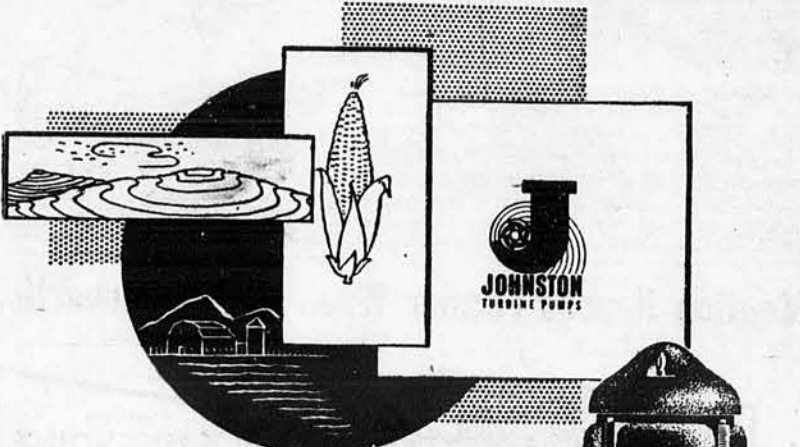
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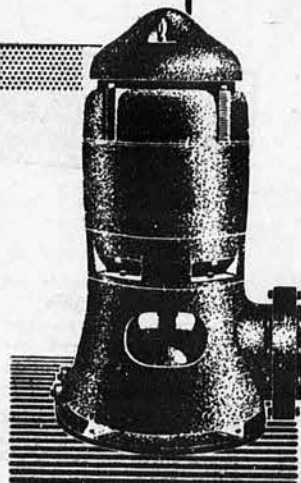
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Weather Round-up

BLIZZARDS and below-zero weather have hit the Great Plains and Western states a costly blow. Livestock losses are reported from:

KANSAS—45,000 to 50,000 head sheep and 10,000 head cattle in November 17, storm. Little loss since except for shrinkage.

NEBRASKA—25 to 75 per cent of cattle lost on some ranches.

DAKOTAS—No heavy loss over states; some individuals suffered heavy losses.

MONTANA—Less loss than anticipated despite one of worst winters.

COLORADO—Losses not expected to be very great.

WYOMING—Thousands of cattle and sheep have perished.

UTAH—Thousands of sheep frozen.

NEVADA—Several thousand cattle and sheep lost.

NEW MEXICO—Light losses to date.

ARIZONA—Losses expected to be heavy in northern counties.

ALL STATES—Weight losses on livestock will be heavy. There also will be a big reduction in calf and lamb crops.

U. S. AID—President Truman authorized use of defense and flood-control money for blizzard relief.

AIRLIFT (Haylift)—Into the farming picture came huge Army planes flying hay and other feed to stranded livestock. Examples: Last Sunday, 7 planes took off from Topeka Air Force Base with 25 tons of hay for cattle ranges of Western Nebraska; 600 tons of hay reported available at Topeka. Twenty-one Army planes took off last Saturday from Marshall Field, Junction City, carrying hay to Wyoming. Each plane reported carrying 60 bales of hay; 150 tons of hay available. Similar "Haylift" operations reported in other states. Some planes dropping food to humans cut off by storms.

AID—The 5th Army has moved into the Nebraska-Wyoming area to open roads. Airplanes cannot carry enough supplies for either cattle or humans. Fuel needs are critical.

HIGHWAYS—Biting winds whipped snow onto main highways in western

two thirds of Kansas; highways all over state made dangerous by ice and snow. Many farm roads needed bulldozers to open them for use.

DAMAGE—Southeast and Northwest counties have been hardest hit by storms so far. Northwest Kansas suffered greatest livestock losses, while Southeast Kansas suffered greatest property damage due to ice storms that wrecked telephone and power lines. These damages will run into millions of dollars.

WORST BLIZZARDS—One of the worst blizzards in U. S. history was in January, 1886, when almost the entire western half of the U. S. was paralyzed. Worst blizzards in Kansas prior to this winter were in February, 1912, and March, 1931.

MOST SNOW—On January 3, this year, Mount Baker, Wash., reported 188 inches of snow on the ground to top the U. S. On January 17, snow ranged in depth from 3 inches to 12 feet over all the plains and mountain states. On January 31, Houston, Tex., had 3 inches of snow which equalled all previous records.

KANSAS TEMPERATURES—North Central and Northwest Kansas counties have had to take a back seat this winter on low temperatures. Chautau, in Southeast Kansas, reported the lowest temperature of the year at 28 degrees below zero on January 31, 1949. Temperatures over the state have not been as low as in some previous years.

MOISTURE—The eastern third of Kansas had the wettest January in 60 years of weather records. In Kansas, 10 inches of snow usually equal an inch of moisture. In some mountain areas of the U. S. it takes up to 10 feet of snow to equal one inch of rain.

HIGHWAYS—Kansas highways have taken the worst beating in history. No estimate of damages can be made until after spring thaws. Northwest Kansas highways have been blocked the most, with Southwest Kansas running a close second. In some cases snow was packed so hard regular snow-moving equipment would not operate.

Your Taxes Will Be Higher

(Continued from Page 4)

Truman in his State of the Union message called the "Fair Deal." It is designed to produce the "Welfare State." The Great White Father in the White House is to take care of all the wants as well as the needs of his children—somewhat like the Great White Father in the past has taken care of the Indians; and just look how well the Indians have done and are doing.

More and Higher Taxes

Remember, Government has nothing to give the citizens except what it takes from the citizens. Not a thing else. Government has no other source of income. Government is not a producer of wealth. Government takes; Government spends.

Recognizing that the program for the Welfare State at home and the Uplift plans for abroad will call for still heavier Government expenditures, President Truman has asked the Congress to increase the Federal tax take some \$6,190,000,000 a year.

Income taxes (principally from corporations, and individual incomes perhaps of more than \$6,000 a year) are to provide 4 billion of the more than 6-billion increase requested.

Pay rolls (thru withholding taxes) are to be taxed an additional \$2,109,000,000 a year. This is to be accomplished by taking 2.25 per cent from wage and salaried incomes up to \$4,800 (present payroll tax is one per cent on first \$3,000); and to increase employers share from one per cent up to 2.25 per cent. That makes 4.5 per cent. In addition, employers will contribute an additional 1.5 per cent payroll tax for unemployment insurance, making total payroll taxes 6 per cent. When the "free" medical service comes, there will be further increases in the payroll tax take.

Big Raise for President

In official circles, and presumably over the country, there was a feeling that the Nation was not doing right by President Truman in the matter of "take home" pay for the President. The \$75,000 salary shrunk to \$48,000

after Federal taxes were deducted; the little old \$40,000 expense allowance, what with high wages and high prices and all, was gone with the wind before the end of the year.

It was felt that the President of the United States is entitled to at least \$100,000 a year in "take home" pay. But that would require close to \$250,000 a year salary, in addition to the \$40,000 expense account already allowed. (Upkeep on the White House is an additional \$260,400 a year.)

So the Congress compromised on \$100,000 a year salary, plus an increase of \$50,000 tax-free expense allowance (making the tax-free expense allowance \$90,000 a year). It is figured this will give the President \$110,000 a year "take home" pay for the biggest job in the world.

The bill had to be passed before inauguration, January 20, because the Constitution provides that the President's salary cannot be increased or diminished during his 4-year term of office.

By coincidence, on the same day the Senate Committee reported the pay increase favorably. President Truman told his press conference he believed the income tax increases ought to begin at \$6,000 a year, on farm income, too.

More "Tax-Free" Pay

The President is not the only one to get a tax-free expense allowance to avoid having to pay income tax. The Vice-President (Barkley) now gets \$30,000 a year, plus \$10,000 tax-free expense money. Ditto the Speaker of the House (Rayburn). That is equivalent to \$50,000 a year in private life. Members of Congress get \$12,500 a year salary, plus \$2,500 tax-free expense allowance.

Naturally, Congress cannot extend the tax-free expense allowance to all taxpayers—the Government needs the money. It gets back to what the late Senator "Jim" Reed of Missouri explained to the Senate one day: "Pass a special privilege to everyone, and the special privilege has no value for anyone." (Continued on Page 29)

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You Pay the Taxes

Federal budget calls for collection of 41 billion dollars in taxes for fiscal year 1950, which starts next July 1, plus \$3,300,000,000 payroll taxes, or a total tax take of \$44,300,000,000. State and local tax collections, which are rising sharply, will take close to 15 billion dollars more, or a total of some \$60,000,000,000 a year for taxes.

About 43 cents of each Federal tax dollar collected comes from individual income taxes. Corporations pay 28 cents; excise taxes bring in 19 cents of each Federal tax dollar; customs and miscellaneous, 10 cents. Individuals pay the excise taxes directly; as consumers they also pay the corporation taxes, if the corporations sell their goods and services at profits which allow them to pay income taxes.

How Money Is to Be Spent

On the assumption that Federal expenditures for the next (1950) fiscal year will be 42 billion dollars, it will be expended as follows:

Past and future wars (and carrying on the present cold war), take 76 cents of each Federal tax dollar, subdivided this way: Military establishment, \$14,300,000,000; foreign aid, \$6,700,000,000; war veterans, \$5,500,000,000; interest on war debts, \$5,500,000,000, for a total of 32 billion dollars.

The other 24 cents of the tax dollar go for all other Government outlays, running expenses, pensions, development of natural resources, transportation subsidies, agriculture, housing, education, for a total of some 10 billion dollars.

Farm Legislation Waits

It probably will be mid-March before Congressional sentiment will begin to "jell" on the social welfare programs demanded by President Roosevelt, and also on the global crusade portrayed by President Truman in his inaugural address. Farm legislation later. Meanwhile, as the United States News and World Report magazine sums it up, there's to be a free and easy attitude toward money and its use in the years ahead, "Mr. Truman's spending plans strongly suggest that."

Of course, despite the many election mandates, it is not certain that President Truman will get all he asks from Congress. But Washington thinks he will get most of it.

What About Ferrets?

Dear Reader: I have your card asking for information on ferrets. The ordinary ferret is a semidomestic type of weasel that has a great reputation for killing rats. These animals are highly effective at times, but my opinion is they are greatly overrated. They must be trained and used by an experienced handler to give good results. They have been known to "go wild" and destroy poultry and other animals.

If you are experienced in using ferrets and the animals are experienced, they will destroy large numbers of rats. They are by no means a final solution to the rat problem.

Cotton rats have been reported as spreading over the state quite rapidly in the last few years, so now much of the state is populated with these small rodents. Some of the men at the museum at Kansas University can send you reprints or otherwise give you information on this animal.

You ask about damage to farm crops by rats. It is estimated there are about the same number of rats in Kansas as there are human beings. So with the amount of food wasted in addition to that actually eaten, this amounts to a considerable toll. It must be a few million dollars every year.—E. H. Herrick, Prof. of Zoology, K. S. C.

4-H Scholarships

Eight educational scholarships are among awards to be given this year to winners in the National 4-H Poultry Achievement Program. The scholarships will be awarded by Dearborn Motors Corp., Detroit.

One major objective of the 1949 program is to find the place of poultry in the economy of the general farm. Another, to save grain by following efficient feeding methods.

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

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Assures—
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You can invest your money wisely by applying the same common sense that you do in farming. . . diversification and the best business practices.

Current returns up to 5½% are available from soundly managed investment companies which operate under federal regulation.

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Please Send Complete Information on Your Monthly Income Investment Plan

Use Coupon Today

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Kansas Flying Farmers Royally Received in Mexico

By CHARLES HOWES



A sunflower emblem pinned to the lapel of President Aleman's coat makes his acceptance official as an honorary member of the Kansas Flying Farmers Club. Pinning the emblem to his coat is Ailiff Neel, Windom, president of the Kansas club. Also accepted as an honorary member during the January vacation to Mexico was the secretary of agriculture, Sr. Nazario Ortiz Garza. Both men were presented with hand-lettered honorary membership certificates.

KANSAS Flying Farmers, 143-strong, had an experience in U. S. "good-neighbor" policy, and received a liberal education in Mexican hospitality during their 2-week, mid-January jaunt south of the border. They have returned to their blizzard-swept farms carrying Mexican newspapers with the flying farmer adventures emblazoned across the front pages, and with their minds full of new ideas about the Mexican people.

Climax of the trip was the visit with President Miguel Aleman. "Big Mike," as he would be known in this state, lived up to his reputation of friendliness, and gave the visitors a big half-hour. He shook hands with every member of the group, grinned heartily when it was suggested that he whip up a batch of biscuits, acknowledged the message from Governor Frank Carlson with, "I like your state very much." He visited Kansas City a short time ago as the guest of President Truman.

The Kansas delegation visited the distinguished Mexican at Los Pinos, his official residence. As members pressed into the room, Ailiff Neel, president of the Kansas Flying Farmers, pinned a sunflower and flying wings to the President's lapel. Then, as he presented a framed certificate, Neel announced that the president now is a member of this biggest of our nation's state flying clubs.

Kansas Flour to President

Following this, Bill Janssen presented the flour, encased in a satin sack, and the president then was given a pair of brass book ends, cast in the shape of a Jayhawk, and a note from the Kansas Governor, whom he met during the Kansas City visit. The book ends were donated by the Kansas Industrial Development Commission. All of the items were flown to Mexico.

The first good impression for the Kansans came with their arrival in Monterrey. At the airport was the state band of Nuevo Leon. The group played Mexican and U. S. music intermixed for 2 hours while the Kansans underwent customs and immigration proceedings. The dispatch with which the authorities handled the paper work and the organization of the program was the first item on which the north-erners commented.

Then, as the taxis took off from the white, Spanish-style terminal, a police escort sounded siren signals for the 12-mile ride into town. The route was lined by Monterreans who had heard about the flying-folks from Kansas. Thruout their stay in Monterrey, the visitors were the toast of everyone and were entertained in royal style. This included a banquet on the final evening in the swank Casino club.

Twelve of the 67 planes which landed at Monterrey decided to make the flight to Mexico City. Others took a

different route by bus thru the tropical regions of Mexico.

We Kansans failed to see much in the way of agriculture around Monterrey. This city is mostly industrial and imports most of what it eats. But farther south, with more moisture, the regular pattern of well-planned farms and orderly production caused many to comment that "this looks much like our home state."

A lot of hemp is produced near Mexico City, from a plant called Ixtle, which is a lot like a century plant in appearance and is actually a sort of cactus. The Mexican farmers plant this in single rows, far apart, leaving room for other crops to grow in between during the rainy season. The planting also serves to keep the soil from washing, since much of the cultivated acreage is on a slope of 30 degrees or greater.

Far Ahead of Us

Indeed, it appears the Mexicans were using this method of soil saving long before Kansans thought of it. Their methods of terracing and control are ancient, stemming back to the earliest times in this nation older than ours. Their dairy farms are spotlessly clean. They use hand labor in place of machines. Many of the Kansas farmers expressed amazement at the scrupulous methods of cleanliness, including the sweeping of cobblestone paving around the barns and buildings with dampened brooms to keep down the dust.

The Kansans failed to see the Secretary of Agriculture during their stay. Because the weather in the United States delayed them for 2 days, the original schedule had to be juggled considerably and the agricultural official was unable to change his many appointments. Nevertheless, the fliers were impressed more than just a little by the farming, despite the use of oxen and wooden plows in many sections, hand planting and harvesting, which seem to prevail.

Mass production methods of the north have not taken hold in Mexico.

One Kansan spotted a 12-foot disk sitting out in the open, a few steel plows could be counted, but the Mexicans say, "We're getting along all right why change?" So they plow and sow and harvest thousands of farmed acres with human labor.

Kansas farmers began their Mexican journey at Laredo on January 16. They left Laredo to return home on January 27, convinced that had it not been for an airplane they never would have visited the country.

Other articles on the Flying Farmers trip will appear in early issues of Kansas Farmer.

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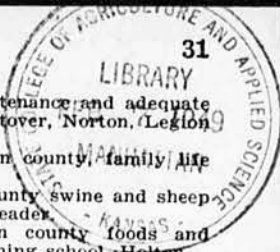
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THE EASIEST PULLING PLOWS EVER BUILT!
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FEED *Fresh* ROLLED GRAIN

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ROLLS - CRACKS - CRUSHES
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Marketing Viewpoint

By H. M. Riley, Livestock; John H. McCoy, Feed Grains; Joe W. Koudele, Poultry; Paul L. Kelley, Dairy Products.

What is the situation in the fats and oils market and how will this affect cream prices?—E. G. B.

Fats and oils have exhibited probably the sharpest price declines of any group of commodities during the last few weeks. For instance, cottonseed oil, which is used to make butter substitutes, now brings 14 cents a pound as compared with its recent peak of 40 cents. Lower prices for fats and oils probably will bring lower prices for butter substitutes. This in turn probably will cause consumers to shift from butter, if prices of butter do not follow the general trend of fats and oils prices. This would seem to indicate that we can expect lower prices for cream in the next few months.

I have some farm-stored wheat which is not under Government loan. What are the prospects for wheat prices in the future?—A. R. D.

An answer to that question must be based on prevailing conditions and probable future conditions which, of course, are subject to change. However, on the basis of the best available information, prices in the immediate future are expected to be relatively weak with a possibility of strengthening prices in the spring.

A recent report indicates that U. S. wheat stocks on January 1 were 857 million bushels. This is 62 millions more than a year earlier and the third largest on record for that date. Stocks of that size are ample for domestic needs, anticipated exports and carryover. A generally downward trend in wheat prices has prevailed since early December, reflecting the large U. S. supplies, improved world food conditions and the relatively good condition of a record acreage of winter wheat in the U. S. Progress of the new wheat crop will be an important factor in future price trends.

Some sources, however, are expressing concern over the possibility of a tight situation in free market supplies of wheat in the spring, due to the large quantity of wheat under loan which may not be available for marketing at that time.

I may raise some broilers this year. What is the outlook for poultry prices in general?—D. H.

During 1949, poultry meat prices are expected to average somewhat lower than in 1948. Assuming a continued strong consumer demand, prices during the first few months of 1949 are likely to be close to 1948 levels. An increased volume of marketings in the last quarter of 1949 probably will depress prices below levels in the corresponding period of 1948. A decline in demand would tend to lower poultry meat prices further relative to 1948 levels.

I would like to know what the price for stocker and feeder cattle will do by the time grass season opens. Would you consider it safe to buy cattle and hay now and feed until then?—E. S.

Normally stocker and feeder prices advance as the grass season approaches. At present the declining fat cattle market has a bearish influence on stocker and feeder prices. Further price weakness is expected for fat cattle so the seasonal advance on stockers and feeder prices is likely to be small. The greater part of any advance would be expected about the time grass season starts.

It would be all right to buy cattle before March 1 if you can buy hay locally at reasonable prices. Otherwise the cost of labor and hay might offset any gain due to rising prices for stocker and feeders as the grass season approaches.

Coming Events

February 5—Norton county 4-H county council, Norton, Legion hall, 1:30 p. m.

February 7—Johnson county clothing school, Christine Wiggins, specialist.

February 7—Johnson county 4-H council meeting, Olathe, Legion building.

February 7—Pottawatomie county beef and crops school, Westmoreland.

February 8—Lyon county crops, livestock and insect school, Emporia.

February 8—Shawnee county farmers day, C. L. King, Lot Taylor and L. E. Willoughby, in charge. It will be a plant disease, livestock and crop production meeting.

February 9—Chautauqua county horticulture meeting, Jerry Amstein, "Garden Culture and Care."

February 9—Johnson county rural life meeting, Olathe, Legion building.

February 9—Mitchell county rural life meeting, Velma McGaugh, state leader.

February 9-10—Woodson county Farm and Home improvement school, Vera Ellithorpe, Harold Ramsour, Leo T. Wendling, leaders, Yates Center.

February 10—Finney county sheep and swine school, C. G. Elling, leader, Garden City.

February 11—Ottawa county balanced farming school, Minneapolis.

February 11—Labette county soil conservation district co-operators, annual meeting.

February 11—Norton county rural life meeting with Velma McGaugh, Norton, 7:30 p. m.

February 12—Osborne county 4-H officers training school, Osborne.

February 14-15—McPherson county farmers institute, garden-poultry meeting.

February 14-15—Osborne county balanced farming and family living school, Osborne.

February 15—Johnson county rural life meeting, Velma McGaugh, specialist.

February 16—Chautauqua county sheep and swine school, Carl Selby, specialist.

February 16—Lane county stag meeting for Farm Bureau men. County crops, livestock and crop disease control meeting.

February 16-17—Barton county farm machinery and home improvement school, Hoisington.

February 17—Woodson county 4-H tractor maintenance school, Walter Selby, leader, Yates Center.

February 17—Jewell county 4-H leaders meeting, Glen Busset, leader.

February 17-18—Harvey county agricultural days, Newton.

February 18—Norton county tractor maintenance clinic, Norton, Legion hall, 10 a. m. to 3:30 p. m.

February 19—Lane county 4-H model meeting contest.

February 21—McPherson county garden-poultry meeting.

February 22—Harvey county orchard and poultry day, Newton.

February 22—Pottawatomie county crops meeting, Onaga.

February 22—Labette county-wide engineering school.

February 23—Woodson county farm management school, John Coolidge, leader.

February 23—Morton county 4-H leaders training school, John Hanna, leader.

February 23—Jewell county, district crop improvement and crop school, Concordia, L. E. Willoughby in charge.

February 23-24—Harper county farmers' institute.

February 24—Barton county crop improvement and certification school, Great Bend.

February 24—Allen county farm management meeting, John Coolidge, leader.

February 25—Shawnee county second stag night, Garfield Park shelterhouse, 7 p. m. Program, The Chicken of Tomorrow. Phone 8682 for reservations.

February 25—Lane county poultry and garden meeting.

February 26—Johnson county 4-H food leaders training school, Elizabeth Randle, specialist.

February 26—Norton county 4-H junior leaders meeting with Glen Bussett, Norton, legion hall, 7:30 p. m.

February 28—Jackson county district administrative conference, Holton.

February 28—Jewell county—Women's unit leaders school, Miss Johnson, leader.

February 28-March 1—Harvey county balanced farming meeting, Newton.

March 1—Norton county, electrical appli-

NEW FREE BOOK TELLS

What every Kansas farmer wants to know about FLAX

Coming Events

February 5—Norton county 4-H county council, Norton, Legion hall, 1:30 p. m.

February 7—Johnson county clothing school, Christine Wiggins, specialist.

February 7—Johnson county 4-H council meeting, Olathe, Legion building.

February 7—Pottawatomie county beef and crops school, Westmoreland.

New Fair Group Head

Delegates to the Kansas Fairs Association meeting, at Topeka, January 12, elected Dr. V. L. Partridge, of Coffeyville, as president for 1949. He succeeds B. G. Wooddell, of Winfield.

Guy Webster, of Newton, was named vice-president. New directors elected were John Keas, Effingham; Floyd Sanders, Cheney, and Emery Fager, Overbrook.

GOOD FARMING PAYS

New Patent Greatly Improves Work

WESTERN SPROCKET PACKER & MULCHER

It pulverizes mulches and firms soil deep as plowed BETTER THAN EVER BEFORE. Saves time, labor and horse-power preparing ideal seedbed. Leaves surface mulch without grooves, which greatly helps to prevent washing. This seedbed conserves moisture, saves seed because more of the seeds grow; and helps to increase yields of all crops. Great also for rolling in clover and grass seed and breaking crust on winter wheat in spring. Find out why it does the work so much better, easier and faster. Be sure you get the genuine WESTERN. Write for Catalog and freight-paid prices direct to you.

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Provides an independent and continuous operation of the power take-off shaft on A, B and G model John Deere tractors. With it, you can run your power take-off continuously, regardless of whether the regular clutch of the tractor is engaged or not. It operates without interruption any implement driven by your power take-off shaft.

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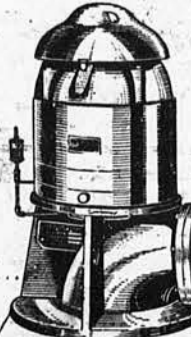
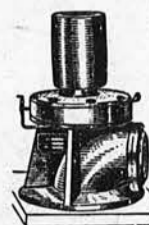
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CONCORDIA AND WICHITA, KANSAS Dept. 102



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WESTERN TURBINE PUMPS

Furnished with either Direct Connected Electric Motor, Flat or V Belt Drive, or Right Angle Gear Head Drive.

Write today for free Catalog and full particulars.

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Dept. 121
Hastings, Nebraska

Kansas Well Represented At Denver Livestock Show

By MIKE WILSON

THE 43rd annual National Western Stock Show, in Denver, January 14 to 22, was held under terrible weather conditions, but quality of breeding herds on display was above all previous years. There also was the largest Hereford show on record at Denver. Numbers as well as quality of Aberdeen Angus and Shorthorn cattle were above normal. The individual fat steer show was not as large as in previous years, but the quality and finish of the steers were much above those displayed in years past.

In the yards were many carlot pens of Hereford bulls. Aberdeen Angus classes for pens of 5 and 3 bulls were filled to capacity with quality bulls, many of them from Kansas herds.

In the annual Hereford breeding cattle auction, 142 bulls made an average of \$2,266 a head and 47 females averaged \$786 a head. The 189 head grossed \$358,635 or a general average of \$1,898 to the head. The high-selling bull was M. W. Prince Larry 37th, consigned by Milky Way Hereford Ranch, of Phoenix, Ariz., and purchased by Bortz Brothers, of Uniontown, Pa., for \$36,750. Exactly \$2,000 was the top price paid for females by Switzer Field, of Gunnison, Col., for Lady Skylark 1st, consigned by Trail's End Ranch, of Hillside, Col.

Kansans at the Sales

Kansas breeders making sales or purchases in the Hereford sale are as follows: Jansious Brothers, Prairie View, paid \$800 for HC Double Mixer to Harold L. Chapman, of Springerville, Ariz. CK Ranch, Brookville, paid J. F. Miller, Haden, Col., \$4,100 for Dandy Domino 62nd. Exactly \$1,025 was the successful bid of Neal McVay, Sterling, for D. Royal Domino 28th., from W. B. Barrett, Comanche, Tex. BB Super Domino 38th, consigned by Beauprez Brothers, Broomfield, Col., was sold to Doyle Heft, Coldwater, for \$650. Mr. Heft also paid \$700 to Cox & McInnis, Byrds, Tex., for Clee Domino. Donald Honey, Englewood, purchased AEF Publican Domino 4th, from A. E. Fogle & Son, Tuscola, Tex., at \$580. Wayne Ward, Ellandale, paid \$700 for JJ Larry Domino 5th, to Jack Haley, Escondido, Cal.

C. C. Mathews, Kinsley, sold 2 bulls thru the auction sale at \$730 and \$700, the latter to George Overton, Jetmore. Thomas Worth, Park, consigned CK Cascade 14th, to the sale. He was bought by Vernon Linn, Kimball, Neb., for \$1,000. Thorp Hereford Farm, Britton, S. D., paid Woody Hereford Ranch, Barnard, \$1,000 for Larry Domino 14th. Foster Farms, Rexford, received \$1,500 for FF Alpine Domino 3rd, from Earl VonForell, Wheatland, Wyo. This is probably the largest number of bulls ever purchased at the Denver sale by Kansas buyers.

What Angus Did

In the Aberdeen-Angus sale of breeding cattle, 54 bulls averaged \$813 and 40 females \$471. Exactly \$1,500 was paid for top female by R. T. & Mel Davis, of Wheatridge, Col., for a 2-year-old heifer from the East Woodlawn consignment, of Creston, Ill. A top of \$3,500 was made on bulls, paid by Colorado Angus Ranch, of Cheyenne, Wyo., for the reserve champion of the show. This bull was shown and consigned by Rancheria Angus Ranch, Anderson, Cal. James B. Hollinger, Angus breeder, of Chapman, showed the reserve junior champion bull which later sold at auc-

tion for \$2,250 to T. A. Smart & Son, Atwood, Col.

In the Aberdeen Angus show of pens of 3 and 5 bulls, Simons Angus Farm, of Madison, showed the first prize and champion pen of 3 bulls. All were sired by their herd sire, Eileen of Maize. This group of 5 bulls topped the sale at \$635 a head, going to C. E. & Ida Tupps, of Aurora, Col. Fifty-nine bulls selling in this range bull sale made a general average of \$426 a head.

The champion fat steer of the show was a Hereford, owned by Mitchell Munis, Gunnison, Col. He sold for \$2.75 a pound, this being 45 cents a pound above the price for last year's champion.

College Steer Wins

The champion Angus steer and reserve grand champion of the show was won by Kansas State College, of Manhattan. This steer auctioned for 75 cents a pound, the same price that was received for the 1948 reserve champion of this show.

Karl Hoffman, of Ida Grove, Ia., again won the grand champion carload title on his load of fat Hereford yearling steers. They sold in the auction sale of fat cattle for \$48 a hundred pounds. This was \$2 below the price of Mr. Hoffman's champion load at the 1948 show.

Josef Winkler, of Castle Rock, Col., won the grand championship on his load of Shorthorn feeder calves. This load of calves also made a world's record price of \$77 a hundred. They were purchased by Fulton Foxley Commission Company, of Denver, for Boys Town, of Omaha, Neb.

The grand champion carload of fat hogs shown by James Henry, of Longmont, Col., sold for \$23 a hundred.

Ray Johnston, of Greeley, Col., exhibited the grand champion load of fat lambs, that sold in the auction for \$27 a hundred.

Four Kansas breeding establishments captured championships in this year's show. James B. Hollinger, Chapman, showed reserve junior champion Angus bull; Triple S. Ranch, Rosalia, won reserve junior champion Angus female. Kansas State College exhibited reserve champion Hereford steer and reserve champion steer over all breeds on their junior yearling Angus steer, and CK Ranch, Brookville, won reserve champion on their carload of range bulls, which were senior calves. The calves sold to Wachter Ranch, Bismarck, N. D., for \$1,000 a head.

High placings made by Kansas exhibitors are as follows:

HEREFORD BREEDING CATTLE: CK Ranch, Brookville, 1st place senior heifer calf; Walnut Hill Farm, Great Bend, 1st place junior yearling bull; Woody Hereford Ranch, Barnard, 5th place junior bull calf; C. C. Mathews, Kinsley, 5th place junior bull calf.

ABERDEEN-ANGUS BREEDING CATTLE: James B. Hollinger, Chapman, 1st prize junior yearling bull and reserve junior champion bull; Triple S. Ranch, Rosalia, 1st prize summer junior bull calves, 1st place senior yearling heifer, 3rd place junior yearling heifer, 1st place senior heifer calf, reserve junior champion female; Simon Angus Farm, Madison, 4th place junior bull calf, 4th place junior heifer calf.

CARLOAD OF HEREFORD BREEDING BULLS: Carload 12 yearlings—2nd place, CK Ranch, Brookville; reserve champion, CK Ranch, Brookville. Carload 15 senior bull calves—1st place, CK Ranch, Brookville; 3rd place, J. A. Schoen & Sons, Lenora; 4th place, L. L. Jones & Son, Garden City. Other Kansas exhibitors in the carlot breeding bull department were: Dan Casement, Manhattan; Frank Walsten & Son, Hutchinson; John Hays, Hutchinson; Don Schaffer, Hutchinson; A. R. Schlickau & Sons, Haven; R. E. Frisby, Beardley; Jim & Thad Douthit, St. Francis; John Keller & Son, St. Francis; and H. G. Reuber, Atwood.

ABERDEEN-ANGUS BREEDING BULLS: Pens of 5 and 3, Simon Angus Farm, 1st place and champion pen of 3 bulls; James B. Hollinger, Chapman, 3rd place on pen of three 2-year-old bulls.

OPEN CLASS FAT CATTLE: Kansas State College, Manhattan, champion Angus steer, reserve grand champion steer, reserve champion Hereford steer, 1st place Hereford lightweight steer, 5th and 6th place heavy-weight steer, 1st place group of 3 steers, 1st place mediumweight Angus steer; Phillip Sherlock, St. Francis, 2nd place Shorthorn lightweight steer.

JUNIOR FAT CATTLE: Raymond Otto, Milford, 3rd place lightweight Aberdeen-Angus steer; Jean Brown, St. Francis, 4th place lightweight Aberdeen-Angus steer; Raymond Otto, Milford, 4th place medium-

weight Aberdeen-Angus steer; Wayne E. Cook, Hope, 4th place medium-heavy Aberdeen-Angus steer; Phillip Sherlock, St. Francis, 1st place lightweight Shorthorn steer; Phillip Sherlock, 5th place heavy-weight Shorthorn steer.

CATCH-IT-CONTEST STEERS: Bill Ericson, Marquette, 1st place.

BEEF PRODUCTION CLASS: Bill Ericson, Marquette, 1st place.

CARLOAD FEEDER CATTLE: Herefords under one year old, Dan D. Casement, Manhattan, 2nd place.

JUNIOR BEEF SHOWMANSHIP CONTEST: Phillip Sherlock, St. Francis, 4th place on Shorthorn.

Angus Sale Off

The American Aberdeen-Angus Breeders' Association has canceled its National Building Fund Memorial Sale. The sale was scheduled for February 10, 11 and 12, at Chicago.

Breeders who have consigned animals to the memorial building sale probably will sell their animals at local sales and forward the money, states Frank Richards, secretary of the association.

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Year	All Hy-Lines	All Leghorns	All N. Hamp.
1944-45	206.2	123.2	131.2
1945-46	234.2	188.5	165.7
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Average	221.5	167.6	150.1

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Make 50%, Selling Seeds. Order twenty, 5c packets today. Pay when sold. Daniel Seed Farms, Grantsburg, Wis.
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Dress Goods—Finest printed percales—latest patterns—fast colors—only 38c square yard for 10 yards or more—45c for less. State colors, general patterns and lengths desired. Shipped C.O.D. or send money order plus postage. 10-yard shipping weight, 3 lbs. Satisfaction guaranteed or money promptly refunded. Samples on request. Gary Mills, Dept. KF, Claryville, New York.
Make Leather Items as gifts or to sell. Expense unnecessary. Belts, gloves, purses, wool-skin toys, 100 other ideas. Largest supply in America. Catalog 10. Larson, Dept. FF, 820 S. Tripp, Chicago 24.
MISCELLANEOUS
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.
Chair Cane—Selected Fine Fine \$3.00. Fine \$3.25. Medium \$3.75. Common \$4.25. Per hank. Postpaid. Gocart Shop, 15 Sears Court, New Bedford, Mass.
Fish Bait—Over 20 recipes and suggestions only 10c. Many favorable reports received. K. F. Fisherman, 1715 Lane, Topeka, Kan.
Quality Baled Alfalfa for sale. Hayden Bros., Clements, Kan.

KANSAS CERTIFIED SEED
THIS BUSINESS OF BUYING SEED
Buying seed is an important matter. For dependable results and genuine satisfaction... always buy seed Certified by the Kansas Crop Improvement Assn. It's for your protection and benefit! It's Certified for Dependability and Kansas Grown for Adaptability.

HYBRID CORN	OATS
BARLEY	ALFALFA
SORGHUMS	CLOVER
BROMEGRASS	SOYBEANS
FLAX	LESPEDeza

NATIVE GRASSES
THE KANSAS CROP IMPROVEMENT ASSN.
Manhattan, Kansas

Seed Corn
Kansas Certified US-13 Yellow
An outstanding hybrid, 25 years of seed corn experience.
Buy direct from grower and save.
HENRY BUNCK, Everest, Kan.

CERTIFIED SEEDS
Westland Milo and Norkan Cane
F. E. HARNDON, Liberal, Kan.

Oats—Certified—Oats
Clinton \$1.75 — Cherokee \$2.25
Sorgo Atlas and Axtell Certified \$7.00 per lb.
Strahm's Seed Store, Sabetha, Kan.

Certified Westland Milo
\$4.00 in 100 bag lots, \$5.00 retail.
MELVIN BRYANT, Rozel, Kan.
Phone 2 or 76

CERTIFIED KANSAS HYBRIDS
K2234 White, K1689 Yellow
These are top yielding hybrids. Consult your County Agent's variety test.
Also Certified Buffalo Alfalfa.
HERBERT NILES, Lebo, Kansas
Kansas Certified Hybrid Seed Corn—K2234, K2275, white \$16.00 bushel for flats, K1784, K1585 yellow, \$9.00 bushel for flats. Spergon DDT treated. Freight prepaid. Descriptive folder on request. Harris Houston, Potwin, Kan.
Kansas Certified Hybrids. The best for Kansas conditions. Several new varieties that are very good for mechanical pickers with less ear dropping and shelling in the field. H. F. Roepke, Rt. 3, Manhattan, Kan.
Certified U. S. 13, K1784, Atlas Sorgo, K4 popcorn. Harold Staadt Seed Farm, Ottawa, Kan.
Certified Madrid Clover and Atlas Sorgo for sale now. Rolland Klaassen, Whitewater, Kan.

SEEDS
Hardy Recleaned Tested Kansas Alfalfa Seed \$23.70
Certified Buffalo Alfalfa \$57.00. Sweet Clover \$10.80. Kansas Brome \$5.60, all per bushel track Concordia, bags free. Carries return guarantee.
Samples, folder, prices other seeds on request.
JACK BOWMAN, Box 615, Concordia, Kan.
Cherokee Seed Oats—True to name seed. Write for prices, bag, truck load or carlot. Harry Bullock, Oskaloosa, Kan., or United Hybrid Growers Association, Shenandoah, Ia.
Hybrid Watermelon Seed. Grow miraculous melons easily. 700 seeds \$1.00. Free catalog. Airline Farm, Rossville, Kan.
For Sale: Hardest and best yielding Alfalfa and Pasture Grass Seed. Bober's Seeds, Box 751, Rapid City, S. D.
For Sale—Sand Love Grass \$2.00 per pound. A. Lewis Oswald Rotherwood—Land of Oz, Hutchinson, Kan.
Sericea Lespedeza cleaned and scarified, 30c lb. prepaid. Orris Van Meter, Mildred, Kan.

SERVICES OFFERED
SILOS REPLASTERED
Stock Tanks and Reservoirs Built and Repaired Lightning Protection Service
BE-SO COMPANY, 207 West 51st St., Kansas City 2, Mo.

FARMS—KANSAS
160 Acres—1 mile town and high school, on main highway, level upland, 100 plowed, 60 good pasture, 50 in wheat goes, good buildings, electricity, \$14,000. T. B. Godsey, Emporia, Kan.
For Sale—Well improved 160 acres. Write for particulars. Lars Peterson, Owner. Osage City, Kan.

FARMS—MISCELLANEOUS
Includes 31 Head Stock... 159-acre Eastern Kansas farm watered by stream, well, and pond, immediately available at \$10,100 including 11 milk cows, 9 heifers, 3 steers, registered bull, 2 teams, sow, 2 shoats, 85 poultry, equipment! Gravel RFD road, 5 miles town; 80 tillable, balance good pasture, home orchard; nice 5-room house, electricity signed for, 30x40 barn, good set poultry buildings, milk house, garage; aged disabled owner's stand out at \$10,100 complete. Terms. Featured in big free Spring catalog many states. Just off press! United Farm Agency, 428-KF BMA Bldg., Kansas City 8, Mo.
Strout's Farm Catalog, Fall-Winter issue mailed free! Over 2,800 genuine bargains Coast to Coast. Tell us what you want. Where? Price? Terms? Save thru Strout Realty, 20 West 9th St., Kansas City 6, Mo.
1440 Acres Washington county, Colorado. Fair improvements. 320 acres under cultivation. Good stock-grain farm. Price \$36,000. Terms. Louis Miller, Frankfort, Ind.

Hybrid Seed Corn
You can make more money by planting our High Germinating, accurately graded and Spergon DDT treated Hybrid Seed Corn this year. It is adapted to the soil and climatic conditions in Kansas.
Certified varieties U. S. 13 & K1784 Uncertified varieties C92 & UTZ 100
Priced right. Wholesale and retail.
L. L. UTZ, Highland, Kansas

Home Grown Certified Kansas Hybrid Seed Corn
K1784 — K1585
All top quality. Detasseling, processing, grading and sealing all properly supervised. State inspected and approved. All seeds treated with Spergon.
Prices K1784 and K1585 flats \$7.00, rounds \$6.00. Certified Blackhull Kafir \$4.50 per 100 pounds.
JOHN L. WINGERT, Dunlap, Kansas

KANSAS CERTIFIED HYBRID SEED CORN
K2234 — U. S. 13 — K1784 — K1585 — K1583
All seed treated with Spergon DDT. Prices reasonable. Quality excellent.
Inquiries welcome.
CARL BILLMAN, Holton, Kan.

Certified Buffalo Alfalfa Seed
1600 pounds for sale, Purity 99.18%
R. E. EDDY
Coolidge, Hamilton County, Kan.

BLACKHULL KAFIR Germination 93% Purity 99.21%
AXTELL SORGO Germination 94% Purity 99.22%
Write for samples and prices. Special prices to dealers.
Chamberlin Seed Farm, Carbondale, Kan.

CERTIFIED CLINTON OATS
Also Beaver and Benton from Certified Seed. The highest yielders of all.
Judge J. J. Hiedebrecht and Daniel J. Orth Rt. 4, McPherson, Kansas Phone 20F12
For Sale—2,800 bushels certified blue tag Clinton Oats, 97% germination, 99% purity, \$1.85 per bushel. Order immediately to be available February 1. Johnne Soibach, Morganville, Kan.
Atlas Sorgo 94% germination, 7c per lb. Neosho Oats 95% germination, \$2.00 per bushel. Nebraska Certified Clinton Oats, \$2.00. Walter Peirce, Rt. 2, Hutchinson, Kan.
Pure, Certified Pink Kafir, Norkan, Midland and Ellis, the new white-seeded sweet sorgo forage crop. Fort Hays Experiment Station, Hays, Kan.
Certified Clinton Combine Oats, germination 99%, Purity 99.69%. Sacked three bushels to bag, \$2.00 per bushel. Dean Libby, Smith Center, Kan.
Certified Achenbach Brome Grass, high quality. Immediate shipment. Also uncultivated. Lambert & Dickerson, Hiawatha, Kan.
Certified Ellis Sorgo, Purity 99.40% Germination 93%, 8c per pound sacked. Niles C. Endsley, Alton, Kan.

PLANTS AND NURSERY STOCK
Open Field Grown Plants: Cabbage, Onions, Potatoes, Peppers, Tomatoes, Beets, Lettuce, Cauliflower, Broccoli, Asparagus, Flowers, Tobacco, Brussels sprouts, Eggplant. All leading varieties. State certified. Guaranteed to please. Write for catalogue and free plant offer. North Texas Plant Farm, Franklin, Texas.
Strawberry Plants Postpaid. Premier, Aroma, Blakemore, Klondyke, Tenn. Beauty, Dunlaps, Missionary, 100—\$1.25; 500—\$4.00; 1,000—\$7.00. Everbearing, Progressive and Gems, 100—\$2.50; 500—\$8.00; 1,000—\$15.00. Warren H. Lackey, Harrison, Tenn.
Certified Strawberry Plants—Aroma, Blakemore, Klondyke, Dunlaps, Gem Supreme, \$5.00 thousand; Gem Beauty, Klondyke, \$7.50; Gem Everbearing and Minn. 1166, \$12.00; Progressive, \$8.00. Tom Ramsey, Harrison, Tenn.
Too Many Peach Trees: Prices reduced, 18-24 in. 8c. 2-3 ft. 12 1/2c. 3-4 ft. 20c. 4-5 ft. 27 1/2c. Most all leading varieties. Prices on other nursery stock on request. Otis Wheeler's Nursery, Amity, Ark.
Grapevines—Concord or Fredonia, heavy 2-year 10—\$2.00; 3-year bearing size, 10—\$3.00, postpaid. 20 leading varieties, list free. Strawberry plants, Boysenberries, Blackberries, Raspberries, Asparagus, Rhubarb, etc. Ideal Fruit Farm, Stilwell, Okla.
Complete Berry Garden \$3.00 prepaid. 25 Thornless Boysenberry, 25 Red Raspberry, 50 Blakemore, 50 Klondyke Strawberry, Rye Nursery, Alma, Ark.
50 Two-Year Concord grapevines \$4.00, list free. Ponzer Nursery, Rolla, Mo.
FLOWERS AND BULBS
Gladiolus—125 giant, exhibition, varieties. Dahlias, Cannas, Imported Lilies. Lowest prices. Big specials. Free catalog ready. Foley Gardens, Freeport, Ill.
FILMS AND PRINTS
3c Deckledge Reprints 3c
Beautiful Velox Deckledge prints made from your negatives only 3c each, 6 or 8 Exposure rolls developed and printed on deckledge paper 25c. Aircraft DeLuxe enlargements 3c 6x7 only 50c. Four 8x10 enlargements from negatives \$1.00. Your favorite photo copied and 10 printed made 65c.
SUMMERS STUDIO, Unionville, Mo.
This Ad Plus 35c gives you 16 Jumbo, oversize, enlarged prints from any 8-exposure roll developed. Enlargement coupon free. Quality and quick service for 19 years. Skrudland, 644-H Diversey, Chicago.
16 Enlarged Jumbo Oversize Prints from any 6-, 8-, 12- or 16-exposure roll film developed only 35c and this ad. Free coupon. Modern Electronics Co., River Grove, Ill.
Three Prints Each 8-exposure roll 40c. Two each 35c. One each 25c. Reprints 3c. L. V. Eastman, Bode, Iowa.
This Ad and 25c gets you 10 oversize reprints or 5 - 4x6 enlargements. Jumbo Printers, Lake Geneva 5, Wisc.

MACHINERY AND PARTS

You Can Now Buy Original Kirlin Corn Cultivator

For more than 50 years, the Kirlin has been the last word in efficient and economical corn cultivation.

Comes in single or double row, tractor drawn; steel sled-type runners, adjustable and replaceable; two 16-inch discs each row; Alema Zerk oiled, cast iron boxings; discs adjusted to any angle; knives behind runners wonderful feature; strong and sturdy, cultivator will last for years. Can equip with hydraulic hitch for Ford and Ferguson tractors.

Write today for particulars. Attractive dealer proposition open on application.

THE L. KIRLIN CULTIVATOR CO. Centralia, Kansas

Farrar V-Pulleys 6 to 30-inch diameter and V-Belt conversion drives for international 23SP, 125SP, 122; Case A6, A, B, C, H, M, K, 5, QRS; Holt-Caterpillar 34, 36; drives for John Deere 17, 5A, 5; Engine drive for M-M Jr., 52, 63, 64. Avoid breakdowns, lost time, reduce vibration; save repair costs. Directions for installing. Write for free descriptive literature or your machine, Farrar Machine Shop, 111 Main, Norwich, Kan.

For Sale—Combine unloading augers to fit Baldwin, Oliver 30, Minneapolis Moline G4, 2, 3, 4, John Deere 17, Case K12 and A6, McCormick-Deering No. 122, 123 and 125. This is the fastest and newest auger on the market. V-Belt conversions for No. 122, SP123 and SP125 McCormick-Deering Combines. Hodges auger grain elevator with hopper, 3-wheel carriage, nothing like it. Write Bridgeport Equipment Co., Inc., Bridgeport, Nebr.

New and Used Tractor Parts. Write for big, free 1949 catalogue; tremendous savings. Satisfaction guaranteed. Central Tractor Wrecking Co., Des Moines 3, Iowa.

For Sale—High speed road gear attachment, 15 miles per hour, easy to install to fit John Deere tractors A and B, also McCormick-Deering regular Farmall, F20 and F30 tractors. Bridgeport Equipment Co., Inc., Bridgeport, Nebr.

Headquarters for Tractor Parts, most all makes. Send for free 76-page 1949 catalogue. Acme Tractor Salvage Company, Lincoln, Nebr.

Heavy Duty Canvases for New Holland Balers. Catalog free. Hudson Machinery Co., Los Angeles 27, Calif.

REMEDIES—TREATMENT

Free Book—Piles, Fistula, Colon-Stomach, associated conditions. Latest methods. Thornton Minor Clinic, Suite C-206, Kansas City, Mo.

MUSICAL INSTRUMENTS

Safe Place to Buy a piano. Bennett Music House, 40 years in Wichita, quality and price, you get both. Liberal trade-in for old piano. Famous make Spinets \$495.00 to \$1,000.00. Come to Wichita or write Bennett's—free catalog.

BUSINESS OPPORTUNITIES

One of the Best Opportunities to buy a going business in North Central part of Kansas. Minneapolis-Moline Machinery and Studebaker cars and trucks. This is a going business, no bank. Will rent the building. Immediate possession. Contact P. M. Newell, Phillipsburg, Kan.

Trend of the Markets

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

	Week Ago	Month Ago	Year Ago
Steers, Fed	\$27.00	\$32.25	\$38.00
Hogs	21.75	22.00	27.65
Lambs	24.75	25.25	25.25
Wens, 4 to 5 lbs.	.25	.25	.18
Eggs, Standards	.41½	.43½	.41
Butterfat, No. 1	.60	.63	.87½
Wheat, No. 2, Hard	2.26½	2.26½	2.58½
Corn, No. 2, Yellow	1.39½	1.45	2.25
Oats, No. 2, White	.82	.90½	1.23½
Barley, No. 2	1.32	1.30	1.80
Alfalfa, No. 1	30.00	30.00	38.00
Prairie, No. 1	17.00	17.00	19.00

What About Cowpeas?

Do you have any information about cowpeas? I desire the latest information on this subject.—Richard McCoy, Rice Co.

We have grown cowpeas off and on at this station, and carried them in experimental tests, for a great many years. We find there are many varieties differing a great deal in their growth habits.

The variety you would want to grow will depend largely upon the purpose you want to use it for. Some varieties, which are very early, produce an abundance of seed but very little forage, and the leaves drop off before the seed is all ripe and they are really not much good for forage. They are not very good either for plowing under for green manure. I refer to such varieties as the Red Ripper.

Then there are the large, late varieties which produce an abundance of forage and the leaves remain green until frost. But the crop of seed is very light and does not all mature at once, so you will find ripe pods, green pods in all stages of development, and bloom on the plants at the same time. This type of cowpea is best for forage and green manure, but the seed is always hard to get, and it is difficult to harvest very much of a crop of seed from it. Such varieties as that are the Brabham and the Whippoorwill.

There is another group of varieties in between, such as the New Era. This is a fairly good seed producer, but still produces a good deal of forage.

One of the greatest difficulties of growing cowpeas is to get the seed. It is nearly impossible to get pure seed of cowpea varieties. Usually the seed is badly mixed and the varieties most likely to be available are the Brabham, the New Era and the Whippoorwill.

The Blackeye cowpea is another variety grown in Oklahoma to a considerable extent. The seed is used for human food in much the same way as navy beans. You should be able to get seed from seed houses of the south.

In growing cowpeas we think it is best to plant them in rows using about 20 to 25 pounds of seed to the acre, and then cultivate them very much the same as you would cultivate garden beans. If the ground is very clean of weeds they can be drilled broadcast at the rate of about a bushel to a bushel and a peck to the acre, and they will make a heavy, solid growth. Usually if they are planted in rows, the rows will grow together until the ground is completely occupied by the plants.

Cowpeas should be harvested for hay when they have made the maximum vegetative growth, and after the first pods are beginning to ripen. Pick at a time when you have plenty of time for them to cure in fair weather. The crop is difficult to cure because the stems are quite juicy. I think soybeans are much easier to cure and make a nicer-quality hay than cowpeas.—J. W. Zahnley, professor of crops, K. S. C., Manhattan.

When to Plow

Atomic energy may play an important part in the future of agriculture. The U. S. D. A. is planning extensive research in soil and plant science to learn exactly how radioactive elements behave when put into soils. Facts will be sought on the movement, the fixation, and the release of various radioactive substances in various soil types.

These studies are expected to result in new and more precise knowledge, which will help farmers know when to plow and cultivate and fertilize for best results with different crops on different soil types.



HARTMANS' BIG SMOOTH POLAND Annual Bred Sow Sale Monday, February 28

In sale pavilion on farm 2 miles north and ¼ west of Elmo, 14 miles south of Abilene, highway K 15.

40 Top Bred Sows and Gilts

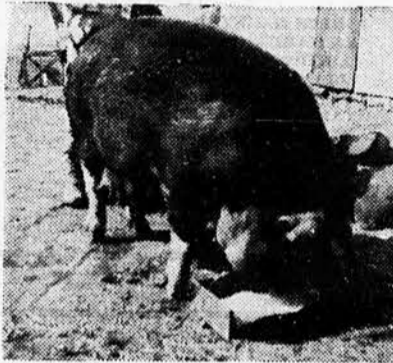
10 Picked Boars. 10 selected Gilts of fall farrow.

Offering sired by or bred to such great tried boars as Wonder Boy, All Midwest, General Ike, Challenger's Best and Mixer Buster.

Bred and fed for the best results in new hands.

When bigger and smoother Poland are produced we will grow them.

(Over 40 years of constructive breeding.) Everything immune.



Hartmans' Orange, 900-lb. sow.

For catalogue write

ELMO VALLEY POLAND CHINA FARM

J. J. HARTMAN & SON (Owners), Elmo, Kansas

Auctioneer: Col H. S. Duncan Jesse R. Johnson with Kansas Farmer Send sealed bids to auctioneer or fieldman in our care at Elmo, Kansas.

Kansas Poland Breeders Annual Sale

Sale Barn — 1 P. M.

February 14, St. Marys, Kan.

35 Bred Gilts — 8 Fall Gilts 8 Fall Boars



This is perhaps the finest offering that this organization has ever put in any public auction. The hogs are well bred and carefully selected from the following breeders in Kansas:

JOE DVORAK, Marion OLEN STREEBIN, Ottawa NEWELL COON, Burlingame HOMER ALKIRE, Belleville HARRY TURNER, Harper ARDEN KROHN, Scandia HARRIS RAMSOUR, Alta Vista K. C. WIDLER, Burns GLENN WISWELL, Spring Hill HERB SCHROEDER, Walton

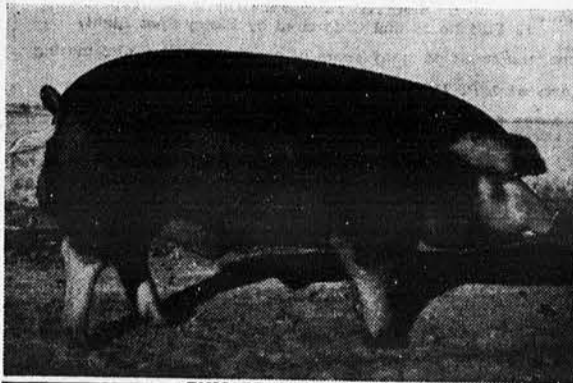
R. H. WILLIAMS, Clay Center PAUL WILLIAMS, Clay Center RAY SAYLER & SONS, Manhattan HAYES BECK, Manhattan HERBERT RINDT, Herington HENRY HAIN, Spearville C. R. ROWE & SON, Seranton JOHN SAYLER SON & DAUGHTER, Lyndon KENNETH BRENNER, Abilene

We extend this invitation to all 4-H Club leaders and F. F. A. supervisors and members to take part in our judging contest at 10 o'clock the morning of the sale. There will be \$50 offered in cash prizes. Don't miss it. There will be a banquet the night before the sale in the basement of Allen's Cafe. Make reservation early to Mr. McLin. For information and catalog contact

GORDON McLIN, Sale Manager, Silver Lake, Kan.

Mike Wilson, Auctioneer

Dillon Williams and Everett Hoobler, Ringmen



THIS IS GLADSTONE

Don't Miss Bauer Bros. Poland Bred Sow Sale Friday, February 11 at 1 P. M.

Fairbury, Nebr.

60 Bred Gilts—Tops from 125 head, the get of Copyright and other boars. Bred to such sires as Gladstone, one of the greatest boars ever brought to our farm. 10 Selected Fall Boars by Copyright, whose sons head many leading herds. Descendants of Midwest, Grand Nation and other sires. For catalog address Bauer Bros., Gladstone, Nebr. Auct.: Harve Duncan Jesse R. Johnson with Kansas Farmer

MISSOURI STATE HERFORD HOG BREEDERS' ASSOCIATION SHOW AND SALE

Show at 10 A. M. — Sale at 1 P. M. Monday, February 21 Wely Sale Pavillon

Nevada, Missouri

45 HEAD—30 Bred Gilts

10 Open Gilts — 5 Boars

Banquet—Evening of February 20

SPECIAL—Free Gilt given away to lucky 4-H or F. F. A. member.

Write for catalog to

L. TANZBERGER, Sec., Tina, Mo.

Auctioneer: Hugh Campbell Don Bowman for this Publication

BERGSTEN'S Improved Hampshires

Now offering outstanding Fall Boars. Immune and registered. New breeding for old customers.

E. E. BERGSTEN & SONS, Randolph, Kan.

THYLEDAL FARM PRODUCTION HAMPSHIRE Bred and open gilts, same breeding as winners in Carcass Contest at American Royal. Established type. See them. DALE SCHEEL Emporia, Kan.

35 HAMPSHIRE GILTS bred for March and April, 10 months old, weigh 270 to 325 lbs. Immuned. \$50 Reg. \$75 Reg. Off belts, \$70. A. A. Carlson & Sons, Gypsum, Kansas

BRED GILT SALE

Tues., Feb. 15—1:30 p. m. Mankato, Kan. (sale barn)

35 Purebred Poland China Gilts weighing up to 400 pounds. 25 Duroc Gilts, not registered.

All bred to our good registered Poland China boars to farrow from late February to early May. Well bred, well developed gilts that will meet the needs of breeders, 4-H and F. F. A. members, farmers and commercial producers.

RAYMOND O'HARA, Mankato, Kansas

Kansas State Duroc Breeders Annual Sale

at Marysville Sale Pavilion — 1 P. M.

Marysville, Kansas — February 12

Marysville is located 100 miles west of St. Joseph, on U. S. Highway 36. 55 miles north of Manhattan on highway 77. 65 miles south of Lincoln, Nebraska.

50 HEAD OF SELECTED BRED GILTS

10 Fall Boars of top breeding and good individuals. This outstanding offering is selected from the good herds of the following Duroc breeders in Kansas:

HERMAN POPP, Haven
RALPH SCHULTE, Little River
BEN A. FLETT, Delphos
GEORGE L. SEELY, Manchester
ALLEN LARD, Clay Center
G. F. GERMANN & SON, Manhattan
ARTHUR E. ROEPKE, Waterville
EDWARD F. BLECHA, Munden
W. H. HILBERT, Corning
MORLEY BROS., Belleville
FRANK ALEXANDER, Corning
JACK SLEICHTER, Abilene

CHARLES L. STREETER, Riley
MARVIN F. STEIN, Sedgwick
VERN V. ALBRECHT, Smith Center
PHILLIP C. WENDLAND, Manhattan
L. G. WREATH & SON, Manhattan
CHARLES H. BEYER, Belleville
VERN HARDENBURGER, Narka
E. M. KIDDER, Bird City
WILLIAM RILINGER, Goff
WILBUR KIRK, Munden
DONALD SCHUMAKER, Wamego
SHERWOOD BROTHERS, Concordia

For information and catalog write

KENNETH E. MAKALOUS, Sale Manager

Auctioneer: Bert Powell

Mike Wilson with Kansas Farmer

3RD ANNUAL DUROC BRED GILT SALE

Tuesday, February 15

Sale to be held in Sales Pavilion
422 Illinois Avenue
South St. Joseph, Mo.

Starting at One O'clock
A Choice Group of 40 Bred Gilts.
Popular bloodlines. Well developed.
Send mail order bids to auctioneer in our care.
Write for catalogue.



"One of our Duroc Gilts"

DANNEN RESEARCH FARM, Box 429, St. Joseph, Mo.
Auctioneer—Bert Powell

Annual Duroc Sale, Monday, February 7

at 1 P. M. at the Amis Sale Barn,
Smith Center, Kansas

Judging contest in the A. M. for F. F. A. and 4-H Club members. Instructors and leaders are invited to bring their students and participate in this event at 9:30.

60 REGISTERED DUROCS

50 Bred Gilts — 10 Fall Boars and Gilts

This great offering of gilts are bred to Western Star, a great son of Red Star, the 1,300-pound, twice Ohio champion and modern Duroc boar at the last Duroc Congress. This excellent offering of gilts are sired by many great boars. As I have bought many top gilts in the fall sales. Several are sired by Cois. Model and Orion Cherry King bred boars. Durocs since 1900. Catalogs on request.

VERN V. ALBRECHT, Smith Center, Kan.
Bert Powell, Auctioneer

Miller's Duroc Production Sale

Monday, February 21

50 HEAD OF QUALITY DUROCS

40 Sows and Gilts sired by Fancy Spot Light and bred to High Flyer (by First Base), Red Master (by Royal Master) and Model Keepsake (by P & K Type).
10 Fall Boars and Gilts sired by Fancy Spot Light.



Model Keepsake

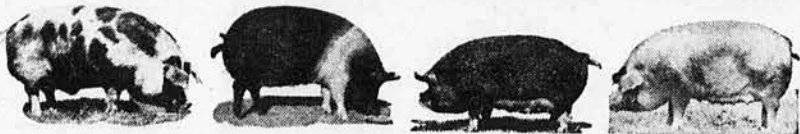
The offering is a good useful one, the result of many years of careful selection and mating of the best bloodlines.

Sale on farm near town. Starts at 1 P. M. For catalog write

WELDON MILLER, Norcat, Kansas

Auct.: Bert Powell

Jesse R. Johnson with Kansas Farmer



ATTENTION! EASTERN KANSAS SWINE PRODUCERS
PLAN TO ATTEND THE

Southwest Missouri All-Breed Bred Gilt CONSIGNMENT SALE

Thursday, February 10, 1949 — 1 P. M.
Welty Bros. Sale Pavilion — Nevada, Missouri

60 HEAD OF QUALITY REGISTERED BRED GILTS
Also 5 to 10 Head of Real Top Fall Boar Pigs

Durocs — Hampshires — Spotted Polands — Berkshires

Consigned from the good registered herds of that section of the state. All Cholera immuned. This will be a quality offering. Bred to top quality herd sires. Take advantage of the good corn-hog ratio and buy some of these good registered bred gilts.

Sale sponsored by

DONALD J. BOWMAN, Sales Manager, Hamilton, Mo.

Write at once for sale catalog.
Auctioneers: Connie McGinnis, Darwin Johnson and Welty Bros.

Soil in Wrong Place

Conservationists and engineers now place a value of 175 million dollars as the annual damage from all forms of sediment and sedimentation (depositing soil) in the U. S.

This cost includes 50 million dollars worth of damage to agricultural land, an equal amount from sedimentation in storage reservoirs, and a lesser amount from damage to drainage and irrigation systems, harbors and river channels, recreation and wildlife, as well as added cost of maintaining highways, railroads and other facilities.

Shorthorn Show

The American Royal Live Stock Show, at Kansas City, has been chosen for the 1949 National Shorthorn Show. A premium purse of \$25,000 will be divided among breeding classes, carlots, feeders and individual steers, with all animals registered with the association eligible. Shorthorns and Polled Shorthorns will compete together in the same classification, it is announced. A sale of 100 head of Shorthorn breeding cattle will be held in connection with the national show.

Public Sales of Livestock

Aberdeen-Angus Cattle

February 22 — U. S. Center Aberdeen-Angus Breeders' Association, Smith Center, Kan.
February 24-25 — Heart of America Breeders' Association, Kansas City, Mo. W. Clay Woods, Secretary, 912 Commerce Bldg., Kansas City, Mo.

February 26 — L. M. Thornton, Garden City, Mo.
February 28 — Johnston Brothers, Belton, Mo.
J. B. McCorkle, Sales Manager, Suite 3710 A. I. U. Bldg., Columbus 15, Ohio.

March 1 — Penney & James, Hamilton, Mo. J. B. McCorkle, Secretary, 3710 A. I. U. Building, Columbus 15, Ohio.
March 8 — C. E. Reed, Wichita, Kan.
March 29 — South Central Nebraska Angus Breeders, Hebron, Nebr. Claude L. Rowley, Sale Manager, Hebron, Nebr.

Guernsey Cattle

May 2 — Missouri Guernsey Breeders' Association, Columbia, Mo. H. A. Herman, Secretary, Eckles Hall, Columbia, Mo.

Hereford Cattle

February 10-11 — Nebraska Hereford Breeders' Association, Grand Island, Nebr. Clare Clement, Sale Manager, Ord, Nebr.
February 17 — Oklahoma-Kansas Hereford Breeders' Association, Blackwell, Okla. Marsh B. Woodruff, Secretary, Blackwell, Okla.

February 21 — Kansas Hereford Association, Hutchinson, Kan. A. G. Pickett, Secretary, Manhattan, Kan.

February 26 — C. K. Ranch, Brookville, Kan.
February 28 — Round-Up Hereford Sale, Kansas City, Mo. Managers, American Hereford Association, 300 West 11th St., Kansas City 6, Mo.

March 7 — Marshall County Hereford Breeders, Marysville, Mo.

March 16 — Morris County Hereford Breeders' Association, Council Grove, Kan.
March 29 — North Central Kansas Hereford Breeders, Belleville, Kan.

April 22 — Northwest Kansas Hereford Breeders' Association, Atwood, Kan. H. A. Rogers, Manager, Atwood, Kan.

Holstein Cattle

February 16 — Hugh White, Overland Park, Kan.

Shorthorn Cattle

March 23 — Central Kansas Shorthorn Sale, Fair Grounds, Hutchinson, Kan. Frank E. Leslie, 516 West 15th St., Hutchinson, Kan.

March 31 — Mid-Kansas Shorthorn Breeders Sale, Salina, Kan. Mervin F. Aegerter, Sales Manager, Seward, Nebr.

April 6 — North Central Kansas Shorthorn Breeders sale, Beloit, Kan. Edwin Hedstrom, Secretary.

Duroc Hogs

February 7 — Vern V. Albrecht, Smith Center, Kan.

February 8 — Wreath Farm, Manhattan, Kan., and Charles L. Streeter, Riley, Kan. Sale at Manhattan, Kan.

February 12 — Kansas State Sale, Marysville, Kan.

February 15 — Dannen Mills Farms, St. Joseph, Mo. C. W. Glassell, Manager, St. Joseph, Mo.
February 15 — Raymond O'Hara, Mankato, Kan.
February 21 — Weldon Miller, Norcat, Kan.

Hampshire Hogs

February 26 — O'Bryan Ranch, Hiattville, Kan.

Hereford Hogs

February 18 — Kansas State Sale, Holton, Kan. Milt Haag, Secretary, Holton, Kan.
February 21 — Missouri State Breeders' Show and Sale, Nevada, Mo. L. Tanzberger, Secretary, Tina, Mo.

Poland China Hogs

February 11 — Bauer Bros., Gladstone, Nebr. Sale at Fairbury, Nebr.
February 14 — Kansas Poland China Breeders, St. Marys, Gordon McLinn, Sale Manager, Silver Lake, Kan.

February 15 — Raymond O'Hara, Mankato, Kan.
February 24 — Missouri State Breeders' Show and Sale, Carrollton, Mo. Paul Bogart, Sec., Holt, Mo.

February 28 — J. J. Hartman & Son, sale at farm, Elmo, Kan.

Spotted Poland China Hogs

February 14 — H. E. Holliday & Son, Richland, Kan. and Clyde Miller, Rt. 2, Topeka, Kan. Sale at Fairgrounds, Topeka, Kan.

February 22 — Kansas Spotted Poland China Breeders Sale, Marysville, Kan. Wayne L. Davis, Sale Manager, Mahaska, Kan.

Hogs—Several Breeds

February 19 — Clay County Hog Breeders, Clay Center, Kan.

Berkshire Hogs

February 28 — Kansas Berkshire Association, Hutchinson, Kan.

O I C Hogs

February 11 — Kansas O I C Swine Breeders Association, Fredonia, Kan. Vernon Zimmerman, Secretary, Inman, Kan.

Hogs—All Breeds

February 10 — Southwest Missouri All-Breed Bred Gilt Consignment Sale, Welty Bros. Sale Pavilion, Nevada, Mo. Donald J. Bowman, Sales Manager, Hamilton, Mo.

Sheep—All Breeds

June 24-25 — Midwest Stud Ram Show and Sale, Sedalia, Mo. Rollo E. Singleton, Secretary, Columbia, Mo.

HOGS



MISSOURI POLAND BREEDERS' ASSN. SHOW and SALE

Show—10:30 A. M. Sale—1 P. M.
Thursday, February 24
Reed Sale Pavilion

Carrollton, Missouri

Bred Sows—Fall Boars—Open Gilts
A show window sale. A quality offering consigned from many of the good Missouri herds.

For catalog write to—

PAUL BOGART, Sec., Holt, Mo.
Auct.: Pete Reed
Don Bowman for this Publication

Spotted Poland Sale

Fairgrounds

Topeka, Kansas February 14, 1949

40 Top Bred Gilts, 10 Fall Boars and Gilts. Bloodlines of Pawnee Sunset, Justrite Prince, Lo Set, Modern Master. For information and sale catalog write:

**HERBERT or H. E. HOLLIDAY
Richland, Kansas
or CLYDE MILLER
Rt. 2, North Topeka, Kan.**

Kansas Spotted Poland Breeders' Association

BRED SOW SALE

at the Sale Barn at

Marysville, Kan., Feb. 22

Write **WAYNE L. DAVIS, Sale Mgr**
Mahaska, Kansas

Offering REG. SPOTTED POLAND CHINA GILTS

Bred to Silver Lad (son of Big Chief) and grandson of the 1946 Grand Champion for February, March and April farrow. Also a few spring boars and fall pigs. Everything double immuned.

**EARL AND EVERETT FIESER
Norwich, Kansas**

REG. SPOTTED POLAND FALL BOARS and GILTS

Sired by Jay Hawk (now called Giant Sensation) 1st senior yearling Nebraska State Fair, now heading the Lee H. Winter herd. These boars are heavy hammed and thick-suitable to head any herd. Priced right.

BLANKE BROS., Bremen, Kansas

SPOTTED POLAND Bred Gilts and Fall Pigs

Choice quality and breeding ready for immediate shipment.

CARL BILLMAN, Holton, Kansas

REG. SPOTTED POLAND FALL BOARS and GILTS FOR SALE

Sired by Royal Prince, September farrow. Priced reasonable. Write

J. A. BUCKLES, Rt. 1, Mound City, Mo.

Poland Fall Boars and Gilts

Sired by "Mixer's Buster," Kansas grand champion, and by "Choice Goods," Kansas first prize junior yearling. Priced reasonable.

C. R. ROWE & SON, Scranton, Kansas

Livestock Advertising Rates

1/4 Column inch (5 lines) \$3.00 per issue
1 Column inch..... 8.40 per issue
The ad costing \$3.00 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.

**JESSE B. JOHNSON, Livestock Editor
MIKE WILSON, Fieldman.
Kansas Farmer - - Topeka, Kansas**

HOGS

CLAY COUNTY PURE BRED HOG BREEDERS' ASSOCIATION

BRED GILT SALE

Saturday, February 19, 1949
Clay Center, Kansas

1:30 P. M., Fairgrounds
Under cover and in heated building.

30 BRED GILTS—7 BOARS
2 OPEN GILTS

Will be an offering of fall boars
and open gilts.

Consignors:

- JOHN ROGERS—Spotted Polands
ROY MARTIN—Chester Whites
ALLEN LARD—Durocs
HARRY HILDENBRAND—Durocs
WILLARD SCHUELE—Durocs
CARL LEPPERSBERGER—Durocs
PAUL WILLIAMS—Black Polands
DILLON WILLIAMS—Black Polands
ROTH BROS.—Hampshires
GEORGE D. CARPENTER—Berkshires

Write for a catalog to
GEORGE D. CARPENTER, President
Clay Center, Kansas
Ross Schaulis, Auctioneer

IN THE FIELD



Jesse R. Johnson
Topeka, Kansas
Livestock Editor

and MIKE WILSON, Livestock Fieldman,
Muscotah, Kansas.

AMONG the many services that make Kansas Farmer a good investment from the standpoint of its readers is the livestock advertising department. Not only does this service make it possible for readers to locate and select good breeding stock more economically but the general educational value of its well written and attractively displayed advertisements, together with photos of correct-type animals, is hard to estimate.

Seeing the picture of a high-producing, modern-type dairy cow has, in many instances, started a poor or indifferent dairyman on the highway to success. And, if the cow's record appeared with the picture, sooner or later there was a change of ownership of the low-producing cows in that herd.

Sale reports and other livestock news are a part of the advertising that helps to increase and maintain interest in good livestock growing, which is the farmers most important industry. Purebred livestock auction attendance, the result of advertising, affords the best opportunity for comparing the relative merits of different breeds of livestock, together with the study of type and general price trends. Prospective buyers secure valuable knowledge by attending sales of this kind. They study the sale catalog, compare the animal selling with his pedigree in the book and, in this way, acquire some knowledge of the value of different bloodlines.

Once it was hard for new buyers or beginners to understand why livestock of the same color and size and varying so little in general appearance should sell at such wide range of prices.

But for the advertising and other kinds of publicity made possible by publications like Kansas Farmer, improved and registered livestock distribution would have been much slower. And, in proportion, Kansas would not now enjoy its present high state of general prosperity.—Jesse R. Johnson.

FRED C. GERMANN, Jr., member of the firm of GERMANN & SON, owners and operators of the Haven Hollow Duroc farm, at Manhattan, will graduate soon from Kansas State College, and is already making plans to breed more and better Durocs than in the past. Fred has achieved quite a reputation as a livestock judge during the past few years. It is good to know that he is another of the outstanding young men with a college education who will stay on the farm and continue to carry forward the state's programs for increased wealth by the livestock and diversified farming route.

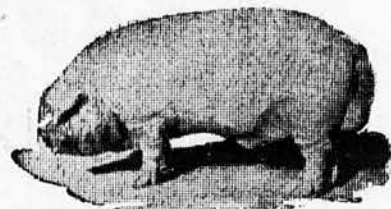
The FIESER BROS., Earl and Everett, of Norwich, in the edge of Kingman county, have proved the wisdom of diversified farming and livestock growing in their section of Kansas. They established herds of registered Spotted Poland Chinas several years ago when growing registered purebred hogs was something of an experiment. But, by a careful study of type, feeding methods and mating animals that carry the blood of the best strains of the breed, they have developed a type of hog that is acceptable to the farmer trade. While not important from the standpoint of more or even better pork, the well-distributed spots on the big well-balanced, heavy-hammed and strong-backed Fieser hogs make for attractiveness. The brothers also breed registered Polled Shorthorn cattle and animals from the herd always sell around the tops in association sales.

Due to an oversight the NORTH CENTRAL KANSAS MILKING SHORTHORN ASSOCIATION sale held at Salina several weeks ago was not reported in Kansas Farmer. The offering was chosen from many of the good herds of the territory and sold without any special fitting. A fairly good crowd was in attendance and although there were no tops high enough to bring up a sensational average, the sale was a real success. Consignors and buyers both were satisfied and thinking of another sale sometime in 1949. The top female went to Chester H. Rolfs, of Lorraine, at \$480, and Charles Heinze, of Wilson, paid \$400 for the high bull. The bulls, including some quite young, brought a general average of \$258, and the females, including young things, averaged \$271. The weather was unsatisfactory—cold, windy and some rain. Gus Heidebrecht was the auctioneer and the sale was managed and conducted by Gordon L. Janssen, of Bushton, and M. H. Peterson, of Junction City.

The encouragement that came to the BAUER BROS., of Gladstone, Neb., when they exhibited and won grand championship on their young boar, State Fair, at the Nebraska State Fair several years ago, was probably responsible for the incentive that carried them to their present high place among the best Poland China breeders in the entire country. Realizing that it is hard to reach the top and still more difficult to stay there, they undertook to establish something of a universal type. This was done by keeping what they considered the best daughters of State Fair for several years. Then the problem of securing just the right type of herd sires was an-

KANSAS OIG SWINE BREEDERS SHOW AND SALE

New sale barn west edge of
Fredonia, Kansas
February 11, 1949



30 Bred and Open Gilts--10 Boars

Consigned by the Following Breeders in Kansas:

- GENE R. TEMPLER, Liberty.
IRL HOLZRICHTER, Burrton.
DONALD WEBBER, Independence.
VERNON ZIMMERMAN, Inman.
G. H. McDONALD, Fall River.
ALLEN TETER, Hutchinson.
 - J. R. ADAMS, Fredonia.
OTTO DELFS, Inman.
CLIFFORD MILLER, Conway.
SYLVESTER MARTIN, Mt. Hope.
S. D. MILLER, Conway.
CHARLES TURNER, Coffeyville.
- For catalog write Vernon Zimmerman, Sec.-Treas., Inman, Kan.
Judge—Prof. C. E. Auel, Kansas State College, Manhattan, Kan.
Auct.—Col. Harold Watkins, Fieldman—Mike Wilson, Kansas Farmer, Topeka
Kansas OIG Breeders Banquet and Meeting 7:00 P. M., Thursday, February 10
Fariss Hotel, Fredonia, Kansas.

Kansas Hereford Hog Breeders' Association Sale

Ireland Sale Pavilion — 1 P. M.

February 18 — Holton, Kansas

40 Bred Gilts. Bred for spring farrow, carrying the service of some of the breeds most popular boars. 20 Open Gilts, sired by noted sires.

6 Fall Boars, some of herd boar material. You will find in the tabulations of this offering the blood of such great boars as Fashion Model, Prize Goods, Bright Model the junior champion boar at the 1947 Kansas State Fair. Also the blood of Riverside Chief. Anyone interested in top Hereford hogs should not fail to attend this sale. There will be a banquet on the night of February 17, at the Holton Hotel for breeders and those interested in Hereford hogs. For catalog and information write:

MILT HAAG, Sale Manager, Holton, Kan.

Bred Gilt Sale

60 production bred gilts
mated to Illinois Grand
Champion Tradewind. All gilts selling are
from litters of 10 or more. Write for Catalog.

O'BRYAN RANCH - Hiattville, Kansas



Tradewind

other problem. That this problem has been well solved is evident when visiting the herd and noting the uniformity of over 100 females to be seen on the farm. This great array of good Polands has come about by searching and finding such sires as Copyright, many of whose first sons are going out to head leading herds of the country. The new sire purchased to assist Copyright is Gladstone, said to be one of the great prospects of the breed. It would be interesting to know just how many great boars and sows have gone out from this herd to add wealth to the pork producers of Kansas, Nebraska and other states.

Writing from his farm at Moline, J. E. HUGENOT says, "Please run the advertisement a couple of more times. We have had plenty of inquiry and several buyers but still have more good Milking Shorthorns for sale." Mr. Hugenot formerly lived out west and was a big wheat grower. Now he is a general farmer and devotes most of his time to his fine herd of registered Milking Shorthorns. Mr. Hugenot mentions the fact that his wife has been ill in the hospital but is back home again and on the way to recovery.

On his well-balanced stock farm near the town of Ada, in Ottawa county, PAUL J. STUDDT is making a success of breeding and improving registered Milking Shorthorn cattle. His cow herd, the foundation of which were Brookside Clay 13th and young stock mostly sired by Navvoo Champion R. M., are classified Very Good and Good Plus. The herd is maintained much as the average cattle are cared for on most Kansas farms. Mostly out in the open the year around to develop strong legs and rugged health.

One of the interesting things connected with the livestock industry is the inclination of many boys who grow up on a purebred livestock breeding institution to carry on the work and, in many instances, do a better job than was done by their fathers. The love for good livestock is doubtless an inherited trait. RAY RUSK, of Wellington, who, with his son, breeds registered Hereford cattle and has one of the good herds of Southern Kansas, is a good example. The big, well-improved farm is located only a few miles from the Ira Rusk farm, where good registered Percheron horses were grown a quarter of a century. Ira was the father of Ray.

Z. B. CRAIG & SON HOLSTEIN sale, Columbia, Mo., January 6, attracted a large crowd with contending bidders on Holsteins from 6 states. Missouri buyers purchased 57 of the 71 head selling. Mature females averaged \$356, with females of all ages averaging \$263.10. About three fourths of the offering were grades, which sold readily at prices that were exceptionally good. Two top cows were registered and they sold for \$505 and \$500. These 2 cows went to R. T. Senter, Ironton, Mo. Oscar Goodin & Son, Lawton, Okla., were heavy buyers, taking 10 head. David Anderson, Thayer, was the heaviest Kansas buyer as he purchased 4 head and bid on several head in trying to add to this number.

Wreath-Streeter DUROC SALE

at 1 P. M. at the Wreath Farm,
2 miles west of

Manhattan, Kan.

February 8

40 Registered Duroc Bred Gilts
A few Registered Hereford Calves
Championship breeding plus individual excellence. For catalog write

WREATH FARM, Manhattan, Kan.
or CHARLES L. STREETER

Riley, Kansas
Bert Powell, Auctioneer

SHEPHERD'S SUPERIOR DUROCS

Offering excellent Bred Gilts sired by or bred to Super-Spotlight, Lo Thickmaster, Perfect Trend for latter February and March farrow. Also serviceable boars—big thick, deep bodied, Real Red heavy hammed. Visitors say "Best I ever saw." None better. Registered. Immuned. See these or write before buying elsewhere. Durocs only since 1904. Prices right. G. M. Shepherd, Lyons, Kan.

DUROC BRED GILTS

Also Fall Boars selling privately this winter. Gilts by Topper and Kan Be, bred to Star King for March and April farrow. Husky Fall Pigs by Topper and Kan Be. HAVEN HOLLOW FARM, G. F. Germann & Son, Manhattan, Kan.

DUROC BRED GILTS AND BOARS

All ages, by Top Crown by the Illinois champion Crown Prince. Satisfaction or your money back. Best we ever raised.
BEN M. HOOK & SON, Silver Lake, Kansas

REGISTERED DUROC FALL PIGS

Championship breeding of popular bloodlines. Special on boar pigs during February. Victor H. Goering, McPherson, Kan., 7 m. south, 1 1/2 west.

TENNANT'S PRODUCTION DUROCS

For Sale—Choice gilts bred to Fleet Commander, a son of Fleetling 1947 Jr. Iowa Champion. Some were winners at Kansas Free Fair.
O. A. TENNANT, Manhattan, Kan.

10 TOP BRED BERKSHIRE GILTS

Sell in Two Sales

FEBRUARY 19

County Sale, Clay Center

FEBRUARY 28

State Sale, Hutchinson

Granddaughters of The Bomber and bred to Lincoln Creek Typesetter, Nebraska reserve champion. Broad backed fall pigs, either sex for sale at farm ready to ship.

GEO. D. CARPENTER & SONS,
Clay Center, Kansas

SHEEP

Congratulations to:

DICK T. BROWN

Olathe, Colo.

on receiving the

1948 National 4-H

Club Achievement

Award

and to

Corriedale Sheep



whose performance permitted Dick to surpass the record of any other boy in the nation with any other breed of livestock or any and all crops.

CORRIEDALES not only won Dick The National 4-H Club Championship, the President Truman Silver Service and a \$200 scholarship but they are sending him to college at Colorado A. & M. College, Fort Collins, Colo. Is your boy or girl's college education assured? For Dick's complete story and for information on Corriedale sheep, write ROLLO E. SINGLETON, Secretary American Corriedale Association 100 North Garth Ave. Columbia, Mo.

AUCTIONEERS

BERT POWELL

AUCTIONEER

LIVESTOCK AND REAL ESTATE

1829 Piass Avenue Topeka, Kan.

AUCTIONEERS

Livestock Auctioneer

A number of registered dairy and beef cattle sales booked this fall for breeders and associations. I have sold successful for others—why not you? For sale dates phone or wire me at Rich Hill, Mo.

C. C. "CONNIE" MCGENNIS
Box 116, Rich Hill, Mo.



C. W. 'Bill' Crites AUCTIONEER

Experienced and capable. Farm Sales, Real Estate and Purebred Livestock.

Junction City, Kan.
Phone 1090X



HAROLD TONN Auctioneer and Complete Sales Service

Write, phone or wire
Haven, Kansas



Frank C. Mills, Auctioneer Alden, Kansas

Ross B. Schaulis, Auctioneer
Purebred Livestock, Real Estate and Farm Sales. Ask those for whom I have sold.
CLAY CENTER, KANSAS

Only a few head stayed near Columbia. A fine day brought out a large crowd interested in seeing that the Holsteins sold at good prices. No effort was made to fit the offering. Glen G. Davis, Columbia, was the sales manager. Bert Powell was the auctioneer, assisted by Walker, Harrison and Bowman.

Despite the fact 8 inches of snow had covered South Central Kansas, the SCHLICKAU & OLIVIER BROTHERS annual Hereford sale, held

Kansas Hereford Association Annual Sale



Barney Hereford Ranch, Collyer
Broken Wine Cup Ranch, Marion
P. E. Condit, El Dorado
A. F. Croushaw, Atchison
Paul Courard, Kingman
George Conrady, Kingman
Francis Dodge, Pennington
Jas. M. Dortland, Gorham
Hays Hereford Farms, Cedarvale
C. E. Hepler, Burns
Elihu L. Johnson, Suolan
Kansas State College, Manhattan
Felix and Art Krebber, Elyria
D. J. Krebber, Rt. 3, Hutchinson
Evanth Kichhafer & Sons, Burlington
Linton C. Lull, Smith Center
Lippin Brothers, Jetmore
Miller and Manning, Council Grove
C. C. Moff and sons, Iuka
J. J. Moxley, Council Grove
Oliver Brothers, Danville
Parcel Herefords, Coldwater
Pryor and Brown, Eureka
A. D. Rayl, Hutchinson
Joe Redd, Sahler
Wilfred Schertz, Ellinwood
W. E. Seiden, Hutchinson
Arnon Sell, Royal Hereford Farms, Stafford
Don Shaffer, First Nat'l Bank, Hutchinson
Virginia Smith, Burns
Gary Stevenson Estate, Codell
William Volkland, Bushton
Henry Wauer and sons, Florence
T. L. Welsh, Abilene
O. P. Williams, Elyssa
Arthur Williams, Elyssa
Winzer Herefords, Leon
th M. Wright and Son, Vesper

February 21, 1949

to be held at the State Fair-
grounds in

Hutchinson

Show the morning of the Sale
Sale at 1:00 P. M.

75 Head

For catalog write

A. G. PICKETT, Secretary
Kansas Hereford Association
Kansas State College
Manhattan

Freddie Chandler, Auctioneer
Mike Wilson for Kansas Farmer

The Eleventh Heart of America Aberdeen- Angus Breeders' Assn. Show and Sale

Will be held in the American Royal Building

Kansas City, Mo.—Feb. 24 & 25

(Show 10 A. M. Feb. 25—Sale 1 P. M. Feb. 25)

The consignment consists of 100 head and will include 60 serviceable-age bulls and 40 females selected from the Midwest's most prominent herds, with the nations leading bloodlines represented. Families represented include, Miss Burgess, Zara, Ericas, Blue Ribbon Blackbirds, Prides, Missouri Barbara, Georgina, Rosemere Barbara, Blackcap Bessie and many others.

Catalog may be had by writing to

Secretary, W. Clay Woods
912 Commerce Building
Kansas City 6, Mo.

Auctioneers: Johnston and Sims

Field Representative, Edward F. Moody
736 South Kansas Avenue
Olathe, Kan.

Donald Bowman with this publication

"Attend the Heart of America Angus Week of Sales"

February 26—L. M. Thornton, Garden City, Mo.

February 28—Silver Top Dissolution Sale, Belton, Mo.

March 1—Penney & James Production Sale, Hamilton, Mo.

March 2—North Central Missouri Breeders, Chillicothe, Mo.

March 3—Northeast Missouri Breeders, Memphis, Mo.

THE ANNUAL Round-Up Hereford Sale

Kansas City, Mo.

Monday

February 28

10 A. M.

American Royal Building

202 Head, 181 Bulls, 21 Females

Herd Bulls—Range Bulls—Farm Bulls

Write for Catalog

AMERICAN HEREFORD ASSOCIATION

300 West 11th St.

Kansas City 6, Mo.

In Harper, January 27, was a success. Fifteen bulls, most all calves, made an average of \$310 a head. Rex E. Haggard, of Wellington, paid \$560 for the top bull from the Schillekau consignment. Waite Brothers, of Winfield, were the successful bidders on the top female of the sale, a May 13 heifer, carrying the service of H. C. Larry Domino 50th. The price paid for this female was \$620. The 50 females sold ranged in price from \$190 to \$620 a head.

It's always interesting to receive a letter from LEO BREEDEN, of Great Bend. Leo has one of the good Milking Shorthorn herds of the state, headed by the bull, Robin's Bearelight. Two former bulls were of Griffarm breeding. Mr. Breeden was a wheat grower until about 20 years ago. He bred registered Durocs on the side, but his chief delight was in growing big fields of wheat. A veteran of World War I, he returned to the farm and went thru a series of big and little wheat yields and low prices. In desperation, he undertook and succeeded in breeding dual-purpose cattle as a part of general farming. His first herd bull was Otis Chief, a May & Otis bred bull.

Riley county Duroc breeders met at Manhattan, January 11, and organized an association to be known as the RILEY COUNTY DUROC BREEDERS' ASSOCIATION. The following officers were elected: President, Orville Tennant, Manhattan; vice-president, Albert Linn, Riley, and secretary-treasurer, Fred Germann, of Manhattan. Matters were discussed having to do with the breeding and selling of more and better Durocs. Plans are being made to hold an association sale sometime in April under the management of the secretary.

H. A. ROGERS, Atwood, authorizes Kansas Farmer to announce April 28 as the date for holding the annual NORTHWEST KANSAS HEREFORD BREEDERS' ASSOCIATION sale. Mr. Rogers says the weather is tough out in his section of the state.

LEO F. BREEDEN writes: Please stop my ad. Sold all of the Milking Shorthorns I advertised in Kansas Farmer. The advertisement surely brought results.

Beef CATTLE

Oklahoma--Kansas Hereford Breeders Annual Sale

Thursday, February 17
Blackwell, Oklahoma



61 HEAD: 36 Bulls, 25 Cows
The ninth sale of this group brings from 21 Breeders the best offering in the history of the event.

O-K Herefords (the finest in Northern Oklahoma and Southern Kansas)

Sale at Fair Grounds

For catalog write
Box 230, Blackwell, Okla.

Jesse R. Johnson with Kansas Farmer

REG. HEREFORDS

Bulls 10-24 months old; also a number of bred and open Heifers. Best of bloodlines.

RAY RUSK & SON
Wellington, Kansas

REG. HEREFORD BULLS

Hazlett and WBR Breeding
12 big, rugged bulls from 12 to 14 months old.
WAITE BROS., Winfield, Kansas

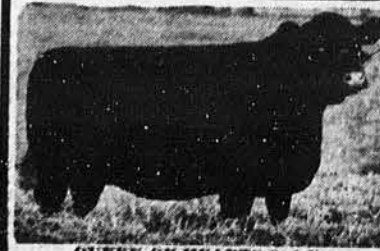
Reg. Hereford Bulls for Sale

We have 2 full brothers of the prize winning Walnut Hill Bonny, a 2-year-old and a yearling. Also some other bulls.
Walnut Hill Hereford Ranch, Great Bend, Kan.

We Offer Polled Herefords

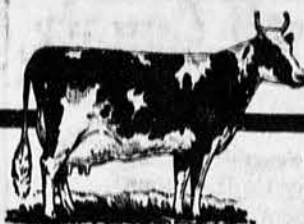
Polled Hereford Bulls of serviceable ages. Also a few Heifers.
GEORGE L. RIFFEL & SON, Hope, Kansas

Mention
KANSAS FARMER
When Writing Advertisers



QUEEN OF HEARTS 2nd X

Dairy CATTLE



The AYRSHIRE is the COW -

That Wears Like Iron

Averaging 10,000 pounds of 4% milk year after year until a ripe old age.

More than 300 Ayrshire cows have produced from 100,000 to 200,000 pounds of 4% milk during their lives, no other breed has so many.

Start now with the breed that is built right and bred right.

Write for booklets or help in locating foundation stock.
AYRSHIRE BREEDERS' ASSOCIATION

200 Center St., Brandon, Vt.

4% MILK

Pabst's Holstein family at
Sunnymede Farm, Topeka

Senior Sire
Pabst Burke Lad Star
Son of "Burke"

Junior Sire
Pabst Burke Ned
Son of "Burke"

Pabst Hickory Creek Roamer
Daughter of Pabst Roamer

Sons of Pabst Burke Lad Star are available

C. L. E. EDWARDS, Topeka, Kan.

GUERNSEY HEIFERS

For Sale



50 Head of High Grade Heifers due to freshen in 30 to 90 days. All Tb. and Bang's tested.
Also a nice selection of Guernsey bulls.

W. L. SCHULTZ
Hillsboro, Kansas

Home Farm Dairy

Offers for sale on account of shortage of hay, 14 pasture-bred grade Guernsey first-calf heifers, starting to calve the first of March. This is an excellent group of heifers in good condition.

FAT CHESTNUT, Phone 8F55, Denison, Kan.

REGISTERED GUERNSEYS

Since 1906 High Production. Correct Type. Popular Bloodlines.
Ransom Farm, Homewood (Franklin Co.), Kan.

Beef CATTLE

PENNEY and JAMES
Seventh Annual Draft
Sale of Aberdeen-Angus

Sale at farm just east of

Hamilton, Missouri

Time 12:30 P. M. on

March 1, 1949

The Sales Offering: 49 Bred Heifers carrying the service of Eileenmere 487th, Eileenmere 999th, Envious of Hamilton, Envious Burgess H., Homeplace Eileenmere 72nd, 7 Open Heifers and 9 Bulls, 9 of them sons of Eileenmere 487th. The usual high quality that has prevailed in the past Penney & James' sales will be offered. For catalog address:

J. B. McCORKLE, Sales Manager,
Suite 3710 A.L.U. Bldg., Columbus, 15, Ohio

POLLED SHORTHORN BULLS

This farm has bred and consigned 2 Grand Champions, 2 Reserve Champions, and 2 highest-selling cattle for the 3 annual Kansas State Polled Shorthorn sales.

Miller Stock Farms, Mahaska, Kan.

Polled Shorthorns for Sale

Offering Bulls, Cows and Heifers. We offer 80 Bulls, a few of serviceable age. Few bred cows and open females. Officially vaccinated. Remember—some of the best, newest blood that has made big money in Polled Shorthorn History. Our greatest herd sires are "Cherry Hill Halmark" and "Red Coronet 2nd." Champion female and top-selling bull at the Kansas State Show and Sale was sired by "Cherry Hill Halmark" and dam sired by "Red Coronet 2nd." (Herd established 1907)
Location—we are 22 miles west and 6 miles south of Hutchinson, Kan.

J. C. BANBURY & SONS
Plevna, Kansas

Phone 18F2

Marshall County Hereford Assn.

Show 9 A. M.
Sale 12:30 P. M.

March 7, 1949
Marysville, Kansas

A Production Sale
Top from 18 Good Herds

65 Head Reg. Herefords—Horned and Polled
55 Bulls --- 10 Females

Consignors:

Ronald M. Baker, Marietta
Frank Sedlacek, Bremen
Berhardt Dettke (Pld.)
Marysville
Valdemar Hanke, Waterville
A. Hawke, Bigelow
Lowell & Barclay, Marietta
Robert R. Mayer, Marysville
M. Newman & Son (Pld.)
Axtell
Edw. J. Sedlacek, Marysville

Don Breeding, Herkimer
Fred Osterkamp, Waterville
Elmer Peterson & Son,
Marysville
Jervis Rowe (Pld.), Marysville
E. O. Rasmussen, Vliets
Henry Sedlacek, Marysville
Harold Stump, Blue Rapids
Jos. F. Sedlacek, Frankfort
Hugo Vogler & Sons,
Waterville

For catalog write:

ELMER E. PETERSON, Sec.-Treas., Marysville, Kan.
Freddie Chandler, Auctioneer Judge from Kansas State College

Marshall County Hereford Association

Jesse R. Johnson or Mike Wilson

Announcing

THE OLD RELIABLE HEREFORD ASSOCIATION SHOW and SALE, FEBRUARY 10 & 11 Grand Island, Nebraska

(Harry's Sale Pavilion) Sale February 11 at 12 Noon

100 HEAD

83 Bulls including some top herd-bull prospects, as well as excellent bulls for farmers and ranchers. A number of coming two year olds.

17 Females, cows and heifers, including some select open and bred heifers and cows with calves at foot.

Among the attractions there will be 20 Polled Bulls (all but 3 calved in 1947).

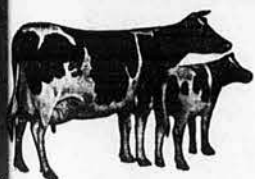
Offering picked from leading Nebraska herds.

For catalog address

CLARE CLEMENT, Sale Mgr., Ord, Nebraska

Auctioneer: Charles Corkle

Jesse R. Johnson with Kansas Farmer



Holstein Dairy Cattle Sale

100 Head of Cows and Heifers

I will sell at public auction at my farm on
Highway 69 at 85th St.,

Overland Park, Kan.—Wednesday, February 16

at the south edge of Kansas City
(Sale starts at 1 P. M.)

- 22 HEAD COWS, fresh and very close springers, extra large, 6-7 gal.
- 30 SPRINGER HEIFERS, 1,000 to 1,200 lbs., fresh inside of 30 days.
- 25 BRED HEIFERS to freshen in September or October, 800 lbs., extra good.
- 3 BULLS, 1,000 lbs. each.

This is a very outstanding herd of Holsteins

Calfood vaccinated. If you want cattle of high production, attend this sale.

Sale Under Cover — Lunch Served

HUGH WHITE (Owner)

Phone: Hedrick 2352, Kansas City, Kan.

WISCONSIN'S CHOICE HOLSTEIN CALVES

• Fine selection of beautiful Wisconsin Holstein heifer and bull calves. Fifty on hand at all times. Registered. Well started, no milk required.

Send for Pictures and Price List.

J. M. McFARLAND & Son

SMOKY VALLEY HOLSTEINS

OFFERING HIGH PRODUCING COWS.
Leading Bloodlines.
W. G. RIRCHER & SONS, Ellsworth, Kan.

BULL CALVES FOR SALE

We bred and developed the first and only Holstein cow in Kansas to produce 1,000 pounds of fat in 365 consecutive days. Young bulls with high production dams or granddams.

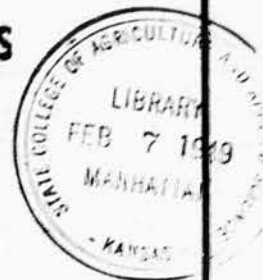
H. A. DRESSLER, LENO, KAN.

U. S. Center Aberdeen-Angus Breeders' Association Fourth Annual Show and Sale

Registered Angus Breeding Cattle
Smith Center, Kansas—Tuesday, February 22, 1949

Show 9:00 A. M. — Sale 1 P. M.

24 Bulls --- 61 Females



These cattle are consigned by 23 of the leading breeders of Southern Nebraska and Northern Kansas. For catalog write:

LEONARD PATMAN, Secretary, Smith Center, Kansas

Judge, Don Good, Manhattan, Kansas

Ham James, Auctioneer

Mike Wilson for Kansas Farmer

L. M. THORNTON ANGUS FARMS PRODUCTION SALE

Saturday, February 26

Sale held at farm located 5 miles south of highway 35 at

Garden City, Missouri

or 8 miles east of highway 71 at ARCHIE, MISSOURI

SELLING 50 HEAD—12 Bulls and 38 Females

The Sales Offering: The 12 Bulls are ready for service and are hand-leading material. These bulls are the kind critical buyers will like. 24 Females consist of Pure and Open Heifers. Selling sons and daughters of Epic Rosewood and Edgewater 107th. Epic Rosewood sired the \$5,000 1946 Heart of America grand champion—a full brother bull. Edgewater 107th sired the \$2,000 1947 Heart of America grand champion—brothers and sisters sell. We also sell sons and daughters of Ben Erie 5th, Repeater of Wheeland 11th and Bell Boy 8 1/2th. Special Attraction—Selling 2 daughters of Black Prince of Sunbeam and heifer calves.

If you can use a top quality herd sire or more foundation females, attend this sale.

For sale catalog write L. M. THORNTON, 2825 East 28th St., Kansas City, Mo.

L. M. THORNTON ANGUS FARMS, Garden City, Mo.

Heart of America Sale Circuit: February 25—Heart of America Assn., Kansas City, Mo.; February 26—L. M. Thornton, Garden City, Mo.; February 28—Johnston Brothers' Show Farm, Belton, Mo.; March 1—Penny & James, Hamilton, Mo.; March 2—North Central Missouri Assn., Chillicothe, Mo.; March 3—Northern Missouri Assn., Memphis, Mo.

Dissolution Sale of the SILVER TOP FARM'S ABERDEEN-ANGUS HERD

Sale will be held at the Johnston Brothers' Farm near
BELTON, MISSOURI, on FEBRUARY 28, 1949

(Sale at 10:00 A. M.)

150 HEAD OF PUREBRED ABERDEEN-ANGUS WILL SELL

A Very Desirable Sales Offering: (1) The sale, get and service of Edgewater 69th, No. 79407, considered by many to be the best son of Edgewater 45th. (2) The sale, get and service of Edgewater 64th, No. 78746, one of the best bred bulls in service today and a grandson of Black Prince of Sunbeam. (3) The sale and service of Grandfather 2nd of Deer Creek, No. 78102, an immensely popular bred bull from a Bandolier of Archer 5th dam. (4) 20 Young Bulls, many are herd sire prospects. (5) 8 Imported families including 2 Ballinlough Georginas, 1 Gairner, 1 Wood of Emory, 1 Ballinlough Tom, 1 Lucy, 1 Miss Burgess, 1 Fudge of Aberdeen, (6) Also selling are 12 Blackcap Bessies, 4 Ballinlough Charmers, 4 Wood of Emory Miss Burgess, 6 Ballinlough Georginas, 8 Fudge of Aberdeen, 24 Wood of Emory, 3 Ballinlough Jims and 48 other females all from standard families. (7) Many cows with calves at side and rebred. (8) Bred heifers and open heifers. (9) Of course, all the cattle from the show herd sell.

For sale catalog write to J. R. McCordle, Sale Manager, Suite 3704 A. L. U. Bldg., Columbus 15, Ohio, or Johnston Brothers, Belton, Mo.

JOHNSTON BROTHERS, BELTON, MISSOURI

ROY G. CHESTER, S. and NOAH E. T.

Sale Headquarters: Phillips Bldg., Kansas City, Mo.

Heart of America Sale Circuit: February 25—Heart of America Assn., Kansas City, Mo.; February 26—L. M. Thornton, Garden City, Mo.; February 28—Johnston Brothers' Show Farm, Belton, Mo.; March 1—Penny & James, Hamilton, Mo.; March 2—North Central Missouri Assn., Chillicothe, Mo.; March 3—Northern Missouri Assn., Memphis, Mo.

Polled Shorthorns

Bull Calves, 6 to 18 months old. Nice reds and roans, sired by Alpine Charmer and Royal Robin. Bred right, priced right. Come and see them.

Harry Bird & Sons, Albert, Kansas

REGISTERED SHORTHORNS

Bulls — FEMALES — 4-24 Cows
C. R. BAILEY, Newton, Kan.

Saddle Horses: Palomino, golden pinto, black and show prospects.

Jersey Bull Calves: One to three years, American bred, by Blue Star Sires. Well bred for healthy butters, any breed.

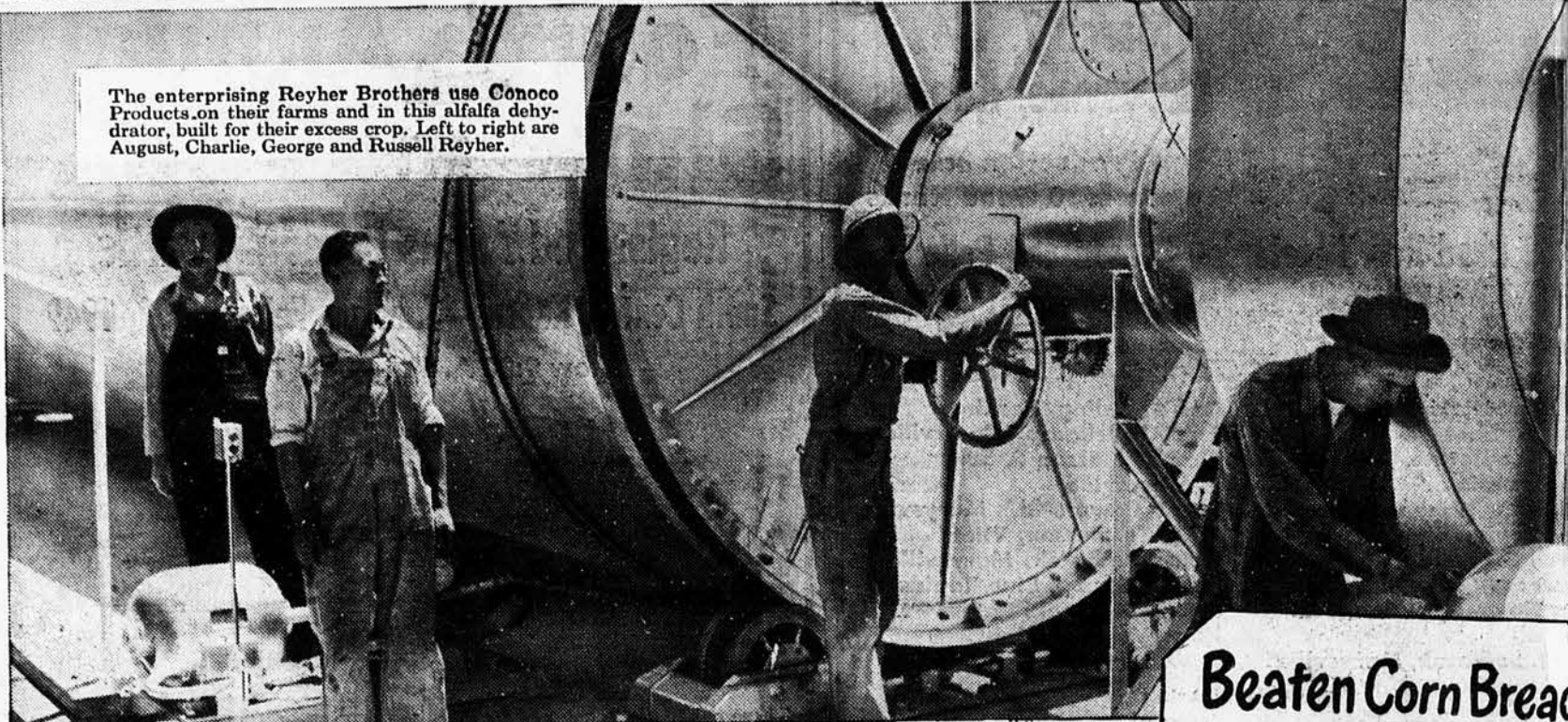
Wes. Coal & Smith, Sugar Hill, Ind. Farm Smithing, Kansas

PUREBRED JERSEYS

Cows and Heifers
BARBARA BARBER, Blue Hill, Kan.



The Tank Truck



The enterprising Reyher Brothers use Conoco Products on their farms and in this alfalfa dehydrator, built for their excess crop. Left to right are August, Charlie, George and Russell Reyher.

More than Turkeys Could Eat!

The problem facing the Reyher Brothers was what to do with all that alfalfa. There they were—raising turkeys by the tens of thousands—and suddenly they had far more alfalfa on their farms than they knew what to do with.

The brothers, Charlie and George Reyher, have for years prosperously farmed in the Arkansas River valley near McClave, Colo. Turkeys for holiday dinner tables were their chief crop—Charlie has grown as many as 32,000 in a single year. To develop these birds, The Reyhers raised their own feed—alfalfa, corn, barley and wheat. But then the alfalfa fields began to produce far more than was needed just for their own feedings.

With the familiar enterprise of all American farmers, the Reyhers set to work to do something about it. They built their own alfalfa dehydrator.

"When we started farming," George

Reyher reports, "we were using several different kinds of oils. We had one tractor that used Conoco's oils and greases, and we found that the repair bills for this tractor were 75 per cent less than for any of the other tractors!

"That experience . . . taught us a darn good lesson. . . . When we can cut our repair bills 75 per cent by using Conoco Nth Motor Oil and Conoco Greases, that's a sound investment."

Using Conoco Nth Motor Oil can be a sound investment for you, too! Because there's an exclusive added ingredient in Conoco Nth that fastens an extra film of lubricant right to the working parts of tractor and truck engines—actually OIL-PLATES them. This OIL-PLATING protects engines from metal-eating combustion acids—from carbon and sludge due to wear. Change to Conoco Nth Motor Oil—and save!

Best For Every Farm Use!



"I can recommend Conoco oils and greases as the best for all farm purposes," says Bert Wynn, R. 2, Lamar, Mo. "I own and operate 350

acres of Barton County land, and have used Conoco Products for the last 10 years. I have a 12-year-old Allis-Chalmers WC that has been used early and late—has had lots of hard service. . . . We have never had any trouble with the transmission or differential of this tractor. I am well pleased, too, with the service I get from Conoco Agent Guy Ross of Lamar." Why don't you take a tip from Mr. Wynn—change, now, to Conoco Products—"The Best for All Farm Purposes."

Nth Always on the Job!



It's surprising how many farmers take the time to write in about the good service they get from Conoco Products. Like this letter from Carl S.

Thorne, Lehigh, Iowa. "Dear Sirs:" he writes, "Just a word about the Conoco Products supplied me through Ivan Skoglund, your Conoco Jobber out of Dayton, Iowa. I operate 2 Farm-all tractors, combine, corn-picker, plow, and disc, and have a 1936 Plymouth. . . . Conoco Nth Motor Oil's OIL-PLATING—always on the job, day and night, summer and winter—has kept my tractors running in perfect condition at all times."

Beaten Corn Bread



... By Mrs. A. C. LINDSAY, San Antonio, Tex.

- 1 1/4 cups corn meal
- 1 t. salt
- 3 T. butter, melted
- 1 cup sweet milk
- 2 eggs, well beaten
- 2 1/2 t. baking powder
- 1 cup boiling water

Mix cornmeal, salt and melted butter in mixing bowl. Add boiling water, beating vigorously as added. Continue to beat until smoothly blended. Cool to lukewarm, beating occasionally to cool evenly. Blend milk and beaten eggs, and stir in; then beat again. Sprinkle baking powder over top, and beat sufficiently to blend. Bake in well greased 8" x 8" x 2" pan in 350° F. oven 45 minutes. Cut into squares and serve hot.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Conoco Cafeteria, Ponca City, Okla. Get a \$7.50 pair of genuine Wiss Pinking Shears for each recipe printed here with your name. If duplicates are received, the one selected will be determined by Mrs. Wheeler. All recipes become property of Continental Oil Company.

FARM KITCHEN

Fence Post Fasteners

Used harrow teeth, set into the base of fence posts, will keep the posts from pulling out, according to Chas. E. Newman, R. 1, Minco, Okla.



Galoshes Markers!

Do your youngsters lose their galoshes? Mark them the way suggested by A. J. Rosenbaum, Charlo, Mont.—cut an initial in a tire tube patch—"patch" it to the rubber.



PRIZES FOR IDEAS



Send your original idea to The Tank Truck in this paper—and win a genuine \$8 D-15 Hand Saw or every idea that's prize-winning.

YOUR CONOCO AGENT