Kansas Farmer





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IT TAKES perfect tractor tire performance to win a national plowing match. The top-notch plowmen in this country have learned that through experience. That's why the winners in all three national matches at Big Rock and Wheatland, Illinois; and Dexter, Iowa chose Firestone Champion Ground Grip Tractor Tires.

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THE FIRESTONE TIRE & RUBBER COMPANY

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Los Angeles, California

Lamb Shortage:

ANSAS farmers attending dist
lamb and wool schools this wil
will be asked to help boost U
lamb production 2 million animals o
1948 production.
This year will

1948 production.

This year will mark the 20th consutive year these co-operative eductional district schools have been he According to C. G. Elling, Kansas Sta College Extension specialist in anim husbandry, he will be assisted in the schools by A. M. Paterson, secretary American Royal, and by Glenn Thacke field manager, Midwest Wool Marke ing Cooperative.

Some increase in lamb production can be obtained, farmers will be to thru extra efforts in saving a high percentage of lambs born and by using good feeding practices.

Thá

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Carries

bolt Fits ar

Elevate fork. Tops

Loads

EC

percentage of lambs born and by use good feeding practices.

The feed situation is good, with abundant supply of roughage, but la of fall cereal pastures will be felt. I falfa hay, fed to ewes at the rate of pounds a day, will bring good results a substitute for winter pasture; sa Mr. Elling.

Mr. Elling.

Protein concentrates, fed at the m of 1 to 4 pounds daily, are excellent the absence of some kind of green gn ing. One-half to 1 pound of grain is per ewe daily also is a good practice.

per ewe daily also is a good practs
Mr. Elling states.

The various district and state lat
and wool schools will be held as i

lows:

January 3, Marysville; January
Hiawatha; January 5, Ottawa; Ja
uary 6, Girard; January 7, Yates Ce
ter; February 7, Hill City; February
Colby; February 9, Scott City; Febr
ary 10, Garden City; February 11, Ul
ses; January 19, Beloit; January 1
Abilene; January 21, Topeka; January
25, Great Bend; January 26, Gree
burg; January 27, Hutchinson; Ja
uary 28, El Dorado. May 4-5, (stat
Wichita; May 12-13, (state) Kans
City; May 18-19, (state) St. Joseph.

More Purebreds

Purebred livestock is on the increasin the U.S. Last year nearly 1½ m lion pedigrees were registered by his stock associations, an increase of 5 per cent over 1946.

cent over 1946.

Cattle registrations totaled nearly million animals, while swine were new third with 114,000, in the face of a deline in commercial sheep populated during recent years.

Despite the increase, officials of the National Society of Live Stock Record Associations, representing 80 livestor registry associations, believe a multiple wider use of registered sires in commercial herds and flocks, together with an increased production of purebra animals, is needed if farms of this country are to meet the expanding demands

In the Feed Lot

Shipments of stockers and feede into the Corn Belt in October was up per cent over last year. The avera steer for feed lot, however, cost 8 more than a year ago. Numbers sheep and lambs likely to be fed of may hit the lowest mark in 20 year

Senator Capper on Radio

Every Sunday afternoon at 3.5 o'clock Senator Arthur Capper discusses national questions over WIB radio station.

KANSAS FARMER

Continuing Mail & Breeze Topeka, Kansas

Vol. 86, No. 1

Vol. 86, No. ARTHUR CAPPER H. S. BLAKE Raymond H. Gilkeson Dick Mann Edward W. Rupp Florence McKinney Dr. C. H. Lerrigo Mrs. Henry Farnsworth Jesse R. Johnson Mike Wilson Li J. M. Parks Roy R. Moore Adv. W. Wohlford Cir.

General Mana Associate E
Associate E
Women's E
Medical Depart
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Member: Audit Bureau of Circulations, ricultural Publishers Association, Natio Publishers Association.

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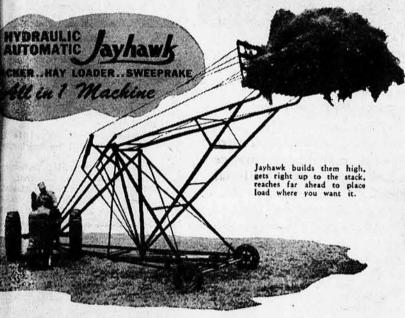
Great FARM IMPLEMENTS

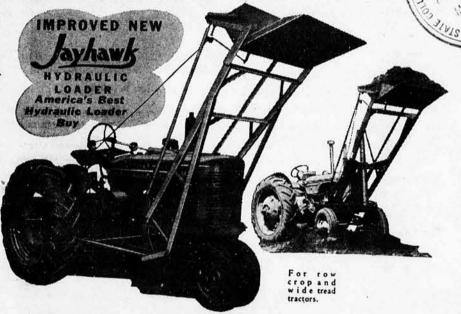
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And Do More Work for Less Money . . . Reduce Wear and Tear on Your Tractor . . . Soon Save Far More Than The Small Difference in Cost

ach of the hydraulic Jayhawk implements described below is designed nd engineered to do its own specific farm jobs better and cheaper. Used . . cost less to operate and maintain . . quickly prove a more abund. dividually these implements will do more work at lower cost than any 1-purpose machine on the market. You use only the one needed

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tor. Won't upset tractor.

Attaches, detaches from simple hitch with 9. No hydraulic pump required on tractors bolt . . in 2 minutes.

Fits any tractor.

be tol

Elevates hydraulically to 21 feet at base other uses. fork. No push off required.

Tops out stacks 25 feet high.

Loads wagons faster.

Carries load on its own wheels, not on 8. Feeds livestock, fills barns, hay sheds, has 1. Simplified, more practical design. many other uses.

> having built in pumps. Otherwise pump furnished is a tractor accessory with many

10. Lower priced than any similar machine. Costs less to operate, maintain.

Sweeps from SWATH, windrow or bunch. 11. Pays out as a sound investment on small as well as large acreages.

Loads Wagons, Stacks . . . Easier, Costs Less To Own . . . Operate . . . Maintain Has Automatic Load Leveler And All These Other Farm Proved Features

- 2. No framework above tractor.
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- 5. Attaches, detaches in 3 minutes.
- 6. Has single over-sized precision machined cylinder.
- leveler permits capacity loads without spilling. tised, nationally known.
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- 9. Lower priced than any comparable machine.
- 10. 20-foot Hay Crane, 3-way Bulldozer, Snow Scoop and Sweeprake attachments at
- 7. Famous Jayhawk patented automatic load 11. Nationally distributed, nationally adver-

The Jayhawk Hydraulic Loader Fits All These Tractors ROW CROP (Model C) STANDARD TREAD (Model W)

Farmall 20, 30, H, M, C, Reg.; Oliver 60, Case DC4, L, LA, D; Minneapolis-Moline 70, 80, 77, 88; Massey-Harris 101Jr, 101Sr, UTS, UTI; John Deere D; Oliver 70 81, 20, 30, 44; John Deere A, B, G, GM, Standard; IHC W6, WD6, W9, WD9, H; Case CC, DC, SC, VAC; Allis-Chal-OS6, W30; Massey Harris 44, 55.

mers WC, UC, WD, C; Minneapolis-Others Being Added.

Others Being Added.



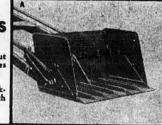


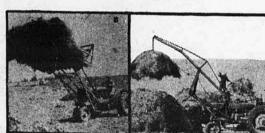
Co-op E3; Gamble 30; Avery A. HYDRAULIC LOADER ATTACHMENTS AVAILABLE AT LOW COST

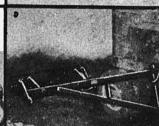
Snow scoop attachment quick-bolts to top and sides of reg-tracoop.

C. 20-foot hay crane bres stacks, fills feed racks, bales, loads, unloads was

B. Sweeprake attachment has full 9-foot fork. Extension arms avail- ly bolts to loader arms with able.



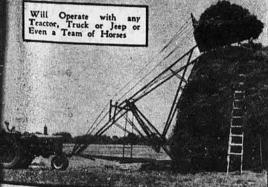




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Farm Folks to Topeka

For Annual Board of Agriculture Meeting

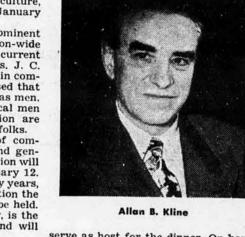
By GENE SPRATT

ANSAS agriculture, present and future, might well be the theme of the 78th annual meeting of the Kansas State Board of Agriculture, when it convenes in Topeka, January 12-14, 1949.

During the 3-day meeting, prominent agricultural authorities of nation-wide fame will be present to discuss current and anticipated farm problems. J. C. Mohler, secretary of the board, in commenting on the program stressed that many of the soeakers are Kansas men. All too ofen, Mohler stated, local men who win widespread recognition are not fully appreciated by home folks. Registration, appointment of committees, reading of minutes and general organization of the convention will take most of Wednesday, January 12. As has been the custom for many years, on the first night of the convention the "Get-Acquainted" dinner is to be held. Bowman H. Hewett, Coldwater, is the 1948 president of the board and will During the 3-day meeting, prominent

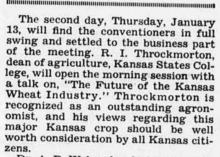
1948 president of the board and will

Dean R. I. Throckmorton



serve as host for the dinner. On hand, to give a word of welcome to the many farmers and legislators who will be in attendance, will be Governor Carlson and other dignitaries, including six 4-H winners of national honors. Dr. John Ise, professor of economics, Kansas University, will be the principal speaker of the evening.

WIBW radio station will broadcast speeches made at this Board of Agriculture meeting by tape recording.



zens.
Dr. A. D. Weber, head of the department of animal husbandry, Kansas State College, also will be on hand Thursday to discuss "Grass Utilization," and particularly tell about the grass experiments that have been conducted at the Kansas Experiment Stations during the past year. Since Kansas is the home of the Bluestem Hills, one of the most famous grassland re-

sas is the home of the Bluestem Hills, one of the most famous grassland regions in the world, this subject will be of interest to agricultural leaders.

Another crop that is helping to combine industry and Kansas agriculture is sorghums. The Ft. Hays Experiment Station has carried out a great number of sorghum experiments during the last few years, and A. F. Swanson, federal agronomist, has been supervising all of this work. "Sorghum—Its Production and Utilization," will be Swanson's topic, and particularly the farmers from Western Kansas will want to make this talk a must on the program.

Thursday afternoon will find George



Governor Frank Carlson



D. Scarseth, director of research, American Farm Research Association, discussing "Good Farming and Free-dom."

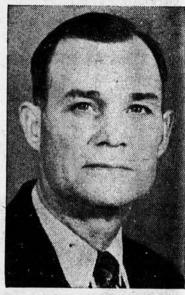
In the modern world, Kansas people, In the modern world, Kansas people, as well as any thinking Americans, are aware that what happens in relatively remote localities can have a direct bearing on the agricultural and business policies that should be followed right here in the heart of Midwest America. Keeping this in mind, the talk, "Factors Affecting our Agriculture," by Allan B. Kline, president, American Farm Bureau Federation, should be one that is of high interest to all Kansas people.

should be one that is of high interest to all Kansas people.

The future of farming in Kansas and America could summarize the talks that will be given on Friday, January 14. "New Insecticides and Their Uses," starts the morning session. Dr. Roger C. Smith, head of the department of entomology, Kansas State College, will express his views on the products that now are common household terms, as well as hint at the many new creations having properties that seem almost impossible. Weed control and eradication has been another field where science, coupled with enterprising agriculture, has made tremendous strides in the



J. C. Mohler



B. H. Hewett

last few years. T. F. Yost, state wee supervisor, Kansas State Board of Agriculture, will present a talk on this "Progress in Weed Control Work," am summarize the effectiveness of the Kansas noxious weed law since its passage 11 years ago.

The final morning talk will find Serator Riley W. MacGregor, chairman of the highway committee, that was appointed by the governor, telling about "State Highway Planning."

Kansas people are noted for their appreciation of efficient work in whatever field of endeavor it happens to be. Finday afternoon, January 14, the agricultural leaders of the state will show the appreciation by honoring Senator Afternoon of the state will show the appreciation by honoring Senator Agricultural states.

tural leaders of the state will show the appreciation by honoring Senator Arthur Capper, awarding him a plaque for his years of service in public office Particularly the plaque will be to proclaim their gratitude for his undying battle in agriculture's behalf, not only for better farming in Kansas but America and the world. It is the farmers of Kansas saying, thanks, for a job well done.

The rest of Friday afternoon will be devoted to final business concerning the convention delegates, election of board members, passing on resolution and other unfinished business.



T. F. Yost



A. F. Swanson



Dr. Roger C. Smith



George D. Scarseth

ound

crop

1, 1949

What About Fertilizer?

llege Lists Recommendations, Industry Makes Suggestions

By ED RUPP

OW are we getting along on our plant-food program in Kansas? A critical glance was cast at that gram during a fertilizer conference in Manhattan in mid-December. It a meeting attended by about 60 esentatives of the fertilizer indus-

resentatives of the fertilizer indus-It was arranged by crops and soils of Kansas State College, uring the conference college men re-wed fertility experiments conducted ing the last few years over the state, ey outlined general recommenda-as for use of fertilizer based on those riments, and discussed some reriments, and discussed some ch programs they have in mind for future.

fter those presentations men of the lizer industries were given an op-unity to place their own evaluations as work that had been done, and to suggestions of experiments they like to see carried out in further rch work

Thru several district meetings over the state, these general recommenda-tions as stated at the industry confer-ence were distributed for the use of county agents in making recommenda-tions directly to farmers.

you confused about the use of e you confused about the use of izer? How much to use and what If you are it is not surprising. It omplex problem—just as complex rsoil. And it tends to become even complex after succeeding crop. Each crop, whether grain, formeat, removes more plant food the soil. Soil fertility is decreased, lic matter is consumed and soil. nic matter is consumed and soil-ture changes become apparent. ore experiments are necessary to up with the changing problems.

Dr. H. E. Myers, head of the agron-omy department, outlined general crop fertility recommendations for the state, largely the eastern half. The main need in alfalfa fertilization is phosphate. Us-

More Pigs

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Kansas farmers intend to raise more pigs next spring than last year, according to the office of Hubert L. Collins, federal-state statistician for Kansas.

Spring-farrowing intentions are

Spring-farrowing intentions are listed at 175,000 sows, compared to 146,000 for 1948, and 170,000 for

The 1948 fall pig crop also was up from 1947. Farmers farrowed 109,000 sows in 1948 (June 1 to December 1) compared to 101,000 for 1947. The 1948 pig crop was 713,000, compared to 661,000 in 1947. Nationally, reports on spring breeding intentions indicate a decrease of 11 per cent from last year and 8 per cent less than the 10-year average.

ag superphosphate the crop should ave between 30 and 40 pounds of availble phosphate an acre. That would require 150 to 200 pounds of 20 per cent. In the eastern third of the state rock hosphate can be used successfully with italfa and other legumes. The rate of pplication should be 1,000 pounds an are ahead of seeding. In some soils of the state Kansas some potash may be eccessary. ary

tho alfalfa manufactures its own ogen, there is a place for nitrogen lizer when seeding alfalfa. Twenty ads of available nitrogen, or about ounds of ammonium nitrate, can assure a better stand and will pretyellowing of the young crop.

Vheat was named as one of the eascrops to fertilize. It responds well pays back the fertilizer costs with ked regularity. Main requirements phosphate and nitrate. Nitrate is ded if the ground has not been in ames 3 or 4 years preceding wheat. Sphate should be applied before or seeding time. Top-dressing with nite received the nod of approval if apdearly. Early means before March. Doctor Myers pointed out there is danger involved applying nitrate at a of seeding. In some experiments, it applications of nitrate looked od. In these cases some nitrate was

applied with phosphate at seeding time, more was used as top-dressing in win-

Corn in Kansas is the trouble crop when talking fertilizer. It requires both nitrogen and phosphate, with nitrogen being most important. Strangely, corn in good ground responds to nitrate treatments. Not so with corn on poor ground. The difficulty seems to be in soil structure. The physical condition of the soil prevents utilization by the plants of the added plant food even the plant food naturally is low. In general, the main recommendation for corn is good-cropping practices. That means legumes in regular rotation. And stand of corn, too, is important. High yields of corn are impossible unless the stand is thick enough in relation to available plant food.

Other grops were treated more gen in Kansas is the trouble crop plant food.

Other crops were treated more generally. Flax responds to good crop prac-

Save Baby Chicks

Are you ready for baby chicks? The Hendriks Method of Feeding Baby Chicks eliminates guessing. This method has been worked out and proved. Instructions are simple to follow. Kansas Farmer's Bulletin Service, Topeka, will have a copy of the leaflet sent upon request. Price 3c.

tices as do soybeans. Again, that means legumes in rotation. Grasses should have 30 to 40 pounds of available phosphate prior to or at time of seeding. Then after grasses are established applications of from 60 to 100 pounds of available pitrogen are recommended. plications of from 60 to 100 pounds of available nitrogen are recommended for each acre. In brome grass seed production, for example, increased yields make the practice economical. For improved forage production, the farmer must be able to utilize the added forage to make money out of fertilizer application on grasses. cation on grasses.

Lespedeza requires about 25 pounds of available phosphate, or 120 pounds of 20 per cent. Oats, particularly after sorghum, need nitrogen. Sweet clover requires up to 200 pounds of 20 per cent phosphate. And the main requirement for lawns is nitrogen.

for lawns is nitrogen.

When representatives of the fertilizer industry were given their inning, some interesting possibilities were brought to light in the use of fertilizer. T. L. Adcock, with Swift and Company, reminded the men that elements in our soil are not inexhaustible. Maybe we do not need potash for the most part in Kansas. But he warned that we are

and it too can become deficient.

Mr. Adcock reminded the men that the same thing holds true in the case of trace minerals. Some experiments have been conducted in Kansas on the lise of horon and magnesium with alhave been conducted in Kansas on the use of boron and magnesium with alfalfa. Additions of boron in some cases in Southeast Kansas resulted in a 3 per cent increase in the second cutting of alfalfa. Mr. Adcock complimented college agronomists for keeping an eye on trace mineral necessities, even tho initial experiments have not been extremely successful.

Not Enough Used

Judd Wolfram, with Anaconda Copper Mining Company, called attention to what probably is one of the most serious abuses in the use of fertilizer—not putting on enough. Applying 80 pounds of 4-16-0 on wheat is just as crazy as hunting jackrabbits with a BB gun and a salt shaker, he said. Don't use less than 150 to 200 pounds, he cautioned. He set up the figure of 30 pounds of available phosphate an acre as the minimum in one year for wheat.

J. L. Mealy, with the Thomson Phosphate Company, held with the college recommendation of 1,000 pounds of rock phosphate an acre. At the same time he pointed out he would like to see some experiments with rock phosphate

some experiments with rock phosphate in relatively light concentrations applied with seed.

The college recommends the use of rock phosphate only for the eastern one third of Kansas, and then only in good crop rotations, preferably with legumes. The reason is that rock phosphate is not immediately available. Acid action of soil is required before it becomes available to many plants. But Mr. Mealy pointed out that Colorado Mr. Mealy pointed out that Colorado had performed some experiments with rock phosphate in alkaline soil and had good results.

Apparently the most limiting factor in our agricultural research work in Kansas is the lack of funds. John Patterson, with Spencer Chemical Company, pointed this out to the fertilizer men. In open discussion, Mr. Wolfram re-emphasized that point. He encouraged men of the fertilizer industry to

stimulate legislative action for more research money so the college can carry out experiments on a wider scale. Much research work now is dependent on the goodwill of fertilizer companies.

As time flies by more research work is needed, not less, to keep in pace with changing soil conditions. H. L. Garrard, with the American Potash Institute, pointed that out. Even starting with the same soil types 50 years ago, two fields will present different problems now because of the different farming operations carried on in the past, he stated. He believes we are approaching the time when each farm will need individual treatment, rather than treatment according to experiments per-

individual treatment, rather than treatment according to experiments performed in the locality.

Discussing results of fertilizer demonstrations in Southeast Kansas, E. A. Cleavinger, Extension agronomist, presented 2 fertilizer plans. One he calls the fertilizer budget. In this budget the first crop to fertilize is legumes. If the farmer can afford to spend more money than is needed to fertilize legumes adequately, the next crop to receive additional plant food should be small grain. After that, he listed pastures as third in the line of preference and finally row crops. crops.

Two Jobs to Do

The fertilizer program can be divided into 2 main headings, fertilizing the soil on a long-time investment basis and fertilizing the crop for immediate return. Under the investment basis he listed lime and raw rock phosphate. Both of these will improve the condition of the mineral storehouse in the soil. For immediate returns thru increased yields he suggested available phosphate, nitrate, potassium.

This program brings to mind the wellworn comparison between the bank ac-The fertilizer program can be divided

This program brings to mind the well-worn comparison between the bank account and plant food in the soil. Taking crops off the land is like taking money out of the bank. If you intend to continue taking money out of the bank, some must be put back in. If you intend to take crops off the soil year after year, some plant food must be replaced in time. The main difference between the two practices, however, is this: Usually we do not wait for an "overdraft" notice from the banker before making another deposit. Too often with our soil, the "O.D." warning is received before we begin replacing plant food. we begin replacing plant food.

Kansas Crops At a Glance

WHEAT: 1948 yield, 231,368,000 bushels; third largest on record: 1949 wheat acreage is estimated at 15,805,-000 acres, an 8 per cent increase over 1948, and the largest since 1937. Estimated 1949 wheat production is 237,-

075,000 bushels, based on December 1, 1948, condition of 82 per cent normal CORN: 1948 yield, 81,304,000 bushels; more than double the 40,443,000 bushels in 1947, and the largest crop since 1944. This huge crop was grown on only 2,498,000 acres, the smallest acreage since 1938. The only other smaller acreage on record was in 1876. You remember 1917 was the largest corn acreage year with 9,156,000 acres. The 1948 average corn yield of 33.5 was the largest since the 1889 yield of 35.5 bushels.

GRAIN SORGHUMS: 1948 yield, 26,576,000 bushels, the second largest crop on record. Sorghum forage production of 1,584,000 tons compares with

duction of 1,584,000 tons compares with 1,385,000 tons in 1947.

OATS: 1948 yield, 26,312,000 bushels, compared with 40,455,000 in 1947.

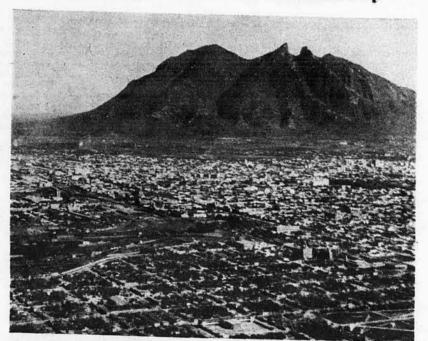
BARLEY: 1948 yield, 6,878,000 bushels, 8 per cent higher than 1947, but only 57 per cent of 10-year average.

SOYBEANS: 1948 soybean yield, 2,505,000 bushels, compared with 1,-887,000 in 1947 and the record of 2,534,000 bushels in 1944; the 1948 average yield of 15 bushels an acre was highest on record.

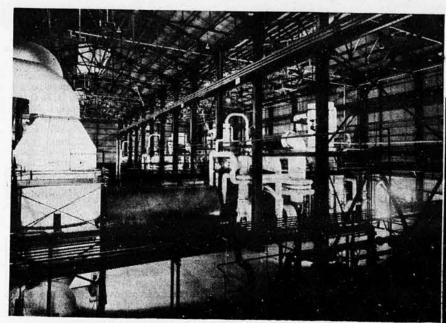
FLAXSEED: 396,000 bushels, compared to 749,000 in 1947, and a 10-year average of 957,000 bushels; flax acreage declined about 33 per cent in 1948 from 1947.

HAY AND SEED CROPS: Kansas all hay production, 3,565,000 tons, compared with 3,116,000 tons in 1947 and 2,327,000 tons in 1946. Alfalfa made record yield of 2.35 tons an acre, but weather reduced seed yield to 101,000 bushels, compared to 305,000 in 1947. Red clover seed yield, 74,000 bushels in 1948; 64,000 in 1947. Sweet clover, 95,000 bushels in 1948 and 161,000 bushels in 1947. Lespedeza, 13,000,000 pounds in 1948 and 4,600,000 in 1947. Sudan grass, 1,900,000 pounds in 1948 and 1,700,000 pounds in 1947. Brome grass, 2,200,000 pounds in 1948 and 4,600,000 pounds in 1947.

Bird's-Eye View of Monterrey



ANSAS FLYING FARMERS will get a view of this scene over Mon-ANSAS FLYING FARMERS will get a view of this scene over monterrey when they fly to Mexico, January 14. This photo was made by Charles Howes, of Kansas Farmer, while flying north over the city of Monterrey in E. B. Fatzer's plane. Mr. Fatzer, of Lewis, is helping with the arrangements for the vacation in Mexico. The mountain in the background is southeast of Monterrey. It is the "Cerro de Silla." Translated to ground is southeast of Monterrey. It is the "Cerro de Silla." Translated to English it is Saddle Mountain, Monterrey airport is north of the city, adjacent to the Pan-American highway, which is U. S. 81 thru Kansas and



At Left: In this huge building the basic combination of air, steam and gas is made. All of these mighty machines are deing what the most commonplace legume plant can do, take nitrogen from the air.

Below: These are known as son bing towers, in which impure from gases are removed. One purity is carbon dioxide, which made into dry ice.



Magic for

Crops Made in This Huge Plant

Cordell Tinda

UT on a Kansas prairie, just south of Pitts-burg, is a great industrial plant with mammoth buildings housing giant machines. Built during the war at a cost of millions of dollars, this large-scale operation converts simple raw materials—air, steam and natural gas—into a solution of ammonium nitrate from which farm fertilizer is manufactured.

From this mighty plant come only 2 small trickles of solution—some Kansas farms have a spring that would run a bigger stream. As a matter of fact, a 6-inch pipe carries off all the nitrogen from this 38-million-dollar plant.

This giant offspring of modern science was built to do what any small legume plant can do—get nitrogen from the air. The every-day job of the clover plant on your farm offered quite a challenge to the scientists too. to the scientists, too.

Today, there is scarcely a Kansas farmer who is not well acquainted with the results that come from using nitrogen fertilizer. As late as 5 years ago most of us had not thought of buying nitrogen in the bag for our soil. Our crops and soils experts were telling us in most cases it is cheaper to grow our nitrogen with legume crops and green manure. The cotton farmers were using cyanamid and orchardists were buying Chilean nitrate or ammo-nium sulfate. Nitrogen in these forms was expen-

sive and could be used profitably only on crops with high cash return.

But when the great war effort was over there appeared on the market a cheaper nitrogen fertilizer—ammonium nitrate. It is not our purpose here to tell what this did to crops. On small grain, on corn, even on pastures the return from nitrogen

on corn, even on pastures the return from nitrogen is immediate. The pages of Kansas Farmer have often told of profitable use of ammonium nitrate. Ray S. White, a sales supervisor for the Spencer Chemical Company, asked us to tour with him the plants that manufacture ammonium nitrate. We immediately took him up on this invitation so we could see the origin of the "magic" for crops. In the dim, but not too distant past, we had been

In the dim, but not too distant past, we had been subjected to considerable chemistry in college. The elusive bits of knowledge remaining with us were put to severe strain as one chemical process after

another was explained.

First off, we had to throw out the window all previous impressions of fertilizer plants. The commercial plant food plants we had visited were great structures in which huge piles of materials were ground, moved, mixed together and bagged. It was chiefly a mechanical operation.

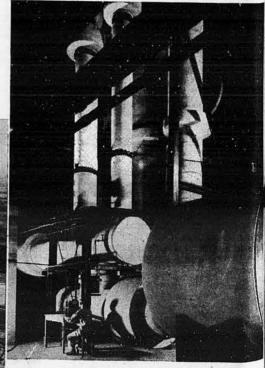
The big plant near Pittsburg, Kan., was something else again. From the time we assured the plant guards we weren't a Russian spy to the time

we wearily trod back to headquarters, we were tidy, gleaming buildings, where most of the wo men are mechanical. Here was science at work noisy, yes, but not dusty.
First, perhaps we had better explain the history

of the big Pittsburg plant.

of the big Pittsburg plant.

To enable us to blow the Japs and the Nazis the map, our armies needed explosives. And a part of the ingredients needed were anhydro ammonia, nitric acid, and ammonium nitrate. The Pittsburg and Midway Coal Mining Company, operated by Mr. Spencer, was asked to design, construct and operate a plant to produce these check cals. We say "asked." You can bet Mr. Spence kept the wires to Washington hot telling the big wigs about the advantages of this area. A substiary Military Chemical [Continued on Page] iary Military Chemical [Continued on Page !



Above: The solitary workm hawk Works is typical of the small force of men and vast machine working to manufacture nitroges

At Left: This is the big Jayhawk Works, near Pittsburg, Kan., now operated by the Spencer Chemica! Company. Here natural gas, steam and air are the raw materials used for manufacturing ammonium ni-trate, a fertilizer.



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for the family farm

MODEL C Seal-Greased TRACTOR

Servant of the whole farm family, the Model C 2-Row Tractor is a mobile power plant on rubber, one of the sweetest cultivating tractors ever built.

If Son is a mechanical-minded young engineer in overalls, here's his tractor. Simplicity itself ... there's not a grease-fitting on it.

The Model C is a full-size completely equipped

tractor . . . with lights, starter, low-pitch muffler. air tires, radiator heat control, battery, cushion seat and backrest. Power Transmitter, including hydraulic lift, power take-off and belt pulley, is optional at small cost.

The Model C is yours, with a matching line of hydraulic-control implements . . . if you see your A-C dealer promptly.

Economy Champion

If your farming does not require two-row planting and cultivation, the lower cost one-row Model B gives you all the streamlined features and performance of the Model C, with the additional economy of single-row implements.

Front-mounted fertilizer attachments for both B and C tractors side-dress fertilizer while you cultivate or plant.

AM HOPING that all you readers of the Kansas Farmer had a Merry Christmas. I am wishing for each of you a Happy and Prosperous New Year.

Today is my last day in the United States Scnate, where I have

represented the state and people of Kansas for practically 30 years.
Technically my term expires at noon Monday, when the new (Eighty-first) Congress meets for the first time. At that time my successor, Gov. Andrew F. Schoeppel, will be sworn in. I am wishing him the best there is, and that he may accomplish for Kansas and the nation the things that have to be done.

After 12 o'clock meridian next Monday, there will be only one man remaining in the Senate who was a member when I was sworn in for the first time back in 1919, Senator Kenneth McKellar, of Tennessee. The only Republican Senator left who served during the administration of a Republican President will be Senator Arthur Vandenberg, of Michigan, who served during part of the term of the late Calvin Coolidge and the full term of Herbert Hoover. A good man, Senator Vandenberg; I regard him as the ablest statesman of this genera-

Looking back over 30 years, I remember distinctly many things. Charlie Curtis as my colleague and as vice-president of the United States. The Farm Bloc in the Senate, of which I was head thru the years when Congress enacted into law the Capper-Volstead Act, the legal foundation on which the farmer co-operatives have been built; the Cap-per-Tincher Act, regulating the grain (now the commodity) exchanges; the Capper-Ketcham Act, providing for the 4-H Clubs; and the long fight to get the McNary-Haugen Bill passed, only to meet a Presidential veto. And many other pieces of farm legislation to better the plight of farmers, unorganized, striving to maintain a foothold in an increasingly organized industrial society. Later, the Agricultural Adjustment Act, formalizing the "parity" concept for farm prices and income; and the REA and other farm agencies.

I can still hear the orations delivered in the Senate by William E. Borah, of Idaho, and "Jim" Reed, of Missouri; the masterful address of Winston Churchill and the matchless eloquence of Madame Chiang Kai-Shek. I remember "Boss" Boies Penrose, of Pennsylvania, who blocked an hysterical movement in the Senate to expel Robert M. LaFollette, Sr., of Wisconsin, from Senate for anti-war views in World War I. I served with both of these. I saw Huey Long come and go. And many others.

I have enjoyed my 30 years in Washington. I enjoyed my more than 50 years in Kansas before I came to Washington—as a printer, as a reporter, as an editor, later as a publisher; and as governor of my native state of Kansas. I expect to enjoy life when I am back home in Kansas again, for the years that remain. I have enjoyed life and its living; the friends I have and love, and those I have known and loved who have passed on; my associates in business and in public life; the work I have done and the things I have tried to do.



I have tried to serve faithfully and to the best of my ability the people of Kansas and of the nation, as a citizen and as a public official. In the Senate I have worked, and voted on all things that came up as I sincerely believed the majority of Kansans would have worked and voted if they had been in the Senate possessing the same information I had on which to base my decisions.

I am retiring from the Senate-but not from activity in public affairs, I trust—with many pleasant memories and with few regrets.

Happy New Year to you all-and many more happy years.

Talk Farm Business

S THE old year ends and the new one begins, A competent businessmen usually review their activities of the past year, and attempt to

establish goals for the future.
Farming is a business. And the fact that our farm leaders subscribe to this policy of business is exemplified by the annual meeting of the Kansas State Board of Agriculture, which will be held in Topeka, January 12 to 14.

It will be a particularly pleasant meeting this year for me since I shall be able to attend and enjoy the fine program planned, as well as renew my acquaintances with many of my farm friends.

As in the past, the convention will select their board members and other leaders to serve Kansas agricultural interests during 1949. More significant to me, however, are the many talks and discussion groups that are planned as part of the general as-

This group of farm leaders will devote much of their time to analyzing farm and urban conditions of today, in Kansas and the Nation. Following the sound belief that political and economic forces affecting one have the same influence on the other, these farm leaders are aware that for assured security and prosperity it is essential that urban and rural groups consider their problems as one.

Any meeting, such as this, whether agricultural, industrial or other, has always held my special in-terest. In these gatherings, where free speech allows expression of all opinions and beliefs, we can find the fundamental reason for our American agricultural and industrial leadership of the world.

From the program outline I received from my good friend J. C. Mohler, secretary of the board, it is evident the convention will be one of the finest on record. In reading the program and the topics to be presented, I could not help but reminisce a bit. If we had the time to go back thru the records of the other 77 meetings that have been held by the Board of Agriculture, I feel certain we would be amazed at the great number of "newfangled" ideas this leading farm group has supported. In checking on today's modern farming techniques we would find most of those ideas the common method of pro-

This 78th program is no exception. A. F. Swanson, of the Fu Hays Experiment Station, is going to report on sorghum production and utilization. Particularly he wil stress industrial use of this valuable crop. Further evidence of the possible uniting of industry and

agriculture thru chemurgy. That is one example of the progressive attitude of this farm organization. I could list several other topics that are going to be presented at the meeting topics that may be almost radical today, but practical tomorrow.

Particularly, I want to commend Mr. Mohler of his selection of speakers for this meeting. Many of the featured authorities are Kansas leaders, in the important field of agricultural research. All to often the real leaders and educators we have right at home are not appreciated by home folks, an this recognition of their talents is certainly worth

Future of the Kansas Wheat Industry is to be the limit of the Kansas Wheat Industry is to be the limit of the given by R. I. Throckmorton, dean of agriculture Kansas State College. Dean Throckmorton is considered by nation-wide farm leaders to be one of the outstanding agronomists of our times. His comments on the future of our number one crop shoul be of interest to every citizen of the state.

Dr. A. D. Weber, head of the department of an mal husbandry, Kansas State College, is going talk on Grass Utilization, and particularly the grass research work that is being developed by the Kansas State Experiment Stations. The Kansas bluestem hills provide the finest grazing lands in all the world, and this talk certainly will be a mus on the convention agenda.

This progressive farm meeting is equally concerned with national farm problems as with Kan sas matters. Allen B. Kline, president of the American Farm Bureau, is to talk on Factors Affecting Our Agriculture. In this day of rapid communications, influences in agriculture, regardless of the geographical locality, must be the concern of Kan sas farm people.

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Ch

With the American way of life under heavy criticism, both from envious other countries and some misguided Americans, it is indeed a pleasure that note George D. Scarseth is going to talk on Good Farming and Freedom. Our modern farming indus try is symbolic of American living habits and po litical policies. As long as our philosophy of life offers more material goods as well as spiritual satisfaction than any other system yet devised, I believe we should support and work for Americal ideals support and work for American

ideals every day of every year.

The program promises to make the 78th annua meeting of the Kansas State Board of Agriculture an outstanding convention. I particularly want to congratulate Mr. Mohler and members of the boar on their choice of topics and speakers for the meet ing. I shall look forward to seeing many of you it Topeka, and I extend a hearty wish for a pleasant and valuable meeting to all who attend.

Athur Capper

Steps Toward Control of Marketing

ASHINGTON, D. C.—Commodity Credit Corporation has announced that during the calendar year 1949 domestic sales of CCCowned or controlled farm commodities generally will be made at NOT LESS than the lowest of the following:

"1. A price that will reimburse CCC for its costs;

"2. Ninety per cent of the parity price; or,

price; or,
"3. A price half way between the support price, if any, and parity.'

(Apparently, under (3), a commodity supported at 60 per cent of parity, like potatoes, could be sold domestically at 60 per cent of parity plus CCC costs of handling, or at 80 per cent of parity, whichever was the lower.)

Exempted from the general provisions just stated are

By CLIF STRATTON Kansas Farmer's Washington Correspondent

"1. Sales for new or by-product uses; "2. Sales of peanuts for the extraction of oil;

3. Sales for feed or seed.

"4. Sales of deteriorated commodities or non-basic perishable where there is danger of loss or waste thru spoilage;

"5. Sales to establish claims; "6. Sales for export;

Sales of wool: "8. Sales for other than primary use."

Commodity Credit also moved with Commodity Credit also moved with fair degree of promptness to take advantage of the "election mandate" to reverse a previous policy and not allow private trade to export grains to cashpaying countries outside the Western Hemisphere and Philippines—excepting contracts made before December 1.

The announcement of policy on grain procurement for export also contained

procurement for export also contained the following:

"Also, in line with the procurement policy announced November 29 by the Economic Co-operation Administration (Marshall Plan), the CCC will procure all grains for export to the Marshall Plan countries, except for the quantities covered by ECA procurement authorizations issued prior to November 23. (Some Marshall Plan countries are also cash-paying countries. To the exalso cash-paying countries. To the ex-tent that these buy grain for cash the cut-off date for commercial procure-ment is November 30, 1949.) "Procurement of flour for all coun-tries, except the occupied areas (U. S.-

U. K. and French zones of Germany and Japan and Korea), Austria, Trieste Greece and China, will continue to be made by private suppliers. For the first quarter of 1949, flour will be allocated to importing countries only in terms of wheat, and the proportion of the allocation for any country to be shipped in the form of flour will be left optional with that country. However, in the case of shipments of wheat and flour to ECA-financed countries, the minimum flour shipments will be determined by flour shipments will be determined by ECA."

(Most foreign countries would prefet to get wheat instead of flour, to keep their own mills busy and also to get the by-products from flour manufacture.) Department of Agriculture previously had announced, September 3, that beginning December 1, the wheat for all "cash-paying countries, all Western (Continued on Page 23)

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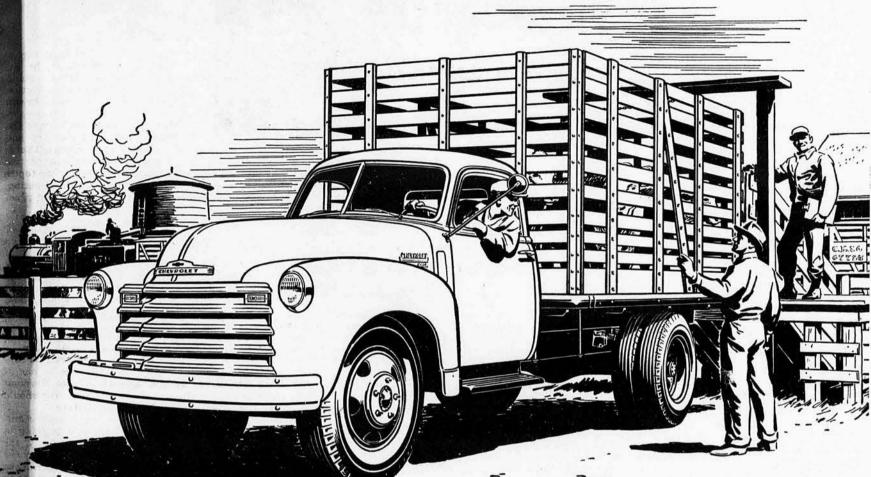
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LOOK AT THE HIGH-PRICE FEATURES IN THESE LOWEST-PRICED TRUCKS

It's Chevrolet's new 4-SPEED SYNCHRO-MESH TRANSMISSION for quicker, easier and quieter operation in one-ton and heavier duty models. This all new transmission enables driver to maintain speed and momentum on grades.

The Chevrolet-developed SPLINED REAR AXLE HUB CONNECTION insures added strength and greater durability in heavy hauling.

Summer or winter there's living room comfort in Chevrolet's famous CAB THAT "BREATHES"!*

Outside air—heated in cold weather—is drawn in and used air is forced out.

Found only in Chevrolet heavy-duty trucks, the LOAD-MASTER VALVE-IN-HEAD ENGINE, famous for outstanding economy, is now even more durable and efficient in operation!

With • The Flexi-Mounted Cab • Uniweld all-steel cab construction • All-round visibility with rear-corner windows* • New, heavier springs • Full-floating hypoid rear axles in 34-ton and heavier duty models • Hydrovac power brakes on 2-ton models • Ball-bearing steering • Wide base wheels • Standard cab-to-axle dimensions • Multiple color options.

*Heating and ventilating system and rear-corner windows with de luxe equipment optional at extra cost.

Cost less 3 ways
...do more ALL ways

Advance-Design CHEVROLET Heavy-Duty Trucks

The moment you put one of these heavyweights to work on your farm, you'll know you're riding a winner. Because they're really built—built for loads and built to last—with extra horsepower under the hood that levels the roads and eats up the miles. Yet, for all their bigness and power and life-long quality, they cost you less—3 ways. For Chevrolet heavy-duty trucks have 3-WAYTHRIFT—low cost of operation, low cost of upkeep and the lowest list price in the entire truck field!

CHEVROLET MOTOR DIVISION, GENERAL MOTORS CORPORATION, DETROIT 2, MICHIGAN



Choose CHEVROLET TRUCKS for Transportation Unlimited!

Better Living With Refrigeration

By FLORENCE McKINNEY

HOME freezer cabinets and the new developments in refrigerators have revolutionized homemaking for millions of families. They have changed the housewife's shopping and housekeeping habits . . . and all to the good. She can buy when she chooses, once a month or once every 2 weeks she can OME freezer cabinets and the new

She can buy when she chooses, once a month or once every 2 weeks she can process foods from her garden at the peak of flavor and nutritive value. She can cook food at any time and freeze it for future use. She can save all leftovers by freezing them in minimum space while they are still fresh.

Since the war enormous improvements have been made by manufacturers in both refrigerators and home freezers. The bugs have been ironed out, quality and performance increased. Sufficient tests have been completed to assure any buyer the best proved methods of preparing all types of food, the most satisfactory containers, the best wrappings.

Ways have even been developed for

wrappings.

Ways have even been developed for labeling packages for easy recognition. The importance of clear, durable labels is something that had to be learned the hard way. A convenient label tells not only the name of the product, but also the date it was packed. Other helpful facts are labels which show the number of servings or the amount and kind of sweetening, or the variety of a fruit or vegetable.

Use Colored String

Many a home freezer user has worked out her own system for locating foods quickly. One way is to use different colored string, paper . . . red string to tie up beef, white for pork. Mesh bags may be used to hold all the boxes of one product. The foresighted homemaker keeps a record of what the freezer contains, checks items off as they are used. they are used.

At this moment, interest in home freezing is amazing. The upright home freezer has its advantage, but the chest type is more economical and the weight is better distributed. And with careful arrangement of packages within, it is most desirable. The chest type is more economical for when open from the top, the cold air stays in the chest. Those that open from the front lose more cold air when opened.

Home freezing is a boon to the busy farm homemaker in that freezing re-quires from one third to one half the time required for canning, with about the same decrease in labor and much less effort

What size to buy? Get one that has from 3 to 5 cubic feet for each person in your family. Consider, tho, whether you intend to freeze every kind of food and whether you will dispense with the commercial locker.

Early in the home-freezing business, electric power failure was thought to be hazardous. Since first reports, it has been found by continuous experimentation that even a small, well-filled freezer, after the current was off, did not that to any considerable extent not thaw to any considerable extent until about 72 hours later. Do not open the freezer any more than necessary and after 3 days place dry ice on top of the food packages, in case of power failure

failure.

As for new refrigerators, improvements are remarkable. Freezing compartments are enlarged to keep many pounds of food frozen solid. Porcelain interiors are as easy to clean as a china plate. Brilliant chromium hardware will win the homemaker's heart. They come in sizes to suit size of family as well as the pocketbook. There are storage bins that hold as much as 1½ bushels of vegetables. Crispers keep vegetables and fruits fresh and moist. Shelves are adjustable to accommodate Shelves are adjustable to accommodate different foods. Some have thermometers to assure you the temperature is always right. All in all, the refrigerator is the heart of the kitchen.

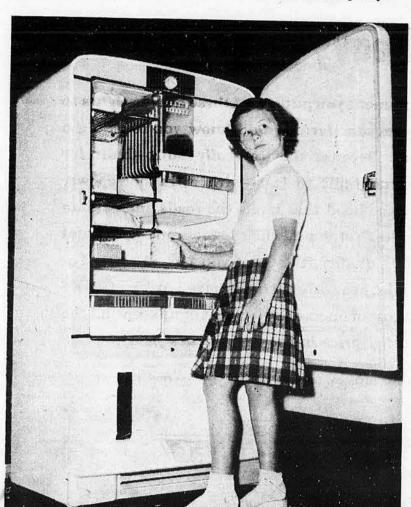
Tough on Eggs

Tremendous losses occur annually in marketing poultry products, says C. L. Gish, Kansas State College poultry husbandryman.

bandryman.

During 1947, he says, the loss in eggs from producers to consumers was 650 million dollars, and for poultry meat 373 million dollars.

Much of this loss may be prevented, he believes, by improved breeding and management on the farm, practicing care in handling by all parties involved in marketing, and a greater appreciation of what constitutes quality.



The 3 International Harvester refrigerators are the same size, & cubic feet, but are made in standard, de luxe and super-de luxe models. Frezen feed compartments hold up to 35 pounds of faod. Both de luxe models have vegetable bins at bottom. Lowest possible temperature in freezer compartment, 28° below zero.



The International Harvester Company home freezers are in 3 sizes to suit size of family, 4.2 cubic feet, 11 and 15. Temperature ranges from 30° below zero to 50 above. For quick freezing there is a freeze-area 16 by 20 inches in the bettom After quick freezing, packages may be moved anywhere in the freezer.

Road Program

Offered by Governor's Special Committee

AFTER 2 years of study and hearings over the state, Governor Frank Carlson's Kansas Highways Fact-Finding and Research Committee has published the following findings and recommendations.

A 20-year improvement program designed to meet \$957,292,000 in accumulated needs on 81,962 miles of roads and 9,361 bridges, was recommended.

Accumulated needs include \$520,120,000 for improvements on 7,470 miles of rural and 256 miles of urban highways and 1,421 bridges and grade separations.

tions.

Committee approval was put on changing from a non-highway gasoline tax exemption system to a refund system with prompt reimbursement, an increase in license tag fees, additional revenue from the ton-mile tax, a flat legislative appropriation of 3 million dollars for administrative expense, and allocating \$2,250,000 of liquor tax revenue to road purposes.

Other recommendations include:

1—Allocation of present sales tax collections on sales of new and used motor vehicles and accessories to the Highway Fund. Annual yield from this source was estimated at 2 million dol-

source was estimated at 2 million dol-

That counties and townships be allowed to take their road and bridge levies outside of the aggregate limits without statutory limitations.

levies outside of the aggregate limits without statutory limitations.

3—That the present allocation of \$3,600,000 for county and township roads from state funds, and the 1-million-dollar benefit district refunds be continued, with counties, townships and cities to be allocated a portion of the revenue from any additional gasoline tax added by legislative action.

4—Revision of the existing driver's license law, and adoption of a law similar to that recently approved by the Kansas Legislative Council.

5—Granting by the state legislature to the State Highway Department full administrative authority over city connecting links on the state system.

6—Amending of laws relating to closing public roads to simplify and encourage their abandonment when no longer needed.

7—Revision of Kansas laws govern-

7—Revision of Kansas laws governing sizes, weights and speeds of vehicles to bring them into line with Americals to bring them into line with Americals to bring them into line with Americals and the state of the s can Association of State Highway Official standards.

cial standards.

8—Adequate housing of the State
Highway Department with the cost to
be paid by the state.

9—Adoption of a retirement program for state employees similar to
that being currently studied by a state
committee. committee.

10—A study by the legislature of possible changes in the present formula concerning allocation of mileage and funds among counties on secondary

roads.

11—Reconstitution of the present
State Highway Safety Department into
a traffic engineering department.
12—Early establishment by the State

Highway Department of route lo tions and early acquisition of rights-

13—A firm and lasting policy a adequate enforcement on load limits

adequate enforcement on load limits 14—An increase in the number highway districts (within divisions improve maintenance supervision. 15—Increasing of state maintena activity by 25 per cent to provide a quate standards of service.

16—Increase of county maintena activity by 50 per cent.

17—Adequate staffing of county township and city highway departments to meet traffic engineering prolems.

A study by Kansas cities of the

18—A study by Kansas cities of the parking problems and action along seral suggested lines to improve paring and traffic conditions.

The committee found that Kanswant to make highway improvement a "pay-as-you-go" basis rather the with bond issues. Total expendituduring the 20-year improvement payram would include maintenance a replacement. replacement.

Average annual costs for the staystem would be \$39,294,000, for cour and township roads \$38,850,000, stays for city streets \$10,614,000. This grateful average annual cost for highway and street work in the staff \$88,758,000, and makes a total \$1,775,160,000 for the 20 years. Average annual costs for the st

Tough on Mastitis

Penicillin has been found more eff Penicillin has been found more efficive against some types of mastitis ganisms than others, reports the BAIt was effective in 91 per cent of strainfections, 85 per cent of staph infitions, 94 per cent of coliform infection 100 per cent of the yeast infections, 33 per cent of the unidentified coccifections.

Administered mostly with sterile ter as a carrier, and twice daily for consecutive days, penicillin has be used most successfully at the Beltsvi Md., experiment station.

For Program Chairmen

"The Hill Billy Wedding," a play that includes several characters and is heaps of fun.
"Grandmother's Patchwork Quilt," easy to present with little stage setting.
"A Ticket for Amy," requires 3 characters. Scene laid in a railway ticket office.
"Here Comes the Bride," a play requiring a bride and groom, 6 chil-

requiring a bride and groom, 6 children and several singers.

Any one of these plays will livel up a club or community program. These may be ordered from Enter tainment Editor, Kansas Farmer, Topeka. Price 5c each.

ew Markets are Born in a Test Tube

New products are developed, new uses are found for meat and by-products in Swift's Food Research Laboratories. Thus our "scientist-salesmen" help you find wider outlets for your livestock.



livestock country to city counter, science the trail for a thriving livestock-meat indus-Among these trail-blazers are 400 trained per-I in the Swift research laboratories and test ens. Pioneer-scientists, they develop new meat ucts-find new uses for more and more liveby-products. Scientist-salesmen, they create markets—better values for your livestock.

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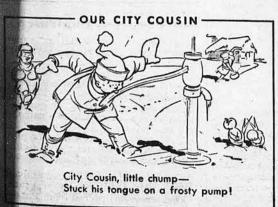
increased by Swift research.

s, their work means money to you . . . millions! average annual commercial slaughter for the ten years was over 281/2 million cattle and s, nearly 65 million hogs, and over 22 million and lambs. That's a lot of meat—and it's a by-products, too! Cowhides, pigskins, and pskins, by the millions, for everyday leather is. Well over 50 million pounds of pulled wool ally for cloth and clothing. Thousands of tons rds and soaps for home and industry. Carloads imal feeds. Tons of hair for upholstery. The list nost endless.

earch found how to derive life-saving phareuticals from animal by-products. Here numare important. For example, tiny glands from y thousands of animals must be saved to proone pound of adrenalin, powerful heart stim-To yield one pound of crystalline insulin, I in the treatment of diabetes, the pancreatic ds of 20,000 cattle are needed. Important, too, bumin, tuberculosis "detector" recovered from the blood—and many more beneficial, allortant medicinal products derived from animal hter.

ow recent research has developed an entirely line of important chemicals from fatty acids. chemical from fat makes clothing water-repel-Another is a flotation agent, useful in the seplongs the life of synthetic tires by causing them to run cooler. And detergents, "soap substitutes," have been recovered for use with hard water in the home and industry. So the list grows, from day to day.

s, science performs a direct, very valuable ness service for you, the livestock producer. ough new products and new markets, it 1) mainor improves the position of meat on the rican menu; 2) often reduces the price we get the meat to less than we pay for the live ani-; 3) enables the meat packer to pay you more for your livestock.







Business Must Serve

As you look about your own neighborhood you'll find some men who are assets to

some men who are assets to the community, others who add nothing to community life. These good citizens may be large operators or "little fellows." You do not rate them by the size of their operations but by their characters, abilities and what they contribute to the good of the community.

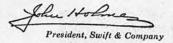
This same principle holds true in business. The business that performs worthwhile services to the community is an asset, whether it be a local concern or a big national organization.

In our livestock-meat industry both large In our livestock-meat industry both large and small meat packing plants are essential. Two-thirds of our country's livestock is raised and fed west of the Mississippi, where the great grainlands and grasslands are . . . Two-thirds of the meat is eaten east of the Mississippi, where most of the people live. Large packers are needed to handle the processing and distribution of meat for a nation of 145 000 000. bution of meat for a nation of 145,000,000

Swift & Company has grown with the expansion of the United States in the past 65 years. That's because we perform services of value to the people of America—to farmers, ranchers, meat dealers, and consumers of meats. We have to be efficient to provide these services. Meat products the agrees have applied to meat products the packers have applied to meat products the economies of mass-production and mass-marketing. We have developed one of the lowest cost food distributing systems in the nation. By saving by-products and by reducing waste, we increase the value of producers' livestock.

But so keen is the competition—in both the buying and selling ends of our business—that these services have averaged us, over the years, earnings of only a fraction of a cent per pound

To all of our friends on the farms and ranches of America, we of Swift send our sincere best wishes for a happy, peaceful and prosperous New Year.





meat and livestock products, thanks to findings of Swift nutritionists.

Martha Logan's Recipe for

PORK AND NOODLES (Yield: 5 servings)

- 1 pound ground pork 1 4-oz. package noodles 2 quarts boiling water
- Seasoning
- ½ cup diced green pepper 1 cup diced cooked rutabaga Flour 2 tablespoons

Combine pork, egg, and seasoning. Form into 1-inch balls. Roll in flour. Brown in hot fat. Boil noodles in salted water 10 minutes. Drain. Combine noodles, green pepper, and rutabaga. Place in greased 2-quart casserole. Place pork balls on top. Bake in a moderate oven (350° F.) about 40 minutes or until note in wall dose. until pork is well done.

- Soda Bill Sez: -

New Year's resolutions are like eggs—they're made to be broken.

It's not the hours you put in, but what you put into your hours.



QUOTES OF THE MONTH

Animals have done more to make America great than any other one thing. Directly and indirectly, animals account for about 80 per cent of the jobs in the food industry, and the food industry accounts for about 55 per cent of the total employment in this country. Chicago Daily Drovers Journal

Soil testing with the Illinois tests not only saves the average farmer \$50 for every \$1 spent on testing, but increases food production by using every ton of fertilizing material where it will do the most good.

Roger H. Bray and A. U. Thor,

University of Illinois

Grass Silage a Good Winter Feed



by P. S. Shearer

Iowa State College, Ames, Iowa

Good quality grass or legume silage makes an excellent winter feed for all roughage-consuming

P. S. Shearer part or all the hay in a ration for dairy cows. Most dairymen who use it prefer to feed some dry hay with the silage. Since average grass silage contains only about 25% to 30% dry matter, it requires roughly 3 lbs. of silage to replace 1 lb. of well-cured hay. cured hay.

In dairy rations, grass silage can replace corn or sorghum silage. On a dry matter basis it compares favorably with corn silage in total digestible nutrients, and if made from legumes or a mixture of legumes and grass, the digestible protein content is higher. This means that a smaller amount of protein supplement is needed to balance the ration.

For beef cattle, grass silage can be fed to breeding herds, fattening cattle, or young stock. It may replace a part or all of the corn silage, hay or both, though some dry roughage is recommended. Since grass silage has high carotene content it is especially valuable in winter rations likely to lack vitamin A.

Ensiling is not a magic method of making good feed out of poor roughage. Grass silage made from good material, well preserved and free from spoilage, needs no particular feeding precautions. Moldy or spoiled silage loses its palatability and much nutritive value; and it may be toxic, especially to sheep and horses.

SWIFT & COMPANY) UNION STOCK YARDS

CHICAGO 9, ILLINOIS

NOT 1, NOT 2, NOT 3...

Raised a Carload of Champions!

APPLE RIVER, ILL.—Walter Schlichting's idea of a pleasant hobby is one that pays off in blue ribbons . . . plus cash. For example, the carload of hogs he entered in last year's International Live Stock Exposition was awarded a Grand Championship!



Walter and Prize Winner

That was the PAY-OFF. What's Schlichting's HOBBY? Just feeding livestock . . . like the corn-fed beauty he's stroking here! Doesn't forget, either, to feed himself a big four times a week, he says.

Another hobby: watching basket-ball. Walter Schlichting has followed the hoop sport for years. Gets a big kick out of close, fast-breaking games. He's also a long time Wheaties fan. Started eating 'em "because they're 100% whole wheat flakes." Walter's favorite is bananas with Wheaties and milk. Famous train-

milk. Famous training dish, offering food energy, three B vita-mins. Minerals, pro-

Good idea to stock up on Wheaties in the Extra-Big-Pak size. Holds 50% more than regular size package. Con-venient in homes where several are served regularly.

Many THREE-generation Wheaties families. More and more report several generations enjoying "Breakfast of Champions"! All generations in your family had their Wheaties today?

General Mills

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



"Like some fruit with your Wheaties dear?'

The Cover Picture



Let me tell 'em Happy New Year too, says Billy Warren Waggoner, Neosho county, as he tries to get the phone from his sister, Sharon Kay.

THE little girl on the cover who helps THE little girl on the cover who helps us bring a New Year's greeting to you is Ardis Elizabeth Horsch, 4-year-old daughter of Mr. and Mrs. Henry Horsch, Woodson county, Ardis has 2 sisters, Janice Elaine, 9, and Sharon Loraine, 7. The day the picture was taken Ardis was helping her mother bake cookies, but stopped long enough to pose with her cat, Taffy.

Mr. Horsch is a schoolteacher who

Mr. Horsch is a schoolteacher who left that profession after 13 years to become a farmer. Nine years of his teaching career were spent in the Yates Center high school.

Center high school.

Altho he had not lived on a farm since he was 7 years old, Mr. Horsch always has loved farming. "I decided I would rather boss calves than kids," he says. He now is farming 700 acres in partnership with his father-in-law, August A. Koenig. They have a beef cow herd, a dairy herd and Palomino horses.

New Year's greetings also are brought to you in another picture accompanying this story by Sharon Kay, 5, and Billy Warren, 13 months, children of Mr. and Mrs. Homer Waggoner, of Neosho county.

Mrs. Waggoner's parents, Mr. and

Mrs. Waggoner's parents, Mr. and Mrs. Fred Bower, were charter members of the Neosho county Farm Bureau. Mrs. Waggoner'is a former 4-H Club member and now is a member of the Victory Home Demonstration Unit. Mr. and Mrs. Waggoner are liv-

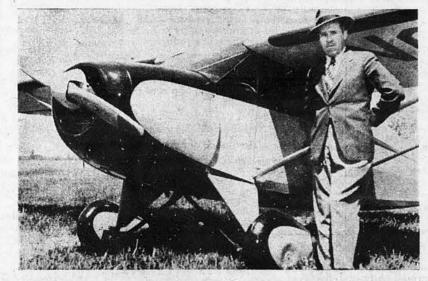
ing with her parents until they can build a new home on their farm.

With thousands of bright young children like Ardis, Sharon and Bill grow-ing up on Kansas farms, is it any wonder that we say: "The future of Kansas agriculture is in good hands.



Ardis Elizabeth Horsch, Woodson county, who posed for the Kansas Farmer New Year's cover.

Howes Helps 4-H Camp Campaign



Charles Howes, of the Kansas Farmer staff, has been selected as chairman of the Rock Springs Camp 4-H Club campaign for the city of Topeka. Howes is shown beside the plane which he flies in travels about Kansas. He also is secretary of the Rotary Club of Topeka and publicity director for the Kansas Flying Farmers. He will fly to Mexico in January with our flying farmers from this state.

NOW-ADDED GEARS for YOUR TRACTOR

Speeds up your old model JOHN DEERE A or B

New intermediate speed for FARMALL H or M

A real road gear for FARMALL F-20, F-30 OF REGULAR MODEL

NEW IMPROVED Behlen GEAR BOX

JOHN DEERE A or B



Put new speed in your old model John Deere A or B. Makes it many times more useful. New Behlen Gear Box adds two extra speeds—9 and 15 m.p.h. Does not

interfere with present gears. Just shift gear. Think of the time you can save. Precision - built. Fully guaranteed. Worth many times the amazing low price.

FARMALL H or M

Here's that in-be-tween speed you've been wanting for your Farmall H or M. New Behlen Gear



M. New Benien Gear
Box gives you intermediate speed of 10
m.p.h. Especially
valuable for field
work—bucking hay, corn picking
and the like. Or if you prefer, you
can have 7 m.p.h. gear box. Quickly, easily installed. Guaranteed. Low
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FARMALL F-20, F-30 or REG. MODEL



Now do 14 to 15 m.p.h. on your old Farmall F - 20, F-

Farmall F - 20, F30, or Regular
Model. Just shift
gear and away you
go. Gear box for 10
m.p.h. also available for F-20 and
Regular Model only. Easy to install
on tractor with or without hydraulic
Lift-All Pump. Thousands in use today.

Get the full story on the New Behlen Gear Box. Write for name of Behlen dealer nearest you. Please indicate make of tractor you are interested in.

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"Now I Can SLEEP"

to keep me tossing and turning. But since switching to POSTUM, I sleep soundly—and friends have commented on my improved ap-pearance."



SCIENTIFIC FACTS: Both coffee and tea SCIENTIFIC FACTS: Both coffee and tea contain caffein—a drug—a nerve stimulant. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein—nothing that can possibly keep you awake!

MAKE THIS TEST: Buy INSTANT POSTUM today—then drink POSTUM exclusively for 30 days—and judge by results! . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

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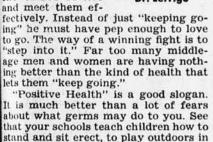
A Wish for 1949

By CHARLES H. LERRIGO, M. D.

wish you health, I wish you wealth, wish you goodly store; wish you Heaven after death, What can I wish you more?

DO NOT vouch for this quotation but it is my recollection of a popular New Year's wish of some 40 years back. As a physician I will go no further than the first four words and "what can I wish you more?"

But I am not wishng you the kind of ealth that just alhealth that just allows one to be up and about. A person needs something better than the mere ability to drag around. He needs vigor; pep, effi-ciency. He must be able to anticipate the crises of life and meet them ef-fectively. Instead of



stand and sit erect, to play outdoors in all weathers when properly dressed, to do their reading and writing in such a way as to make good use of the light without injury to eyes, to sleep 8 to 11 hours every night in fresh air, to eat the kind of food that will both build the tissues and cleanse the waste, to drink plenty of fresh water and milk and very little else. These things will make for health much more than warning against germs. I am not skeptical about the

malignancy of disease germs. I know just what they will do and what they won't do. But I don't use them to teach

Grown-ups, too, can have much more positive health than most of us enjoy. But we must plan our eating, sleeping, But we must plan our eating, sleeping, work and play better. Are you satisfied with the health you had in 1948? If not, perhaps something can be done about it. Drugs may help. Cod-liver oil combined with sunshine has turned many an enemic, skinny person into a healthful human being. Substituting foods that make an alkaline ash, such as green leafy vegetables, soy or lima beans, baked potatoes and citrus fruit for a portion of the fats and proteins with which your diet has been topheavy, has cured many a dyspeptic. Take this good wish for health seriously, and see whether you can do something about it. thing about it.

It's Possible

Is it possible for a person 76 years old to develop tuberculosis?—S. P. C.

Yes. It is unusual for anyone to show the first signs of tuberculosis in old age, because by that time most people have fought the battle out. But it is quite possible and happens not so very infre-

Ouite Common

I have had polypus removed from the nose by operation three times, and now must have it done again. Can it not be removed so it will not come back? Is there not something one can do to prevent it?—F. T. R.

It is quite common for nasal polypi to recur because they easily grow again on the old site. But a skillful operator can remove a polypus in such a way that it will not return. It depends on getting the whole pedicle of the polypus, down to sound tissue.

New Strawberry Stood Long Trip

By JAMES SENTER BRAZELTON

Lakia Shields, manager of the Wathena Apple Growers' Association, and an extensive strawberry grower, tells of his experience with a new strawberry variety called the Robinson. He said he received a special order last spring for a crate of strawberries to be shipped to Chicago. On account of the distance, making strawberry shipments from Wathena to Chicago is not a common practice. But he-RA SHIELDS, manager of the cago is not a common practice. But be-cause this new strawberry had shown evidence of being less perishable Mr. Shields selected a crate to fill his order. Because of floods the shipment was delayed. The crate of Robinson straw-

delayed. The crate of Robinson straw-berries did not reach its destination for 36 hours after it had been shipped. Mr. Shields was very much surprised at the report received from his customer. The berries arrived in good condition, and only one berry in all of the 24 boxes showed any signs of deterioration. This experience would indicate this new va-flety will make an excellent shipper. This strawberry is grown by Adolph

This strawberry is grown by Adolph Mosier, who lives north of Wathena, and he seems to be the only one who has it. His original planting consisted of only a few plants, but from this small beginning he now has quite a planting of this variety. Any plants he may have

or this variety. Any plants he may have to spare this spring are already sold.

The Robinson ripens 10 days to 2 weeks later than Premier. The berries are so large it only takes 30 of them to fill a quart, they say. It will produce a crop every year under most unfavorable conditions.

W. G. Amstein, extension horticulw. G. Amstein, extension norticul-turist, mentioning new peach varieties, said peach growing would be more suc-cessful if the growers would plant the newer varieties which are more hardy than the old standbys—such as Elberta, J. H. Hale.

Red Haven, an early yellow freestone colored a brilliant red when ripe, is highly recommended as a canning peach and also fine for freezing. Fairhaven was mentioned as the newest peach of the famous "Haven" group. It ripens 3 weeks before Elberta. Trio-gem, a large yellow freestone, ripening just before Halehaven, is an all-pur-pose peach. Sullivan Early Elberta is described as identical to the best strain of Elberta, but ripening one week ear-

Mr. Amstein speaks highly of Raritan Rose, which, he said, is an early, hardy white peach of highest quality. It produced a crop following a minus 18-degree temperature. This is the peach that H. L. Drake, of Bethel, has mentioned frequently.



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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. Western Land Roller Co., Box 914, Hastings, Nebr

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left her glone."

Styles and Designs for DRESS AND SERVICE mentioned frequently.

Elbert L. Eshbaugh, resident entomologist, tells of experimental work that has been done in the control of orchard insects. In the Blair Experimental Orchard there were 17 separate plots. Each had a different insecticidal combination used on it for control of codling moth. On only 7 plots out of the 17 were results satisfactory.

The 7 successful combinations were:
(1) Black Leaf 155 and DDT and summer oil emulsion; (2) DDT plus IN-4200; (3) Black Leaf 155 plus summer oil emulsion; (4) lead arsenate, zinc sulphate and summer oil emulsion; (5) DDT plus DN-111; (6) DDT plus DN Dry Mix No. 1; (7) Miticidal DDT. The check plot which received no insecticide sprays during the summer showed only 8.24 per cent clean fruit. Hyer boots have been the tops in quality for over 70 years. Only one kind of material is used . . . the best that can be obtained! You can buy these boots out of regular stock or have them custom-made. In Hyer boots you get the benefit of 4 generations of bootmaking experience in pleasing the most particular people. Ask your dealer for Hyer Boots or write direct for dealer's name. Hyer Makes Boots C. H. HYER and SONS For Him • Her Makers of Fine Boots Since 1875 OLATHE, KANSAS The state of the s

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Practice Makes Perfect

Say the Home Bakers

By Florence McKinney

THE finest breads and fancy rolls come from the home kitchen. And with practice, any homemaker can become the expert she desires to be. Turning out good bread and beautiful sweet rolls is no mystery . . . it takes exactly 3 things, a good recipe, accurate measuring and practice. That practice makes perfect. Modern yeasts are a timesaver and have taken the business of home baking out of the experimental field. Granular yeast or compressed yeast is on the market everywhere. Flour which is now enriched with the necessary minerals and vitamins makes beautiful, good-tasting and nutritious bread.

Enriched Bread

- 1 package yeast, dry 2 tablespoons sugar granular or compressed 34 cup lukewarm water 2 cups milk 2 tablespoons salt 6 cups sifted enriched flour (about) 1 tablespoon shortening

Soften yeast in lukewarm water. Scald milk. Add sugar, salt and shortening. Cool to lukewarm (80° to 85° F.). When cooled, add 2 cups flour, stirring well. Add softened yeast. Add enough more flour to make a moderately stiff dough. Turn out on lightly floured board and knead until smooth and satiny (5 to 8 minutes). Shape into ball and place in lightly greased bowl. Grease surface of dough lightly. Cover and let rise until doubled in bulk (about 1½ hours). Punch down. Let rise again until doubled (about 45 minutes). If pre-ferred, shape dough into loaves after first rising, Divide dough into 2 equal portions. Shape each portion into smooth ball. Let rest 10 minutes. Shape into loaves. Place in greased bread pans. Let rise until doubled (about 1 hour). Bake in pre-heated, moderately hot oven (400° F.) for about 50 minutes. Yields 2 one-pound loaves.

Fan Tans

1 package yeast, dry granular or compressed ¼ cup lukewarm water

1678876167887616788

- 2 teaspoons salt 6 cups sifted enriched flour (about) melted butter or
- s milk 2 tablespoons sugar
 - margarine 1 tablespoon shortening

Soften yeast in lukewarm water. Scald milk. Add sugar, salt and shortening. Cool to lukewarm. Add 2 cups flour. Beat well. Add softened yeast. Mix well. Add enough more flour to make a soft





Above: Braid 3 long rolls and place in ring on baking sheet. When baked frost with confectioners' icing.

Left: Place each butterscotch roll in muffin tin. Brown sugar and butter gives flavor of butterscotch.

dough. Turn out on lightly floured board and knead until smooth and satiny (5 to 8 minutes). Place in greased bowl, cover and let rise until doubled in bulk. Punch down. Cover and let rest 10 minutes. Roll dough into very thin rectangular sheet. Brush with melted butter or margarine. Cut in strips about 1 inch wide. Pile 6 or 7 strips together. Cut pieces 1½ inches long and place on end in greased muffin tins. Let rise until doubled. Bake in preheated, moderately hot oven (400° F.) for about 15 to 20 minutes. Yields about 3½ dozen fan tans.

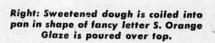
Butterscotch Rolls

- 2 packages yeast, dry granular or compressed 34 cup lukewarm water
- 1 cup milk
- ½ cup sugar 2 teaspoons salt
- eggs 14 cup melted shortening
- 1 teaspoon grated lemon rind (if desired) 5 cups sifted enriched
- flour (about)
- ½ cup melted butter or margarine 1½ cups brown sugar

Into each muffin cup put 1/2 teaspoon butter and 1 teaspoon brown sugar. Sprinkle with ½ teaspoon water. Soften yeast in lukewarm water. Scald milk. Add sugar and salt. Cool to lukewarm. Add 2 cups flour. Mix well. Add softened yeast, eggs and lemon rind. Beat well. Add shortening and mix

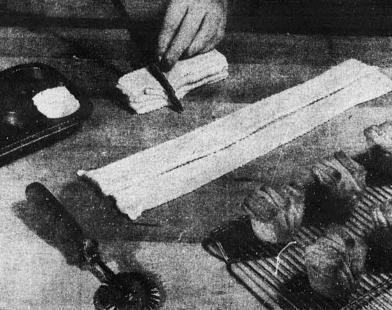
well. Add more flour to make a soft dough. Turn out on a lightly floured board and knead until smooth and satiny. Place in greased bowl, cover and let rise until doubled in bulk (about 1½ hours). When light, punch down, Let rest 10 minutes. Roll dough out into rectangular sheet ½-inch thick and 9 inches wide. Brush lightly with melted butter and sprinkle generously with brown sugar. Roll jelly-roll fashion, sealing edges. Cut into 1-inch pieces. Place slices cut side down into prepared muffin tins. Cover and let rise until doubled. Bake in preheated moderate oven (375° F.) for 20 to 25 min-utes. Let rolls stand in pans one minute before turning out. [Continued on Page 16]







Above: Use dry granular or compressed yeast and enriched flour to make nutritious bread.



Right: Fan Tans . . . just another way to make attractive plain rolls. Cut dough in strips and pile strips together.

Homemaking **4**

It's Good Winter Eating

WITH corn in the crib you have the makings of some mighty good food for cold winter months. Lye hominy can be made easily at home from either white or yellow corn. Yellow corn, of course, is more valuable from the standpoint of food value.

Select ears of corn which are mature

Select ears of corn which are mature and have large, well-developed kernels. Discard the imperfect kernels. Use only an enameled kettle or iron pot in which to cook the corn with the lye water. Stir with a large wooden spoon.

To Make Hominy

4 cups cold water 2 gallons boiling 4 quarts shelled water

level tablespoons

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Put lye into kettle and add cold water. When lye is dissolved, add boiling water and mix thoroly. Stir in the corn and bring to boiling point. Boil about and bring to boiling point. Boil about 20 minutes, stirring constantly. If the mixture cooks down so thick that it begins to stick, add more boiling water. After boiling for about 20 minutes, test some corn. If the black eyes rub off easily, the corn is ready to be washed. If not, cook a few minutes more and test. more and test.

Remove from stove, pour into sink

Remove from stove, pour into sink or into kettle of cold water. If in sink, run cold water over the corn and stir with wooden spoon to wash away lye and rub off eyes. Put corn in kettle, cover with cold water, bring to boil and pour off water. Repeat this 3 or 4 times. Now the corn is ready to cook. Cover with cold water, cook for 3 or 4 hours. Salt may be added to season the corn if desired. If not, season corn when preparing it for the table. Four quarts of corn will make from 12 to 16 quarts of hominy. quarts of hominy.

Hominy will keep for some time if using will help.

kept very cold. Freeze or can if you wish to keep for several weeks.

Every-Day Hominy

Cut 2 or 3 bacon slices into small pieces and fry. When nearly done, add enough hominy for family and thoroly heat and stir until well seasoned. Serve at once. Left-over bacon fat may be used instead of bacon slices.

Casserole of Meat and Hominy

Drain 2 cups hominy, put in buttered casserole in layers, alternating with 1 cup of chopped meat, beef or chicken. Add salt, pepper, chopped parsley and onion salt. Add 2 cups of meat stock or hominy liquid. Cover with buttered crumbs and bake for 1 hour in moderate oven (350° F.).

Hominy Loaf

2 cups hominy 1 cup milk 1 cup soft bread

1 cup grated cheese 1 teaspoon onion

1 tablespoon green

1 tablespoon

1 teaspoon salt

Scald milk, add bread crumbs. cheese, seasonings, beaten eggs and hominy. Pour into oiled baking dish, set in pan of hot water and bake in moderate oven. Serve with tomato

Prevents Freezing

If lines are rubbed with vinegar before hanging up clothes, the fabric is less likely to freeze and stick. Clothes-pins warmed in the oven just before

Pattern Headliners



9058—Swing along to any social function in this perfect frock. Choose from either of 2 belts to belittle your middle. Sizes 11 to 17. Size 13 takes 3% yards of 39-inch material; 1 yard of 6-inch

9307—A bright mate for any blouse or jacket. This smart skirt has the new back interest. Sizes 24 to 32 inches. Size 28 uses 2 yards of 54-inch material.

4950—You'll love this crisp frock for square dancing, school or those special coke-dates. Notice the soft scallops,

full skirt and square neckline. Sizes 10 16. Size 12 uses 4 yards of 35-inch material.

4546-A cleverly styled casual with large cuffs, wide rever collar and slimming curved seams. Sizes 12 to 20 and 30 to 42. Size 16 requires 3% yards of 39-inch material.

4900—Little tot's duet! One frock with checks and bias bands for school; the other for parties. Sizes 2 to 10. Size 6 requires 2½ yards of 35-inch material





Get this important book on meat curing

More than 1,000,000 copies of "Home Meat Curing Made Easy" have already gone in to farm homes. Shows how to butcher, dress, chill, and cure pork, beef, veal, and lamb... to make smoked turkey, Canadian Bacon, sausage. Tells the important things to do to get long keeping quality and fine flavor in home cured meat. Send for copy today. Just write name and address on margin and mail with 10¢ in coin to Morton Salt Co., P.O. Box 781, Chicago 90, Ill.

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"-NO MORE **UPSET STOMACH"**

Do you suffer heartburn after meals?...feel logy? .. uncomfortable? Then read this heartening letter from a woman who found her way to betterdigestionand 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 caffein, and caffein 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 caffein 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.



The Story of THE CAPPER **FOUNDATION**

The CAPPER FOUNDATION for CRIPPLED CHILDREN Capper Bldg., Topeka, Kan.



To Relieve Your Cough, Mix This Recipe, at Home

Big Saving. No Cooking. So Easy.

You'll be surprised how quickly and easily you can relieve coughs due to colds, when you try this splendid recipe. It gives you about four times as much cough medicine for your money, and you'll find it truly wonderful, for real relief.

Make a syrup by stirring 2 cups of granulated sugar and one cup of water a few moments, until dissolved. No cooking needed—it's no trouble at all. (Or you can use corn syrup or liquid honey, instead of sugar syrup.) Then put 2½ ounces of Pinex (obtained from any druggist) in a pint bottle, and fill up with your syrup. This makes a full pint of medicine that will please you by its quick action. It never spoils, lasts a long time, and tastes fine—children love it.

This simple mixture takes right hold of a cough. For real results, you've never seen anything better. It loosens the phlegm, soothes the irritated membranes, quickly eases soreness and difficult breathing.

Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action in coughs and bronchial irritations. Money refunded if it doesn't please you in every way.

Homemaking

Winners in Food Preparation



Mae Meinen, of Ruleton, fourth from left, was one of 5 national winners in food preparation the Servel Company announced recently at the National 4-H Club Congress. Mae is now attending Kansas State College where she takes home economics. She served more than 1,000 dishes, bakings and lunches during her 8 years in 4-H Club work. She has canned, stored and dried large amounts of food. Executive Chef Wagner, of the Stevens Hotel in Chicago, shows the winners how to prepare food on a large scale.

Practice Makes Perfect

(Continued from Page 14)

Recipe yields about 31/2 dozen rolls.

Orange Glazed Coffee Whirl

- package yeast, dry granular or compressed
- 1/4 cup lukewarm water
- cup milk
- 1/4 cup sugar
- 2 tablespoons shortening teaspoon salt 1 egg, beaten
- 21/2 cups sifted, enriched flour (about)
- Orange Glaze
 1 cup confectioners' sugar
- 1 tablespoon
- orange rind 3 tablespoons
- orange juice

Combine ingredients for Orange Glaze and mix together until smooth. Soften yeast in lukewarm water. Scald milk. yeast in lukewarm water. Scald milk. Add sugar, shortening and salt. Cool to lukewarm. Add 1 cup flour. Mix well. Add egg and softened yeast. Add remaining flour to make a soft dough. Turn out on lightly floured board and knead until smooth and satiny. Place in greased bowl, cover and let rise until doubled (about 1½ hours). Punch down. Let rest 10 minutes. Roll dough under hands to long strand 1 inch in under hands to long strand 1 inch in diameter. Coll dough into greased pan, 8 by 12 inches, starting at center of top of letter S and coiling dough into an S. Let rise until doubled. When light, pour Orange Glaze over dough and bake in moderate oven (375° F.) for about 25 to 30 minutes. Turn out of pan at once. Yields 1 coffeecake, 8 by 12 inches.

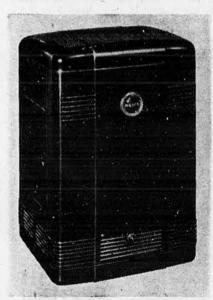
Braided Coffeecake

- 2 packages yeast, dry granular or compressed
- 1/4 cup lukewarm water
- 1 cup milk ½ cup sugar
- 2 teaspoons salt 1/4 cup melted shortening
- 2 eggs 1 teaspoon grated lemon rind (if desired)
- 5 cups sifted en-riched flour
- chopped nuts confectioners sugar icing

Soften yeast in lukewarm water, Scald milk. Add sugar and salt. Cool to lukewarm. Add 2 cups flour. Mix well. Add softened yeast, eggs and lemon rind. Beat well. Add shortening. Mix well. Add more flour to make a soft dough. Turn out on lightly floured board and knead until smooth and satiny. Place in a greased bowl, cover and let rise until doubled in bulk. Punch down. Divide dough into 2 equal parts. down. Divide dough into 2 equal parts. Cover and let rest 10 minutes. Divide each portion into 3 equal parts. Roll each part out under hands to long, smooth rolls. Braid 3 rolls and place in ring on greased baking sheet. Pinch ends together to seal. Let rise until doubled. Bake in preheated, moderate oven (375° F.) 25 to 30 minutes. When cool, make confectioners' sugar icing by mixing ½ cup powdered sugar, 2 teaspoons milk and ½ teaspoon vanilla extract. Frost with icing and sprinkle with chopped nuts. Yields 2 coffeecake rings.

To keep clothes from freezing to the clothesline, boil the pins in strong salt water. Usually once will be enough.

New Fuel Oil Heater



Synchronized louvers to direct heat at floor level, large top grille for circulating warmth and a no-stoop dial control for fuel adjustment are modern features of the NESCO fuel oil heater. Retail price about \$99.95. A big improvement over old models.

On Learning to Read

Each new word you learn, Is like a shining key That opens doors to wonderland, Of earth and sky and sea.

Each new word you learn,
Is like a silver coin,
To keep in your own treasure chest With other words to join.

Each new word you learn,
Is like a flashing dart,
And if you aim it worthily
May gladden many a heart. -By Camilla Walch Wilson. qui a 1 blo dir To the

Homemaking <

Judy Canova Was Part of the Fun



Judy Canova, of Hollywood and radio fame, entertained the 4-H Club folks at the National 4-H Club Congress, held in Chicago from November 28 to Decem-ber 2. Here she is shown signing autographs for 2 Canadian 4-H Club girls.

Books On Review

An Explorer Comes Home

An Explorer Comes Home
Roy Chapman Andrews, author of this enchanting book, "An Explorer Comes Home," is well known not only in our country but in far-away places where he has explored the by-ways. He spent years in the Gobi Desert of Asia, more time in the Arctic. Hundreds of thousands of dollars were spent to find the origins of the prehistoric dinosaurs. But Doctor Andrews now has returned to the quiet life and retired after a fashion to a farm in Connecticut among the Berkshire Hills. "An Explorer Comes Home" is an account of his life and that of his wife, Billie, on the farm. It is a charming book about their experiences while fishing,

The Penny-Saver Quilt

hunting, movie making, their pets, their adventures in building a home. Published by Doubleday and Company, Inc., Garden City, New York.

Get in There and Paint

How to Paint Pictures for Fun is the second title of this book and from beginning to end that is exactly the thing it explains. The author, Joseph Alger, handles promotion work for Life Magazine in New York. That's his job . . . what he does for fun is paint.

Life Magazine in New York. That's his job... what he does for fun is paint. This book tells in simple language, together with illustrations, exactly how to proceed to paint your first and second pictures... in oils not water colors. Alger lists the supply of materials needed for the amateur, what objects to paint first and why, how to sketch with charcoal, how to get proper perspective, how to mix paints to get the needed colors.

The author was prompted to write

to get the needed colors.

The author was prompted to write this book "because there are too many books either too technical for amateurs, or they take the quack attitude that painting is a push-over."

"Get in There and Paint" is published by Thomas Y. Crowell Company of New York City.

I Love My Doctor

Evelyn Barkins, the author, loves her doctor all right. She is married to her doctor all right. She is married to him. Here is the actual story of a young woman, a law student in New York City, engaged to be married to a doctor getting ready to hang out his shingle in a new and untried section of the city. First, her family thought she was too young and they "just knew" there would be nothing to live on. She did have to show her birth certificate at the marriage bureau true, but love had.

have to show her birth certificate at the marriage bureau, true, but love had smooth sailing even thru the apartment-office hunting period.

The book includes the first everything, the first patient, the first party, her first illness, their first quarrel and finally the first baby. All in all, it's the unconventional story of a most conventional marriage tional marriage.

I Love My Doctor, by Evelyn Bar-kins, is published by Thomas Y. Crow-ell Company, New York City.

7217



Make this hit-or-miss endless chain quilt by the Penny-Saver method. Buy a little fabric at a time, make a few blocks a month. Complete pattern and directions.

To obtain Pattern No. 7217 send 20 cents to the Needlework Editor, Kansas Farmer, Topeka.

February Parties

Our two leaflets that offer suggestions for entertainment at par-ties in February are, "That Febru-ary Party," and "A Hearty Party." There are games, contests and suggestions for decorations. Price 3c each or both leaflets for 5c. Please order from Entertainment Editor. Kansas Farmer, Topeka.



HERE'S Henry Field's FREE GIFT to help you have the best garden ever this year. To folks who mail the coupon right away, Henry will send 200 seeds of his famous Red Bird Tomato. It's the early tomato, ripe in 63 days from seed! Good canner, dandy for slicing, too. FREE FOR THE ASKING so you can see how Henry Field's seeds grow bigger, better surer crops. Just mail coupon. If you send at once, Henry will also include new seed catalog and free copy of "Seed Sense" maga-zine along with your free tomato seeds. Get yours today. Appreciate if you send along 3c stamp to help with mailing.

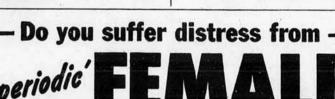


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If the functional 'middleage, period peculiar to women
makes you suffer from hot
flashes, weak, highstrung,
ham's Compound to Pinksuch symptoms, it's Jamous
or this purpose.

Q Lydia E. Pinkham's COMPOUND

What the Grange Wants

As Stated in Annual Meeting in Topeka

RAY TEADGARDEN, of LaCygne, was re-elected master of the Kansas State Grange, at the annual convention in Topeka, December 14-16. Other officers elected are: Overseer, Harry C. Colglazier, Larned; lecturer, Claude Brey, Ozawkie; steward, Otis Douglass, Burlington; assistant steward, Milford O. Blair, Lehigh; chaplain, Mrs. H. Fern Curtiss, Garnett; treasurer, Theodore Wehrle, Scranton; secretary, Frank A. Stiles, R. 1, Topeka; gatekeeper, Clayton Wiswell, R. 3, Olathe; Ceres, Mrs. Stella Mae Romig, R. 4, Independence; Pomona, Mrs. Anith Sparke, Lewis; Flora, Mrs. Maxine Browne, R. 2, Liberal; lady assistant steward, Mrs. Gladys Decker, LeRoy. E. R. Allen, Havana, was elected for a 3-year-term on the executive committee. AY TEADGARDEN, of LaCygne,

tee.
The meeting was the 10th state
Grange session held in Topeka and the Toth annual session of the group. Shaw-nee County Pomona Grange conferred the fifth degree upon a class of 53 can-didates, and state Grange officers con-ferred the sixth degree to a class of 142 candidates. candidates

An important change in the constiwhen delegates voted to set their next meeting in advance for the third Tuesday in October. The next state meeting will be held at Olathe.

A total of 98 resolutions were passed during the Topeka session. Some of the

during the Topeka session. Some of the high lights of these included "favoring an amendment governing the township



board, in levying a 3-mill tax without

"We ask the present restriction in the elementary school aid distribution law of less than 10 pupils be revised to read: aid to be given to schools of 5 or more pupils more pupils.

"We favor retention of local control

of our school districts.

"We oppose federalization and centralization of public school authority.

"We favor a severance tax on the

minerals produced in Kansas, the proceeds from which shall be specifically allocated to educational purposes in

allocated to educational purposes in our elementary schools.
"We favor enactment of stricter enforcement of quarantine laws in cases of Bang's, T.B., and other contagious diseases in livestock.
"We request the bounty on coyotes be increased or definite means of eradication be established.

cation be established.
"The quiet title suits are an extra and added expense to the purchase of land. Therefore, all defects or errors 50 years old or older in abstracts of title be declared void and title guaranteed by the

'We favor the principles of the Hope-

"We favor the principles of the Hope-Flannagan Act in the study for better marketing of agriculture seeds. "We favor changing the present law giving the commissioner of insurance the right to tell an insurance company

the rate that must be charged so that no rate shall be excessive as long as free competition exists and the word 'inadequate' be changed so that no rate shall be 'inadequate' unless it impairs the solvency of the company using such rate.

'We recommend that members of our Grange organization work and strive for a long-range program for more and better school facilities and better qualified teachers

The date now used for the Government commodity credit loan on stored wheat and corn terminates at a time which makes it impossible for the grain stored on farms to be moved out of the stored on farms to be moved out of the storage space in time to store the next year's crop in the same bin. Therefore, we favor the advancement of this stor-age date 30 days earlier than at the present time."

Several hundred delegates attended.

LE HELE = FOOD LABORATORY

Making Milk Tests To Improve Quality

EETING an emergency was one of the first duties of the new Kansas mobile milk-testing laboratory, according to Harry E. Dodge, state

mobile milk-testing laboratory, according to Harry E. Dodge, state dairy commissioner, of the Kansas State Board of Agriculture.

The mobile laboratory officially started testing work in the Manhattan area, but a serious epidemic developed at Emporia, claiming several babies lives, and the truck was sent to that area for bacterial work and tests on milk supplies. Later, Mr. Dodge stated, it was learned that factors other than milk were the cause of the epidemic. Raising the quality of Kansas milk supplies to levels above the present high standards is the primary goal of the new mobile laboratory. It is an innovation in the Kansas dairy scene that is proving of interest to both consumers and producers thruout the state. Dodge commented that the proposal and development of the testing unit was outlined by a joint dairy committee of the Kansas State Board of Agriculture and Board of Health. Under this plan the two boards are sharing in the operation and expense of the work.

The truck housing the mobile laboratory is a war surplus army tran. port equipped with a completely modern bacterial laboratory. Two men, at present, are working with the truck in making the milk tests. A bacteriologist conducts the laboratory tests, and an experienced dairy inspector is making

ducts the laboratory tests, and an experienced dairy inspector is making studies of field conditions affecting the community milk supply and collecting the necessary laboratory samples.

The laboratory tests now being made, Dodge stated, include the usual sediment test, a plate test to determine the

ment test, a plate test to determine the bacteria count and a phosphatase test to show the efficiency of pasteurization. All milk supplies are being checked

milk-testing laboratory. This truck was formerly an army transport that was purchased as war surplus and has been fitted with a model testing laboratory.

Board of Health mobile

M ta sw tic cr

from the time they arrive at the milk processing plant until completely fin-ished and ready for the consumer market. Raw milk producers are included

in the tests.

In communities where milk supplies are found to be under standard, dairy division inspectors plan to work closely with producers and processors to improve conditions and increase quality. All communities will be checked regardless of whether they have a milk-inspection service, altho the inspectors will co-operate with local milk officials. The work is new and some changes are expected to be put into effect as the need is shown thru actual field operations. Both the Board of Agriculture and Board of Health, Dodge commented, hope to greatly increase the scope of this work as rapidly as possible.

In making the tests, the present procedure, as outlined by Dodge, is to move the laboratory to a central part of a milk district and then check all supplies within a radius of about 50 miles.



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GRANDMA . . . By Charles Kuhn

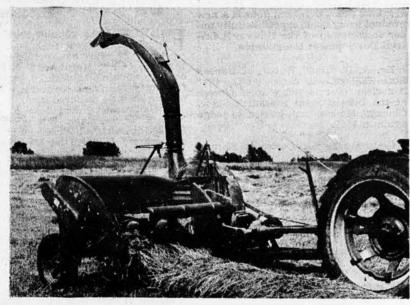








New Hay Chopper for 1949



Here is the new International Harvester No. 75-P field hav chapper for use in esting grass or forage crops for ensiling and for field chopping dry hay to lown in mows. It is a combination of Harvester's No. 9 ensilage cutter rotor complete with knives, housing and transmission and the pickup and feeding mechanism is the same as used on the No. 50-T pickup baler. The spout can be directed to deliver either to a trailing wagon or to a truck or wagon traveling beside the chopper in the field. This machine will be in limited production in 1949.

Fertilizer and Clover Restore High Yields

A COMBINATION of lime, sweet clover and phosphate is the key to improving soil fertility on the Lyle Myer farm, Neosho county. He says it takes both lime and phosphate to make sweet clover do well. And the combination of the 3 helps succeeding grain

A year ago he seeded 17 acres of sweet clover with oats in limed soil. With it he used 50 pounds of 60 per cent phosphate an acre, but he shut off the phosphate for one drill row. Last spring sweet clover was thin and about 2 feet tall where no phosphate was applied. tall where no phosphate was applied. With the fertilizer it was thick on the ground and taller than the average

But what will the combination do for following crops? Mr. Myer points to another field which he started farming 11 years ago. The background on this field was dismal. It had grown corn un-

field was dismal. It had grown corn until corn was no longer profitable. Then it was used for kafir production.

The first step was to terrace the field and put a stop to formations of gullies. Then he applied 3 tons of lime and started a rapid rotation of oats, sweet clover and small grain. With these crops he applied 70 to 80 pounds of 45 per cent phosphate.

The first oats yield was 20 bushels an acre. It continued to improve in the rotation until 1946 when the yield was

COMBINATION of lime, sweet 90 bushels an acre. The first year he clover and phosphate is the key to improving soil fertility on the Lyle clover the yield was 20 bushels an acre. Maybe that wasn't bad for wheat, but Mr. Myer points out it was one of those good wheat years. The last time it was in wheat was 1947. That was a good wheat year, too. The yield this time was 44 bushels an acre.

Yield increases were so obvious there is no doubt about the cause. That is why Mr. Meyer has more lime, sweet clover and phosphate in mind for his

Winter Use for DDT

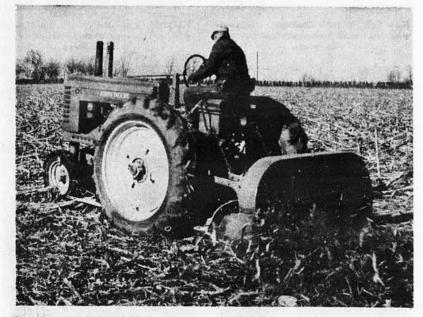
Sprinkling DDT on snow and ice in Arctic areas is being used to kill the first mosquitoes that hatch in the spring. As little as a tenth of a pound to the acre, spread by airplane, does the work.

Entomologists also report that 1 to 3 pounds of DDT an acre applied in the fall on snow in Oregon and Washington prevented larvae from developing the following spring, and water in the area continued deadly to mosquitoes during the summer. the summer.

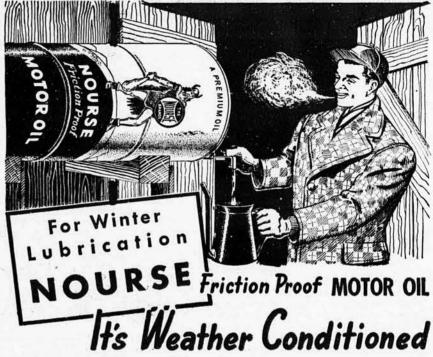
Renew Card Table

I put a new face on an old card table by pasting pretty wallpaper over the top, then a coat of shellac.—Mrs. W. T.

New Stalk Cutter on the Job



New 2-row, power-driven "Quik-Tatch" John Deere stalk cutter. Four sets of high carbon reversible, rotating blades on each row work close to ground, thoroly shredding the stalks, and spreading residue evenly on field. Cuts stalks when wet or dry. Direct V-belt drive from power shaft of tractor to cutter wheel pulleys. Cutting height easily controlled by power lift on tractor. Tractor operated in second or third gear, depending upon conditions. Specially designed baffle plate under cutter shield prevents windrowing of cut and shredded material.



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High Lights of 1948

RIENDS of J. C. Mohler, secretary of the Kansas State Board of Agriculture, presented the state with an oil portrait of Mr. Mohler at the annual banquet of the State Board.

Milton S. Eisenhower, president, Kansas State College, charged that the "U. S. is achieving 10 cents worth of conservation for each dollar spent in the program." His remarks touched off a nation-wide discussion on soil conservation programs and Government practice payments.

George Montgomery, Kansas State College economist, predicted in Janu-ary, 1948, that farm prices would re-main high thru 1948, but that net income would not equal that of 1947. This prediction proved generally true. Farm prices fell off some and farm expenses continued to rice. continued to rise.

The first marked route for personal airplanes thru Kansas became a reality. It is Skyway 11, running north and south across the state.

Under a Federal grant, Kansas State College agricultural economists began the most complete study ever under-taken on marketing poultry and eggs under various conditions.

Nitrogen on wheat and oats made a good profit in 1948. Top-dressings of ammonium nitrate on both crops in-creased yields in all parts of the state.

The Western Kansas Development Association sponsored an industrial tour. Eighty Western Kansas farmers and businessmen toured plants in Cen-tral and Eastern Kansas to study manufacturing methods, and to inform in-dustrialists about Western Kansas advantages.

A new Federal Aid program for rural clinic-type hospitals got under way. Kansas will receive \$4,667,250 for this purpose in the next 5 years.

Sprinkler-type irrigation opened up new areas of irrigation in Kansas, es-pecially for specialty crops such as certified seed production. Manufactur-ers of sprinkler equipment said they could not meet the demand.

Friends of the new Rock Springs state 4-H camp launched a \$750,000 campaign for camp improvement

The state's first farm-marketing director took office in February. He is Kimball L. Backus, former Wyandotte county agent. This new marketing division of the State Board of Agriculture now is working with farmers on a voluntary program of grading and marketing Kansas farm products.

Another new division of the State Board of Agriculture also was installed during 1948. It is the Division of Weights and Measures, under the di-rection of J. Fred True. In the first few months of operation, a high percentage of tested scales were found unsatisfac-

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83.

Possibly the first grass-silage clinic in Kansas was held in February in Wabaunsee county. Farmers from 27 counties attended. Grass silage became increasingly popular during the year in both beef and dairy feeding.

The new weed killer, 2,4-D received a lot of publicity during the year. Thousands of acres of Kansas wheat infested by weeds were salvaged thru spraying operations, which were very successful. Very good success also was reported in use of 2,4-D spraying for clearing pastures of brush and weeds. Use of the weed killer on corn and other crops was successful in some cases.

Bluestem area ranchers hired air-planes to seed lespedeza in pastures to improve grazing conditions. Similar methods were used in Southwest Kansas for reseeding native grasses.

Several Kansas farmers installed mow hay-drying equipment in an effort to beat the weather. They report good results.

A project to improve Kansas beef cattle thru breeding methods was announced at the Kansas State College experiment station, Manhattan. The new grass utilization project at the college station also was put into operation during the year. Interesting results are expected.

Kansas Holstein breeders were co-hosts with Missouri breeders to the 63rd annual convention of the Holstein-Friesian Association of America, in Kansas City. Kansas City.

Kansas farmers got their first in-formation (thru Kansas Farmer) on a new Government flood control project to be launched soon. The program, based on a 30-year project, is to con-trol farm water runoff in the uplands, in addition to stream reservoirs and other improvements in the valleys. Visitors at the Kansas Free Fair and Kansas State Fair had their first taste of cookies made from 100 per cent sorghum flour. Sorghum flour is a new product being made experimentally under sponsorship of the Kansas Industrial Development Commission.

Dr. A. D. "Dad" Weber, of Kansas State College, was chosen as the first American ever to judge steer classes at the International Livestock Show, Chicago. He has been chosen to judge again in 1949.

Governor Frank Carlson's 22-man road committee announced a 20-year highway improvement program for Kansas, with many suggested changes for raising revenue and in handling highway affairs.

Kansas Flying Farmers completed plans for an air good-will trip to Mex-ico early in 1949, where they will be guests of high Government officials.

Fence for Rotation

ENCING acreage into even-sized fields is a good way to make rotations more convenient on a normal crops and livestock farm. That is what L. E. Willis, Neosho county, did about 10 years ago when he started a 4-year rotation of oats and sweet clover, small grain and row crop. Dividing the fields helps his pasture program and the crop

helps his pasture program and the crop rotation has improved his yields.
Out of 78 acres of cropland, he used 10 acres for alfalfa. The remaining 68 acres was divided into 4 13-acre fields and 2 fields of 8 acres each handled as one field. He intends to use less alfalfa in the future but it will not a fields. in the future, but it will not change his rotation materially.

In the last 10 years he has made a practice of mixing 400 pounds of lime

and 100 pounds of 20 per cent phosphate and applying it to fields with sweet clover when seeding with the oats. This program of rotation and fer-

oats. This program of rotation and fertilization has resulted in a gradual improvement of soil fertility.

When he first moved on his farm 18 years ago, Mr. Willis says the best barley he could produce was about 15 bushels an acre. In 1947 his barley made 42 bushels. Last summer 38.

His early wheat yields ranged from a low of 9 to almost 20 bushels. But he could never quite get 20. In 1947 Co-

could never quite get 20. In 1947, Co-manche wheat yielded almost 30 bush-els. Last summer it was so wet he was unable to finish combining until the last of August. His average still was 25 bushels an acre.

Better Soil On Same Farm

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ARMING along contour lines may seem a bothersome task. But after nearly 20 years of experience with terraces, Earl Reinhardt, Neosho county, wouldn't be without them. In fact, he is planning more terraces right

fact, he is planning more terraces right now on recently acquired land.

Little terracing had been done in Kansas 20 years ago. But when Mr. Reinhardt finished high school in 1929 and started to farm on his own, he started terracing. This early start with soil conservation was due partly, he says, to his Vocational Agriculture training, partly due to suggestions by his county agent, Lester Shepard. And sweet clover in the rotation followed right along with his soil-conserving program.

sweet clover in the rotation followed right along with his soil-conserving program.

Mistakes were made on the first field. The terraces drain water the wrong way. Someday that will need to be fixed. But it hasn't discouraged Mr. Reinhardt. He is going ahead with complete plans on recently acquired acreages. Lime was necessary with the sweet clover. And for the last 10 years phosphate has been added to the soil. A combination of all these practices has improved the productivity of the farm. How much? Two and even 3 times over what it was, Mr. Reinhardt says.

He supports that statement with actual figures. When I was a kid, he says, 8 or 9 bushels of flax an acre was good on this farm. Now he aims at 20 bushels and more, and is not quite satisfied if he doesn't get it. Yields of 25 or 30 bushels were good for oats. The same crop now is expected to make 50 to 60 bushels.

He grows only small amounts of corn

He grows only small amounts of corn now. But he has improved his yields from about 35 up to 50 and 60 bushels

National 4-H Winners

Honor Guests at Board of Agriculture Meet January 12-14



Maurice McClure - Walton, National in sheep shearing competition at the 4-H Congress.



Mae Bell Meinen-Ruleton, National winner in food preparation at the 4-H Congress.



Herman Popp-Haven, National winanimal competition at the 4-H Congress.



tional winner in better health at the 4-H Congress.



Walter Vitt-St. Paul, National winns in tractor maintenance at the 4-H Congress.



Arkansas City, National winner in soil conservation at the 4-H Congress.

From a Marketing Viewpoint

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

I am feeding some hogs that are about ready for market but would rather sell in January. Do you think prices will come back enough to pay me to hold my hogs until January or February?—G. N.

It would be extremely difficult to give a specific answer to your question because it depends somewhat on the present weight of your hogs, and there is considerable uncertainty as to what livestock prices will do after the first of the year.

If these hogs already are weighing 20 to 230 pounds, it might be best to go on to market with them within the next 2 weeks. If you keep them much longer they will get too heavy to bring top prices. Also, the efficiency of gain decreases for hogs fed to heavy weights. In regard to price advances, there is much uncertainty. However, if the cur-

much uncertainty. However, if the current trend toward lower farm prices continues the seasonal increase normally expected in January and February may be less than usual. It is not exary may be less than usual. It is not expected that income tax considerations will have an appreciable effect on marketings of livestock.

On to Mexico

Mexico in January. That is where a large number of Kansas Flying Farmers will be found this month. Counting noses after the De-cember 20 deadline, William Jans-

cember 20 deadline, William Janssen, McPherson, chairman of the Mexico trip committee, reported he had received 141 requests for reservations at Monterrey. Out of that flight 115 intend to go south to Mexico City for several more days of vacation in the capital city. Approximately 75 planes will meet Laredo Texas January 14 to at Laredo, Texas, January 14 to clear customs. From there they will be escorted to Monterrey by members of the Monterrey flying

From Monterrey some of the vacationers will travel south along the scenic Pan-American highway to Mexico City. Others will fly the inland route, which will be much faster but less attractive from the standpoint of the sight-seer.

Three Plays in One

Majoress Bow-wow's Amateur Hour—10 characters.

At the Hamburger Stand—3 char-

An Old Maid's Club Meeting-8 characters.

Any one of these plays will liven up a fall club or community program. The leaflet includes the 3 plays. Please ask for "Three Smash Hits," when ordering and enclose 10 cents for the leaflet. Entertainment Editor, Kansas Farmer, Topeka.

Are barley prices likely to recover from the recent break?—J. C.

It appears unlikely that barley prices will recover the full amount of the recent break. The creeping advance which carried barley prices to near support levels at Kansas City began in late Autority and the support of the support o gust. A large proportion of this advance was wiped out in 2 days. Partial temporary recovery is probable, but barley prices are expected to work irregularly lower.

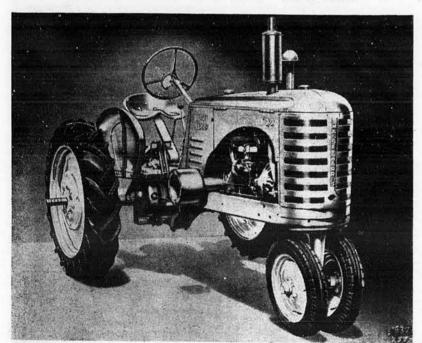
Has the Government's egg price sup-port program been announced yet for 1949?—E. A.

The poultry industry advisory committee met recently with officials of the U. S. Department of Agriculture and made the following recommendation: "That the price-support program for eggs for 1949 be announced as near January 15 as possible, and that the support price be made to apply for the period, February thru May."

What seems to be the possibility of price increases in dairy markets in the next few months?—J. M.

It is difficult to tell the exact level of milk prices, but it seems likely that the price spread between graded and ungraded milk in Kansas will be wider than a year ago. On January 1, an increase in the differential prices over the basic condensary price will be effective in the 3 Federal Order Markets in Kansas for classes I and II milk. Since milk supplies in Kansas have been much shorter than in other states, it seems unlikely that any surplus of class III milk would tend to offset price increases for class I and class II milk to any great extent during the next It is difficult to tell the exact level of increases for class I and class II milk to any great extent during the next few months.

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THIS brand-new Massey-Harris tractor is making its bow. Successor to the company's light 2-plow "20", the new "22" tractor has a huskier, more powerful engine; bigger, quick-acting brakes, a new grille styling and a new Depth-o-matic System for faster, easier and more accurate field work. With its larger engine, 140 cubic inch displacement, the "22" handles any 2-plow field job or belt work requiring comparable power. The new Massey-Harris "22" is claimed to bring new efficiency in a hydraulic unit with its Depth-o-matic System. Depth-o-matic is a thoroly tested and proved hydraulic control system. You select the operating depth and from then on it's automatic. At a row's end, a slight touch on the control handle raises the implement; the turn, another touch, and the implement is lowered under power. Depth-o-matic control sets the implement back to work smoothly, positively, without banging, bouncing, or dropping.



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Dealers Everywhere

Magic for Crops

(Continued from Page 6)

Works, Inc., was formed to operate this plant at Military, Kan.

With the enemy whipped, the plant was turned over in 1946 to the Spencer Chemical Company. Actually, the final process of making fertilizer is performed some miles away in part of the Kansas Ordnance Plant, near Parsons, Kan. We'll try to explain these operations in more detail.

There's plenty of nitrogen in the world—the trick is to get it into some form that plants can use it. Of course, you can't bag up air and use it, altho air is something like 80 per cent nitrogen. As we mentioned, legumes can take this nitrogen and store it in the nodules in the roots. This is Nature's nodules in the roots. This is Nature's way. But we can help speed Nature along by buying ammonium nitrate.

Gas Is Compressed

Gas Is Compressed

Stripped of technical terms, the process of making nitrogen fertilizer is relatively simple. Natural gas, steam and air are mixed together and heated. The result is hydrogen and nitrogen gas, about 3 parts hydrogen and one part nitrogen. Unwanted gases in this mixture are removed and the remaining gas is compressed to 5,000 pounds of pressure to the square inch. Compressing this gas to a liquid makes anhydrous ammonia. Next, nitric acid is made by oxidizing the anhydrous ammonia. Then the nitric acid and anhydrous ammonia are blended together in a solution of ammonium nitrate. This liquid then is shipped in tank cars to Parsons and there the liquid is first heated, then stirred as it cools; as it cools granules are formed and this is ammonium nitrate fertilizer.

Gosh, if it were just that simple!

ammonium nitrate fertilizer.

Gosh, if it were just that simple!

About the only familiar thing was the air that is used. It's common air.

Now, let's retrace our steps and go over that process again. The biggest building of the big plant is the first building where the air, water and gas are mixed. The gas comes from pipe lines. The water in the form of steam, is piped over from the huge generating. lines. The water in the form of steam, is piped over from the huge generating plant, large enough to operate a good-size city. These are brought into huge furnaces, in the presence of a nickel catalyst. Now this word "catalyst" is one that bobs up again and again, and as we remember it the term describes a chemical that speeds up a chemical reaction without actually taking part in the reaction. In other words, the nickel speeds up the reaction of gas and steam, but remains nickel. That is, if every thing is going fine. Just let the apparatus get out of order and presto, no nickel. There are several thousand dollars worth of nickel in each furnace but this has happened only once. As the but this has happened only once. As the manager of this plant pointed out, if it happens again there will be a new plant manager.

These furnaces are hotter than red hot—about 700 to 750 degrees Centigrade, which is a lot hotter than the same reading on a household thermom-

Actually, the air is introduced into the hydrogen flow after this temperature is reached, and the oxygen is burned from the air, leaving nitrogen. As you know, air consists of a lot of different kinds of gases.

The resulting gas from this opera-

different kinds of gases.

The resulting gas from this operation has some impurities in it. But it is piped over to another building for the next process. This consists of compressing this gas, meanwhile taking out the impurities. The compressors are really big engines, with 2,800 horse-power. The engines compress the gas in 6 stages, starting out at about 2½ pounds to the square inch and working up to 5,000 pounds.

Forms Dry Ice

One of the impurities is a gas known as carbon dioxide. This gas is used to make a valuable product which we all know as dry ice. The gas is first compressed, then allowed to expand rapidly. When you compress anything you generate heat—when it expands the heat is lost. Thus when the gas expands rapidly it cools and forms a kind of heat is lost. Thus when the gas expands rapidly it cools and forms a kind of snow. As the chemists say it precipitates. This snow is then pressed mechanically into cakes and sold as dry ice. Dry ice really doesn't melt because no liquid remains. The cakes of dry ice are put in paper bags and shipped by trucks to cities.

But we left our original gas being compressed. As this step-by-step compression is taking place other unwanted able fertilizer from commonplace materials, we marvel again at the American know-how.

Renew Window Shades

An easy way to renew window shades is to paint them with ordinary flat paint which has been thinned. If you simply want to clean the shade, stretch out flat, rub with cornstarch and then carefully brush off.—Mrs. R. L.

gases are taken out, including carbon monoxide, the gas that kills in exhaust fumes. Incidentally, an iron catalyst is used in this process. The final compressed gas in anhydrous ammonia, a gas. Now most of us have heard of this. With specialized gas. Now most of us have heard of this. With specialized pressure equipment anhydrous ammonia can be applied directly to the soil. It is the first product produced at the ammonia plant. In the Delta region of the South considerable anhydrous ammonia is being used. Tests show that it is a good fertilizer—but without the specialized equipment it is difficult or impossible to apply. Naturally, if the saving were great

it is difficult or impossible to apply.

Naturally, if the saving were great enough farmers would soon buy the equipment. But there's more to it than that. Most nitrogen is used in the spring. How could we store the gas the year around for use in spring? An entirely new distribution system would have to be developed. It now appears that we'll buy the bulk of our nitrogen in the bag. in the bag.

A solution of ammonium nitrate is made from the anhydrous ammonia gas, plus nitric acid. Any gas can be compressed into a liquid, the point at which the gas becomes a liquid depends on temperature and pressure. The nitric acid is made from aphydrous ammonic acid is made from aphydrous ammonic. acid is made from anhydrous ammonia, too, by oxidizing it with air in the pres-ence of a platinum catalyst.

The final blend of ammonium nitrate comes out of 2 small pipes that we mentioned earlier. If allowed to cool too much this liquid becomes a solid. Part of this solution is water.

This ammonium nitrate solution now is ready to be skinned to the Part.

is ready to be shipped to the Parsons plant in tank cars. Some ammonia solution, called Spensol, is shipped direct to fertilizer plants where it is mixed with other fertilizer ingredients to make mixed fertilizer.

See Another Plant

See Another Plant

To see the final process we drove over to the Kansas Ordnance Works, which was flung out over a vast prairie. Down a maze of roads we drove into the heart of the plant. During the war ammonium nitrate was made at several plants, including the one at Pittsburg, then shipped to this plant.

The Spencer company operates only a small section of this vast ordnance. Oddly enough, the process of making a solid out of the liquid ammonium nitrate is the same as was used during the war for making ammonium nitrate for explosives.

We mentioned that the solution of

for explosives.

We mentioned that the solution of ammonium nitrate would become solid when it cooled. In the tank cars it naturally cools, so the first step at Parsons is to put the car in a big shed and force steam and air into the car to get the material back in liquid form. Then it is piped to several "cooking" plants. The solution first is heated in a vat to drive off all the water. Then it is allowed to solution first is heated in a vat to drive off all the water. Then it is allowed to cool in big "kettles" which are equipped with agitators. The process looks a lot like cooking maple sirup only the solution is cooling instead of being heated. As the solution cools and is stirred it forms the granules that you are familiar with in the bag of fertilizer. A type of wax is being added to aid in this granulation. This process is being perfected all the time so that ammonium nitrate fertilizer today is not as likely to "set up" as in the past.

This fertilizer, still hot, is trucked over to the bagging plant where it is first cooled in a big drum. Any particles that are not small enough are screened out and ground in a hammer mill. This should answer one common question

should answer one common question about ammonium nitrate fertilizer. Farmers who have some that does set up wonder whether it is safe to grind it It is ground at the least to grind it.

up wonder whether it is safe to grind it. It is ground at the plant.

The big problem is to cool the fertilizer on a hot day. It is still warm when bagged and put in the freight car. Excited dealers sometimes worry about warm bags when they unload the cars. Actually, there is no danger.

Having visited this modern-day miracle of science which converts a relationship.

cle of science which converts a valuable fertilizer from commonplace materials, we marvel again at the American know-how.



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Steps Toward Control

(Continued from Page 8)

Hemisphere countries, and the Philippines would be supplied direct by private suppliers in the United States."

This policy now is out.
Policies here outlined constitute steps toward CCC (Government) control of marketing and prices of foodstuffs, and steps away from private enterprise marketing of foodstuffs. The Planners' goals of pretty complete Government control and marketing of foodstuffs were outlined in latest previous issue of Kansas Farmer.

Proposed use of CCC as a governmental agency bears more than superficial resemblance to Joseph's "evernormal-granary" operations in the lands of Egypt and Canaan, as recorded in 47th Chapter of the Book of Genesis. Joseph, acting for Pharaoh, stored reserves of grain in good times against the Emergency. Before the Emergency was over, Pharaoh (the Government) owned the money of Egypt, the livestock of Egypt, the land of Egypt and the people of Egypt; and a permanent tax of one fifth of the total annual production of the country. The chapter is worth reading—here are some of the more significant paragraphs: more significant paragraphs:

more significant paragraphs:

14. And Joseph gathered up all the money that was found in the land of Egypt, and in the land of Canaan, for the corn (wheat) which they bought; and Joseph brought the money into Pharaoh's house.

15. And when money failed in the land of Egypt, and in the land of Canaan, all the Egyptians came unto Joseph and said, Give us bread; for why should we die in thy presence? for the money faileth.

16. And Joseph said, give your cattle; and I will give you for your cattle, if money fail.

17. And they brought their cattle unto Joseph: and Joseph gave them bread in exchange for horses, and for the flocks, and for the cattle of the berds, and for the asses, and he fed them with bread for all their cattle for that year.

18. When the year was ended, they came unto him the second year, and said unto him, We will not hide it from my lord, how that our money is spent; my lord also hath our herds of cattle; there is not aught left in sight of my lord, but our bodies, and our lands.

19. Wherefore shall we die before thine eyes, both we and our land? buy us and our land for

bread, and we and our land will be servants unto Pharach; and give us seed, that we may live, and not die, and that the land be not desolate.

20. And Joseph bought all the land of Egypt for Pharoah; for the Egyptians sold every man his field, because the famine prevailed over them; so the land became Pharach's.

21. And as for the people, he removed them to cities from one end of the borders of Egypt even to the other end thereof.

23. Then Joseph said unto the people, Behold, I have bought you this day and your land for Pharach, lo, here is seed for you, and ye shall sow the land.

24. And it shall come to pass in the increase, that ye shall give the fifth part until Pharach, and four parts shall be your own, for seed of the field, and for your food, and for them of your households, and for food for your little ones.

ones.

25. And they said. Thou hast saved our lives: let us find grace in the sight of my lord, and we will be Pharaoh's servants.

26. And Joseph made it a law over the land of Egypt unto this day, that Pharaoh should have the fifth part, except the land of the priests only, which became not Pharaoh's.

Apparently, Joseph did a pretty good job of nationalizing the Egyptian economy, by taking advantage of The Emergency, considering that Egypt had largely an agricultural economy.

The new Eighty-first Congress "mandated" to repeal Taft-Hartley, to make permanent the wartime farm price supports, hike the minimum wage rates, expand social security programs and increase social security benefits and payments, enact the Truman social reform and civil rights program, expand military security programs, provide for the needs of Western Europe, push Government spending up to around 50 billion dollars a year; keep the boom going but halt inflation by "stand-by" authority to impose price and other controls when the President finds an Emergency that requires such action—the ports, hike the minimum wage rates gency that requires such action—the Congress that has been "mandated" to do all these things meets next Monday, January 3, to organize for business.

On January 5, President Truman will deliver the terms of the "election mandate" to Congress, in the form of a message on the State of the Union.

Coming **Events**

January 3—Pottawatomic county electrical school, Wamego.

January 4—Finney county winter crops school, Bieberly and Ferguson, Garden City.

January 4—Lyon county electrification program for the farm home.

January 4—Johnson county Family Life meeting.

January 4—Mitchell county 4-H food leaders training meeting, Beloit municipal building.

ing.

January 5—Osborne county farm management check-in, Osborne.

January 5—Mitchell county, food lesson for H. D. U. leaders, Beloit municipal building.

ing. January 5—Mitchell County Cattlemen's Association annual meeting, Beloit. January 6—Norton county Home Demonstration Unit officers training school, Norton 2 n m.

Association annual meeting, Beiott.

January 6—Norton county Home Demonstration Unit officers training school, Norton, 2 p. m.

January 6—Jackson county district 4-H leaders conference, Holton.

January 7—Osborne county crops, livestock and crop disease school, Osborne.

January 7—Woodson county district sheep and swine school, Yates Center courthouse.

January 8—Norton county 4-H County Council, Norton, Legion hall, 1:30 p. m.

January 10—Johnson county-wide meeting on livestock, crops and insects. Ray Hass and L. E. Willoughby, KSC specialists. Olathe, Legion building.

January 10—Lyon county, East Central Kansas Dairy Herd Improvement Association, Emporia.

January 10—Woodson county 4-H foods project leaders, Yates Center, courthouse.

January 11—Jewell county tractor maintenance school, Walter Selby, leader.

January 11—Labette county, dates made on soil conservation in Labette county.

January 12—Norton county. Public policy discussion, led by C. R. Jaccard, Extension economist, Norton, courthouse, 1:30 p. m.

January 12—McPherson county soil conservation service annual meeting.

January 12—Johnson county rural life meeting, Olathe, Legion building.

January 12—Allen county-wide crop and livestock school, with Cleavinger, Taylor and Claude King.

January 12-13—Harvey county. Farm and Home improvement conference, Newton, Ripley Hotel.

January 13 — Osborne county. Tractor maintenance school for 4-H, F. F. A. and Veterans on the Job.
January 13—Allen-Bourbon counties dairy herd improvement association annual meeting.

January 13—Allen-Bourbon counties dairy herd improvement association annual meeting.

January 13—Finney county district administrative conference, E. H. Teagarden, Garden City.

January 13—Coffey county livestock and crops school.

January 14—Mitchell county tractor maintenance school, Beloit.

January 14—Woodson county correlated meeting including crops and soils, beef cattle and dairy, Cleavinger, King and Lot Taylor, leaders.

January 15—Finney county foods and nutrition leaders training school, Gertrude Allen, Garden City.

January 17—Jackson county livestock and crops school, Holton.

January 17—Harper county 4-H Achievement banquet, Anthony.

January 18—Harvey county annual Dairy, Herd Improvement Association meeting, Newton.

January 18–19—Johnson county farm man-

Herd Improvement Association meeting, Newton.

January 18-19—Johnson county farm management and planning school, Paul Griffith, specialist, Olathe, Legion building.

January 19—Mitchell county. District sheep and swine school, C. G. Elling, Beloit, municipal building.

January 19—Lyon county Soil Conservation Service annual meeting.

January 20—Labette county-wide 4-H meeting with Roger Regnier, assistant state 4-H Club leader.

January 21—Shawnee county. District sheep and swine school, Garfield Park Shelterhouse, North Topeka, 10 a. m. to 3 p. m. Make reservations with your county agent for dinner. Carl Elling, KSC in charge of program.

January 24—Ottawa county project lesson r home furnishings, Minneapolis. for

January 24—Osborne county district 4-H leaders conference, Osborne, Legion Hall. Glen Bussett.

Glen Bussett.

January 24-25—Mitchell county balanced farming school, Beloit municipal building.

January 24-25—Mitchell county home improvement school. Extension specialists, Self, Stover, Wendling, Municipal building, Baloit.

Beloit.

January 25 — Chautauqua county winter
heef and crop school, specialists E. A. Cleavinger, Lot F. Taylor, Claude King, Sedan.
January 26—Woodson county home demonstration unit health leaders, Martha Brill,
leader. Yates Center, courthouse.
January 26—Finney county district 4-H
leaders training school, John Hanna, Garden City.

January 26-27—Jewell county home improvement meeting, Mrs. Self, Harold Stover, Leo Wendling.



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Soil Conservation **Must Go Ahead!**

PARMERS attending the annual meeting of the Kanna meeting of the Kansas Association of Soil Conservation District Supervisors, at Pittsburg, during December, took definite action on several prob-

lems.

One change was in election of supervisors. Under the present law the 3 local district supervisors elected serve for 3-year terms. Under the proposed law, the one receiving the highest number of votes would serve 3 years, second highest 2 years, and third highest one year. The reason for staggering terms is to keep several experienced men on

year. The reason for staggering terms is to keep several experienced men on the board at all times.

Delegates also agreed that each district be assessed 10 cents for each approved application, the money going into the national association for dues.

Don Christy, of Scott City, was reelected as a director from the Southwest district and as president of the state organization. Ellsworth Dodrill, of Stockton, was elected vice-president of Stockton, was elected vice-president, and Harry Lunt, Pratt, as secretary of the state organization. Emil Heck, of Lawrence, succeeds George Fuhrman, Atchison, as director for the Northeast district.

Good Progress Made

Awards of merit for outstanding progress in soil conservation work during 1948 were presented to Osborne, Finney, Sumner, Miami and Allen counties by Lee Kebler representing the con-Finney, Sumner, Miami and Allen counties by Lee Kabler, representing the Kansas Bankers Association. Honorable mention for outstanding soil conservation work went to Norton, Graham, Ford, Clark, Sedgwick, Jewell, Marshall, Douglas, Cowley and Labette counties counties. Kent Leavitt, Millbrook, N. Y., presi-

Kent Leavitt, Millbrook, N. Y., president of the National Association of Soil Conservation Districts, was principal speaker at the 4-day convention. He told delegates that farmers themselves can attain acreage control thru a voluntary rotation program that will prevent crop surpluses and make price-supports by the Government unnecessurports by the Government unnecessurports by the Government unnecessurports. supports by the Government unneces-

sary.
Mr. Leavitt also warned farmers that Mr. Leavitt also warned farmers that soil conservation education, especially of city people, was ahead of soil conservation practices. "This means," he said, "that city people may get impatient and demand some kind of compulsory law to force farmers to practice soil conservation. "Remember," he added, "there are more people living in cities than on farms. We will have to make a real conservation showing to make a real conservation showing to prevent some kind of compulsory law."

Resolutions adopted by delegates urged boards of supervisors of soil con-

servation districts to co-operate closely

servation districts to co-operate closely with all agricultural agencies to accomplish more soil conservation work. They urged increased emphasis on educational and publicity phases of soil conservation thru press, radio and all educational and civic organizations. Asked the State Department of Education and state colleges to include the fundamentals of soil and water conservation in teacher-training programs

servation in teacher-training programs.
Asked boards of supervisors to take
a more active interest in financing and

promoting the state and national soil conservation associations.

Also urged the legislature to provide needed funds for adequate resident teaching, research and Extension work in soil conservation.

in soil conservation.

Donald Pharis, president, Missouri Association of Soil Districts, told delegates that future state and national legislation on soil conservation must be friendly to other agencies now working for farmers. "It may be more economical in terms of cash to merge a number of agencies under one head," he said, "but if the merger starts a civil war, resulting in less soil conservation and other agricultural work being done, the possible saving in money would be made at the expense of the health and the very life of future generations.

"Legislation," he added, "should be worded to give absolute and final control and responsibility of the work of the soil districts to farmers who live on and off the land."

Mr. Pharis also stated that farmers

Mr. Pharis also stated that farmers should be strongly organized, that soil problems are national rather than local problems and should be handled as such, and that legislation for soil conservation must not be stingy with

Delegates voted to hold the next annual meeting at Hays.

Vaccination Helps

Newcastle disease virus survives within the eggs during incubation. Chicks hatched from infected eggs con-tracted Newcastle from the carryover virus 5 weeks after hatching, reports the Bureau of Animal Industry. Vaccination tests with commercially produced killed-virus vaccines have

been conducted on 220,000 chicks. Losses in vaccinated birds was about 12 per cent, whereas losses in nonvaccinated chicks amounted to 25 to 30

In a test on 5,000 birds 4 to 5 weeks old, a modified live-virus vaccine was used. Losses were 7 per cent compared to 35 for non-vaccinated chicks.

Moves Tons of Earth

FARM-SIZE wheel scraper is be-A FARM-SIZE wheel scraper is being used effectively in leveling land for irrigation by Marvin Durrant on his father's farm in Scott county. The scoop is owned jointly by his father, Clifford Durrant, and Glen

Ramsey.

New to the irrigation areas of Western Kansas, this scraper can be pulled by any large-size farm tractor. It has a capacity of 4 yards and is hydraulically controlled. Controls are operated by a gas engine mounted on the scraper which delivers 4 to 6 horsepower. There is positive control on the scraper for both filling and leveling.

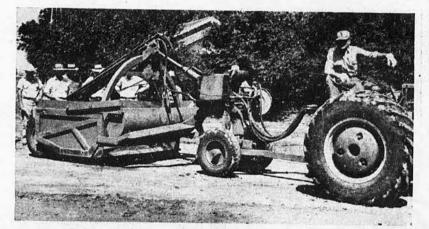
Mr. Durrant recently completed

moving about 6,000 cubic yards of earth in leveling 25 acres of land for irrigation. The length of haul averaged around 800 feet on most of the field. He estimates that he averaged 40 cubic yards of earth an hour while doing the ich. And that is really moving the dirt job. And that is really moving the dirt for a farm-type tractor.

for a farm-type tractor.

After high places have been cut down and the low places filled, a small landplane is used to put the finishing touches on the job.

This farm-size wheel scraper has been used quite extensively in irrigated sections of California and other Western states. It shows promise of acceptance in Kansas, too.



Marvin Durrant, seated on the tractor used to pull this new farm-size wheel scraper, demonstrated its use to other Western Kansas farmers during the Scott county crops tour early this summer. This type of machine quite easily could find favorable acceptance in the irrigated areas of the state.

Dairy CATTLE

For 50-Ton Cows

Ayrshires are noted for life-time records of 100,000 lbs. 4% milk

1

Write for literature and list of breeders

Ayrshire Breeders' Association

RAISE AYRSHIRES

The 2nd member of the Pabst's Holstein family at Sunnymede Farm, Topeka

Junior Sire PABST BURKE NED Son of "BURKE"

His Dam—Nettie Ormsby Fobes, 2 yrs, 10 mo. 3x 15,088 lbs. milk 3.6% 544.2 lbs. fat. His Maternal Sister—Pabst Barbetta Nettie 5 yrs. 3x 23.491 lbs. milk 4.2% 957.7 lbs. fat. Sons of Pabst Burke Lad Star, Senlor Sire are available.

C. L. E. EDWARDS, Topeka, Kan.

SMOKY VALLEY HOLSTEINS

OFFERING HIGH PRODUCING COWS.
Leading Bloodlines.
W. G. BIRCHER & 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 buils with high-production dams or granddams.

H. A. DRESSLEH, LEBO, KAN.

REG. BROWN SWISS

Herd Sire—Calved December 24, 1945. Classified Very Good March 17, 1948. Sire, full brother to Tschierva, from Honor Roll producer and Very Good cow, Hensel's Donna Mae. Dam, Classified Very Good, 602 lbs. Fat 2x 342 days, 14,548 M. Pedigree shows all high producers. Selling because new sire about ready for service. Asking farmer's DR. K. A. BUSH, Harper, Kansas

REGISTERED GUERNSEYS

Since 1906 High Production. Correct Type. Popular Bloodlines. Ransom Farm, Homewood (Franklin Co.), Kan.

Dual-Purpose CATTLE

MILKING SHORTHORNS OFFERED Good quality.

J. E. HUGENOT, Moline, Kansas

HOGS

MISSOURI **DUROCS** At Auction



Nevada, Mo., Feb. 3

50 Reg. Duroc Bred Gilts Will Sell

See next issue of Kansas Farmer for more information. Write for a sale catalog to C. M. Sheehy & Son, Richards, Mo.

SHEPHERD'S SUPERIOR DUROCS Offering excellent Bred Glits 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 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

BAUER BROS. POLAND CHINAS offer choice thick-bodied boars of March d April farrow. Seasonably priced. Sired Copright Desirable, Grand Nation and Na-nal Prince. BAUER BROS., Gladstone, Nebraska

Chester White Boars, Gilts, Pigs 100 Chester White Boars; Special prices on Summer Gilts; Weanling Plgs; registered, vac-cinated, BLOOM RANCH, Corning, Iowa.

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PRODUCTION

Bred and open gilts, same breeding as winners in Carcass Contest at American Royal, Established type, See them.

DALE SCHEEL

DALE SCHEEL Emporia, Kan.

BERGSTEN'S Improved Hampshires*

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

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

Can Geo Stot 74 I ville 1948 and Twe Cru Onverge and Trans CK Creater

pion Wal char Roy Crus trio Chal CK M Fari the pect in a

danz on h fron 19th who of a lead Cana

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The BREE at Ne Hillsb auction by Ea made was \$ \$280 a cold 1 buyers portion J. R.

IN THE FIELD



Jesse R. Johnson Topeka, Kansas Livestock Editor

and MIKE WILSON, Livestock Pieldman,

SUBSTANTIAL contribution to the A SUBSTANTIAL contribution to the exchange of registered Herefords between the United States and Canada was made last week when George Rodanz, of Ringwood Farm, Stouffville, Ontario, Canada, purchased 74 heifers from CK RANCH, Brookville, Kan. Of these 74 head 44 were 1948 calves, 6 were senior heifer calves, and 24 were heifers of breeding age. and 24 were heifers of breeding age. Twenty of the latter are bred to CK Cruiser D. 34th, a CK herd bull of CK Onward Domino breeding and former grand champion at the Iowa, Nebraska and Kansas State Fairs in 1946.

The heifers are a cross-section of the

and Kansas State Fairs in 1946.

The heifers are a cross-section of the CK bloodlines and are daughters of CK Creator, sire of the 1948 Denver champion; daughters of CK Cascade, sire of Walnut Hill Cascade, this year's state champion and first-prize winner at the Royal; daughters of Brummel 6th, CK Crusader 52d, CK Caballero 2d, and a trio of CK Onward Domino bulls, CK Challenger 61st, CK Challenger 4th and CK Challenger 99th.

Mr. Ironside, herdsman of Ringwood Farm, has already accompanied 29 of the heifers to their new home and expects to take delivery on the balance in a few weeks.

In addition to the heifers, Mr. Rodanz also selected a herd bull prospect on his recent visit to CK. This calf is from the carload of senior bull calves which are to be shown at Denver He is a son will be delivered at Denver He is a son

from the carload of senior bull calves which are to be shown at Denver and will be delivered at Denver. He is a son of CK Cruiser D. 34th named CK Crusty 19th. His dam is CK Miss Charity 92d who is by Advance B. Domino and out of a dam by WHR Princeps Domino 41st, so the calf has outstanding ancestry in every line of his pedigree.

Mr. Rodanz is one of the larger and leading breeders of Hereford cattle in Canada. He originally handled both

Canada. He originally handled both Shorthorn and Herefords, but lately decided to raise Herefords exclusively. This first shipment of the CK cattle makes the seventh carload of registered Herefords he has imported into

The WALBERT J. RAVENSTEINS CIRCLE R. RANCH Polled Hereford sale was well attended by breeders from several states. Lot. No. 1, the first animal in the ring was the top-selling animal in the auction. He went to New Eden Polled Hereford Ranch, Wilmore, for \$1,250. The top on females was reached on lot 13, going to Glenn J. Biberston & Son, Attica, for \$735. The entire offering in the auction brought a general average of \$451 on the 39 lots sold. Colonel Freddle Chandler was the auctioneer.

MATHESON BROTHERS, of Natoma, held their sale of young Hereford cattle, on December 16. More than half of the offering were 1948 calves, and were presented in their every-day clothes. The top bull brought \$485 paid by John Kinter, Speed, for lot 1. Top on females was reached on lot 22. She was purchased by Will Jacobs, Pfeifer, for \$365. The 44 lots consigned brought an average of \$249. The sale was capably managed by Vic Roth and was auctioned by Freddie Chandler, assisted by various ringmen.

The SOUTH CENTRAL KANSAS HEREFORD BREEDERS' ASSOCIATION held its annual sale at Newton, December 10. Harrison Hoop, of Hillsboro, paid \$490 for the top buil of the auction. The top-selling female was purchased by Earl Bohling, of Florence, at \$400. The buils made an average of \$293. Average for females was \$268. The general average of the sale was \$280 a head. The weather being very windy and cold probably kept a number of visitors and buyers away from the sale. However, the larger portion of the cattle were taken by local buyers. J. R. Overstreet, of Newton, managed the sale.

POLLED HEREFORD history was made in kansas at the state sale, held in Hutchinson, Monday, December 13. P. H., Ginsbach, of Dell Rapids, S. D., and J. N. Christinson & Sons, Lone Rock, Iowa, jointly purchased the topselling and champion bull of the sale for \$3.500. This short yearling bull was consigned by Fred Stumpf & Son, Bushton, Frank H. West, Carthage, Ill., took the champion and top-selling female of the sale at \$1,700. This female was bred, litted, shown and consigned by Alfalfa Lawn Farms, of Larned, the breeding establishment of John M. Lewis & Sons. Twenty-four bulls averaged \$883 a head. Twenty-four females averaged \$556. The entire 48 head sold made a seneral average of \$i24 a head.

Just an average-size crowd attended the NORTHWEST MISSOURI HAMPSHIRE BREEDERS' bred ewe sale at St. Joseph, Mo., on December 18. Quality and breeding of the offering was above average, and Kansas and Missouri buyers paid an average of almost \$50 a head for 51 bred ewes. Three awe lambs averaged \$30. Top ewe sold for \$100, with second top of \$87.50 and the \$70 figure being paid for 2 head. Joe Martin, DeKalb, Mo., had the top-selling ewe and also a \$70 ewe. The \$87.50 ewe was consigned by Glen Armentrout & Son. Norborne, Mo. F. B. Houghton, Maryville, Mo., sold a ewe for \$70. The \$100 ewe was purchased by Joe Van Trump, Elmira, Mo.

Twenty head went to Kansas buyers. These Kansas buyers were Anamary Davis, Hiawatha; Plants Brothers, Hoyt; George F. Williams, Hoyt; W. C. Hartley, Baxter Springs. Bert Powell was the auctioneer. For their first sale the consignors were satisfied with the average made. F. B. Houghton, Maryville, Mo., is secretary of this recently organized group.

Public Sales of Livestock

Aberdeen-Angus Cattle

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 Bidg.,
Kansas City, Mo.
February 26—L. M. Thornton, Garden City, Mo.
February 28—Johnston Brothers, Belton, Mo.

Dairy Cattle January 4—Orville Cameron, Junction City, Kan.

Guernsey Cattle

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

Hereford Cattle

Hereford Cattle
January 6—Miller Herefords, St. Marys, Kan.
January 8—Sam Globs, Manchester, Kan. Sale
at Clay Center, Kan.
January 27—A. R. Schlickau & Sons and Oliver
Brothers, Argonia, Kan.
February 26—C. K. Ranch, Brookville, Kan.

Holstein Cattle January 6-Z. B. Craig & Son, Columbia, Mo. Glenn E. Davis, Sales Manager, Columbia, Mo.

Jersey Cattle

January 19—Joe Merino, Trenton. Mo. Donald
Bowman, Sales Manager, Hamilton, Mo.

Shorthorn Cattle

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

Duroc Hogs

January 19—Joe Merino, Trenton, Mo. Donald
Bowman, Sales Manager, Hamilton, Mo.
January 27—Mid-Kansas Duroc Breeders, State
Fair Grounds, Hutchinson, Kan.
February 1—Earl Martin & Son, DeKaib. Sale in
South St. Joseph, Mo.
February 3—C. M. Sheehy & Son, Richards, Mo.
February 7—Vern V. Albrecht, Smith Center,
Kan.
February 12—Kansas State Col.

February 12—Kansas State Sale, Marysville, Kan. Kan. February 15—Dannen Mills Farms, St. Joseph, Mo. C. W. Glassell, Manager, St. Joseph, Mo. February 21—Weldon Miller, Norcatur, Kan.

Hampshire Hogs February 26—O'Bryan Ranch, Hiattville, Kan.

Hereford Hogs February 18-Kansas State Sale, Holton, Kan. Milt Haag, Secretary, Holton, Kan.

Poland China Hogs

February 11—Bauer Bros., Gladstone, Nebr. Sale
at Fairbury, Nebr.

Study Soil and Water

Perry Lambert, Hiawatha, a director of the Kansas State Board of Agricul-ture, has been elected chairman of Gov-ernor Carlson's soil conservation and water run-off control committee.

The group, appointed recently by the governor, was directed to complete its report by February 15, 1949.

Members have been instructed to

study Kansas watersheds to select one or more sites for water-detention projects similar to the Little Sioux area in Iowa, which you read about in Kansas Farmer, the September 18, 1948, issue. Up there water control and detention measures are set up as a demonstration. onstration.

The governor said the next Congress may appropriate funds for such projects in the various states.

Other members of the committee in-

Other members of the committee include Don Christy, Scott City; John C. Frye, Lawrence; John Ferguson, J. A. Hodges and H. E. Myers, Manhattan; George S. Knapp, chief engineer, water resources division of the State Board of Agriculture; and Maurice Fager and George Hedrick, Topeka.

Offer Fellowships

Beginning with the 1949-50 school year, annual fellowships to deserving students will be made by the Ralston Purina Company. Not more than 7 such fellowships will be awarded on an annual basis in the amount of \$1,440 each, and the approximants are sent the service of the serv and the appointments are not to exceed a tenure of 3 years.

The objective, as announced by the

The objective, as announced by the company's research award committee, is to assist in the training of additional personnel for furthering the interests of agriculture, with particular emphasis on the livestock and poultry industries. Awards will be in the fields of nutrition and physiology research as applied to dairy, poultry and animal husbandry; and research in transmissible diseases of livestock and poultry.

The maximum of 7 fellowships will be awarded as follows: Not more than

be awarded as follows: Not more than 2 each in dairy husbandry, animal husbandry and poultry husbandry; and not more than 1 in the field of veterinary

Application blanks for these fellowship awards may be obtained by writing the Ralston Purina Research Awards Committee, c/o J. D. Sykes, Ralston Purina Company, St. Louis 2, Mo.

Dispersal Sale Miller Herefords

REZAC PAVILION

St. Marys, Kansas

(Located on U.S. Highway 24 and 40 and Kansas Highway 63—26 miles west of Topeka.)

Thursday, January 6

60 HEAD CHOICE HEREFORDS

- 2 Herd Bulls
- 30 Young Cows and Heifers, due to start calving January 15
- 6 Cows from 3 to 10 years old
- 17 Open Heifers
 - 5 Young Bulls

All cows and heifers are bred to Colorado Domino 224 and Royal Rupert

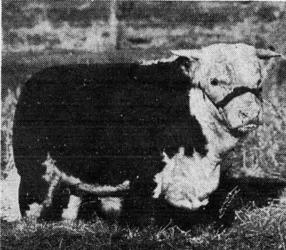
All cattle presented are pasture condition. Tested for Tb. and Abortion, and will be ready to ship anywhere.

Start the new year right and begin laying in some foundation stock equal to the best. Write for catalogue.

CARL MILLER, St. Marys, Kan.
Mike Wilson with Kansas Farmer

Fred Chandler, Auctioneer

Third Annual Hereford Sale



Royal R Domino 3rd Selling

50 Head

Harper,

Kansas

Thursday

January 27

16 BULLS: Our sires are Advance C Domino 14; Royal Rupert 6th and W. H. Rupert Zento. Bulls are of serviceable age.

34 FEMALES: Our sires are C. K. Royal Domino; Mischief Domino and Uniweep Domino 77. 16 BRED HEIFERS

For catalogs write ED OLIVIER, Harper, Kansas Sale to be held in the Harper County Fair Barns, Harper

Olivier Bros. Danville, Kan.

A. R. Schlickau & Sons Haven and Argonia, Kan.

Mike Wilson for Kansas Farmer



Freddie Chandler, Auctioneer

Polled Shorthorns for Sale

Offering Bulls, Cows and Heifers. We offer 30 Bulls, a few of serviceable age. Few bred cows and open females. Officially vaccinated. Remember—some of the best, newest blood that has made record prices in Polled Shorthorn History. Our greatest herd sires are "Cherry Hill Hallmark" and "Red Coronet 2nd," Champion female and topselling bull at the Kansas State Show and Sale was sired by "Cherry Hill Hallmark" and dams 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

Phone 13F2

Plevna, Kansas

TO 74% MORE CASH from Your GRAIN or FEED ORIGINATORS—WORLD'S LARGEST PRODUCERS OF TOMORROW'S CHICKEN TODAY AS A MULE 1. Grow extra fast. 2. Resist disease. 3. Mature extra carly. 4. Extra thrifty. 5. Turn feed into more meat and eggs. 6. Live extra good. RUGGED MAKE THE MOST IN PROFITS out of the poultry shortage! Now is the time to feed home grains. With Berry's Austrafeed for MORE MONEY from earlier and more MEAT AND EGGS! In a 13-year lowa test, poultry returned \$1.74 for each \$1 worth of feed. LAY YEAR AROUND

meat and eggs. 6. Live extra good.

From 2 World Chempion laying Broeds

Write today for FREE BOOK.
Important information on PROF-.
Important information on PROF-.
FARM PRICES on 12 hybrids and purebreeds. Blood-.
Tested. Shipped by air or rail anywhere in U. S.

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LAY YEAR AROUND

"In our 8 years raising Berry's Austra-Whites, we've always made a good profit.

611 Berry's pullets averaged 9 cases of eggs a week year around. We've raised profit any other kinds we've raised."

—Mrs. Wallace Gard, Kansas

Tested. Shipped by air or rail anywhere in U. S.

BROILER ALFIELD Write for proof of profits in Austra-White broile at today's favorable feed prices.

BERRY BROTHERS

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RUPF'S DEPENDABLE SUPERIOR CHICKS

Have proven their Dependability as Egg Producers for forty-five consecutive years. Each year I raise thousands of them on my 120-acre Poultry Farm. All Breeders are 100% Kansas Pullorum tested and A. P. A. inspected.
Why not fill that Brooder House with January chicks for Easter Broilers or Early Layers.

Layers.
A Postal brings full information. First Hatch Jaunary 10th, 1949.

RUPF POULTRY FARM, Box 1504, Ottawa, Kansas



when friend beasts strike *ines* Keep Shelling Out Eggs!

Protect next winter's egg production. Raise Hy-Line Chicks in 1949. Hy-Line flocks have demonstrated their ability to lay heavily under adverse weather conditions.

January and February, 1948, were exceptionally cold months here in the Midwest. Sub-zero cold snaps followed one another, week after week. But Hy-Line production ranged from 50 to 85 percent on hundreds of midwestern farms.

HERE'S PROOF

Illinois egg contest records show that Hy-Lines laid far better than standard-breds. Here's the record:

Month Month
Dec. 1947
Jan. 1948
Feb. 1948

Here's another important point: Hy-Lines completed the 1947-48 production year with a hen-housed average of 215.2 eggs per bird. Standard breeds averaged 157.1 eggs per bird. The difference is 58.1 eggs per bird in favor of Hy-Lines.

TRY HY-LINE CHICKS IN 1949

Share in the benefits that thousands are getting with Hy-Lines. Don't waste feed and time on laying flocks that slump seriously when the weather gets tough. Place your order for Hy-Line Chicks now.

Write Today for Our New Hy-Line Chick Catalog



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Buy from the one nearest you.

USE THE COUPON

J. O. Sedgw							
Please	send	me :	your	NEW	Hy-Lin	e Chick	Catalog.
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WORD RATE

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Minimum—14-inch.

Cuts and borders are permitted only in Poultry, Baby Chicks, Livestock and Pet Stock Ads. Write for special display requirements.

Australorps. Greatest heavy breed egg layers. Ernest Berry's foundation mating proven satisfactory. Customers repeat orders. Most hens average over 300 eggs yearly. Write for information, Low chick prices. Berry's Chicks, Box 4011, Newton, Kan.

· AUSTRA-WHITES

ZOLLICKER'S AUSTRA WHITES
Bred for type, quality and large White eggs for
years. U. S. Pullorum controlled. Real heavy layers from ROP sired hens. A leading strain.
ELMER ZOLLICKER, APA Judge
Box 20, Harrisonville, Mo.

Four-Week-Old Austra Whites. More profits with less trouble. Practically raise themselves! Save feed, time and money! 98 ½ % all chicks brooded last year lived. Hens New Castle vaccinated assuring chick immunity 65 000 Super DeLuxe Leghorn hens annually mated with Record Australorp males. You get rugged, healthy chicks that make quick plump broilers. Pullets lay in ½ months. Many average over 250 eggs yearly. Get the best at lowest prices. Write to Originator, largest producer, for illustrated catalog. Berry's Chicks. Box 4013, Newton, Kan.

Chicks. Box 4013. Newton, Kan.

Austra-Whites Proven More Profitable by 30,000 satisfied customers. 65,000 Super DeLuxe Leghorns mated annually with record Australorp males. Lay 4½ months—many hens average 250 eggs yearly. Feed economizers. Hens 6½ pounds. Most rugged farm chicken, develop faster, healthier, high livability. Cockerels average weight 2½ pounds eight weeks. Don't be satisfied with common Austra-Whites. Write to Originators, largest producers, for illustrated catalog and low chick prices, Berry's Chicks, Box 401, Newton, Kan.

Profit Designed Dynamic Austra Whites—Grow faster, lay more eggs, earn greater profits, Hundreds of satisfied customers, For complete information, write Stillwater Hatchery, Dept. K, Stillwater, Okla.

Pedigree-sired Austra-Whites, 200 to 300 egg blood. Catalog free. Mathis Poultry Farm, Box 2109-A. Parsons, Kan.

e BERIGOLDS

Berigolds. Farmer's Chicken of Tomorrow. Feed economizers. Reds that lead all breeds in official laying contest, crossed with Berry's Super DeLuxe White Leghorns. U. S. tests show only one per cent difference in this cross with the Introd-hybrid. Berigolds are healther, rugged, develop fast, higher livability. Lay 4½ months, should average 260 eggs per year. Consider Berry's low prices. Hens New Castle vaccinated assuring chicks immune. Write today for new catalog telling how more profits can be made with Berigolds, Berry's Chicks, Box 403, Newton, Kan.

Dark Cornish Chicks. Also profit-designed Cornish crosses. Real quality at reasonable prices Free folder and prices. Stillwater Hatchery Dept. K. Stillwater, Okla.

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Sureprofit Supercross — Hamp-Whites are the greatest breeding development in recent years. These fine yellow-skinned birds make quick broilers and heavy producing layers. Free folder and prices. Stillwater Hatchery, Dept. K, Stillwater, Okla.

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Bir. Heavy White Giants for roasters, capons, broilers. Bred to lay. Catalog free. Mathis Poultry Farm. Box 2309-A. Parsons, Kan.

Beautiful, Egg-Production-Bred Brown Leghorns. Catalog free. Mathis Poultry Farm, Box 2509-A. Parsons, Kan.

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Farmer's New Hampshires—Christie's Laying Strain. Bred under Mid-Western conditions. U. S. Pullorum controlled. Tested during year three times. Year around layers, feed economizers. Fast feathering, Make 3½ pound fryers 10 weeks. Write today for new catalog telling how more profits can be made. Berry's Chicks, Box 404, Newton, Kan.

Save Chicken Feed!! Don't feed the sparrows high priced chicken-feed. My homemade trap guaranteed to catch them by the dozens. Easy to make. Plans 10c. Sparrowman, 1715 Lane, Topeka, Kan.

Big, Heavy, Bred-to-Lay Buff Rocks. Catalog free, Mathis Poultry Farm, Box 2609-A, Par-sons, Kan.

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Profit-Designed Poults. Broadbreasted Bronze and husky Bourbon Reds. Order now, insur-delivery. Free folder and prices. Stillwater Hatchery, Dept. K, Stillwater, Okla.

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Sensational Strain Broad-Breasted White Rocks. Egg contest winners. Faster feathering. Cus-tomers report 3½ pound fryers 10 weeks. Free illustrated catalog. Missouri Valley Farm, Box 861, Marshali, Mo.

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Baby Chicks—Sturdy quality, 25 purebreds, 6 cross-breeds, blood tested, licensed inspected, low prices. Rush postal; colored book free. Albert Frehse, Route 12, Salina, Kan.

When you order DeForest "Blueblood" Chicks, you order the finest that money can buy. Send for free literature today. DeForest Hatcheries, Box A. Peabody, Kan.

• BABY CHICKS



MAVE SOME-TO GIVE YOU

I would like to send you my PICTURE TOUR BOOK absolutely FREE about one of America's largest and oldest Poultry Farm and Hatchery organizations.

My book is very complete and full of interesting and in-structive color pictures. I know and profit by reading it.

AMAZING POULTRY SECRETS

This book reveals many secrets you should know yout profitable chicken raising, and especially HY-RIDS and PURE BREDS It is ABSOLUTELY FREE postcard will bring it.

MRS. HARRY HAM ROUTE SO , ATCHISON, KANSAS

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Rocks. Reds. Orpingtons, Wyandottes, Minorcas, Austra-Whites
Assorted, Low as \$4.95
Per 100
Also Sexed and Started Chicks
Free Catalog explains 2-week replacement guarantee. U.S. Approved. U.S. Pullorum Controlled.
R. O. P. Foundation Breeding

Schlichtman Hatchery, Appleton City, Mo.

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Berry's Rugged Year Around Layers. Feed Economizers, Quick growing and Fast Feathering Broilers, Originators and Largest Froducers of Austra-White The New Wonder Chicken of Today "Borigole", Improved White Wonder Chicken of Today "Borigole", Improved White West, Sevenshiking in 5 Ruger the Stiddle West, South-West, Specializing in 5 Ruger the Stiddle West, South-West, Specializing in 5 Ruger the Profit can be made. New Catalog Telling about how More Profits can be made.

BERRY'S CHICKS, Box 55 NEWTON, KANSAS

Wonderful POULTRY BOOK 🦠

TRE LOW PRICES 48 varieties SEX LINKED and PURCERIES; BABY OHICKS, Pullets of chereia, also STARTED OHICKS, BABY TURES 46 ture Fowls and Hatching Eggs. All FLOCKS BLOOD SEXTED FOR SWD. Write quick for this first probable.

Coombs Chicks. This year get quality chicks from real ROP breeding farm. Strain-crossed White Leghorns. Kansas State College strain White Rocks. Egg-bred Austra-Whites. Hy-Line chicks, new kind bred like hybrid corn. You will like our strain-crossed White Leghorns. Test flocks averaged 219.7 eggs per bird. Very rugged. Wonderful livability Kansas State College White Rocks. Fast fee thering. Excellent meat birds. All-year layers. Coombs Austra-White Chicks with real ROP breeding. Very rugged, high-speed layers. Genuine Hy-Line Chicks, new kind you have been reading about in farm papers. Free catalog. Very reasonable prices. Early order discount. Werty reasonable prices. Early order discount. Werty ends.

Bush's Bloodtested Barred, White Rocks, Reds, Wyandottes, Hampshires, \$8.95; pullets, \$14.95; cockerels, \$10.95; White Leghorns, Austra-Whites, \$8.95; pullets, \$14.95; Heavy Assorted, \$8.45; Mixed, \$7.95; Leftover, \$6.95; Barnyard Special, \$5.95; Table Assorted, \$4.95, FOB, 100% alive. Catalog, Other breeds, grades, prices. Bush Hatchery, Clinton, Mo.

Berry's 4 Week Chicks out of danger, healthler rugged vitality, Save you worry, work, money Cheapest way to buy chicks. Grown in sterilized air conditioned breeding plant. Kansas U. S approved, Puliorum controlled. Year around production. Special bargains at low farm prices. Profit sharing plan. Poultry book free. Berry's Chicks, Box 3313, Atchison, Kan.

Thompson—Quality, bloodtested White, Barred Rocks, Reds, Wyandottes, Hampshires, \$8.95; pullets, \$12.95; cockerels, \$9.95; Anconas, Minorcas, White, Brown Leghorns, Austra-Whites, \$8.95; pullets, \$14.95; Assorted Heavies, \$7.95; Mixed Assorted, \$6.95; Leftovers, \$5.95; Barnyard Special, \$4.95, 100% alive FOB, Thompson Chicks, Springfield, Mo.

Smith's Mother Nature Brooder, plans and heater \$4.75. Takes place of \$60 brooder house, \$10 brooder. Over 225,000 satisfied users, Each unit broods successfully, safely, up to 150 chicks 6 to 8 weeks old on one gallon kerosene weekly. Information free. J. A. Smith Company, Box 5265-N, 2214 Dolman, St. Louis, Mo.

Top Pedigree Breeding produces Booth Nationally Famous Chicks—descended from World's Champion Layers. Thousands high egg record males 1949 matings assure you greater profits. 6 breeds and assorted \$6.90 per 100 up. Free catalog in natural colors. Advance orders says 3c chick. Booth Farms, Box 736, Clinton, Mo.

Superior Best Chicks with 200-336 egg bloodlines 98% livability guarantee. Leghorns, Rocks Reds, Hampshires, Wyandottes, Austra Whites Legorcas. As hatched or sexed. Low prices save you \$1 to \$3 per 100. Old, reliable, established 1919. Big catalog free. Superior Hatchery, Box 134, Windsor, Mo.

25,000 Berry's Chicks every week to raise on shares. Liberal proposition. Get your chicks when wanted. Settle in 6 months when chickens grown. Many varieties available. Cockerels for quick broilers. U. S. Approved. Pullorum controlled. Berry's Chicks, Box 3316, Atchison, Kan.

Chicks on Approval—Send no money, Pay after you get them! Write today for amazing offer, no obligation, All leading breeds, lots of rare breeds, hybrids, as hatched or sexed. Poults, Started pul-lets. Lowest prices! Chicks shipped when wanted. Pleasant Hatchery, Pleasant Hill, Mo

Profit Designed Chicks—Sensational new breed-ing, Thousands weekly, husky vigorous chicks, Rapid maturing, quick feathering assure profit. Prompt delivery. Free chick raising guide and prices. Stillwater Hatchery, Dept. K, Stillwater, Okla.

Baby Chicks, \$4.00 per 100 up. Leading pure breeds and hybrids. Backed by 46 years breed-ing for high egg production. Blood tested past 20 years. Circular free. Steinhoff Hatchery and Farms, Osage City, Kan.

Now Booking Chicks for spring delivery. Fif-teen breeds including Jersey Giants, Buff Mi-norcas, Anconas, Silver Laced Wyandottes, New Hampshires, free literature. Thomas Hatchery, Pleasanton, Kan.

Chicks on a 30-days trial guarantee. All va-rieties Missouri Approved. Blood tested. Easy buying plan. Low prices. Chick manual free. Missouri State Hatchery, Box 171. Butler, Mo.

Sensational Value—Assorted Heavies \$6.85, Mixed Assorted \$6.45. No Cripples. No Culls. Send money order, prompt shipment. 100% alive, FOB. Clinton Chick Store, Clinton, Missouri.

Day Old and three week chicks. All breeds. Pullets and chicks. Robidoux Hatchery. St. Joseph. Mo.

25 Chicks Ic with order for 100. Write, catalog. Scott Hayes Chicks, Dept. A, Omaha, Nebr.

949

LIGHT PLANTS

Complete stock of parts for Delco-Montgomery Ward, Fairbanks-Morse, Onan, Sears.

GENERAL PRODUCTS 159 No. Emporia

For Sale—Large Stock 32-Volt Electric Appliances, fans, butter churns, electrical drills, hair clippers, shavers, irons, toasters, heating pads, combination radio and phonographs, cylinder vacuum cleaners, Dormeyer food mixers, electric motors in 4, 4, 4 and 3, H.P. Regular list prices, Bridgeport Equipment Co., Inc., Bridgeport, Nebr.

MACHINERY AND PARTS

For Sale—High Speed Road Gear Attachment 15 miles per hour—easy to install to fit John Decre Tractors A and B, also McCormick-Deer-ing Regular F20 and F30 Tractors. Bridgeport Equipment Co., Inc., Bridgeport, Nebr.

Hi-Compression Kit, inserts and manifold for John Deere tractors. Easily installed, low priced, many satisfied users. Write Canfield Sup-ply, Box 372, Fairfield, Iowa.

v and Used Tractor Parts. Write for big. cee 1949 catalogue; tremendous savings. Sat-ction guaranteed. Central Tractor Wrecking Des Moines 3. Iowa.

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

FARM EQUIPMENT

● FARM EQUIPMENT Clearance Sale—Hammer mills, hammer mill belts, blowers, elevators, speedjacks, disc har-rows, tank heaters, weed burners Edie grain bins, cream separators, manure loaders re-ters, pump jacks, tractor tires, gas engines, ea-tric motors, electric drills, electric chick water-ers, electric brooders, electric washing machines, Henderson Implement Company, Omaha 8, Nebr.

Henderson Implement Company, Omaha 8, Nebr. Skyline All-Purpose feed mills. Order yours now. Price complete is \$245.00, Satisfaction guaranteed. This price good only until our present stock is exhausted. R. V. Lehner Company, Distributors, Ness City, Kan.

Spike Tooth Drag Harrows—World's best, most popular, lowest priced all steel lever and flexible styles. Many sizes, Immediate shipments, Folders, prices write The "Wettschuracks". Montmorenci, Ind.

• 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 re-quest.

JACK BOWMAN, Box 615, Concordia, Kan.

Lespedeza, \$10.00 per 100; Brome Grass, \$25.00. Alfalfa: fancy \$45.00, choice \$35.00; German Millet, \$6.00; Orange Cane, \$5.00; A flas Sargo, \$5.00; African Millet, \$6.00. Hybrid Seed Corn, \$7.00. Samples free, Send for catalog. Hayes Seed House, Topeka, Kan.

Cherokee Seed Oats—True to name seed. Write for prices, bag, truck load or carlot, Harry Bullock, Oakaloosa, Kan., or United Hybrid Growers Association, Shenandoah, Ja.

Pure, Certified Pink Kafir, Norkan, Midland and Ellis, the new white-seeded sweet sorghum forage crop. Fort Hays Experiment Station, Hays, Kan.

Cherokee Seed Oats—\$2.75 retail. Special whole-sale prices on truck or carload lots. Wilson Hy-brids. Inc. Harlan, Iowa.

For Sale: Hardiest and best yielding Alfalfa and Pasture Grass Seed. Bober's Seeds, Box 751, Rapid City, S. D.

Certified Madrid Clover and Atlas Sorgo for sale now. Rolland Klaassen, Whitewater, Kan.

WANTED TO BUY

Wanted: Used 32-volt drill, Forney Welder, other used 32-volt appliances. Dean Bihlmaier, Por-tis, Kan.

• 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 Forekly for details. Circulation Department K. Topeka, Kansas.

Used Truck—Bus Body, 1942 Dodge Carryall ½-ton \$745, New rubber, good condition, Ideal for Rural School Bus. Phone 4-4692, R. M. Dumas, 625 Lime, Topeka, Kan.

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

Gas & Electric Kitchen Ranges Coal and Wood Ranges **Combination Ranges**

Combination Ranges
Coal, Wood and Electric or Coal,
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14 Famous Brands to choose from
Write or Visit
MIDWEST APPLIANCE STORE
608 Kansas Ave., Topeka, Kan.

HONEY

New Crop. Fine Flavor and Quality. Sixty-pound can, \$12.00. Prepaid to 400 miles.

HAHN APIARIES

1715 Lane Topeka, Kansas

January 15 Will Be Our Next Issue

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

Saturday, January 8 If your ad is late, send it in Special Delivery to 912 Kansas Ave. FILMS AND PRINTS

3c Deckledge Reprints 3c

Beautiful Yelox Deckledge prints made from your negatives only 3c each. 6 or 8 Exposure rolls developed and printed on deckledge paper 25c. Artcraft DeLuxe enlargements three 5x7 only 50c. Four 8x10 enlargements from negatives \$1.00. Your favorite photo copied and 10 printed made 65c.

SUMMERS STUDIO, Unionville, Mo.

Butone Jumbo Prints are different. Any 8-exposure roll developed and one Butone Jumbo print each, only 35c; additional Jumbo prints for each. Butone bargain: Any 8-exposure roll developed and two regular size prints only 35c, additional regular size prints only 4c each. All work guaranteed, Butone Photo Print Company. Box 1777, Wichita, Kan.

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, 6444-H Diversey, Chicago.

Prompt Service. Two prints ("Never Fade" Deckeledge Velox) of each negative on roll 30c. Highest quality. Reprints special offer. Write Welch Photo Company, 2418-32 Penn., Minne-apolis, Minn.

Valentine and Easter Cards from your negative, 18 for \$1.00. 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.

• EDUCATIONAL

AUCTION SCHOOL Learn Auctioneering America's Leading Auctioneers Teach You. Students sell actual Sales. Largest school in world. 14 years in Operation. Don't be misled. Term soon. Free catalog. Write REISCH AUCTION SCHOOL, Mason City, Iowa

Lane Auction School, Mason City, Iowa, Students sell actual bons fide auction sales as part of training. Students receive personal attention. Term soon. Free catalog.

Make Up to \$30-\$40 Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing. Dept. F-1, Chicago.

PLANTS AND NURSERY STOCK Too Many Peach Trees. D.

Too Many Peach Trees: Prices reduced 18-24 in. 8c, 2-3 ft. 12½c, 3-4 ft. 20c, 4-5 ft. 27½c. Most all leading varieties. Prices on other Nursery Stock on request. Otis Wheeler's Nursery, Amity, Ark.

50 Two-Year Concord grapevines \$4.00, list free. Ponzer Nursery, Rolla, Mo.

• LIVESTOCK ITEMS

Make More Profit under average farm conditions.

Raise Milking Shorthorns. For average farmer Milking Shorthorns are unbeatable. Produce 4% milk. Have greater carcass value than other breeds. second to none in producing milk and meat from home-grown roughage and grain from your farm! Free facts. Or subscribe to Milking Shorthorn Journal. Six months, \$1.00; one year, \$2.00; three years, \$5.00. American Milking Shorthorn Society, 4122 So. Union Ave., Dept. KF-5, Chicago 9, Ill.

English Shepherd: Pupples. Breeder for 22 years. Shipped on approval. 10c for pictures and de-scription. H. W. Chestnut, Chanute, Kan.

English Shepherd Puppies, Spayed females. Older working dogs. E. Barnes, Collyer, Kan.

Shepherds, Collies, Heelers, Watch Dogs. Zimmerman Farms, Flanagan, Illinois.

• REMEDIES—TREATMENT

Free Book—Piles, Fistula, Colon-Stomach, as-sociated conditions. Latest methods, Thornton & Minor Clinic, Suite C-106, Kansas City, Mo.

PRODUCE WANTED
 We want broilers, springs. Coops loaned free. The Copes, Topeka.

OF INTEREST TO WOMEN

Make Leather Items as gifts or to sell. Experience unnecessary. Belts, gloves, purses, woolskin toys, 100 other ideas. Largest supply in America. Catalog 10. Larson, Dept. FF, 820 S. Tripp, Chicago 24.

Eastside Maternity—Seclusion Hospital for un-married girls. State licensed. Working re-duces expenses. 4911 E. 27th, Kansas City, Mo.

● FOR THE TABLE Clover Honey \$12 per 60-lb. can, light mixed \$8.75, Smartweed \$6.50. Benj. Nielsen, Aurora, Nebr.

• FARMS-KANSAS

Improved 80 Acres, 8 miles from 2 towns, 12 miles from county seat, on highway 57, electricity available, \$4,000, immediate possession. Improved 80 acres in Catholic community, fine high school, 5 miles from town, fine highway, gas and oil onjnext farm, \$5,750. Possession March 1. W. Graves, St. Paul, Kan.

Stock Farm, 5 miles town, 360 acres, highly improved, 2 large silos, good water, 200 plow, 80 fine bottom. \$85 per acre. T. B. Godsey, Emporia, Kan.

FARMS-MISCELLANEOUS

● FARMS—MISCELLANEOUS

Equipped River Farm... 120-acre Ozark dairy, livestock and poulity farm, bordered by famous fish river, prompt possession, low down payment, retiring owner includes 4 milk cows, 2 heifers, Hereford bull, 13 calves, team and harness, brood sow, farming tools, all for only \$6,600! On graded county road, 15 minutes town; some cultivation land, 70 now in woodland pasture watered by 2 ponds, 2 springs and stream, mostly woven wire fencing, 31 fruit trees, 2,000 money-making strawberries; fair 5-room house, composition siding, good well, 28-ft, porch, nice river view, nearly new 32x40 barn, 12x30 poultry house, brooder house, garage, cellar house, well house; real start at only \$6,800 equipped, only \$2,600 down. Write for details and big free Winter catalog many states. United Farm Agency, 428-KF, BMA Bidg., Kansas City 8, Mo.

Strout's Farm Catalog, Fall-Winter Issue matted.

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.

Livestock Advertising Rates

34 Column inch (5 lines). \$3.00 per issue 1 Column inch...... 8.40 per issue 1 Column inch........ 8.40 per issue The ad costing \$3.00 is the smallest ac-cepted.

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

JESSE B. JOHNSON, Livestock Editor MIKE WILSON, Fleidman. Kansas Farmer - Topeka, Kansas

Six Acres of Sudan Beat 25 Acres of Wheat

SIX acres of good Sudan grass pasture are worth more in dollar returns than a 25-acre wheat crop on my farm," says Harold Graham, of Cowley county. Mr. Graham and his son, Ormond, operate a 230-acre farm and have a dairy herd of 25 cows.

Here is the way Mr. Graham compared the 2 crops. "The income from milk from 6 acres of Sudan grass for one month this summer was greeter than it would have been from 25 acres of wheat in a year. With the extra moisture we have now I should get at least another \$50 worth of milk an acre this summer."

Mr. Graham says he is getting \$100 worth of milk an acre from his Sudan.

This is equal to a 50-bushel wheat crop,

This is equal to a 50-bushel wheat crop, but the average wheat yield on his farm is only 12½ bushels an acre.

There are 26 acres of Sudan grass in 5 fields on the Graham farm, which assures the 25 milk cows plenty of summer pasture. summer pasture.

summer pasture.

"We dairymen seldom have too much pasture," says Mr. Graham. "It is generally too little. I have been growing Sudan grass for 20 years and have had few failures. It is a more dependable crop than wheat and pays bigger dividends. With new insecticides now available for chinch bug and grasshopper control, Sudan grass can be called one of the sure pasture crops." Mr. Graham seeds his Sudan with a wheat drill at a rate of 30 to 35 pounds an acre.

He isn't guessing about the value of Sudan grass pasture. There have been times when the cows had to be taken

MATHALIAN off Sudan and put on native pasture because of the weather. "Milk productansassion in the herd drops about one 19

LIBRARY

JAN 3 1919

tion in the herd drops about one 19 gallon can a day, or about 4 pounds of milk a head a day," he states.

This increase in income when the cows are on Sudan amounts to 18 cents a head, or \$3.78 a day for the herd.

Keeping a dairy herd instead of farming for grain only has other benefits too, Mr. Graham believes. "Each cow puts about 15 tons of manure back on the land every year," he estimates. "At \$2.50 a ton this makes a total value of \$37.50 a head deposited in my soils bank. For the herd it means an added fertilizing value of \$937.50 a an added fertilizing value of \$937.50 a year. About \$90 worth of fertilizer value is taken off the farm as milk, which leaves me a net fertilizing value of \$848.17."

Lower Potato Support

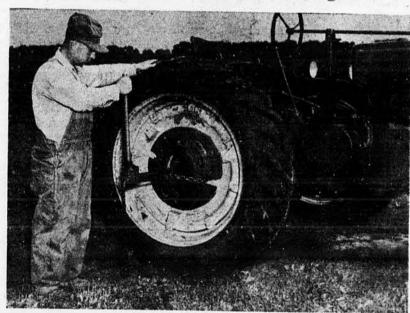
Price supports for the 1949 potato crop have been reduced to 60 per cent of parity, and the U. S. potato goal is 200,000 acres less than planted in 1948, according to an announcement from the state PMA office.

Goal for Kansas commercial potatoes is 2,400 acres for 1949. It was 3,600 acres in 1948, but only 2,600 acres in 1948.

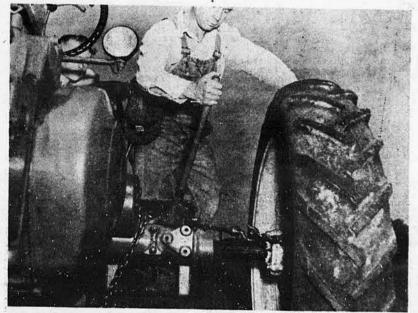
acres in 1948, but only 2,600 acres were planted. Kansas, like the U. S. as a whole, had bumper yields resulting in a 1948 surplus.

Consumption of potatoes has dropped from 150 pounds yearly a person in the early 1920s to a currently estimated 118 pounds, the announcement stated.

Saves Muscles and Sledges



anges tractor wheel spacing in 10 minutes. A new hoist-jack seems to have changes tractor wheel spacing in 10 minutes. A new noist-jack seems to have eliminated the standard problem of wrestling with heavy tractor wheels. Mounted into the end of the tractor axle, it is hooked to a chain rigged thru the wheel. The wheel then is simply "jacked" out to the proper position or completely off the axle if desired.



To move wheels in, the hoist-jack is hooked between a chain rigged thru th To move wheels in, the hoist-jack is hooked between a chain rigged thru the tractor wheel and another one fastened around the tractor transmission. The wheel is then pulled in to the desired position. This same hoist-jack can be used for hoisting motors and heavy machinery, pulling fence posts, stretching fence. Straightening buildings and many other special uses. It is available at many implement and hardware stores. Made by Coffing Hoist Company, Danville, III.

GONOGO/ The Tank Truck





The Ropin' Rancher of Tucumcari!

A broken shoulder received while roping horses from a somersault put Ed Breen, Quay County, N. M., into the ranching business. Today he owns 7,000 and leases 3,000 acres of the finest grazing and feed land in eastern New Mexico.

Mr. Breen won his first major trick roping championship in Soldier Field, Chicago, in 1926. The following 3 years he spent as a trick roper with Ringling Brothers and Barnum and Bailey circus. When bad luck ended his big-time career, he came back to the land where he had grown up, and started raising cattle.

Today Mr. Breen is still one of the best trick ropers in the country. Last year he won 2nd in calf roping at the Kingman, Kans., rodeo. He seldom comes home without prize money jingling in his levi's. But ranching is his real business.

"I've been using Conoco Products in all my equipment for the past 8 years and I like them fine," Mr. Breen says. "I've driven my 1940 Ford pickup over

Potatoes in Etons!

... by Mrs. Sadie E. Grover, Wellsville, Mo.

200,000 miles in all kinds of weather over dirt roads and right across the range. By using Conoco Nth Motor Oil I've held my overhaul costs to about \$75.

Winter before last, when the weather was so awful bad, I had cows with little calves all over the range. When it gets cold like it did then, you're going to feed those calves or they'll die. With Conoco gasoline and Nth oil, the pickup never failed to start . . . every morning she started right off and I never lost a calf.

"Conoco Agent C. A. (Skeet) Stinson of Tucumcari . . . gets what I need out here when I need it, without any fussing and fooling around about it."

I'll Stand by It.".



When a man is a farmerand a tractor mechanic, too—he's bound to know too—he's bound to know a lot about farm machinery. Take the case of Ed Monroe, who raises wheat on a 1,400-acre farm near Wakeeney, Kans. Between the growing seasons, Mr. Monroe helps implement dealers repair tractors. "I have overhauled tractors for 3 dealers," he writes, "and have seen tractors that have used all kinds of oils, I know my tractors, using Conoco Nth.

of oils. I know my tractors, using Conoco Nth Motor Oil, are in much better shape than those using other oils. They stand up better." That's because of the patented added ingredient in Nth oil that combats oxidation in this wonderful oil. It can't form excessive power-closuring sludge and

It can't form excessive power-clogging sludge and metal-corroding acids. You'll'get increased engine performance, longer engine life, safer starting, and cut your operation costs by changing to Conoco Nth Motor Oil. "I'll stand by it" Farmer Mechanic Monroe says it," Farmer-Mechanic Monroe says, "in any motor."

CONOCO

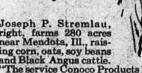
FARM KITCHEN

Bale Tie Cutter!

A knife welded between the tines of a hay fork makes a good tool for cut-ting string bale ties, says Frank Symus, Whiting, Kans.



8 Years.. No Repairs



Joseph P. Stremlau, right, farms 280 acres near Mendota, Ill., raising corn, oats, soy beans and Black Angus cattle.

"The service Conoco Products have given my equipment," Mr. Stremlau writes, "can best be seen on the operational record of my tractors. I recently traded an International H that had used nothing but Conoco Nth Motor Oil and Conoco N-tane Gasoline..., 8 years of farm work with no mechanical repairs on this H tractor proves to me Conoco Nth insures longer engine life through OIL-PLATING. I have purchased Conoco Products from Leo W. Hochstatter (at the left in illustration) and Harold J. Sonntag, owners of Central Oil Company (Conoco Jobbers) for the past 11 years, and I especially appreciate their prompt service during the busy seasons."

Fence Wire Rack



PRIZES FOR IDEAS! Send your original ideas to The Tank Truck in care of this paper—and get a genuine \$8 D-15 Henry Disston Hand Saw for every idea that's printed!

YOUR CONOCO AGENT