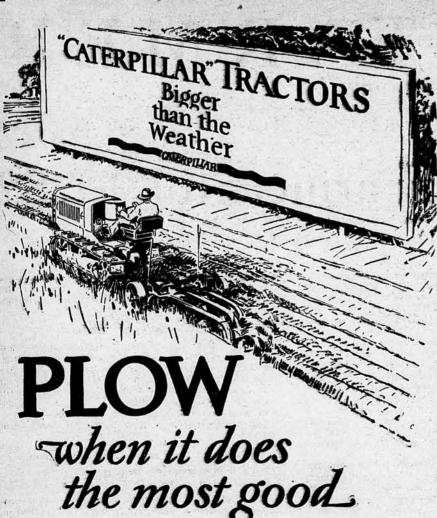
KANSAS FARMER MAIL & BREEZE



Eugene Elkins,

Clay County



July's plowing has August's beat By just a bushel a week of wheat!

Your "Caterpillar" Tractor is ready when you say "GO!" Ready to chisel or plow nights after it's pulled the combine all day ... ready to eat up the acreage with its generous power and amazingly sure traction.

Plenty of power means plowing done at just the right time to conserve the moisture ... plenty of power can shatter your plow pan with deep-set chisel.

Ready to wage a successful battle with dust...or hot weather... or short season ... ready, that's "Caterpillar"!

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Frogs Are Happy This Year!

But the Apricot Blossoms Are "Too Previous": Probably Jack Frost Will Get 'Em

BY HARLEY HATCH

nearly a month, and there has been tent has been too wet to produce crops but once when cold weather stopped in seasons like that of 1927, but in dry their song for a day or so. According years it has always raised the best to the old saying fregs have to be frozen to the farm. But it always has en out three times before spring is so after all these years we have really at hand, and if this saying is true we have two more freezes coming to us before it is safe to plant corn. The apricot trees are coming out in bloom, and probably will be caught by Jack Frost. We have one big apri-cot tree which has bloomed regularly for 15 years, and in that time it has produced just three crops, frost killing the blossoms 12 years out of 15. If apricots were not so previous in their blooming they would be one of our most dependable fruits; the buds are seldom or never killed by winter freezing, as the peaches so often are. It now seems probable that all the buds are killed on the concept trees with the now seems probable that all the buds are killed on the peach trees, with the possible exception of the seedlings. Other fruit, such as apples, pears and cherries, appear to be in good condition. Owing to a wet fall, strawberry plants made a very thrifty late fall growth, and give promise of a fine

Another Oats Year, Maybe?

A local rain which extended but a short distance on either side of this farm fell one week ago, and it stopped field work until the last day or so. It has now been resumed, and some oats are being sown. While it is always best to get oats sown early if possible, yet March is not too late to sow. If it is an oats year the late sown will make oats, altho possibly not so good as those sown earlier. Plowing has been resumed on many farms. Owing to the heavy and continued rains last year our heavy soil was well packed down, and most farmers had planned to do more plowing than usual because of this solid condition of the soil. The hard freeze of January put the soil in better condition than seemed possible; there is no agency which will do more toward putting the soil in shape for a crop than frost. Our soil does not take in frost readily and seldom freezes more than 1 foot deep. The same degree of cold would put frost down 6 feet in the open, porous, sandy soil of Northern Nebraska, and water pipes many times are not safe even at that depth. Our soil here in Coffey county would be better if it had more hard winter freezes.

'Rah for Native Bluestem

The sun has shone warmly here during the last week; on three days the mercury rose above 80 degrees, but the heat was tempered by the haze caused by many prairie fires. Nearly everybody burned off both pastures and meadows this spring, owing to the very heavy fall growth of grass. In many pastures a good hay crop could have been cut last fall. To burn or not to burn is always a debatable question here in this country of bluestem The sun has shone warmly here durhere in this country of bluestem meadows and pastures. A pasture not burned will provide feed earlier in the spring, and it will hold moisture much later in the summer than will the burned over lands. For this reason many farmers do not burn unless compelled, as they were this spring. If too much old grass is left in the pasture the cattle tend to eat in spots, and these closely eaten spots are likely to be partially killed out in dry seasons, allowing bluegrags to creen in I have no quarrel with bluegrass as early and late pasture, but for feed from May until October there never has any pasallowing bluegra ture grass grown equal to Eastern Kansas native bluestem. Farmers living out as far from town as we do have larger pastures and take better care of them than do the owners of small pastures near town, which have nearly all been taken by bluegrass.

Then Came a Brook

One of the jobs we tackled during the last wet week was the laying of a line of tile thru a wet spot at the foot of a hill on the south side of the creek horsepower for each 134 to 2 pounds which cuts this farm almost in half of gross weight of the again. which cuts this farm almost in half, of gross weight of the engine.

THE frogs have been singing for This spot of an acre or more in ex. been a nuisance to work around, and so, after all these years, we have it tiled. When we started digging the ditch the top soil was very wet, but not much water was standing. When we got down 2 feet we struck a regular brook, and the water poured out, nearly a 6-inch tile full for several days The soil on this bottom field is very deep and porous, and in wet seasons the water which comes out of the hill fills the bottom soil full to a depth of 6 to 7 feet when a bed of gravel is struck. This gravel bed is, without doubt, the ancient bed of the creek which now runs several rods away. By cutting this flow of water off with a 6-inch tile we think we can put this land in condition to raise alfalfa.

'Tis Cheap Fire Insurance

The Kansas Grange mutual insurance company, the official title of which is "The Patrons' Fire, Tornado and Hail Association," has had another successful year, and has again, as in every season since 1916, put away a good sum in the surplus fund. This company, whose members must belong to the Grange, has rates adequate to meet almost any emergency and at the same time carry part of the receipts to the surplus fund. This rate is but half that charged by the old line companies. It is low because the local solicities, who are elected by the local Granges, paries, and because in this company there is virtually no "moral hazard," which is the chance that the insured property will be "fired" to collect the insurance. Most Grangers own the roofs over their heads, and are not going to burn themselves out of house and home to collect insurance which, in all cases, is less than the actual value of the insured property. Since 1916 the volume of insurance in force in this company has increased in round numbers from 27 million dollars to 54 million dollars, or 100 per cent. The surplus fund now stands at \$255,000, and is increasing every year.

Corn Trend is Upward

Nearly all the cattle which have been on full feed in this locality have been moved out. In some instances these last shipments were the second lot which had been fed since last fall. The first shipments which went entabout the first of the year were so profitable that more feeders were brought back and the feedlets again. These last lots have not been nearly so profitable as were the first, in fact, with the recent rise in price of corn and the \$3 drop in the price of in fact, with the recent rise in price of corn and the \$3 drop in the price of fed cattle, cattle feeding is now about on a par with hog feeding—a case of swapping dollars, with the feeder rulening all the risk of loss by death, which many times is not small. as all feeders of a heavy corn ration know. So I think we may be assured that no more cattle will go into feed lots in this locality until next fall. Feeders in the Greenwood and West Coffer county districts now have to pay \$5. county districts now have to pay so cents a bushel for corn, and the prediction is made that if the spring is unfavorable for players unfavorable for planting, corn will self for close to \$1 a bushel in the locality mentioned. Other farm products bring the following local prices: Eggs, 24 cents a dozen: butterfat 46 cents a cents a dozen; butterfat, 46 cents a pound; hogs, 175 to 225 pounds, \$7.70 a hundred. Those who ship their butterfat receive on an average about 5 cents more a pound cents more a pound.

Boo-Hoo!

After the wedding the young people left Harpér's Ferry for a weels visit with the bride's parents.— (raften (W. Va.) paper.

An airplane engine will develop 1

KANSAS FARMER

By ARTHUR CAPPER

Volume 66

April 7, 1928

Number 14

Who Are the Master Farmers for 1928?

Second Group to Receive Same Recognition as Those of Last Year

HE second group of Master Farmers will be selected by Kansas Farmer during 1928, and these men will receive exactly the same recognition as the 15 Master Farmers of last year. It was the intention to select 10 men for the honor for 1927, but so many nominations were received that the number of awards had to be increased by 50 per cent. We are starting on the

same basis this year.

To the 10 men who are adjudged best, using the score card on this page as the standard by which they shall be measured, Arthur Capper and Kansas Farmer will award the degree of Master Farmer, together with a gold medal suitably engraved and a Master Farmer Certificate to be framed.

Nominations for this degree may be made by a neighbor, the county agent, banker, editor of the local paper, business man, teacher, friend, member of the family other than the nominee, or any other interested person. No farmer will be permitted to nominate himself. Men who are nominated will be compared by the score card method, will be asked for certain definite information and will be visited

personally by a member of the edi-torial staff of this publication.

The number of nominations from any community is not limited, so every good farmer in Kansas should have an opportunity to place on this honor roll.

Score your candidate, please, on the score card printed on this page. But before you do this, kindly read the instructions for scoring which appear a little farther along in this article. If you wish additional score cards they will be supplied on request.

Every nomination must be accompanied by a score card properly filled out. The name and address of the person scoring a candidate must appear on the score card, but we shall regard this information as confidential. Names of nominees will not be printed. Only the names of those who finally are selected to receive the deree of Master Farmer will be pub-

Who May Be Nominated

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The 15 men who received the degree of Master Farmer for 1927 are to hold that title for all time to come, so they should not be nominated again this year. They are: J. C. Frey, Manhattan; H. E. Hostetler, Harper; Henry Rogler, Matfield Green; James G. Tomson, Wakarusa; R. C. Wel-born, Lawrence; Fred G. Laptad, Lawrence; Charles M. Baird, Arkan-sas City; Charles H. Gilliland, May-etta: A. C. Standard M. Mayetta; A. L. Stockwell, Larned; W. A. Gladfelter, Emporia; A. Yale, Grinnell; Tudor J. Charles, Republic; E. H. Hodgson, Little River; J. F. Staadt. Ottawa, and A. E. Wegener,

Only those men who live on farms in Kansas, and who operate them as the principal source of income, are eligible to be nominated for the eligible to be nominated for Master Farmer degree. This includes tenants and men who manage farms for others, as well as farm owners. The important thing is that they actually are responsible for the success of the farms, and the farm homes in which they

Please remember it isn't how much a man farms, but how well. It isn't how large his house is that counts; it's the kind of home he makes out of it. Quality alone should be your guide in nominating your candidates, and you shouldn't hesitate to nominate the best farmers in your community.
All nominations will be acknowledged by letter so that you will be sure your candidates are receiving proper consideration. Every effort will be made

toward fairness in making the awards. Three men of state-wide promidence, and who know farm work and farm life, will be the judges who make the final decisions. No names will go to them. They will know the candidates by number only. But they will know the county in which each nominee lives. Location of each farm, with respect to the section of the state and the type of agriculture adapted to that section, will

be taken into consideration in making the awards. The Master Farmer Award has been made a national project by the Standard Farm Paper group, which covers almost every state, and Kansas Farmer has the honor and privilege of conducting the work in this state. It isn't unlikely that there may be a national organization of Master Farmers, in time. Degrees of Master Farmer will be awarded at a special meeting called for that purpose. Announcement of this meeting will be made in Kansas Farmer sometime in the fall issues. A special article will be written about each Master Farmer following the selection.

So here is an excellent opportunity to help dig-

nify agriculture, and render unto the good farmers of Kansas the honor they deserve. Please make your nominations without delay, so the judges will have sufficient time to consider every candidate. Nominations will be accepted until June 1. Please

mail all nominations, requests for additional score cards and any questions you may have to the Master Farmer Award Editor, Capper Building, Topeka, Kansas.

Instructions for Scoring

You will notice the first five items under "Soil Management"—a, b, c, d and e—are for the East-ern Kansas farmer, so for him you should score these and skip the second group of five. When scoring the Wheat Belt farmer, you should skip these first five items and start filling his score card with the second group of five items—a, b, c, d and e. Thereafter, please score for every item you can.

A. Operation of the Farm-Total of 285 points.

1. Soil Management-75 points.

Possible Candidate's

For the Eastern Kansas Farmer

a. If he applies manure regularly as it is produced, or provides storage so it doesn't lose its fer-tilizing value, score 15 points. If he fails to do this, deduct 10 points. If he makes no use of manure, score zero.

b. If he feeds or plows under his straw, score 15 points. If he burns or otherwise wastes straw, score zero.

c. If his soil washes and he uses Mangum terraces, soil saving dams, tile, crops or other means to prevent soil washing, score 15 points. If he makes no effort to prevent soil washing, score zero. If his soil doesn't wash, allow full score of 15 points.

d. If 25 per cent of his crop acreage is in legumes, score 15 points. Deduct accordingly as acreage of leg-umes falls below this percentage.
e. If he follows a definite system

of crop rotation, score 15 points. he does not follow a rotation system,

For the Wheat Belt Farmer

a. If he returns straw to the land directly or in manure, score 15 points.

If he fails to do this, score zero.
b. If he practices control of soil blowing, score 15 points. If not, score zero. If soil doesn't blow, score 15

c. If he practices summer fallow in lieu of crop rotation, score 15 points. If he practices alternate row cropping in lieu of summer fallow, score 10 points. If he practices neither, score zero.

d. If he grows legumes, score 15 points. If he can, but does not grow legumes, score zero. If he is beyond the legume territory, score 15 points.

e. If he follows practices equivalent to crop rotation, such as growing row crops, alternate row cropping, summer fallow, score 15 points. If he grows wheat continuously without fallow, score zero.

2. Farming Methods—25 points.

a. If he diversifies his crop production and follows a rotation; or in Western Kansas, if he follows practices equivalent thereto, score 5 points. If he fails to do this, score

b. If he sows pure seeds, score 5

points. If not, score zero.
c. If he sows seeds of varieties adapted to his section of the state,

score 5 points. If not, score zero.
d. If he practices early prepara tion of the seedbed, score 5 points. If not, score zero.

e. If he practices insect, pest and disease control, score 5 points. If not, score zero.

3. Man, Horse and Machine Labor -25 points.

If he has enough man, horse and machine power to do his farm work, score 25 points. If his power is deficient in any branch, such as men, horses, machinery, tractors, engines, (Continued on Page 82)

Kansas Farmer's Score Card for Farmers, 1928

Operation of the Farm	nts	Score— 285	Score
1. Soil Management	5		
2. Farming Methods 25	The state of	- 1.6	
3. Man, Horse and Machine Labor 25			EV.
4. Crop Yields			
5. Livestock Management 60	0		
6. Tools, Machinery and Equipment 20	-		
7. Field Arrangement 20	0		
8. Farmstead Arrangement	4		
Business Methods		285	
1. Accumulative Ability 10	0		•
1. Accumulative management	60		
3. Safety Financial Practices			
4. Marketing Practices and Production	35		
C. General Farm Appearance and Upkeep		90	
	25		
2. Condition of Fields 2	25		
	20		
	10		
	10		
D. Home Life		325	
1. Convenient House	50 .		The state of
	75		
	00		
	.00		
E. Public Spiritedness		260	
	50		
	60		
3. Interest in Other Community Enter-	50		
4. Interest in Local, State and National Government 1	100		
Total		1245	-
Name of Farmer Scored			
Address		Date	e

Name and Address of Scorer.....

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T. A. McNEAL Legal Department

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Passing Comment By T. A. McNeal

Y FIRST visit to Dodge City occurred more than 45 years ago, when a young man trying to edit a frontier newspaper at the little cattle town of Medicine Lodge, I attended a meeting of the Southwestern Editorial Association at Dodge City. The Santa Fe Railroad, which by that time had built its line thru Southeastern Colorado and down into New Mexico, as far as Sacora, proposed to carry the Mexico, as far as Secora, proposed to carry the editors and their wives and families free to the end of the road and return, presumably for advertising purposes, while the towns along the route furnished entertainment. It was a decidedly inexpensive and highly enjoyable trip. Even the Pullman Company, which as a rule does not make any donations to travelers furnished free berths: the donations to travelers, furnished free berths; the only cash the editor really had to dig up was a

very moderate tip to the porter.

I was young, unmarried and fancy free. The experience was to me a great adventure. There were several handsome girls with the party, who also were unattached, and, so far as I could learn, still fancy free. I was green enough so that I should not have ventured above the frost line, but happily I did not fully realize my verdancy and the girls were kind. As I let my memory run back over that trip I appreciate more than ever the wisdom of the old maxim, "Where ignorance is bliss 'tis folly to be wise."

It has been a long time since I have seen any of the girls who made that trip along with the editors, but if they are still alive I will venture the guess that they have bobbed their hair, put on flapper garments and appear only a little older than they did back in the early '80's. Perhaps their waist lines are more ample, and it may be that their complexions are more artificial, but I have no doubt they are stepping right along, maybe doing the fox trot with the grace and agility of flaming youth.

And General Wallace Talked

AT THE old quaint town of Santa Fe we were entertained by the city government, or whatever organization was running things. The scholarly, distinguished and polished Gen. Lew Wallace was Governor of the Territory of New Mexico, and was gathering the material for his novel, "The Fair God," a great story, but never so popular as "Ben Hur." General Wallace was a delightful speaker and toastmaster: his welcome delightful speaker and toastmaster; his welcome

was really a literary gem.

The Kansas editor who had been selected to respond on the part of the association was a dignified and imposing looking gentleman, somewhat past middle life and ordinarily of most correct behavior, but he had looked on the New Mexican brand of red liquor, and was lit up like a white way when all the lights are working well. He was in a delightful state of uncertainty as to which in a delightful state of uncertainty as to which one of the boys he was, and saw at least as many as two Gen. Lew Wallaces sitting at the head of the banquet table. Being in a state of mental uncertainty as to what he was talking about, he rambled on for nearly an hour, while the food was growing cold and we were suffering the pangs of unsatisfied hunger. He finally sat down, and we was a filled with thankfulness but just then it ocwere filled with thankfulness, but just then it oc-curred to his intoxicated fancy that there was something he ought to have said which he had omitted, and staggering to his feet he meandered along for another half hour. It speaks well for the restraint of the other members of the editorial party that none of them took a shot at him—or it may have been that they had all laid off their guns before they came to dinner.

At that time Dodge City had passed the crest of

its hectic career as the wildest cattle town in the United States. In fact we were told that a reform administration had been elected. The reform mayor was running the largest and most ornate saloon in the town, altho the Prohibitory Amendment to the Constitution had been adopted two years before.

A dance hall or two were still operating, and some of the male residents of the town rode about the streets in company with ladies of somewhat tarnished reputation, with no attempt at concealment or apparent shame on the part either of the ladies or their escorts. So far as I could ascertain, the reform boasted of by the residents consisted of the fact that some of the most noted gunmen and gamblers had left town, probably because they had opposed the city administration then in power at the previous election. We were welcomed to the city by the late Mike Sutton, who advised

us that, so far as he knew, very few persons west of Spearville had as yet learned that prohibition had been adopted by the people of Kansas.

The lodies of the men who had died "with their boots on" still rested on "Boot Hill," their graves marked by wooden headboards; the dead unclaimed by relatives, if they had any. Quite possibly many of them were known by names different from those bestowed by their parents. Along with the men who had met with sudden and yiolent death there were also buried, in this same hislent death there were also buried, in this same historic ground, a few of the demimonde who also had died perhaps by violence, but more likely were buried there for the reason that they had been the companions of the dead gunmen, and it was there-fore deemed fitting that they should rest in death by the paramours they attended in life with sinful

but passionate devotion.

It was only a few years after my first visit to Dodge City that the bodies were moved from Boot Hill, and that eminence was crowned with the largest and most modern school building up to

WILL YOU? WHEN VOLIVA FINDS

that time in the town. That building has been torn down, and Boot Hill is to become a sort of historical park owned and maintained by the city.

In this connection there is an interesting incident. Dr. Simpson, an old resident of Dodge City, who seems to be a born sculptor, is making a life-sized statue of a son of the late Mike Shughrue, who was well known in the old days to every cow man and other resident in and about the old-time Dodge City. Doctor Simpson, as I understand, has never taken a course in sculpture, but evidently has great talent in that line. This statue is made of concrete, and those who know young Shughrue say it is a perfect likeness. The figure is dressed in the old-time cowboy costume down to the last detail, and Doctor Simpson knows the typical cowboy dress. The big hat, the handkerchief around the neck, the leather "chaps," the high-heeled boots, the neck, the leather "chaps," the high-heeled boots, the spurs, the roll of the shirt behind, pistol scabbard, the paper of "Bull Durham" in the pocket, the cigarette papers in which the cowboy rolled his own—he would have scorned the idea of "boughten cigarettes"—all these details are faithfully reproduced in the statue, which I understand is to be placed on "Boot Hill."

A Hard-Boiled Egg?

NOTHER incident of the visit of A The leading hotel then was the Wright House, named in honor of Bob Wright, and perhaps built by him. I sat down to dinner near an open window. A man who evidently had been looking on the liquor when it was red, and still had a bad taste in his mouth, came in and sat down at the same table. He looked at the various dishes of food spread around his plate with a dissatisfied expression, and then taking them up one at a time tossed them out of the window. When only the plate on which he was supposed to eat was left, he called the waitress and gave his order: "Bring me an egg boiled on both sides."

At that time the Government still maintained an

army post near Dodge, where the State Soldiers' Home is now located. There was perhaps a battalion of infantry at the post, in command, as I recall, of a colonel, whose name has escaped my

memory. The editors were all invited to visit the post and partake of the hospitality of the officer in command.

in command.

If there seemed to be plenty of liquor on tap in the town there was more of it, and I judge of a better quality, on tap at the post. It ranged from bottled beer on ice to sparkling champagne. Did I partake? Why bring that up? My recollection is not entirely clear, but I probably did. The statute of limitations has long since run. That, I may say, was my first experience with regular army officers and their wives. Frankly speaking, they seemed then to be the most affable, courteous gentlemen and about the most agreeable ladies I had tlemen and about the most agreeable ladies I had ever seen. That was before the days of the khaki uniform. The officers and men wore the old blue, and that day in honor of the visitors the officers wore their army full-dress uniforms. They impressed a green, unsophisticated youth as about the most "splendiferous" outfit I had ever seen. Khaki may be a more serviceable uniform, but for exhibition purposes, dress parade and social events it is not a marker to the uniform of the old army.

All of Western Kansas 45 years ago was a grazing country. The buffalo had gone, but herds of antelope numbering from 15 to 30 in a herd could be seen any day on the prairie. The antelope is perhaps the most speedy animal that runs; swift er even than the deer, but it was possessed of a most dangerous curiosity and a certain stupid per-sistency. A herd of antelope always ran on the ridges, perhaps on account of an instinctive desire to be able to see their enemies; and no matter how closely pressed they would make for the ridge on which they were accustomed to cross. Hunters took advantage of this, and headed them off. Even when the antelope must have known that hunters were lying in wait they would insist on following the ridge to their own destruction. They were timid but naturally friendly animals easily domesticated, and in captivity would become as tame as sheep.

Possibly there were men even then who had a vision of the time when the Western Kansas plains would become the greatest wheat fields of the United States, but if any of those editors had such a vision I cannot recall that they said anything about it. Dodge City was simply a cattle town. The buffalo had been succeeded by great herds of cattle, and the Dodge City Globe, the leading paper of the town, pandered to the trade of the ranch owners.
It was the first paper to make a business of printing cuts of cows with the brand of the ranchman carved on the cut and below a brief description of the location of the headquarters and extent of the range claimed by the cattleman. The Medicine Lodge Cresset, the paper of which I was one of the editors, followed suit, and afterward published more cattle outs they the more cattle cuts than the Globe, but was not the originator of that kind of advertising.

These cattlemen divided the country among them like ancient barons, altho they owned not an acre of the soil. Their cattle ranged far and wide. Often Kansas ranch cattle would be found as far south as the Panhandle of Texas, but after all few of them were lost. The cattleman might place his brands on a few mavericks, as unbranded and unclaimed cattle were called, but he respected the rights of property of other cattle and if rights of property of other cattle owners, and if he discovered cattle with their brands on his range he would notify the owners. There was a free and easy comradeship among them. The stranger riding across the range was welcomed at any company camp, and so long as he seemed to be attending business no questions were asked. He was fed, as was his horse, without charge either in the way of money or work, remained at the camp as long as he wished and then went on his way rejoicing. Most of the cattlemen were jurd riders, free spenders and reckless gamblers. It was no uncommon thing for a cowboy, to work six months on the range without going to town. Finally he would take his vacation draw his six ally he would take his vacation, draw his gix months' wages in a lump, announce his intention of buying another outfit, get into a poker game when he first struck town and star with the game when he first struck town, and stay with the game until he had lost every cent of his wages, also perhaps his saddle, bridle and blankets, buy another outfit on credit and blankets, buy another outfit on credit and blankets, buy another outfit on credit and blankets. other outfit on credit and cheerfully ride back to another six months of range line riding, apparently without ently without any regret and not even any hostility toward the card sharps who had robbed him.

The cattle owners were all the card sharps who had robbed him.

The cattle owners were often as confirmed game

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Out 26,59 #0W 1 every savin ing v blers as their employes, the difference being that they generally played with each other and had sense enough to keep out of games with professional gamblers. However, they played them high; the roof was the limit and often thousands of dollars and in at least one instance a whole herd of eattle and ranch horses changed hands in a single night's play.

Cheers for Prohibition New!

PERHAPS nothing Illustrates more vividly the remarkable change that has come about in Jodge City during the 45 years since I first visited there than the fact that at the meeting in the Beeson Opera House last week the remark of one of the speakers that not in a thousand years would the prohibitory law, either state or national be repealed, or the Eighteenth Amendment be stricken from our fundamental law, received the greatest applause of any statement made. If any speaker had made such a statement in Dodge City 45 years ago it would have been greated with hoots and hisses, and the speaker would have been lucky if he had gotten out of the building without suffering great bodily harm.

Possibly there were residents of the frontier town 45 years ago who were in favor of enforcing the prohibitory law which was then on the statute took, but if so they kept mighty still about it. To have expressed such an opinion then would have meant social ostracism, and probably physical violence to the expressor. It is safe to say that 90 per cent at least of the inhabitants honestly believed that saloons and dance houses were necessary to the prosperity of the town; to close them, in their opinion, would mean that Dodge City would become an abode for owls and bats, a place to be shunned by every man who had red blood in

his veins.

Then Dodge City was a crude, unlovely frontier town of perhaps a thousand inhabitants, possibly not that many. There was not a single fairly good building within the corporate limits, There was not a single paved street and not even a brick sidewalk. There were some outfitting establishments that did a large business in furnishing supplies to ranchmen, but even the buildings in which they did business were low and uninviting, although they did business were low and uninviting, although they covered a good deal of ground. Today Podge City has 10.000 inhabitants; it is as orderly and law-abiding as any town in Kansas; it has many miles of well-paved streets and is building what will be, when finished, one of the most ornate up-to-date and commodious high school buildings in Kansas. It has at least one church building which has cost \$150,000, and others costing nearly as much. It has one great hospital and another almost completed. It has a miller who buys more wheat, not on margin but for actual cash, than any other individual miller in the United States.

It has one of the most progressive and best edited daily papers in Kansas. It has just completed a new hotel that would be a credit to a city twice the size of Dodge. In place of the old wooden shacks in which men drank and reveled, and bedizened women, lost to shame, added obscenities and blasphemy to the general uproar, there are now handsome business blocks with stores filled with modern merchandise. There are 10 times as many inhabitants as there were in the days when the town enjoyed the questionable reputation of being the greatest and the wildest cattle lown on earth, and there is more than 10 times as much real wealth and business as there was 45 years ago. Long ago the business men of Dodge City realized that the saloon and houses of prostitution never built permanent prosperity, and that, leaving out of consideration all sentimentality or even morality, and only keeping in view feed matters of business, it pays to be sober and

Dodge City may be said to be the center of the

district where the "combine" especially flourishes. The climate in that part of the state is especially suited to the use of the combined harvester. Wet harvests are very rare; wheat can stand until it is fully ripe without much risk, and even the first wheat harvested by this remarkable machine is generally fit to go to market without being docked for moisture. The land is not yet broken up into small holdings, and that also is favorable to the combined harvester.

Two menths ago the prospect for a wheat harvest was far from bright. That part of the state had been passing thru the most protracted drouth for many years. It appeared as if there would be millions of acres sown in wheat last fall that would have to be abandoned; then one of those seeming



miracles that sometimes happen in Western Kansas weather conditions occurred. Soft falling rains and wet snows, that did not drift, soaked the ground; where the wheat had seemed to be dead it came to life; little green shoots appeared in fields that had been as barren as the desert. It is too early yet to make any definite predictions; a good many things may happen yet to the wheat crop, but just at present I think it may be said that the prospect has never been brighter since the famous spring of 1914.

If weather conditions remain favorable two and a half months from now, hundreds of combines will be sweeping thru golden seas of wheat, singing industry's potential song. The banks will be filled with money; old debts will vanish like melting snow under the beaming rays of a new prosperity.

The old Dodge is only a memory; only a few folks are living who can still recall the picture. Standing on the slight eminence of "Boot Hill" one looks over a fair, modern city, filled with tasty, modern homes and business houses, a city becoming more beautiful as the growing trees embower the homes with comforting shade. Out of the shadows, perhaps, come back the figures of the long ago, heroic figures, some of them, of men of dauntless courage and almost unbelievable daring, others merely sordid gamblers and killers without compunctions of conscience or sentiments of mercy.

Tin-horn gamblers by profession, their harvest was the hard earned wages of the cowboys who had driven the great herds of longhorned cattle over the sun-parched trail from Texas, and who, with their brains stupefied by the vile liquor they had drunk, were as helpless in the hands of these card sharps as would be a tender lamb at the mercy of a gaunt and ravenous wolf.

With these human wolves murder was a pastime, and honor a meaningless word. Some of those who were so carelessly buried on Boot Hill were first provoked to a quarrel by the men who had robbed them, and then shot to death while they were impotently trying to draw their own guns. Sometimes the killers were the victims of other killers; in fact, most of the notorious "gunmen" died by violence.

The picture fades; the silent specters pass into the silence from which they came, and the old timer, as he breathes deep the ozone filled air of the morning, hears the hum of the new industry. The old order has changed, and changed for the

No Rebates in Sight

We organized a co-operative store about nine years ago. The company was required to buy the stock of anyone moving out of the community. Later on the members voted not to buy anyone's stock when he was moving or otherwise. Can one or more of the stockholders sue for a division, or can a majority of the members force a sale? When we organized the company we were to get 8 per cent interest on our money and a dividend and rebate. It has paid interest but twice, and only paid a dividend once, several years ago. We have never had any rebates. Please quote the law.

C. V.

The law providing for the organization of cooperative societies occupies something over four
pages of the Revised Statutes. It would be utterly
impossible to quote the entire law. As briefly as
possible I will say that any 20 persons may associate themselves together as a co-operative corporation. Second, every such corporation may issue
stock to its shareholders in such amounts and with
such limitations as are hereinafter defined. No
shareholder may own to exceed 5 per cent of the
capital stock. Such an association shall be managed by a board of not less than five directors.
Each corporation shall formulate bylaws describing the duties of the directors and officials, the
manner of distributing profits of its business, the
manner of becoming a member and other rules and
instructions to its officials and members as will
tend to make it an effective organization.

There would be no legal barrier to a majority of the stockholders making a rule that the company itself should purchase the stock of any stockholder desiring to leave—or, on the other hand, the bylaws might provide that it should not purchase such stock. The manner of governing the body would, according to statute, be controlled by the bylaws. With the restrictions which have been mentioned the corporation might run its business as the majority of the stockholders dictated.

All the Members Must Agree

Can a school board hire a teacher who is a daughter or wife of one of the members of the board? Is a teacher's contract legal and could she teach the school if one member refused to sign the contract?

J. J. L.

The school board has no right to employ a relative of a member of the board except in a case where the board unanimously agrees to such employment.

What About Children?

If a wife owns land in her own name in Colorado, what share of that will her husband inherit at her death? Or in case the husband owns land what share would the wife get?

If either one dies without will and if they have no children, the survivor would inherit all. If they have children the survivor would inherit

Shall We Save or Waste Millions?

Suppose a man owed \$8,000 and at the end of the year he found he had \$400 on hand after miceting all his current expenses. What had the man better do with the money—spend it toward paying off his debt of \$8,000? Which course would be better for him?

The question seems almost childish, it is so apparent what the man should do with the money. Yet the taxpayers of the United States are in the Position of this man. There is a dispute in Congress in regard to how much of the 400 million dollars of Treasury surplus shall be handed back to the taxpayers in a further reduction of income taxes, and how much, if any, applied to our interest-bearing public debt of \$18,173,915,467.

Whatever the amount—whether all or part of that surplus is turned back to the millions of tax-payers—it cannot total more than a few dollars at best for each one—just some change to spend. But applied to reducing the public debt it would have millions of dollars in interest charges—not Our war debt at its peak, August 31, 1919, was 26,596,704,648. The payments we have made on it ferry year. That is what these payments are now saving us in taxes every 12 months. We are saving us in taxes every three years in

interest charges alone on this huge national debt.
That is a real tax reduction. It is a tax reduction which doesn't stop. It keeps right on working every day and every year, and it lifts a great load off our shoulders.

Can we in the present instance do better than adhere to this debt-reducing policy? I think not. Our federal income taxes are not now excessively high or burdensome. They afford us means of combining regularly to save something for paying off that huge tax-consuming debt of 18 billion dollars, which by this policy we have already diminished more than 8 billions of dollars.

And yet there are men in Congress who would hand back the Treasury surplus to the taxpayers by making another trifling cut in federal income taxes. The House bill would make the reduction 289 million dollars, altho Secretary Mellon says the cut should not exceed 200 millions, and President Coolidge will veto any measure that will

endanger a balanced budget.

The farmer organizations are for having taxes cut in the way that will count most in reducing the debt and its interest charges, as in 1927. Of the 635-million dollar surplus of June 30, 1927, 612 millions was applied to the public debt, effecting an annual interest saving of 24 million dollars a

year every year for all time to come.

No tax reductions other than this sort are neces-

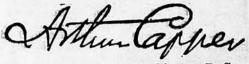
sary, declares the American Farm Bureau Federation, if such reductions imperil the ability of the Federal Government to reduce its debt at least 1 billion dollars a year, and this is more than we

have done in any one year yet.

President Coolidge recently warned the country that the expenses of operating the Government, which have steadily been reduced in the 10 years following the war, must soon begin mounting again. In fact, they have already begun to climb. The army and navy budget is being increased by millions. Long needed and delayed public buildings will require millions, and flood relief will call for 325 million dollars.

The place to cut expenses is in the budget. The place to cut federal taxes is to trim them off the 18-billion-dollar public debt, for such a tax cut goes on forever. It is permanent, not temporary. It doesn't just hand the taxpayers a few dollars, then quit, it saves them hundreds of millions, not one year but every year.

I am for this policy, strong.



Washington, D. C.

World Events in Pictures



At Left is an Attractive Sports Dress with Delicately Striped Blouse and Pleated Skirt. Right, a Charming, Girlish Negligee. The Material is a French Rayon, Called Fulgurante



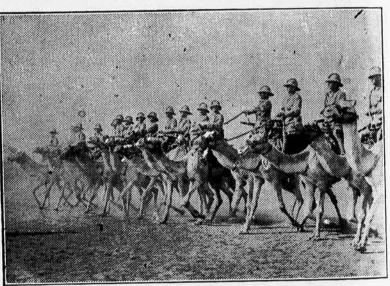
Two New Specimens Introduced to Flower Lovers at the Annual International Flower Show, New York, and Named in Honor of Two Famous Americans. Left, the New White Orchid, Called "Col. Lindbergh," and Right, the New "Mrs. Evangeline Lindbergh" Tulips



Caroline Bishop, Beverly Hills, Calif., Reported to be Engaged to Gene Tunney. She Refused to Affirm or Deny the Engagement. Gene Remarked That the Rumor Was Somewhat Premature



They Have Your Number! Photo Shows Manager R. C. Brewer, of the California Auto License Service, Taking Some Liberty with License Plates. He and His Assistants Are Showing Their Display of Plates Left by Motorists of Every State in the Union



The Camels Are Coming, Yo Ho, Hi Oh! This is a Striking View of the Camel Corps in the Egyptian Army. The Riders Are All Britishers, Impressing the Fact That Great Britain in a Recent Note to the Egyptian Government, Insists on Maintaining Control of the Army



Victors in Japan's First General Election for Males Over 25 Years Old, Celebrating by Drinking "Saki," or Rice Wine, Which is the National Drink. In the Process of the Celebration They Shouted "Bonzai," Which Means "To Your Health"



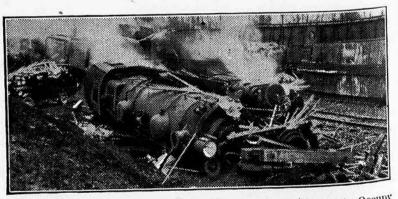
The Flying Peacemaker, Lindy, Receiving the Woodrow Wilson Peace Medal and \$25,000 Prize for His Good Will Flight Thru Latin America



The S-4, with Flag at Half Mast, Arriving at the Charlestown Navy Yard, at Boston, Where it Was Opened After Going Into Drydock, Eight More Bodies of the Crew of 42 Were Recovered. The Boat Bore Mute Evidence of the Fight for Life



First Spring Practice for the Princeton Crew. These Men Have Started Training for the Famous Inter-Collegiate Races and Poughkeepsie Regatta. These Boat Races, or Shells, as the Boats Are Called, Bring Out the Crowds and Generate Enthusiasm Equal to Other Leading Sports



When Three Freight Trains and One Express Train All Try to Occupy the Same Space at the Same Time, Something Happens. In This Case a Freight Train Slowed Down at a Curve Near Harrisburg, Pa., and Before Signals Could be Set, Two Other Freights and an Express Crashed Into It, Blocking All Four Tracks of the Main Line

Photographs Copyright 1928 and From Underwood & Underwood

T 1927, gages Out to the 1,000 p farm product Acces Saline per ce

\$70,000 more: year to And could b wheat yields.

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Por Work At e

These Factors Cramp Poverty's Style

Kansas Sheep Men Are to Have a Special Day at the College

HINGS could be worse. For example, after harvesting a wheat crop of 3½ million bushels last summer, Pratt county came thru with a million bushels of corn, For Cloud county had a record of fewer mortfor less money than in 1926.

Out in Kearny county, folks point with pride to the farm of Charles Bentrup. The farm includes 1,000 acres, is under irrigation and a well-diversified program is followed. About one-third of the farm is in alfalfa. Bentrup sold \$30,000 worth of

products in 1927.

According to the Saline Chamber of Commerce, Saline county boosted her dairy population by 35 per cent during 1927—with profitable cows. Reno per cent during 1921—with profitable cows. Reno county, even if you don't think of that section as a potato-growing area, produced and consumed \$70.000 worth of potatoes, and shipped in a lot more. More spuds are being planted there from year to year to cut down the shipping-in process.

And there are a million other signs that "things could be worse" if we just hunt them out, And the when crop this far promises something real in

The Trouble With Milk

ND now there is something wrong with milk.
Aggie professors have discovered that it isn't erfect food we always have considered it to Titus, one of the chemistry specialists college, experimented with eight young rabseven were given milk and iron oxide and other lonesome bunny received, in addition,

The seven died with anemia, and the lonesome is still more lonesome, but healthy and well, is lettice, according to Titus, made it possible he rabbit to utilize the iron supplied in the which is present in very small amounts in X-ray photographs taken of the legs of the showed the bones to be bent, indicating itamine D, which prevents rickets, is low lk in winter.

Well, milk may not be a perfect food, but just try getting along without it.

Might Solve Help Problem

HERE seems to be a little difficulty at times in spots, in getting hired hands at the right who will function as hired men should do. It ikely that W. H. McClure, a Republic counmer, can help solve the problem.

a very unique farm hand in the "person" makey, that he declares is as useful as a may hands that are considerably farther up ution scale. The little fellow helps feed the loses gates, keeps chickens out of the garmany errands and now and then pitches

farmers might follow the example set by ph Johnson, Atchison county. He has an ele-which he uses as a beast of burden.

ver, about the time monkeys and elephants real popular and there was a demand for somebody might get a corner on the market and make whoever wanted them pay and pay and pay. But still that will not happen, for this is a

Should File Our Teeth

PERHAPS the savages in the dark ages knew their stuff after all, where dentistry was concerned. They filed their teeth, didn't they? Well, but them to the just listen to this.

Tooth decay, according to the Bureau of Educa-tion, Department of the Interior, nearly always starts from food particles catching in irregulari-ties in the beginties in the teeth. Smooth the teeth at the beginning, and much decay would be prevented, the bureau advises. Over a period of years, of persons who were so treated when children in a Boston elinic, only one in 200 has had serious tooth trouble since. One in three of the rest of us has. Of Course, having our teeth ground down would be a nice, pleasant sensation.

A Two in One Fowl

DO YOU know what Turkens are? Jack Ash-hatching purposes. Turkens are a new American developed purposes. Turkens are a new American developed fowl, half turkey and half hen. They are sail to be as easily raised as chickens and possess the qualities of turkeys. So now you may raise here hens turkeys, or both, pay your money and take

Had a Hog Hauling Time

PORK movements took on a rapid pace on, or ly Earl Burger decided to part with his hogs. Work started at 7:30 o'clock on Monday evening. At exactly 4:30 c'clock on Tuesday morning by At exactly 4:30 o'clock on Tuesday morning by

the same clock, work stopped. In the meantime Mr. Burger hauled, weighed and unloaded at the stockyards, 220 hogs. A good percentage of the animals were in the 300-pound class. The work was done with one truck.

Now just compare that with walking the pigs several miles to market as of old, or hauling them

behind a team.

Just Talk Pounds Away

THERE is about "one idea a minute that games to reduce the plump individuals to that HERE is about "one idea a minute" that guargraceful, slender stage that would make the bathing beauties envious. But what do you think of this one? "Talk it off." That is what Ida J. Kain, a Chicago dietitian, advises. "Just talk off your tonnage, ladies."

'Wow! I know a woman who can talk an arm off a statue, but she is the fattest thing in But wait a minute. That isn't the kind of talk, ex-



actly. "Talk and nobody will notice that you toy

with your food," the Chicago lady insists.

What's the use of beating around the bush about it? The idea of taking food and "toying with it."
And imagine "toying" with a meal of spring chicken and all the home-grown trimmings. We think maybe Chicago folks keep thin dodging bullets anyway.

Can Boost the Interest

AN ANNUAL investment of 20 to 25 million dol-lars is made by Kansas farmers in seed, ac-cording to H. R. Sumner, secretary of the Kansas Crop Inprovement Association. This investment yields a return, he said, of approximately 300 million dollars, or an interest payment of 1,500 per

"The use of certified seed would increase the present yield from 1 to 2 bushels an acre," he adds. It's just a matter of knowing what kind of seed is planted. As important as buying the right kind of livestock or farm machinery.

Maybe Crows Help the Wheat

EVEN crows may be worth something. They have been thoroly despised for a long time and there is a bounty on their black heads, "But hear ye this," a mighty body of crow defenders is about to rise up and shout.

One farmer in Sumner county killed a crow and proceeded to hold a post mortem examination. As a result. 71 army worms were found in the craw. And isn't the army worm a menace of what looks Do you want a nice flock of crows for your wheat

An "All Wool" Meeting

MANY farm flock owners and others interested in sheep production in Kansas have urged a "Sheep Day" similar to the Cattle Day in the spring and Hog Day in the fall, to be held at the Kansas State Agricultural College, These requests have become so numerous and so insistent that arrangements have been made to hold a Sheep Day at the college, Saturday, April 14.

A series of demonstrations will be one outstanding feature of the day's program. This will include choosing rams and ewes, winter feed and care, care at lambing time, docking and castrating, creep

feeding, shearing, developing young stuff and sheep

Later in the day, time will be given for additional discussion of the demonstrations, for talks on what the market wants, and "when it wants what it wants." Other talks will consider marketing wool, farm flock possibilities, and a question box will consider everything.

Sheep production on a farm flock basis is a growing farm activity in Kansas. The net returns from this sideline justify the present interest in it and further expansion if properly handled. Every farmer, regardless of whether he is a sheep enthusiast, is invited to attend the meeting.

Take All You Want

AN AIRPLANE whirred over the farm of W. E. Alderman, Gray county, one day recently. Mr. and Mrs. Alderman went outdoors to wave to the pilot, who dropped a bundle of papers to them. It was their son, Lloyd Alderman, sheriff at Lamar, Colo., who was making a flying trip across country for a prisoner, and he just detoured around over the home place. Thanks, Mr. Alderman, Take all the criminals you want. We'll help you, and other peace officers, with the Protective Service.

Still Need Many More

TREE seedlings, including 14 varieties deemed suitable to the Western Kansas climate, are being distributed by the Fort Hays Experiment Station, in conjunction with the United States Forest Service. This is to induce the growing of wind-breaks and woodlots. The varieties include Ameri-can elm, hackberry, Western Yellow pine, Austrian pine, Russian olive, Norway poplar, Osage orange and Russian mulberry. Best authorities say that trees and shrubs and lakes will make Wes' ern Kansas one of our garden spots.

Now for an Orchard Derby

EVER hear of an orchard derby? Atchison and Doniphan counties allowed a "companionate" marriage between their names and now are preparing for the "Don-i-son" orchard derby, or in other words a bi-county fruit growing contest to be conducted this summer.

More than 100 orchardists will keep semi-official records of yields and the most outstanding will receive national recognition. Special attention will be given to development of young orchards.

To Have Women Architects

Women are taking up all lines of work. Now architecture has been added to their list in Kansas thru the efforts of Frances Schepp, a senior in the Kansas State Agricultural College. She is a candidate for the degree of Bachelor of Science in architecture this spring, and the first woman ever to win such a diploma at the Kansas State Agricultural College. Some of her sketches have been published.

\$190 for a Load of Wheat

THE largst sum paid for a load of wheat at Downs, since the war, was received by Frank Noller of Glen Elder recently. For a single truck load he received \$190.53.

Should Use 1928 Model

INOCULATION "dope" for legumes that is old enough to use a cane shouldn't be used, according to C. E. Lyness, Farm Bureau guardian in Doniphan county. A good many times, the county agent believes, undated cultures in tins or bottles are sold to dealers like canned goods and may be passed on to the farmer who must pay the piper. And the moral of the story in the words of Lyness is "that both farmers and dealers should be sure that all inoculation material is fresh.

Another Odd Specimen

A MEADE county ranchman, H. S. Cure, has the latest offering for the mythical "home-grown" menagerie. It was two well-developed calves, perfect in formation but without a head. Where the head should have been was only bone, with two protruding ears. The calves had eight well-formed

A Perfect Little Lady

ACERTAIN Brown county miss of 5, was escorted to the show by her "sweetie," of 8 summers and winters. Back home again the little girl was questioned by her mother: "Did you be-have like a little lady?"

"Oh, yes, mamma. I let him kiss me three times when the lights were off: lots of ladies do that."

Kansas 1

Negl dange

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treat

More Local Factories Are Coming

A Great Industrial Development Will Take Place Reasonably Soon in the Smaller Towns and Villages of the Middle West

NATIONAL community development program that would involve a period of 25 years is interesting to young men in Kansas now starting out for success in life, because they can expect to profit personally from the improvements achieved.

In that period, science and invention promise us a decentralization of population, due to the scattering of industrial plants away from the great city centers, out over the area of the Middle Western agricultural regions. This will bring the city consuming public near to the farm producing areas. The distance between our great industrial consuming population and the source of their food supply is a large factor in the problem of low profits to the pro-ducer and high prices to the consumer. The problem of agricultural surplus

is largely a problem of the Middle West. In certain lines of production it reaches even to the Pacific Coast. From Ohio westward extends the area of inadequate returns, due largely to this difficulty, and this is the section of the country from which the "green rising" is most vocal.

Our biggest domestic markets are east of this line, where the great industrial centers have been located. Our chief foreign markets for agricultural products are in Western Europe, where the teeming millions look to us in part for the supply of their food. In these latter markets we are in close competition with the people of other agricultural producing countries; and in many cases these competitors can produce more cheaply than we, and are in more

more cheaply than we, and are in more strategic locations with reference to shipping facilities.

Not only shall we within the next 25 years bring more of our present industrial population in closer proximity that former but according to our to the farmer, but according to our present rate of increase in population, in that period we shall add to our consuming public here at home some 60 million more people.

Where Will the Folks Live?

Where shall this additional population of 60 million reside? If the present trends of decrease in farm population paralled by increase in farm production continue, it is evident that no considerable number of these people are to live on farms. There are only two other possible alternatives: they may develop the big cities into much Jarger units of population, or they may scatter over the Middle West and we may become a nation of populous vil-

lages and small industrial cities. Our great cities like New York and Chicago doubtless may continue to grow; but there are many evidences that they will not in the future take up their percentages of the increasing population as they have in the past. The movement to scatter business and industrial plants from the centers to the outer edges of these cities is already on. Boards of Realtors are even now discussing how to retrieve the financial losses which must follow the exodus from congested down-town dis-tricts. Water street, Chicago, once called the world's busiest street, picked itself up bodily and moved to the country beyond the city limits, to get away from congested conditions. As the big mail order houses have established branches from city to city, they have invariably built them in the country; opened un retail departments they have had the advantage of offering customers free parking space, and plenty of it, as long as they want to use it.

"Centralization of industry-which the manufacturer seems to have been no more able to resist than can a moth keep away from a bright light—has in effect made our industrial establishments pay an ever mounting premium in overhead taxes, inadequate facili-ties, and in other burdens inherent with location at congested centers." This is the statement of a prominent city engineer.

What have been the "bright lights" which have attracted the industrial "moths"? Available power, and means

By Walter Burr Kansas State Agricultural College

of transportation. Very rarely have markets beyond encouraged such a lomanufacturing plants sought locations cation. Paper mills continued there near the place of production of raw long after the wood for the pulp was materials, it being under former conditions more economical to haul the bulk raw materials to the points where power was available and from which mills the finished product could be readily transported to the world markets. This is the reason for the statement, "A lode-stone of industry always has been, and probably always will be, the presence of power.'

Wherever there is available power and ready means of transportation to world markets, we may expect manufacturing plants to locate. Wherever these plants locate, there will be aggre-Wherever gations of population, to engage in the manufacturing enterprises. Wherever there are aggregations of population employed at good wages, there are good

markets for agricultural products.

Mills and factories located in New England originally because of the presence of water-falls, which in the old days offered the practicable and ready

exhausted, and the raw materials were shipped in from a distance. When steam power became available, the mills remained, supplementing the water power furnised by the small rushing stream with the steam engine. The working population had been as-sembled, lines of transportation had been established, and it appeared as if the old order would remain. Today science and invention have brought sources of power and means of transportation right to the doors of the average home community.

The raw materials are near at hand, land can be secured very cheaply as compared to the high prices in the con-gested centers, and labor problems are not so annoying out where there is more room.

In an article in "Factory," the magazine of management, W. S. Murray, of Murray & Flood, Engineers, New York City, predicts a scattering of industries available means of power. Also, near-over the rural areas of America in the ness to the sea coast and with world near future. He believes this will take over the rural areas of America in the

place thru the extension of super-power electric transmission lines. Wherever there is such a line, connected with power centers, there is available infinitely more power in each local community than was ever dreamed of by our early industrialist who located his content of the little New England street. factory on a little New England stream

where he could operate a water wheel
Mr. Murray says, "Super-power re
moves the bogey of power uncertainty

With the in the isolated location. With the preence of power lines spread out into present rural communities, the undensable hold of the industrial centers will weaken. Factories and mills which thru economic pressure have already been driven to the outskirts of the city will scatter and will relocate to secun still greater economic advantages in expansion and in operation. Almost within sight is the presence of power thruout the eastern half of the United States. It also is present on the Pacific Coast and in the Northwest. It be hooves every manufacturer to further the movement, and by transplanting his factory, when the time is ripe, to capitalize the utmost on his foresight"

Transportation facilities become the other factor in the location of industries. If the power can be secured almost anywhere, then to locate factories in rural communities will require that means of transportation become generally available.

In the field of world transportation, Hugh J. Hughes, of the Great Lakes St. Lawrence Tidewater Association, has recently called attention to the fact that conditions up the St. Lawrence River offer possibilities to the midwestern home communities. a 25-mile stretch of that river would bring ocean-going vessels to the Middle West. While this would have a bearing on the shipping of farm produce across the Atlantic, in my estimation it will have a much greater bearing on encouraging industries to scatter throut the Middle West. Water shipping is much cheaper than shipping by rall, and such a project completed would give continuous water transportation from the mid-western factory directly to foreign ports across the Atlantic, for the shipping of manufactured articles.

Secretary Hoover has recently said, "The construction of a shipway from the Great Lakes to the sea is imperative both for the relief and the future development of a vast area in the interior of the continent." A report of the St. Lawrence Commission of the United States declares, "The values in a single year to the farmers alone would equal the capital cost of the waterway."

Prohibition's Growing Chances

IN A STRIKING statistical account of prohibition experiments in all countries in the April World's Work, the point is made that "the first 10 years are the hardest." Everywhere the history is that when prohibition laws, including local option, were repealed it was, with but two or three exceptions in some states, in the early years of the trial, and in the great preponderance of cases in the first three years.

Prohibition is by the nature of the case upsetting. It goes against long established traditions, customs and personal habits. Like a child, it fares well if it can get by the period of infantile diseases. If it gets as far as

10 years old, it sticks.

The World's Work article is historical and statistical and not argumentative or polemical. Hard or distilled liquor, it appears from this account, arrived on this planet as late as the Thirteenth Century of the Christian era, and is therefore a development of some six centuries, in fact an infantile period in human history. But while the World's Work story does not refer to it, and was no doubt prepared before the fact came to light, the most recent oriental excavations proved that beer was brewed in Babylon 70 centuries ago.

In this country the first prohibition statute was enacted by the worthy Governor Oglethorpe of Georgia colony in 1737. It merely abolished hard liquor, and it is of interest to learn that Governor Oglethorpe had the modern wet idea. He reasoned that if the people of Georgia only had plenty of good beer and ale they could be won from rum. "Cheap beer," his slogan was, "is the only means to keep rum out." So he had oceans of beer and ale imported and sold cheap. "It was all of no avail," says the World's Work writer. "In six years the rum drinkers overwhelmed the doughty Governor, and the law was repealed."

This proved to be typical. The same thing followed wherever the "light

This proved to be typical. The same thing followed wherever the "light wines and beer" theory was accepted to drive out hard liquor. England in 1930, during a worldwide temperance period, tried the cheap beer formula to get rid of distilled spirits. Sydney Smith, who at first favored the plan, later wrote: "The new beer bill has begun its operations and the plan, later wrote: "The new beer bill has begun its operations and everybody is drunk; those who are not singing are sprawling. The sovereign people are in a beastly state." In fact the World's Work reports that "the beer bill died of colic in its first year." Other instances are cited tending to show that drunkenness cannot be beaten by flooding a state or country with what the wets term "light wines and beer." Thus Massachusetts adopted full prohibition in 1854. It did not set well, and in 1868 Massachusetts gave it up. But in 1871 it was tried over again, yielding this time to the wet plea and legalizing light wines and beer. An investithis time to the wet plea and legalizing light wines and beer. An investigation later brought out that of 2,584 licensed places all but 17 were found to be selling hard liquor. The chief of police of Boston testified: "Beer shops where nothing stronger is kept and sold are as scarce as men without sin." So in Quebec a prohibition law was passed in 1918, but with a wine and beer amendment before it went into effect. Wine and beer places dealt in hard liquor, and the law died within three years.

Despite failures elsewhere the World's Work mentions that "Kansas

and Maine stuck to their guns. In Kansas, beginning in 1907, the people ernor did the same in 1913. Certainly laws do not die easily after 10 years."

National prohibition is nearly 10 years old and even the Volstead Act will be 10 years old soon, since there is no chance of its repeal by the present Congress and it has been on the books for eight years. There are 22 states with laws more than 10 years old, and by January of 1930 there will be 32. In five years, remarks the World's Work article, with no changes the prohibition laws of 41 states will have passed their 10th

While this is not conclusive of anything, yet there is undoubtedly a strong point in the effect of time, when the question refers to changing long-time customs and habits. The World's Work article gives a table of the Congressional situation. The four states with no enforcement state law, New York, Maryland, Montana and Nevada, have 43 out of a total of 129 wet votes in Congress. And states with prohibition laws less than 10 years old have 123 of the total 129 wet Congressmen.

When Dreams Come True

Another project which when completed will have a direct bearing on the town and country people of the Middle West also has the endorsement of Secretary Hoover. It is the construction of a door or the form the struction of a deep waterway from the Lakes to the Gulf, providing a freight route from Chicago to New Orleans Sometime both of these will be come Sometime both of these will be completed, and the vision of those dreamers who see ocean-going barges traversing agricultural America will become a

An observer and student of the situation would scarcely dare bring into this transportation picture of the Middle West the airplane for freight purposes, if he did not have the opinion of an expert and recognized pioneer in the field.

A sub-head of a recent article in the A sub-head of a recent article in the St. Louis Globe Democrat states that A. B. Lambert "a St. Louis pioneer in ballooning and aviation, backer of Lindbergh, hero of many thrilling adventures in the air and a useful officer in the World War, has designed an airplane truck, and is going to have the Wright factory make it for him the Wright factory make it for him soon."

In a personal letter to the writer Mr. Lambert says: "My contention is that mail precedes express, and express pre-cedes freight, whather the confcedes freight, whether or not the community is located on a water front or a railroad. For air mail, air express and

(Continued on Page 35)

Sore throat's easiest victimsreducing women!

Neglecting a cold or sore throat is dangerous business for anyone—doubly dangerous for reducing women weakened by strenuous exercises and "canary bird" diets.

For both colds and sore throats often lead to serious complications if not treated immediately.

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him

Look upon throat irritation as a warning, and at the first sign of it gargle repeatedly with Listerine, the safe antiseptic, used full strength.

If rapid improvement is not apparent, consult your physician.

Time and time again, however, Listerine has checked colds and sore throats

before they had a chance to become serious.

Certainly, this pleasant precaution is worth taking during winter and early spring weather when grippe, "flu," and pneumonia are a constant threat. Lambert Pharmacal Co., St. Louis, Mo., U. S. A.



LISTERINE -the safe antiseptic

Kansas

The Farm Outlook Has Improved

Agricultural Products Are Selling on Higher Levels While Industrial Prices Have Declined Somewhat in Recent Months

HE farmer is the world's most inclusive shopper. He is, in turn, a tiller of the soil, a stockman, a builder, a manufacturer, the head of a family. Over a year's time, he must enter the market for farm machinery to till his land and harvest his erops, seeds to plant, fertilizer, feed for his livestock, fences for his fields, lumber and paints for buildings, perhaps a new automobile or truck, a gas engine, a cream separator or other farm equipment, certainly tires, oil and gasoline, besides necessities, comforts and even occasional luxuries for his home and family.

Changes in the costs of any or all of these supplies are affected by such a multitude of conditions that one can only state in a general way in which markets the farmer can expect to get more for his money and where it will not stretch as far in 1928 as last year.

The downward trend of wholesale prices which started late in 1925 was halted last spring. They advanced from June to October, 1927, and since then have held slightly below the high point of the rise. The index number of wholesale prices of basic commodi-ties compiled by the United States Department of Labor was 96.4 in February, 1928, compared with 95.9 a year ago and 93.7 in May, the low point last year. Compared with a year ago, farm products were 10 per cent higher and hides and leather products were 24 per cent higher, while foods, textile products and house furnishing goods and metals and metal products were 1 to 3 per cent higher. Fuel and lighting materials, owing to large declines in bituminous coal, coke and petroleum products, were 15 per cent cheaper than in February, 1027. Small decreases were reported for chemicals and drugs and miscellaneous commodities.

Steel Markets Are Lower

The index number for wholesale prices of agricultural implements in February, 1928, was 98.8, compared with 99.4 a year earlier. Prices for iron and steel are now 3 per cent lower than a year ago, but this is not sufficient to make much adjustment in the final cost of the finished product, especially since factory wages have not been reduced. The more extensive use of the combine may bring about some small decrease in prices as a result of increased output. Sales of farm machinery, tractors, harvester-threshers and so forth in 1927 were larger than in the previous year. The shrinkage sustained during the early months because of what appeared to be a poor crop outlook was more than offset by the increased sales during the last five months of the year after fears of crop failures had been dissipated.

A reduction of a cent a pound in the wholesale price of sisal fiber may result in some adjustment in the cost of binder twine. Manila hemp is 15 per cent cheaper than at this time in 1927, but Manila rope at wholesale is quoted only 2 per cent lower.

The fertilizer market has recovered from the depression of last summer, when prices declined sharply to the lowest level in several years, as a result of the falling off in southern demand. Wholesale prices of mixed fer-tilizers have advanced steadily, but in February, 1928, they were still 3.5 lower than a year previous. Sales of fertilizer, particularly in the South, are larger than a year ago, and there is little likelihood that prices will decline during the spring as they did in 1927. On the other hand, if consumption of fertilizers continues to increase, the cost to farmers may be higher than a year ago. Fertilizer tags sold in the cotton growing states for the seven months from August 1, 1927, to February 28, 1928, covered 1,668,152 tons, an increase of 28.5 per cent over the corresponding period of the preceding cot-

ton year. Some field seeds are from 20 to 30 per cent cheaper than a year ago, due to the large crops harvested in 1927. Red clover and Alsike clover seeds are \$7.50 and \$10 a 100 pounds lower in the Chicago wholesale market, and timBy Gilbert Gusler

othy seed is \$1.45 for 100 pounds or per cent lower than a year ago and 40 30 per cent less. Alfalfa seed is selling on practically the same basis as a probable that prices will continue on year ago. Seed grains, such as corn, wheat, oats and barley, are priced production of crude oil was on a shout the same as a year ago. about the same as a year ago.

Manufactured feeds will cost more at least in the first half of 1928 than in 1927. Bran is selling at the highest price since 1920, and nearly 50 per cent higher than a year ago. Linseed meal is quoted higher than at any time since April, 1926. Prices will continue strong until the new crop season is a little further advanced, when crop prospects will be a prominent factor in determining prices. Hay is selling in terminal markets fully 20 per cent cheaper than a year ago. Stocks on cheaper than a year ago. Stocks on farms are still large, and with the close amproach of the pasture season there is little likelihood of prices showing any

Makers of staple hardware items have announced that the wholesale price schedule for the coming season will be practically the same as during the last year. Sales so far this year have been larger than in the corresponding period last season. A price war among the prepared roofing manufacturers is being waged and further price cutting may be seen until these interests bury the hatchet.

Motor Cars on Bed Rock?

Automobile prices appear to be on bed rock, and further reductions during 1928 seem remote. The competi-tion between manufacturers thru the last few years and the lowering of production costs which resulted in substantial reductions in the retail price of all makes culminated late in 1927 and early in 1928 with the introduction of the new Ford car. Production of passenger automobiles last year was the smallest since 1922, and 22.8 per cent less than in 1926. The output of trucks was 7.1 per cent less than in 1926, and also was smaller than in Production is now on a larger however, and the 1928 output probably will exceed recent years.

Severe competition within the industry as well as sharp reductions in the price of crude rubber have resulted in vanced, and in February, 1928, they substantial declines in the prices of automobile tires. In February, 1928, previous. Woolen goods may average wholesale prices of tires were 13 higher in 1928 as a result of the strong

Production of crude oil was on a large scale last year, and wholesale prices of petroleum products in February, 1928, were 33 per cent lower than a year ago. Gasoline and kero-sene prices are somewhat lower, but the market has steadied and the decline is believed to be over. The output in 1928 will be kept down to a smaller volume, and prices may average a little higher than in 1927.

Building materials, almost without exception, are lawer than a year ago. The index number of wholesale prices in February, 1928, was 91, compared with 96.2 a year ago. Lumber in February, 1928, averaged 7 per cent less than a year previous, and brick 4 per cent less, while cement was unchanged. Paint materials averaged 9 per cent lower. Retail prices have not reflected the whole of these reductions at whole sale, and some further decline in prices farmers pay may come in 1928; espe cially on sales of large quantities.

With industrial employment continu-ing at a lower level during 1927, there is likely to be a plentiful supply of farm labor during 1928, according to the United States Department of Agriculture. Average farm wages since than in the corresponding period of the preceding year, and in January, 1928, they averaged lower than at any time since January, 1926. With better prices of farm products prevailing in the South, it is quite likely that the demand for hired labor in that section will be greater than in 1927, and farm wages may be advanced slightly,

Plenty of Farm Labor

Clothing costs are not likely to be any cheaper this year than last, altho the same amount of money may buy better style and workmanship in readymade garments. Cotton prices reached the lowest point in five years during the first half of 1927, following a large crop. Since last June, however, cotton goods prices at wholesale have ad-

market for raw wool and slight advances in mill prices for goods. Silk and rayon were on the downgrade in 1927, and in February, 1928, averaged 7 per cent lower at wholesale than a year before. Production of rayon is increasing rapidly from year to year, and in 1927 was 22 per cent larger than the year previous and nearly 50 per

cent larger than two years ago.

With prices paid for hides and sking averaging 56 per cent higher than a year ago and leather 30 per cent higher, the increase of 10 per cent in the factory price of boots and shoet does not seem extreme. Retail price likewise show some gain, and it is unlikely that prices will be reduced during the year.

ing the year.
Altho two-thirds of the farm family's food is supplied from the farm itself, more than \$200 a year is spent on the average for such staples as coffee, sugar and flour. The index numbers of wholesale prices of foods advanced from 95.9 in February, 1927,

to 98.7 in February, 1928.

Retail prices of staple articles of food: dropped about 3 per cent during the year. In the meat line, all cuts of beef are the highest in several years. Pork, on the other hand, is cheaper than since 1924, due to the large supply of domestic product and reduced export demand. Retail prices of sugar average more than 5 per cent lower than a year ago, coffee. 3 per cent lower and tea is just about the Retail prices of flour have declined, and are about 5 per cent lower than a year ago.

Remote But Happy

A thousand miles from nowhere lies the gale swept rock of Tristan da Cunha in the bleak vastness of the South Atlantic. A treeless rock, a rock on which the sun shines only a few days each year, an island so dreary that to see it is to carry forever a memory of dismal wretchedness. Yet there live contentedly on Tristan da Cunha between 100 and 200 civilized men and women. They were all born there; not more than one or two of them have ever departed from the island. If one does go away it is difficult to come back, for ships call at Tristan da Cunha very seldom. Less than one a year is the average.

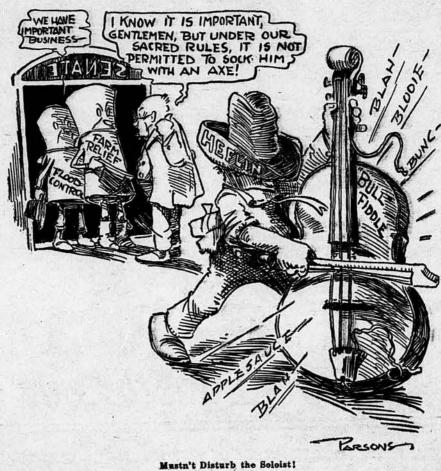
A physician, Reed O. Brigham of Toledo, Ohio, is one of the few Americans who have landed on Tristan. Recently returned, he tells of a population which has neither clergymen nor physicians, which has no government, subsists on a limited and unbalanced diet, endures a climate of the utmost rigor, and which is happy, home-loving and moral. Perhaps even more strange is the fact that the people are healthy and many of them attain extreme age.

St. Helena, the nearest land to Tris tan da Cunha, is distant 1,320 miles, but when Napoleon was a prisoner at St. Helena the British deemed it advisable to station a garrison on the des olate rock. After Napoleon's death the garrison was withdrawn, but four Scotsmen and the wife of one of thell elected to remain. Later two or three women were brought to become wives of the unattached Caledonians. later two Americans and two Italians

were wrecked on Tristan.

When Doctor Brigham visited Tristan his ship was the first that had Not one of the Tristaners had the slightest desire to depart. Knowing no other land, having neither postoffice nor telegraph, reading and re-reading their scanty stock of English books, being born and marrying and dying without benefit of colorest or and the state of the state of the scanty stock of English books, being born and marrying and dying without benefit of God clergy or physician, worshiping God very simply and living upright lives, these remotest of all civilization's for gotten children are among the happiest men and women on earth. Their Eden men and women on earth. Their Eden is a chill Inferno, a rain-drenched, fogshrouded desolation, but they are ut-terly contented. And in this there is a lesson for more lesson. lesson for moralists to elaborate.

The trouble with a platform promise seems to be that it has no due date.



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What the Folks Are Saying

excessive wet weather last fall numerous farmers lost their stands of alfalfa. Glen Campbell of Fort Scott says that in the last winter his barn has contained no alfalfa for the first time in 18 years. He also says that as a result the milk production from his cows declined greatly. He is making plans for seeding alfalfa again. Mr. Campbell says that a successful dairy-man must have alfalfa. It seems to me that many more farmers should try growing at least 5 to 10 acres of this legume. Less corn and more alfalfa will produce larger profits. Fort Scott, Kan. T. F.

T. F. Yost. Tax Revision in Kansas

Agriculture is the largest sufferer from the inelastic form of taxation that still rules in Kansas, it coming down unchanged from a period when it was better adapted to economic conditions. When land was the chief and substantially the whole form of wealth and property, the general property tax worked reasonably well. When other forms of property, less tangible, total a value exceeding that of the land, taxa-tion needs to be revised in conformity

to altered conditions.

This has been evident to the farm organizations of Kansas for some time, and two years ago the Kansas Farm Bureau Federation outlined a scheme of taxation on a broader basis than the general property tax. Last fall all the farm organizations, including the State Board of Agriculture, indorsed this taxation platform. It now has the support of Kansas agriculture as well as of the economists of the agricultural college who were primarily interested in formulating it in principle. Farmers have the power to name candidates for the legislature this summer who will dominate the legislature on the question of tax revision, and farm organizations cannot do a better job than to urge them to make a point of nominating candidates in sympathy with a better system of state taxation. In a statement from the agricultural professors five "new forms of taxation" are recommended as calculated to yield annual revenue of 10 million dollars, and to that extent relieve the general property tax. The suggested taxes are a personal income tax, gross production tax on mineral products of the state, a tax on tobacco and on theater admissions, non-alcoholic beverages, confec-tions, candy, perfumes, cosmetics and chewing gum.

The Kansas farm organizations probably have been wise in limiting the proposed income tax to personal incomes, leaving corporations out. a plan avoids complicated calculations and a question as to actual ownership and has the merit of simplicity. It is the one outstanding feature of the proposed five new forms of taxes that is based on ability to pay, and it is a tax

not susceptible to being shifted. Topeka, Kan.

Price Trends Require Study

The net loss of the farm population of the United States last year was only 193,000 persons, which gave a population on farms January 1, 1928, of 27. 699,000. This includes negroes; the white population on the farms of the United States is less than 231/2 millions. The Bureau of Agricultural Economics of the United States Department of Agriculture, which is responsible for those figures, found that fewer persons left the farms last year than in 1926, and also that the number which returned from the

much greater.
All of which indicates that the position of agriculture with respect to the lure of industrial life has become more attractive, judging from the average reaction of the folks. Evidently they have decided in a good many cases that the city is "not what it is cracked up to be." I notice that the Kansas Farmer crop correspondents report that there is an ample supply of farm labor this spring, and that practically all farms are rented. Apparently the position of agriculture with respect to the alleged advantages of the city is almost normal, with something like a balance in the movement. In the pre-war era there was a larger movement from the farms

production is going to be shoved more into the limelight than it has been re-That is one of the essential cently. That is one of the essential props of an agricultural system, along with profitable marketing. And it is true no matter what changes are made in the economic structure. Probably the McNary-Haugen bill will become a Probably law sooner or later, but this will still leave the relative situation with respect to competition betwen farmers in the same ratio that it is now—the efficient producers will make the larger

Fortunately some splendid progress has been made in Kansas in increasing the efficiency of production, especially in the last few years. For example, the state now has about 50,000 tractors and 13,000 combines. Power farming has been a big asset on many places in reducing costs and increasing yields. A much further development is possible along this line, and in fact likely will be obtained, for the way has been blazed better than along the other road, which is that of a better balanced pro-

The cycles which have been a curse of livestock production indicate a lack of knowledge on the part of the great majority of producers in regard to obtaining and operating on the infor-mation which will enable the producers to beat them. It is a matter of common talk among conservative stockmen that prices are altogether too high for stockers and feeders, and that there is grief ahead for many cattlemen—just as there was in 1920 and 1921. Perhaps they are right. Certainly it would seem that declines are inevitable at least next year in the cattle market.

On the other hand, it appears as if the hog market will improve by then. Reports from over Kansas indicate much dissatisfaction with present hog prices, and in the past this has always been followed by an extraordinary dis-position to "quit hogs." It would seem to follow that the way to beat the cycle is to slide out from under the hog business as well as possible this year, but to go in strong for breeding sows to farrow next spring.

Changes such as these in the probable future markets indicate plainly the need for plenty of study along this line, as well as efficiency in production.

Hiawatha, Kan.

The Sheep Man

Sheep are not in any sense a "get will be advisable to secure seed from rich quick" proposition. Under present fields at least 10 years old, or from conditions they will, if handled properly, return a profit commensurate known. The Kansas Crop Improvement

T WOULD be well if some of the corn ground in southeastern Kansas were planted to alfalfa. Due to excessive wet weather last fall num-production is going to be shoved more with the care and attention given them. Obviously, then, if the success or fall-to furnish lists of growers having such ure of a sheep proposition is going to be shoved more hinge on any one factor, that factor should be to the cities than from the cities to the with the care and attention given them. Association, Manhattan, usually is able to furnish lists of growers having such seed. Seed from foreign countries can now would be the man who is handling them.

To get the greatest return from a flock it is necessary to have a knowledge of sheep, and this can be had only from experience with them. Books, bulletins and other printed matter will give the owner many ideas as a basis on which to work, but in no wise can they replace practical experience.

The beginner should not be led by tales of exorbitant profits to stock up beyond his abilities. It is much better to start with a small number and gradually grow into the sheep busines is likely that at first he will make many mistakes. He will be better off if his mistakes affect only a few sheep rather than a larger flock.

Men who are more familiar with other classes of livestock than they are with sheep think sheep are very peculiar animals requiring peculiar methods of handling. Their peculiarities are in the majority of cases traceable to their habits and nature, which can be learned only thru experience with them. When these are known the handling, eare and management become simple. Regard-less of the class of livestock handled, greatest success comes to those who know more than their livestock know, and sheep are no exception in this respect.

Dr. C. W. McCampbell.

Manhattan, Kan.

Local Seed is Best

One of the factors that has been responsible for many alfalfa failures in Kansas during the last few years has been the use of seed that is not adapted to the climatic conditions in our state. Previous to the last few years Kansas produced a considerable quantity of seed, and was able to supply the needs of farmers with a good local product. More recently the amount of seed production has been relatively small, and it has been necessary to use supplies from the outside. Seed has been im-ported from other states and countries to meet the demands. Altho most of this seed was found to be well adapted, other lots proved to be very unsatisfactory. In securing alfalfa seed, therefore, the point of first importance is to secure seed known to be adapted to Kansas conditions. Kansas-grown seed should have the preference.

Some Kansas seed is produced in fields that were seeded with imported ed. In order to avoid such seed it will be advisable to secure seed from

be identified by the fact that it is required by law to be stained at the port of entry. Thus, seed from Canada is stained approximately 1 per cent violet Seed from other countries which may be adapted to certain portions of the United States, but not to others, is stained approximately 1 per cent green Seed from South Africa and other countries, which produce seed known to be unadapted for the United States, or seed of unknown origin, is stained 10 per cent red. Canadian seed undoubt. edly will give good results in Kansaa but the supply is so limited that non is likely to find its way into commen cial channels in Kansas. None of the seed imported from other countries can be recommended.

In buying alfalfa seed, considerable attention should be given to purity and viability, as well as to origin. A large percentage of brown seed indicates low viability. Good seed has a yellowish green color, and a certain luster or brightness characteristic of all kinds of seed of good germination. Seed containing weed seeds should be avoided or at least should be examined by a seed analyst for noxious weeds.

A considerable proportion of most lots of alfalfa consists of "hard" seed, that is, seeds whose outer coats are so impervious to water that they will not germinate under ordinary conditions. These hard seeds have in general little value unless scarified. A germination test shows the per cent of such hard seeds. The State Seed Laboratory of the Agricultural Experiment Station, Manhattan, makes germination and purity tests free of charge for all residents of the state, and those farmers contemplating the purchase of alfalfa seed will do well to avail themselves of S. C. Salmon. this service.

Manhattan, Kan.

Class Work and Profits

The Vocational Agriculture class of the Oakley Consolidated High School has made money handling pullets. Last fall; the boys in the freshman vocational agriculture class pooled their resources and bought 48 Rhode Island Red pullets from Mrs. W. Bull. The pullets were hatched in March, 1927, by Mrs. Bull from eggs purchased from Mrs. Will Kurtz of Oakley. The pullets were well grown and had begun to lay by September. They were free from worms. The boys each brought \$5 from home, and the entire flock was pur-chased. The boys were out to make money and not to experiment. used their culling knowledge and banded each hen for trapnesting. The best hen laid 83 eggs in 126 days. The big thing was that all of the hens laid some of the time. Only one hen was sick. Poultry books were studied to try to locate what was wrong, and the entire flock was handled to see if any more birds were going to get ill, but none did. Then No. 7 was killed and examined. No worms, T. B. or anything out of the way was located until the gizzard was cut open. Signs of poisoning were found.

Each boy received back his original \$5 and \$1.68 more, or 34 cents more than he paid for each hen. While this is not a large amount of money, the boys learned that boys learned that a good warm open front hen house could be made out of an old outdoor toilet that had been an eye sore on the school grounds for more than 30 years, and that spring pullets will lay in the winter if well grown, housed properly and fed a balanced ration. Local feeds were used, and these included yellow corn, wheat, milk, calbage leaves and mash. Each boy took his turn for a week seat that the boy took his turn for a week caring for the birds, keeping records, buying feed and selling the eggs.

One boy let the oyster shell box go empty. You can imagine how the other members of the class "told it to him" when the soft-shelled eggs began to come and production fell. Another time the water became low, and the boys learned at their expense that hens must have water to lay eggs.
V. S. Crippell.

Oakley, Kan.

George Washington was one of America's first engineers. Some of the lines he surveyed still stand.



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Europe Is "Coming Back"

Apparently the Folks There Have Decided to Settle Down and Go to Work

BY JULIUS KLEIN

interested directly or indirectly in the business recovery of Europe. Regardless of the lugubrious lamentations of a few more or less professional "viewerswith-alarm" and doleful "propheteers" as to the trade outlook, whose vocation, incidentally, seems to be quite profitable these days, it is becoming more and more evident that Europe will be an increasingly potent factor in our coming business prospects, whatever they may be, not only as our best exertence but also then her competitive customer, but also thru her competitive stimulation of our efforts. Her re-covery is by no means solely a trans-Atlantic problem; as we look to our recent gains in the Far East and Latin America, we are faced with the fact that Europe is pacing us in many of these vast and newly awakening markets.

Europe has long taken about half of our exports, and she supplies us with about a third of what we buy abroad. From all angles she is our most intimate foreign trade connection.

Americans realize that fact, regard less of the more conspicuous periodic publicity on trade prospects in other parts of the world. During the last fiscal year 812,000 inquiries were received by the Department of Commerce on European trade matters, as against 576,000 on Latin America and 288,000 on the Far East. Altho some of our best European markets took goods from us at a somewhat less value last year, the decreases were due largely to de-clines in prices rather than in volume. Our sales to the United Kingdom, France and Italy were about 13.8 per cent below the beautiful that the percentage which that trade represented in the total imports of the three was quite satisfactory. In fact, we supplied 17.2 per cent of England's total imports in 1927, as compared with 18.4 per cent in 1913. In Italian imports our share was 19.6 per cent in 1927, as compared with 14.4 per cent in 1913, while in France we enjoyed 13 per cent of the import trade last year, as against 10.6 per cent in 1913—on the whole a gratifying indication of our ability to hold our own and even make some gains as against other competitors in these three lucrative fields.

More Trade With Germany

Particularly impressive was the increase of 32 per cent, or more than 117 million dollars in our exports to Germany in 1927 over those in 1926, Taking a group of the smaller European markets, our sales to nine countries were 483 million dollars in 1927, which represented an increase of 15 per cent over 1926. Quite clearly American trade is figuring more and more conspicu-

Not only that, but our markets are meaning more to Europe, despite the mournful protestations of some propagandists who have insisted that our commercial policies and economic aggression have been the ruination of the export trade of the Old World. In 1913 we took 5.6 per cent of the total ex-ports of the United Kingdom; last year we raised that to 6.8 per cent. In 1913 we provided the market for 6.1 per cent of the total exports of France; in 1927 this was raised to 6.6 per cent. In the case of Germany, we bought in 1913 more than 7.1 per cent of her total sales abroad; in 1927 our portion was 7.6 per cent. In the case of some of the smaller countries the rise was even more spectacular during the same period; in Belgium, for instance, the increase was from 2.9 per cent to more than 11 per cent of her total export trade which was absorbed in the United States. There is no doubt whatever that the most powerful bonds in international commerce are those that traverse the North Atlantic in both direc-

One of the outstanding features in the "new" Europe is that its business world no longer thinks in terms of calamity. It has ceased to pity itself. Its balance sheet for the last year and for the opening months of 1928 shows largely in black ink, and where the red of the post-war depression still survives is steadily but surely fading.

VERY industry and commercial With the dependence of European na-enterprise in the United States is tions upon the trade with one another, they have long realized the imperative necessity of obliterating or at least materially reducing those trade barriers which were originally set up along their frontiers as defenses, against the floods of post-war inflated currencies and as shelters to the new-born nations and industries. These currencies have now reached the levels of sobriety in nearly every case; they are 96 per cent stable today, as against 57 per cent in 1922. Furthermore, the fervid heat of nation-alistic emotionalism has subsided, and in its place we have had the calm and dispassionate deliberations of the Economic Conferences at Geneva and Stockholm last summer, of which we are now beginning to see the first definite results.

As a sequal to the Geneva Conference, there has just been drawn up a convention of 35 nations, which was signed January 30 by the American representative and has already been been This endorsed by 26 other nations.

document undertakes to abolish within six months after its effective date the majority of arbitrary and discrimina-tory trade restrictions, especially those involving the so-called quota systems, which have handicapped the normal flow of trade on the continent since the war. A further conference is to be held in May at Geneva to carry forward the program of this convention and to clarify various statistical practices, cus-toms, classifications, and nomenclatures, which are hindering trade. These are very material contributions toward further clarification of the general international trade outlook, which means so much to these nations, with their dependence on foreign markets for so large a proportion—anywhere from 50 to 85 per cent—of their total commercial activity

Financial and currency problems, as already indicated, have been notably clarified in recent months. In Germany, for example, the total savings early this year were more than 4,600 million marks, which represented an increase over the figure for January, 1927, of nearly 50 per cent.

Nor should we assume, as is all too frequently the case in international

trade discussions, that the matter is simply one of a traffic in merchandise value. In several cases, as for instance in the trade between the United States and France, by far the largest transactions are those involving invisible items against approximately 13 billion dol-which are not shown in the usual ex- lars held by private American invest-

port and import figures. Another outstanding illustration of this type is the notable gain in the value of so-called middlemen's services performed by the merchants of the United Kingdom for the trade of other nations. of the contributions which has been responsible for Britain's net favorable balance in her international payment, the credit margin which was estimated for 1927 at nearly 470 million dollars, whereas the balance was unfavorable in 1926 to the extent of nearly 35 million dollars.

American tourists' expenditures, to mention another such invisible item, have come to play a notable part in the general economic recovery of Europe, Their total in 1927 probably was not far from ½ billion dollars, according to preliminary estimates, more than half of which was spent in France.

Heavy Investments Abroad

European capital is still a potent factor in the exploitation of raw materials and other resources, both of the col-onies and of the many economically new lands in Latin America and the Far East. The increasingly heavy purchases of raw material by the United States in those areas provides very substantial contributions, indirectly, to the credit of European owners. British investors have today nearly 20 billion dollars of holdings in foreign lands, as



needs have stimulated the buying This means power of many countries in the New farmers and World and the Orient, which have thus sales abroad. provided increasing markets for Eu
The increas

standing one in her industrial and commercial situation.

The Old World is attempting to Amer-

canize itself thru a program of what it crease in feedstuffs is due largely to calls "rationalization," meaning broadly the recent increase in livestock in Euthe organization of industry for the rope, and the increase in cottonseed oil maximum of efficiency, of waste elimiprobably is due to the large crop of nation and of mass production. In Gercotton in 1926. many, particularly, this movement is evident in every manufacturing area. Their industrials are devouring literature on American factory methods and technique, and they have sent many commercial and industrial delegations to the United States to study our

methods.

An impetus to this "rationalization" An impetus to this "rationalization" has been given by the international cartels or marketing "pools" in about a dozen commodities, including steel, chemicals, rayon, electric bulbs, glass, rails and dyestuffs, in most of which Germany has taken the lead. They usually involve the allocation of trade usually involve the allocation of trade territories, sales quotas, and the estab-lishment of uniform prices, but, some-times, also restriction of production, and, occasionally, the interchange of technical information and personnel, and even of patent rights. Ostensibly, their chief aim is to eliminate distributive wastes and excessive competition and to stabilize prices. As a matter of fact, they are, of course, still subject to all of the usual faults of monoplies-a tendency to protect inefficient factories, and an inclination toward exploitation, either of consumers on the one hand or of labor on the other.

Eating More White Bread

The not organized primarily as of-fensive weapons against the United States, it is obvious that the success of these combinations will encourage them toward more aggressive competition with corresponding industries in this country. For the time being, their chief purpose is to eliminate abnormalities in European business and bring about more orderly trade conditions on the continent. They are a part of the general trend toward greater cohesion among Old World interests, both economic and political, and reflect the increasing belief that collaboration is indispensable if Europe is to be saved. The cartels have undoubtedly contribworld's trade, in certain respects, thereby assisting the marketing of similar American products. Their further competitive development and possible an-lagonism to our business practices,

One of the most impressive evidences of the recovery of old Europe is the fact that, speaking, of course, in broad general terms, she is now producing nearly enough staple food for her population. Furthermore, her rising standards of living and improved buying power are stimulating a gratifying demand for such American food specialties as canned and dried fruit, grape fruit and apples.

The grain lands of Eastern and Central Europe, with the notable exception of Russia, are almost back to normal. Russia, which has been a mainstay of Western Europe for breadstuffs, now some 20 per cent as much grain as she did in 1913—2 million metric tons in 1927, as compared with 10 million metric tons in 1913, according to official Soviet figures—a situation which is working to the advantage of the American farmers.

More than one country of the continent, notably Poland, is advancing at a rapid rate in the livestock industry, this increased European production and partly because of the increased prices

ors. Furthermore, these purchases of what. The older continent, however, is raw materials for American industrial eating more white bread than formerly. needs have stimulated the buying This means an opportunity for our power of many countries in the New farmers and millers to increase their

provided increasing markets for European as well as American manufacturers and specialties.

Industrially, there are some unfavorable spots in Europe, such as the unemployment situation, which is, of course, international in scope at this season; but there are hopeful signs, particularly in Great Britain, of a "peace-in-industry" movement. Strikes per cent, as compared with six or seven have certainly decreased in almost every important industry and manufacturing center, while industrial productions, having risen from an annual total of about 13 million dollars in the period from 1921 to 1923 to 36 million dollars in 1927. The average sale of dried fruit during the last three years also has shown an increase of some 50 million dollars in the period from 1921 to 1923 to 36 million dollars in th The increase in our transatlantic sales ery important industry and manufac-turing center, while industrial produc-tion has risen. Germany has just avoided a formidable 1 bor clash in the metals trades, tho the problem of wages and working conditions is still the out-increases during 1927 in this group of commodities over preceding years have been in citrus fruits, feedstuffs for livestock and cottonseed oil. The in-

A Gain in Motor Car Sales

Europe's comeback during the last year is indicated also by the increased number of motor cars bought—not only the increase of importations from the United States but also the purchase of motor cars of European manufacture. Particularly noteworthy is this in England, in view of the fact that recently a land, in view of the fact that recently a heavy increase has been made in the duty on imported cars. The ratio of motor vehicles to population as of January 1, 1928, was as follows: United Kingdom 1 to 37; Germany 1 to 148; Italy 1 to 254; France 1 to 40, and Sweden 1 to 55; as compared with the present ratio in the United States of 1 to 5. It is evident, therefore, that there is still abundant opportunity for the expansion of our trade in these the expansion of our trade in these countries, and our automotive execu-tives are by no means neglecting these prospects.

Our automotive exports have been hindered in several important Eu-ropean markets by unfavorable tariff rates and certain contingent and other discriminatory regulations. But even so, during 1927 our total increase of exports abroad—chiefly to Europe, where domestic automobile manufactur ing in seven countries makes the market the most highly competitive in the world—was 34 per cent over the total of 1926. The value of all automotive products exported from the United States to Europe during 1927 reached the impressive figure of 112 million dollars as compared with about 25 mildollars, as compared with about 25 mil-

lion dollars in 1922.

This truly astonishing increase presents perhaps the most emphatic available evidence of the remarkable economic recovery of Europe during the last seven years. It is significant, furthermore, because of the widespread interest of our country as a whole in the automotive industry, whose pros-perity in this increasingly important export field rebounds to the benefit of all of the United States.

As a further reaction to these signs of stirring industrial activity and an increase in the buying power of the populations of Europe, our trade is feeling the stimulus in other lines. American machinery factories, for example, sold 38 million dollars' worth of their pro-ducts to Europe in 1927. This means that it also sold vastly increased quantities of all sorts of equipment and those specialties in which we excel, to the new lands across the Pacific and below the Equator.

These lands are reacting to improved European demands for raw materials and are now, therefore, in a position to strengthen their general economic development. Mining machinery, farm equipment and road building apparatus (to mention just a few) are needed in opening up new countries, just as they were needed to open up our own. know how to furnish these.

Every stage of European recovery thus involved immediately or ultimate ly the advancement of some phase of American business. We have already observed the profound repercussions upon our trade of the stimulation of European living standards, and as the particularly in the line of pork and Old World continues to advance, we pork products. Partly as a result of may anticipate further developments of this sort, which will be of peculiar interest to us whenever the uncertainties in our own market at home, which of domestic conditions make necessary tempt our producers, our exports of as they always do, the further exploitament to Europe have fallen off sometion of overseas outlets.

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A Brighter Outlook for Hog Producers?

Perhaps Next Fall Will Be a Good Time to Breed Sows for Spring Farrow and Thus. Be Ready for the Higher Prices

By R. M. Green

THE spring and early summer of 1928 very likely may mark the end of the general downturn in hog prices that began after June, 1926. June, 1928, will be two years from the last high price period. Two fairly small corn crops in succession, taking the United States as a whole, and advancing corn prices in the spring of 1928 will tend to check further expansion in production. As an average since Civil War times, hog prices have been up for about 36 months and then down for about 31 months. The length of the periods varies widely, but usually approximates two to three years.

Number of hogs on farms January 1, 1926, had declined to about 52 million head. This reduced supply and a good export demand for pork in the spring of 1926 contributed to the high prices of hogs up to June, 1926. The spring pig crop of 1926, to be marketed in the fall of 1926, was about the same as the year before. It was reported as 99 per cent of the 1925 spring pig crop. The fall pig crop of 1926, however, showed an increase in pigs saved of 3 per cent. The number of hogs on farms January 1, 1927, had risen to about 541/2 million head, compared with 52 million head a year earlier.

Up to 59 Million Head

Following the increased production in the latter part of 1926, there was an increase of 3½ per cent in the spring pig crop of 1927, as compared with the spring pig crop a year earlier. The fall pig crop of 1927 was increased about 11 per cent from the year before. This increase in production in 1927, and the holding back of hogs in the western edge of the Corn Belt because corn was cheap and hog prices low contributed to a supply of hogs on farms January 1, 1928, of nearly 59 million head, compared with 54 million head a year earlier and 52 million head two years

Not only did hog production in the United States increase, but production in European countries also expanded rapidly. I cause of this increased production abroad, there was less foreign demand for the pork and pork products of the United States during 1927. The promise is for still less foreign demand

Top prices at Kansas City broke from a seasonal high point of \$11.90 during the secon1 10 days of September to \$8.45, which was the highest price during the second 10 days of December.

In such years as the present, hog prices have shown some tendency to advance during the last third of December about nine years out of 10. Last December top price at Kansas City did advance to \$8.55 the last part of the month and during the first third of January reached \$8.85. Instead of prices continuing to improve thru January and the first part of February as they normally do, they declined. Since the first of January top hog price at Kansas City has been as low as \$8 several times.

Paid Up to \$13.85

The period from the last of December to the first part of February has on the average shown moderate strength. In the spring of 1926 Kansas City top hog prices advanced during this period from \$12.25 to \$13.85 a hundred before any important break came. A year ago, in the spring of 1927, the advance was from \$12 the last third of December to \$12.35 a hundred during the first third of February. During the same period in 1928 the Kansas City top price declined from \$8.55 to as low as \$8 a hundred pounds.

How much of a breathing spell there will be between declining winter receipts and rising spring receipts depends on how early the fall pig crop begins to move to market.

Increasing corn prices and low hog prices favor an early beginning of spring marketing in the eastern part of the Corn Belt. The smallest increase in the fall pig crop took place in this section. Compared with a year ago, therefore, the early spring market is

not so likely to be loaded down with cattle pen, corn field or some other receipts as the main marketing period place has begun, just as the migration in May and June. More abundant corn from farm to town began a few years supplies in the western edge of the ago, only perhaps in a little different Corn Belt, any temporary improve-ment in hog prices, and a slowing up in corn price advances will likely encourage feeding in this section until about the usual time. The principal increase in movement of the fall pig crop over a year ago is likely, therefore, to come in late spring and early summer.

Corn is not cheap enough and hog prices are too weak to encourage holding back of supplies to midsummer as was done in 1926 following the large corn crop of 1925. On the other hand, there has been a large increase in hog supplies outside the Corn Belt in recent years, especially in southern territory. The earlier movement of these supplies to market will be a factor in keeping early spring markets supplied. It appears that any seasonal price improvement in 1928 between now and next winter is not likely to be maintained over long periods. What happens next fall and winter will depend largely on the size of the 1928 spring pig crop.

An in and out program in hog production seldom pays. Even the man who marches straight ahead without making a change in his business and "takes his medicine" as it comes usually wins out over the first fellow. The best program is one that when lower prices are looming cuts operating expenses, but maintains enough business to contribute to overhead expenses; one that pays debts out of good prices and makes any new debts later on; one that culls, cuts out, and gets rid of hogs that are only good enough to be kept when hogs are high. There usually is enough money in hogs so that the chief danger is in rushing into an enlarged scale of production that taxes every resource right after a period of profitable prices. Profitable prices make the business easy for everybody. What is easy for everybody is not liketo be profitable for anybody.

But Management is Needed

There seems to be every reason for believing that the period is approaching when it will pay the careful producer to get ready to take the place of the fellow who produced more hogs because of the high price in 1926 rather than because of the low cost at which the soil run down like the spring of a he can produce them. Unquestionably watch. Nations will face the future the migration from the hog lot to the with anxiety and will sharpen the tools

way.

This migration of producers, almost like that of the birds, makes market history. In July, 1902, Chicago average price of hogs was \$7.65 a hundred. Twenty-two months later in May, 1904, the price was \$4.65. Thirty-three months later in February, 1907, the price was back to \$7.05. By February, 1908, or just 12 months later, the price was \$4.45. In 25 months, or by March, 1910, the price was \$10.55. Twenty three months later in February, 1912, the price was again down to \$6.20, but in 17 months, or by July, 1913, the price was back up to \$9.05. And so the market has been since 1920. Price was down 26 months from \$21.85 in May, 1920, to \$7.61 in September, 1921. During the eight months, September, 1921, to May, 1922, price rose to \$10.48. In 13 months, or by June, 1923, it was down to \$6.92. By June, 1926, or 36 months later the price was up to a \$14.05 average. Since June, 1926, the general trend of hog prices has been downward.

How the Chemist Helps

BY J. G. LIPMAN

Food and shelter are the primary nishes the world with millions of tons heeds of all men. Game, fish and wild of sulfate of ammonia, of nitrates, of herbs may supply the wants of savage tribes. Flocks and herds may provide Above the fjords of Norway the land for the shepherd wandering over the plain. But when the human population is no longer sparse and scattered, when permanent houses have been built and the land turned by the plow, the need grows strong for thought of tomorrow. It may be that the land will lose its strength. It may be that the grain and the forage will lose something of their virtue. It may be that insects, disease and parasites will come to plague and trouble the farmer.

And, on the other hand, there will be more mouths to feed. Towns and cities will arise. Roads will bring them to-gether. Great numbers of people and vast quantities of merchandise will be moved over the sea, over the land, and thru the air. Nations will exchange goods and ideas and the world will grow small. The old ways and the old methods will fail somehow to replenish

of science for dealing with new and complex problems. Among such tools those of the chemist will bring strength and hope to a world seeking a road to

The time has already come for pro-claiming our debt to the chemist. Our children read in their school books of rocks and soils, of air and water, of plants and animals as made up of simple chemical elements. In the great crucible of creation these elements are blended and compounded into an endless variety of substances. The chemist tears them apart and puts them together. He examines the soil and finds what may be lacking in it. He examines plants and animals and tells us how their tissues are made. He acquaints us with the raw materials out of which plants and animals are built. And knowing these raw materials he discovers for us deposits of phosphate rock, of potash salts and of nitrates, of sulfur and of lime. He knows that coal contains nitrogen, an element without which plants and animals cannot exist. He teaches us, therefore, how to make ammonia out of coal and peat and how to use it for growing bigger and better

Thanks to the chemist there has come into being a fertilizer industry of imposing magnitude. Acres of chinneys cover the banks of the Rhine, like the giant trunks of a stone forest. They tell us of a new industry which, starting with such common things as brown coal, air, water and land plaster, furnishes the world with millions of tons Above the fjords of Norway the land rises to majestic, snow-capped moun-Their sides are rugged and steep and deeply furrowed by the grinding, tearing force of moving ice and water. Torrents rush down their sides with the power of a million horses, power once idle that the chemist has put to work. And as the water tumbles and seethes on its way to the sea it is made to turn great turbines, to generate electric power, and to blend air and lime into nitrate of lime. But all of this is but a part of a bigger job. The force of moving water, be it in the Alps, the Vosges, the Carpathians or elsewhere, has been tamed and harnessed in order that it might do the chemist's bidding in the making of nitrogen fertilizers and of a hundred other products. A million tons of nitrogen taken out of the air in one year for the manufacture of salts of ammonia, of nitrates, evanamid, urea, cyanides and of other nitrogen fertilizers bear witness to the chemist's miracle-working power.

In our own country more than 7 million tons of chemical fertilizers are distributed to supplement the plantfood resources of our soils. The barren plains of Chile, the coal pits of the Middle West, the air above the Rhine Valley and over Niagara Falls, the cotton fields of the South, the stockyards of Chicago, Omaha and Kansas City are all made to contribute nitrogen for growing our nation's food. But nitrogen is only one of the raw materials used in the fertilizer industry. Brimtone descriptions stone deposits from Texas, Louisiana, Sicily and Japan, and pyrites from Spain and other countries supply the sulfur which is converted into some millions of tons of sulfuric acid which is used to treat millions of tons of phosphate rock from Florida, Tennessee, the Rocky Mountains, Morocco, Tunis and other regions. Ancient seas and lakes, dried out and buried, furnish the potash brought from Germany, France and California. All of these are the raw materials of a chemical industry still in its infancy.

Better Soil Will Bring Higher Yields

Solls problems are getting more attention these days in Southeastern Kansas, Substantial progress is being made in the application of lime and fertilizers and in increasing the acreage of the legumes. Excellent work is being done along this line by the county agents, and the soil fields which have been operated by the Kansas State Agricultural College have been helpful in bringing their lessons home to the people. Average yields in that section probably are at the bottom now—they likely will increase slowly

All of which is a very encouraging tendency in the progress of Kansas agriculture. There is no reason why the folks in that section should not make much better records in crop yields. It is true that most of the soils in Southeastern Kansas which were formed from the decomposition of sandstone and shale are rather limited in fertility, but it is equally true that skillful management will increase the yields. Practically all of them are deficient in humus and in rather poor physical condition. Anything which will add decaying vegetable matter to the soil will help so far as the humus content is concerned. Applications of ground limestone likely will pay on thousands of acres which are not, as yet, sour, merely by improving the physical condition. Obviously the first thing to do with any run-down" field is to "get 'er full of humus and in good physical condition." If legumes are used considerably in this part of the campaign it is likely that the supply of available nitrates will be increased greatly.

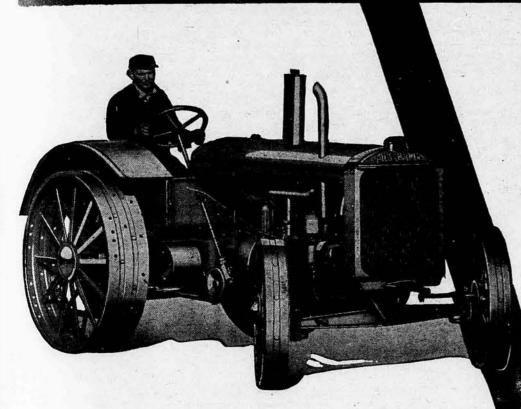
But beyond this, it appears to the Kansas Farmer as if a huge increase in the applications of commercial fertilizer will pay well. This appears to have been the experience of most of the folks who have tried them. We suggest, especially, that the folks who have rather thin soils would do well to start some tests. They cost very little, and even if the results are negative the owner will at least gain the satisfaction of really knowing that he is not overlooking a good bet. If they pay out he will have discovered an easy way of increasing his supply of the great American

On Infectious Abortion

Infectious Abortion of Cattle, Circullar No. 135, has just been issued by the state; a copy may be obtained free on application to the Kansas Agricultural Experiment Station, Manhattan.

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An Efficient Fanning Mill Is an Essential Bit of **Equipment on Modern Kansas Farms**

BY A. L. STONE

S SEED quality vital in the cropping system? For the American farmer the answer to this question depends upon several factors. The natural fertility of the soil, the care taken to maintain it by use of barnyard manure and green manure crops, rotation of crops, the use of commercial ferti-lizers and lime, soil drainage, careful preparation of the soil for crops, measures to prevent insect and disease attacks, freedom of the land from weeds

and the use of plump, clean, viable seed, all help to provide the answer.

Each one im important, but is not the last mentioned factor one of the most important of them all? It may be argued that if the other conditions have not been provided, the good seed cannot grow and bring forth fruit for

the world's teeming population.
On the other hand, all the labor and care taken to provide the most favorable conditions may be lost unless pure seed of high vitality is used. It must be pure or free from other kinds of seeds, if best results are to be secured. If the seed sown contains the seeds of other crop plants, the mixture which is sure to result cannot be sold on the market for as high a price as pure seed market for as high a price as pure seed of its kind. If it contains weed seeds, the crop plants are at once provided with a competition so keen that it cannot be successfully met, and the fertility, moisture, and careful preparation of the seedbed go largely to nourish the enemies of the crop. A maximum yield of grain or forage and a mum yield of grain or forage and a competing crop of weed plants cannot be produced on the field at the same

"Like Begets Like"

Approximately 3.2 per cent of the 30,627,000 bushels of spring wheat used for the production of the crop in this country passes thru the hands of dealers in seeds. In addition 1.7 per cent of the 50,690,000 bushels of winter wheat; 5.3 per cent of the 103,646,000 bushels of seed oats; 4.1 per cent of the 16,478,000 bushels of seed barley; 8.8 per cent of the 7,608,000 bushels of seed rye and 23 per cent of the 1,011,-000 bushels of seed buckwheat are handled commercially.

But the great proportion of this grain is prepared and used for seed on the farms where grown. This means that the farmers themselves are largely responsible for the character of the crops produced to feed a hungry world,

There are comparatively few farmers so located as to take advantage of cleaning machinery other than the farm fanning mill or grader. Many farmers have no fanning mill of any kind, either depending on a paighbour kind, either depending on a neighbor for one or putting the seed in the ground with no cleaning except that given by the threshing machine, which usually is inefficient and unsatisfactory. When only 10 million bushels of the 210 million bushels of grain used for seed in 1927 on the farms of America were cleaned for seed by almost primitive methods or not at all, is it strange that yields are lower than they should be?

The seed problem has been an important one to farmers of all generations. Early in the history of agriculture the men who lived on the fruits of the soil learned that "like begets like," and that no matter how gracious was Mother Earth, she could not produce "figs from thistles," or the finest fruits from poor seed. After generations of experience, it would seem the lesson should be sufficiently well learned so that we would cease to insult Mother Nature by asking good returns from an investment in poor seed. She gives in greatest abundance only when the best of her produce is returned to her for increase. "As a man soweth, so shall he also reap," applies as well to agri-culture as to spiritual affairs.

Fanning Mills Are Needed

In the last 10 years there has been an awakening, and greater attention than ever before is being paid to the quality of seeds which are sown on the farms of this country. The gospel of good seed has been preached and demonstrated incessantly by agricul-

tural colleges and experiment stations. Other organizations have aided, and the campaign has been reinforced and pushed to our very frontiers by the agricultural press.

In the old days it was impossible to muster this mighty army or to so quickly make its force felt. But today, with all the types of publications by which to push the campaign for better agriculture, it would be indeed strange if no effects of it were to be seen.

The results of all this have been the directing of men's energies to the invention of efficient seed-cleaning machinery, the accumulation of a large fund of information concerning the care and preservation of seeds and the establishment of seed inspection lab- also are fitted with sieves oratories in practically all civilized seed corn so it will drop countries of the world and even in some number of kernels to a hill. countries which we are wont to con-

son to the return on the investment, Many experiments have shown that the yield of grain an acre can be increased from 1 to 6 bushels thru the removal of the lighter and arrived are seen or need to secure new supplies from some other section of the country, an altogether too common custom. There are fanning mills and graders or need to secure new supplies from some other section of the country, an altogether too common custom. ing machinery costs little in compariremoval of the lighter and smaller seeds by use of a fanning mill. Such a mill may be purchased for from \$75 to \$80. If by its use wheat can be made to yield 4 bushels more an acre the increase on 40 acres will amount blast to remove all but the heaviest to 160 bushels. At \$1.25 a bushel this increase will amount to \$200 on the one field.

But not only will the mill take out the lighter and smaller grain seeds, it also will remove practically all of the weed seeds in the grain and prevent the growth of a weed crop to rob the grain of plant food and moisture and cost much time, labor, money and worry to destroy. The newer machines also are fitted with sieves to grade seed corn so it will drop a uniform

A good fanning mill will often more sider as not wholly civilized. than pay for itself in a single year, if The best type of a mill for average through the invention and use of the used only to clean the coarser seeds. farm conditions is one in which sieves improved threshing machine and fan- With the necessary equipment of sieves and air blast are combined. The sieves

A very few mills depend on sieves alone, altho with sieves of the right sizes and shapes of meshes fairly sat-isfactory work in cleaning can be done. Some mills depend entirely on the hir seeds from any lot. The process will remove all chaff, light seeds, and light dirt, but will not separate seeds of different sizes but of the same proportionate weight.

Tis Effective Seed Cleaning

For example, in a mixture of barley and clover seed, the clover seeds are as heavy for their size as the barley kernels and air blasts lift them at the same rate. It is impossible, therefore, to separate them by means of the air blast alone, even where the blast is under almost absolute control.



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In twenty-eight years' specialization in tire manufacture and selling direct to regular service-giving tire dealers only, Firestone has built up the world's greatest exclusive tire organization. With direct control of raw material supplies middlemen's profits are eliminated. Great economies are effected in the world's largest and best equipped tire fabric mills and mammoth tire and tube plants, equipped throughout with special Firestone-designed, cost-saving

Firestone pioneered the Balloon Tire and made it practical by Gum-Dipping. Firestone has also taken the lead in developing dependable secondary lines— Oldfield, Courier, and Airway—giving these tires advantages in design, construction and quality which can be found nowhere else at such extremely low prices.



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OLDFIELD -built according to Firestone long mileage principles.

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AMERICANS SHOULD PRODUCE THEIR OWN RUBBER .

mill

Kan

prov ent

which

provide for separating seeds of different sizes, and the air blast takes out all light seeds, chaff and other foreign material. With one of these mills which is up-to-date in type and construction, almost unbelievable things in the way of seed cleaning can be ac-complished if the operator thoroly un-derstands its use. It is well to try out the mill and determine what sieve combinations are necessary to clean each particular kind of seed in one's

own locality.
All in all, the fanning mill is an indispensable asset to every American farmer, and the crop production of the United States will never be what it should until its intelligent use is prac-

tically universal. Many farmers have hesitated to purchase a fanning mill for use on their own individual farms. Why not combine with three or four neighbors in the purchase of a reliable, high-grade mill with a full equipment of sieves to be used by each in turn? There is the whole winter in which to get the cleaning done, giving each man plenty of time to use the mill if the use of it is properly planned and provided for in advance. The transportation of such a mill over rough, frozen roads will do more to shake it to pieces than any other treatment to which it is subjected. If necessary to transport it over rough roads, some provision should be made to prevent the jarring from affeeting the mill. This may be done by means of springs on the bolsters under the wagon box or by filling the box part full of hay or straw and tying the mill in place with ropes.

Equipment is Essential

By combining in this way each of four or more farmers will be able to make use of a well-equipped mill at a nominal cost and bring about a de-cided improvement in the crops of each. Should the grain be sold on the market, the removal of the light grains, weed seeds, chaff and dirt results in the sale of the grain at a better price than can be obtained for uncleaned grain. The farmer who delivers uncleaned grain to an elevator is docked in price because of the impurities in He might better keep the shrunken light grain and the weed seeds at home and grind them, thus reducing his bill for concentrated feeds for his livestock. Of course there are some weed seeds, like those of the mustard, which are bitter or acrid in flavor and make the feed unpalatable, or, like the bulblets of the wild onion, impart an onion flavor to milk and other dairy prod-Some, like those of the darnel and corn cockle, are actually poisonbut many weed seeds have much leeding value and might better be separated from the grain and ground for

If the grain is to be used for seed, the fanning mill will separate from it all the plump heavyweight kernels with a surplus of stored food to give the young plant a splendid start, resulting in a more nearly uniform and plentical crop. The better start in life the young plant is given, the more its chance of escaping the effects of summer drouth or rust attacks. Thus the use of a good fanning mill may result in a greatly increased and better quality crop for reasons which at first thought might not be apparent.

The rise in farm values thruout the less developed portions of this country in the last 10 years has been phenominal. The states in the Mississippi Valley and westward have been settled and the lands improved until they are famed as one of the garden spots of the world. While this rise in value has increased the wealth of the farm owners, it has also made it necessary for them to adopt other than the oldtime farming methods in order to make a fair interest on their investments.

Unless properly treated, seeds have a tendency to lose their producing capacity. Loss in production means a consequent decrease in the farm in-Smaller incomes result in curtailment of social and educational advantages and eventually of the farm equipment, which in turn results in lessened efficiency and still greater loss. The remedy for these conditions lies in modern methods of farming.

Colonel Lindbergh has very calmly flown over and above the advice that he abandon flying, so the chances are to do not do not



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What Price Efficiency Now?

'Tis the Margin Between Prices and Production Costs That Determines a Farmer's Profits

duced into Great Britain's textile industry early in the Nineteenth Century, bands of workmen, fearful for their handicraft jobs, roamed Lancashire and Yorkshire smashing looms and burning factories. Historians noted that the instigator of the storing was a half-wit This man Ned it mean that farmous who today guest. rioting was a half-wit. This man, Ned Lud, broke stocking-frames, and set a fashion that produced Luddite riots for many years. Tho Lud was a half-wit, he raised a question that many wise men have found hard to answer. By acts, if not by words, Lud inquired, "What good is technical progress to the producer, if it takes the bread out of his mouth?" Men who are by no means half-wits are still asking the

Just what is the relationship of the increasing efficiency on Kansas farms to the profits of the owners? Here is, indeed, an the owners? Here is, indeed, an important question, and one that has received a huge amount of attention in recent years from the producers. In this article, which appeared originally in Better Crops, Mr. Chew points out that it is the margin between the price received and the production cost that determines the profit of the grower. We have had some excellent demonstrations of that with wheat in recent years in the tractor and combine country of Southwestern Kansas. This article well deserves the careful study of everyone who has the future of American agriculture at heart.

same question with reference to agriculture, as well as to manufacturing industries.

Efficiency in both fields and fac-tories has been increased enormously in the last decade, with benefits apin the last decade, with benefits apparently much greater to the consumer than to the producer. This is true even of certain powerful industrial corporations, whose managers report a falling rate of profit on a constantly growing volume of business. The relationship between efficiency and profits has begun to perplex industry seriously, particularly in certain branches of it in which unemployment prevails. Technical progress works out today just as it did in the days of Ned Lud. Sumner H. Slichter, writing in the Sumner H. Slichter, writing in the New Republic, notes that in 1927 our factories, with 5 per cent fewer employes than the annual average of the

problem of unemployment created by technical progress." • As Mr. Slichter's language implies,

As Mr. Slichter's language implies, that is not really a new problem at all. Half-witted Ned Lud defined it, and had his idea as to what should be done. That he was wrong in the idea without saying, for countries of put some men out of a job. In prosperous times this tendency is offset by an increasing demand for agricultural and industrial commodities; but mechanized production and technical efficiency are today the most prosperous. In the long run technical progress,



HEN machinery was first intro- instead of diminishing employment, in-

This does not imply, however, that the resentment felt by the Luddite rioters against newly introduced machinery had no justification. Nor does it mean that farmers who today question the value of increased efficiency to themselves are talking thru their hats. If increased efficiency does not, in the long run, diminish the number of workers required, it nevertheless necessitates a great many painful changes in occupation. It forces men to make continual readjustments in their relation to the processes of production. That is why in every period when the readjustments are more than when the readjustments are more than usually drastic, somebody inquires what is the good of it all, as was done at a recent convention of agricultural economists at which one speaker asserted that, "the outlook for agricultural pro-duction is so good that the outlook for agricultural prosperity is distinctly

When responsible economists talk in that strain, it is time to look into the question of what efficiency does to agriculture. Heretofore the benefits of agriculture. Heretofore the benefits of efficiency have been taken for granted. But it is always dangerous to take things for granted, even when they seem obvious. Efficiency is worth while to agriculture, but it has its price and creates certain problems.

This price may be kept within bounds, and the problems solved effectively only by a thoro grasp of what is involved. It is not, of course, the individual value of efficiency that the farmer

ual value of efficiency that the farmer questions. Every farmer knows that questions. Every farmer knows that higher than average costs of production mean lower profits, and that the sheriff is waiting for the man who slips too far down the ladder.

What bothers him is the group or collective aspect of efficiency. He wants

to know how the agricultural industry as a whole profits when its costs go down if its output goes up. In the five years 1922-26 the output of American agriculture, as the result of increased agriculture, as the result of increased efficiency, was nearly 5 per cent greater in field crops and about 15 per cent greater in animal products than in the five years 1917-21. Yet the net earnings of agriculture were very much lower in the later than in the earlier period. What price efficiency here, the farmer wants to know.

On a Declining Market

After the war our farmers reduced their land in crops and their labor force, and cut down their costs of proployes than the annual average of the years 1923-25, turned out 7 per cent more goods. Some industries achieved great increases in output with fewer workers.

"We are confronted," says Mr. Slichter, "with what appears to be a new kind of unemployment problem—the problem of unemployment created by technical progress."

As Mr. Slichter's language implies.

when increased efficiency takes place in a declining market, as has been the case with agriculture in the last few years, an acute and difficult problem

From 1920 to 1926 American agriculture suffered a net loss of 3 million people, a decline considerably in excess of the normal movement of population from the country to the town. Some of it was necessary correction of the overmanning of agriculture that took place during and after the war, under the stimulus of exceptional agricultural prices. This inevitable ebb-tide movement, however, accounts for only part of the unusual cityward flow. The rest of it is attributable to technical progress, notably in farm mechanization, as the result of which fewer men were required to satisfy the market's less-ening need of food and fibers.

Agriculture has no more difficult



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acreage and its man-power to market requirements in periods of increasing requirements in periods of increasing efficiency and increasing production. It is idle to invoke the solution that Ned Lud would have recommended, namely, the scrapping of machinery, or a slowing up in the rate of technical progress. It is precisely in times of falling markets and heightened competition that the impulse to adopt efficient methods is felt most strongly. Moreover, when the resulting over-pro-Moreover, when the resulting over-production is large no quicker remedy can be had than that provided by the painful elimination of surplus men and surplus land from the farm business. Nevertheless, the farmer is not entirely helpless. There is much he can do to prevent such situations from developing. But before touching on this aspect of the matter it is worth while to glance at a few facts about our increasing farm efficiency.

Improved and Cheapened Methods

Farming methods in the United States have been improved and cheapened since the war in a manner never hefore equaled. In Kansas the combine-harvester has halved harvesting ex-penses and solved the harvest labor problem. Cotton growers in Texas and Oklahoma have devised the sled method of gathering cotton, applied power machinery to cotton growing on big farms, and brought cotton growing on big latins, and brought cotton growing abreast of other branches of farming in up-to-dateness. Dr. O. E. Baker, of the United States Department of Agriculture, figures that individual productions in American agriculture was 15 tivity in American agriculture was 15 per cent greater in the five years 1922-26 than in the five years 1917-21. He says that in the later period about 20 per cent more milk was produced from only 4 per cent more dairy cows and heifers, and that output of meat and other animal products in relation to feed consumed increased 9 per cent. Many shifts were made toward highervielding crops or toward crops with a higher acre value. I mentioned some of these facts recently to a New York banker who said that the trouble with the American farmer is that he is lazy and inefficient.

Accelerated mechanization after the war released for other uses from 15 to 20 million acres of crop land formerly required to feed horses and mules, so that by January 1, 1925, the number of these animals on farms was 1,254,000 less than on January 1, 1920. In the same period the number of tractors on farms increased from 246,000 to 506,000. Use of stationary gas engines and electricity on farms added 2 million horsepower to our farm equipment. Another million horsepower was added by increased use of elec-tricity and windmills, and 4 million hersepower by an increase in the number of motor trucks on farms. Alto-gether, the increase in mechanical horsepower on farms in the last nine years, exclusive of that derived from the use of more automobiles, is esti-mated at 14 million. Anyone who, in view of these facts, calls American agriculture backward and inefficient is

either stupid or prejudiced.

The object of this increase in efficlency, namely reduced costs of production, was achieved, but this advantage was largely offset by the effect of increased production on prices. Although a griculture reduced both its land in crops and its manpower, its production did not diminish but rather increased. Hence the discouries between creased. Hence the disparity between agricultural and industrial prices was prolonged. Here is the source of the complaint that efficiency benefits the consumer rather than the producer and considered from a group stand-point, is a drawback rather than a benefit to the farmer.

On a World Basis

It is undoubtedly true that there is tendency for the benefits of technical progress to pass from the producer to the consumer thru the agency of increased competition and increased production. This, however, does not always take place. Generally, in fact, it does not, because agriculture is largely on a world basis, and increased effi-ciency usually is confined to a relalively small fraction of the total numher of competing producers. In the case of crops like cotton and wheat, the prices of which are determined in the world market, every degree of increased efficiency achieved by the American farmer brings him an increased specific control of the contro creased profit.

So it is plain that the cure for the

problem than that of adjusting its troubles that increased efficiency brings and its man-power to market is not to be found in a scrapping of up-to-date methods—a return, so to speak, to the hoe and sickle. That course might reduce production, and therefore raise prices; but it also would increase the costs of production, so that the net gain would be nothing. It is not prices alone, but the margin be-

tween prices and production costs, that determines the farmer's profit. Re-stricting production is useful only when the operation does not involve an blocking technical progress.

The idea that the farmer can be too efficient for his own good is a hasty

deduction from the undeniable fact determines the farmer's profit. Restricting production is useful only be shared with the consumer, somewhen the operation does not involve an excessive increase in costs; as it always does when output is restricted by cause efficiency returns a diminishing blocking technical progress. reward to the farmer as the number of efficient producers increases, that the (Continued on Page 43)



TOP STEEL POST COMPAN

38-P South Dearborn Street, Chicago, Illinois

Adventures of the Brown Family

BY JOHN FRANCIS CASE

Homeward Bound After an Adventurous Night

IN THE Mexican city of Celaya, Hal opened and he was beckoned within, Brown had found a young Ameri- where with the girl Hal and Holt found can engineer named Holt who volun- a courtly Spaniard and his senora or teered to assist him in his quest for the missing Isobel Sanchez who had run away from Spain and whom Hal believes is the real heir of the Pettibone fortune. In the plaza at night they meet a girl Hal believes is the maid customs and commands, Hal speaks to her and asks if she's Isobel.
"Now you've done it," muttered Holt,

and there was both anger and admiration in his voice. "See that young

Mexican looking at you?"

"I don't give a rap," replied Hal, and again he asked the girl who had paused and stood irresolutely, "Are you Isobel Sanchez?" for she had merely murmured a Spanish salutation.

To Hal's joy the answer came in be well with you when we reach that English, altho with a marked accent. dear America which I have always "I am, senor," replied the girl, "and I, longed to see." "You need have no fear, Miss Santon, am American. How do you know "You need have no fear, Miss Santon, and I will trust you. All shall be well with you when we reach that dear America which I have always "You need have no fear, Miss Santon, and I will trust you. All shall be well with you when we reach that dear America which I have always "You need have no fear, Miss Santon, and I will trust you. All shall be well with you when we reach that dear America which I have always "You need have no fear, Miss Santon, and I will trust you.

my name?"
"I have great news for you," an-

ou. May I walk home with you?"

Before the girl could answer, a young Mexican with a gaudy serape about his shoulders strode over and rudely again they were in the street. "Won't shouldered Hal aside, while he poured out a torrent of Spanish words in abuse. Hal caught the words "dog" happened so far that amounted to any-and "swine," and with the instinct of thing. This is a tame country." But an American how to use his first draw. an American boy to use his fists drew back for a blow when Holt caught his shoulder in a firm grip.

"For heaven's sake, Brown," hissed Holt, "don't start anything here. I like a fight, but we are outnumbered a hundred to one. Adios, senorita," and Holt pulled Hal away, while the Mexican youth resumed his place with the other watchful gallants, all of whom were casting black looks in the direction of the hated "Americanos."

"I don't give a whoop," insisted Hal stubbornly, as he kept an eye on the girl who had said she was Isobel Sanchez. "I'm going to talk to that girl before she gets away from me where I may never see her again. If you don't stick with me I'll go it alone.

"Keep your shirt on," advised Holt. "I'm not one to leave a fellow American in the lurch—but I know these people. It would simply be suicide to keep on here, but I'm game enough to take a chance and follow her home. Here, I'll bribe a beggar to slip her a hote that you can write. If she can speak English she should be able to read it, and if anyone else gets the message they won't know what it is. message they won't know what it is. She's probably romantic enough to welcome a visit from a handsome young American. And if she's Spanish or Mexican she won't care especially if you do get carved up visiting her. Tell her you'll follow and signal her after she gets home."

The note was written in a secluded corner of the plaza, and Hal watched with mounting excitement as the beg-gar, hand outstretched in appeal, paused before the girl he had accosted. Watching her intently, altho from a distance. Hel caught a nod in his didistance. Hal caught a nod in his direction. "O. K." Hal assured Holt. Then with a chuckle. "I'd add 'MNX; but reckon you are not up on Barney Google and his Billygoat club. Hope she leaves soon."

"There may not be anything funny bent this." admonished Holt. "Keen

about this," admonished Holt. "Keep your gun handy and come on. She's leaving now. We'll slip down this side

street but keep her in view."

Stealthily the two Americans followed the retreating form of the dark girl and her companion, down dimly lighted streets, stepping over sleeping babies as they lay outside of barred doors, the family gathered about, past swarthy lovers courting their sweet-hearts thru barred windows, until finally they paused as the robed figures passed thru the door of a pretentious looking home. "Fine, so far," whispered Holt, "and now it will be up to me. I'm going to tell 'em in Spanish just what's wanted and see if they'll let us in. You stay here in the shadow.

That hombre may have followed, too."
Softly Holt called in Spanish, and
soon to Hal's joy the barred door

wife. As Hal looked at the girl now unveiled it was not difficult to see that she was indeed of American blood nor was there mistaking the fact that there was some likeness to the girl pictured in the photograph shown him by of his quest, and ignoring Mexican Mrs. Fernandez. With American frank-customs and commands, Hal speaks to ness Hal came straight to the point, while Holt translated for the benefit of the girl's kinsman. "And now," Hal concluded, "will you go home with me and prove you, not the girl who too bears your name, are the true helress?"

"I will go!" caled the girl with entities."

"I will go!" cried the girl with spirit. "It was because Isobel was cruel and abusive to me that I ran away. The good God has sent you to me, Senor Brown, and I will trust you. All shall

chez," assured Holt gravely. "Altho I have known Hal Brown but a few swered Hal eagerly, "if you will meet hours I know he is a young man you me somewhere so that I can talk to can safely trust. And now we will bid you adios and call for you tomorrow."

It all seemed too good to be true, and Hal heaved a sigh of relief as happened so far that amounted to anything. This is a tame country." But Hal's self-congratulation was cut short. Corner-stone. It couldn't croak.

(TO BE CONTINUED)

Local Cop—"Because his father is mayor, his brother is chief of police, and I'm engaged to his sister."

Out from the shadow of a building came the young Mexican gallant who had attacked him in the plaza. With him was a companion. A rush and were upon the two Americans, knives flashing, curses befouling the night air.

"No guns!" yelled Holt, "use your fists." Ignoring the threatening knife, Hal met his opponent with a fierce smash to the jaw which stretched him flat. Holt had seized and disarmed his opponent as Hal's man came at him again and again, to be met finally with a crashing blow which this time left him senseless. "We'll get out of here as fast as the Lord will let us," said Holt. "It's no disgrace to fight and run away. These hombres won't and run away. These hombres won't bother any more tonight. And tomor-row you'll be on your way."

There was no further attack, and on the morrow Hal Brown found himself accompanying a shy, sweet young wo-man as unlike Jack Miller's ward as day from night, while Engineer Holt, the American who had befriended Hal, stood by with watchfully open eyes as they awaited the train. "Hey!" said Holt suddenly as he heard his name

again set the Mexicans to muttering about "loco Americanos." "All well," said the message. "Have

captured man who makes trouble. Confessed." Hal's father's name was signed to the message.

(TO BE CONTINUED)

We Must Have Safety

The remarkable transformation in the highway system of this country during the last quarter-century is a matter of pride and an epoch in his. It has cost hundreds of millions tory. It has cost hundreds of millions of dollars—probably nobody knows just how much—and is worth it.

The remarkable thing about its financing is that it was not one supreme effort. The highway resources are cumulative, and with the tendency to increase gasoline taxation and with the continued increase in the use of this taxed commodity, the users of the roads are putting up more and more money annually for road construction and maintenance.

There is evidence, however, that this transportation system needs a new trend in its development. The killing of 26,618 persons in traffic accidents in the last year proves that more thought must be given to safety than to expan-The highspeed automobile and sion. the highspeed highway are absolute essentials, but a necessity that involves the killing of more than 26,000 persons and the maiming of three-quarters of a Holt suddenly as he heard his hame and the maining of three-quarters of a called, "Here's a message for you, Brown, in my care. Forwarded from the consul at Tampico."

With trembling fingers Hal tore open the envelope. The message was from home, but had been translated into-Spanish. Slowly he spelled it out then a yell which woke the echoes again set the Mexicans to muttering and the maining of three-quarters of a million others demands study and absolute reform at the danger spots. The economic losses involved in these traffic accidents are estimated at more than 672 million dollars.

Achievements in safety might easily finance themselves in savings.

Royal Family

Auto Tourist-"I clearly had the right of way when this man ran into me, and yet you say I was to blame."
Local Cop—"You certainly was."
Autoist—"Why?"

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203 (

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up

B is a banker holding a mortgage on A's horses. The note and mortgage come due. A has a bank account in B's bank. B collects the mortgage from A's bank account without notifying A or having A's signature. Can this be done?

THERE a chattel mortgage is would have a right to take the property. The mortgagor, on the other hand, ment of the note. If the sale of this mortgage property is not sufficient to pay the note secured by the chattel mortgage, the creditor (the bank), would have the right to apply the mortgage or creditors.

A Bought a Phonograph gagor's deposit to the payment of the judgment. But the mortgagor is entitled to notice so that he may protect his interests if he is able to do so.

What the Law Says

As I understand it, the 1927 legislature passed a law compelling everyone who votes to vote a straight party ticket. Am I correct? Isn't that unconstitutional, taking away the right of the people to vote for whom they please? Surely the people's choice as to whom they vote for should come before that of the political parties. How could the people go about it to get that law repealed?

The law to which the writer refers does not apply to the general election, only to the primary election. The substance of this law, which is Chapter 203 of the Session Laws of 1927, reads

stance of this law, which is Chapter 203 of the Session Laws of 1927, reads as follows:

At the next ensuing primary election at which candidates for state offices are nominated, any person shall be entitled to participate therein who is a qualified elector in such precinct at the time of said primary election, and when the voter calls for a ticket he shall indicate the party ballot he desires, and one of the judges of the primary election board shall give him such a primary ballot (unless challenged, and if so challenged, then only in the event that the challenge is determined in favor of the voter), and such person shall thereupon be entitled to vote. The voter's selection shall constitute his declaration of party affiliations on the poll books used by the clerks of the primary election board to record his name and check his declaration of party affiliations on the poll books used by the clerks of the primary election board, and said list properly certified to by said primary election board shall be returned to the county clerk for preservation. Copies of the names and party entries en such poll books hereinafter provided, arranged alphabetically by surnames, shall be used at subsequent primaries for determining with what party the voter has been enrolled, and no voter enrolled under the provisions of this act shall be allowed to receive the ballot of any political party except that with which he is enrolled, but he may change his enrolled with prepare for each voting precinct two of the above-mentioned lists duly certified by him, and taken from the poll books of the last preceding primary election, which he shall deliver to the succeeding primary election, shall be returned to said county clerk in good condition within 24 hours after the primary election, or who for any other reason has not voted at any primary election, and he heritally affiliation subsequent primary election.

Section 2. At any subsequent primary election, or who for any other reason has not voted at any primary affiliation, which shall t

As you will see from this quotation from the law, this does not interfere with any voter's right to vote as he pleases at the general election.

As to whether or not this was a wise change in regard to the primary election, there is room for argument. But, as I said before, it does not interfere with the right of an elector at the general election to vote any party tickethe wishes to vote or to vote part of one ticket and part of another, or to make up an entirely independent ticket if he

No Offense Was Committed

A sold B some property. B did not have any money, but owned some property. He borrowed enough money on his property and the property which he bought from A to pay all but a few hundred dollars. A took a second mortgage on his place for the bal-

ance, and thru ignorance on his part, it being his first transaction, he supposed the mortgage was recorded when the revenue stamps were attached. Recently he noticed that there was no notation of record of the mortgage, and wonders if he has committed an offense by his neglect. A is not worried about collecting the balance, but wonders what he should do.

He has committed no offense. When he fails to record his mortgage he only runs this much chance: as against a sale of this property to some subsequent purchaser or as against a credwould have a right to demand that notice be given and the property sold at public sale and the proceeds applied, so far as they will go, to the payment of the note. If the sale of this ment of the note. If the sale of this ment of the note with the sale of this ment of the note. If the sale of this ment of the note will go, to the payment of the note. If the sale of this ment of the note. If the sale of this ment of the note. If the sale of this ment of the note. If the sale of this ment of the note will go, to the payment of the note. If the sale of this ment of the note is ment of the note. If the note is ment of the note is ment of the note. If the note is ment of the note is ment of the note. If the note is ment of the note is ment of the note. If the note is ment of the note is ment of the note. If the note is ment of the note is ment of the note is ment of the note. If the note is ment of the note

A Bought a Phonograph

1—A buys a phonograph, pays \$90 on it and cannot pay the balance. He tells the man from whom he got it to take it back; the man refuses, and the house and its contents, including the phonograph, burns. Can

Answers to Legal Questions

BY T. A. McNEAL

Dis a banker holding a mortgage on A's ance, and thru ignorance on his part, it be supposed the suppose

-The purchaser of this phonograph would be legally liable for the price he agreed to pay for it, unless the title to the instrument did not pass until all the payments were made and there was an agreement that in case of failure on the part of the purchaser to make the payments the seller should take possession of the instrument. If that was the kind of a contract A had and he notified B to come and take his phonograph and B refused to do so and the house burns, I am of the opinion in such a case A could not be held. But if it was merely a case where A failed to make the payments on an instru-ment he had bought, he would still be liable regardless of the fire for the amount still due.

2-The statute of limitations on a note in Kansas runs in five years from the time the note becomes due.

3-Where a lumber company or any

other corporation or individual has an account against an individual and sues on that account, it might garnishee his wages to the extent of 10 per cent of his wages in any one month if he is the head of a family. If he is a single man it might garnishee all his wages.

4-Where one rents a farm without any written contract he becomes either a tenant from year to year or a tenant at will, and is liable for the rent from the time he begins to occupy the place until such time as he leaves it. And if he was a tenant under a mere verbal arrangement for a year and leaves without cause, he might be held for the rental for the year. The signing of a note would not change the rights of either the tenant or landlord, except that the note would be evidence of the indebtedness, and instead of suing for the rent the landlord would sue on the

"I just want to forget," a young lady out in Indiana, who has just been jilted by a rich manufacturer, is quoted as saying. Well, our suggestion is that she arrange to be called as a witness in the oil inquiry.

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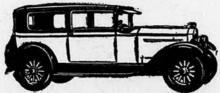
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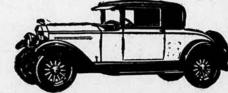
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To Lend 600 Million Dollars able than raisins when growers of the

dollars to co-operatives operating undollars to co-operatives operating under a state co-operative marketing act and a contract which gives the pools all the terminal elevators be built in the unquestioned right to pledge the larger cities, where a building site commodities of each for the obligations of all. Contrast this with the position of the Kansas Wheat Pool in 1922, its in shipping weed seed, cracked wheat first year of operation, when bankers and extraneous matter to market. first year of operation, when bankers were backward in offering to handle such accounts, largely because the system was brand new in the Wheat Belt! In making arrangements to handle wheat that year, an attempt was made to obtain a small loan from Wichita banks to meet advance payments on the first deliveries of wheat. This ar-tempt failed, even the directors of the pool offered to sign the note and even pool offered to sign the note and even tho the combined value of their prop-erty was more than a million dollars. It happened, however, that several car-loads of wheat were received and sold before any drafts for advance pay-ments were received. The pool paid the drafts as they were presented and was able to finance its operations thru the remainder of that year and sucthe remainder of that year and succeeding years. Since the first year it has dealt with state, national and federal banks, borrowing what money it needed at interest rates much lower than can be obtained by individuals and many business firms.

And They Work Together

Two generations or more ago mer-cantile and manufacturing operations were carried on by individuals, and oc-casionally by partnerships. The whole system consisted of unco-ordinated and non-co-operating units. It was a time of relatively small business. The cap-ital required was not large and could be furnished by one man or two partners. Competition, unrestricted and blind, was the order of the day. Every man tried to underbuy and undersell his competitor by fair means or foul. Trade and market information and new ideas and new methods were with-held jealously from competitors. Every effort to promote the common welfare was frustrated by jealousy, suspicion and rivalry. Those were the days of intense individualism in commerce. But note the changes that have taken place in such business in the years between then and now. First, there came a need for larger scale business, for more capital than one or two men could supply and for greater risks than one or two men could afford to assume. That brought the corporation, which is merely the agency thru which many men pool their capital and skill to carry on business beyond the resources and ability of a single individual, Next, merchants began to learn that cut-throat competition was unprofitable. Instead of fighting their competitors they began to co-operate with them. They learned they had many interests in common, and that many trade and market services could be obtained only thru co-operation. Today they are even pooling their buying power. Therefore, if competition, un-restricted and blind, did not prove successful for merchants, how can it prove successful for farmers?

Let's Save the Waste

If you owned all the wheat in Kansas would you turn it over to 160,000 farmers to market, regardless of demand, or would you organize a selling agency and merchandise that wheat as consumptive demand dictated? Who is in a better position to drive a good bargain, 160,000 farmers throwing their wheat at buyers, or one seller, representing 160,000 farmers, talking prices with buyers? If you were farming in an irrigated country, and you had barely enough water to produce your crop, would you dump 60 per cent of it on your land before the growing season was one-third over? It would be just as sensible to do that as it is for farmers to dump 60 per cent of their grain into the arteries of trade within three or four months after harvest. If you were given the job of handling all the wheat in Kansas, would you build three

AN OFFICIAL of the Federal Intermediate Credit Bank of Wichita announced recently that the 12 banks of the federal system were prepared to lend more than 600 million elevators with capacity enough to handle all the wheet that normally capacity. dle all the wheat that normally came Why not build a few elevators of large capacity out here in the heart of the Wheat Belt; elevators possessing all the machinery common to a big city terminal? Then why not clean the the machinery committee terminal? Then why not clean the wheat of weed seed and other foreign material? Why pay freight to Kansas City on cracked wheat and then pay additional freight when it is shipped back under the label of "Chicken Feed?"

A Market 12 Months Long "Orderly marketing" is a misnomer, if, by that term, one means the marketing of a unit of a commodity in a unit of time; that is, so much wheat a month regardless of prevailing prices. That would be orderly dumping rather than orderly marketing. Such is not than orderly marketing.

old story, but the method by which the one, of course, ever will be able to lay job was accomplished should not be down a hard and fast selling policy overlooked by growers of other commodities. Similar methods can be apditions. That would be manifestly im-

Modern Co-operative Associations Are Now
Able to Borrow Plenty of Money

An Official of the Federal Inter-elevators at each delivery point?

Modern Co-operative Associations Are Now Able to Borrow Plenty of Money

An Official of the Federal Inter-elevators at each delivery point?

Modern Co-operative Associations Are Now housed by 200 per cent than ever had been sold in a single year. Two policies adopted by the co-operative, one to widen markets and increase consumption, the other to divert surpluses by conversion into other products, helped it up the ladder of success. helped it up the ladder of success. After a year of exhaustive investiga-tion, Sun-Maid amber type sirup, cream of tartar and stock feed were developed as conversion outlets. A plant for their manufacture was constructed at a cost of \$700,000. This develop-ment had a two-fold significance to the trade. First, it meant that the Sun-Maid raisin market never would become overloaded and disorderly no matter what townage was produced. matter what tonnage was produced, and, second, it meant that the trade invariably would receive from the pool only good quality raisins.

How California growers disposed of the policy of successful commodity coold story, but the method by which the job was accomplished should not the policy of successful commodity cooperative marketing associations. No

possible. The wheat co-operatives are selling to buyers as consumptive demand develops, and are not trying to force that demand, because, to do so, would mean a consequent lowering of the price. In other words, the co-oper. atives are attempting to sell the prodatives are attempting to self the products they handle exactly as the things you wear and eat are sold to you. However, when a commodity is being handled for which there is a consumer that the year is the year. demand 12 months in the year, it is only good business to sell the commodity 12 months in the year.

Teamwork Is the Need

"We still have with us," says The Nation's Business, "those men who, because human nature is what it is, have square corners and just can't work with the other fellows. True, they are gradually eliminating themselves, but not fast enough. Teamwork, whether on the baseball field or in the clothespin industry, will make for greater prosperity—and for more fun—at the same time. In ignorant competition, with its half-brother superstition, business, big and little, faces a real hazard. Teamwork is the answer. Congress. Teamwork is the answer, Congressman Kelly of Pennsylvania recently described the man who refuses to play on the community team as reminding him of the little fellow in the nursery rhyme, who said:

"When I am alone, and quite alone, I play a game that is all my own; I hide myself behind myself; And then I try to find myself; I hide in the closet where no one can see And then I start looking around for me."

A compromise is just a way of delaying the ultimate outcome.

lemce. Vern Albrecht is a purebred Duroc breeder in one of the most extensive hog-raising parts of Kansas-Smith Order Purina Pig Chow from Mr. Albrecht has been a feeder of the store with Purina Pig Chow for more than two the checkerboard sign. For purebred breeder or market hog fattener-for the big hogman or the шш little hogman-it doesn't matter for which one, Purina Pig Chow will put on the gains just the same. PURINA MILLS, 829 Gratiot Street, St. Louis, Mo. Eight Busy Mills Located for Service Write us for a Purina Hog Booklet-free

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Common Sense in Training 'Em

BY DAVID M. FYFFE

A BOOK of fair-sized dimensions could be written about training as it will always run too close and will enter their trainers or by picking up ideas themselves. It will be a pleasure to a novice trainer to watch his dog after it has gotten past the rudimentary stage. It will give him lots of pointers and new ideas in regard to handling stock either on the road or in the pasture and as to how the dog can it will rarely make a good sheep dog, as it will always run too close and will cut off sheep from the main flock.

If the dog turns the sheep at the first start they will very likely run too close and will cut off sheep from the main flock.

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If the dog turns the sheep at the first start they will very likely run too close and will cut off sheep from the main flock. the pasture and as to how the dog can take care of itself when coming in contact with livestock.

The same fundamental principles apply to training all field dogs, whethapply to training all field dogs, whether they are collies, setters, pointers or retrievers. The first thing to do is to find out the nature and disposition of the young dog to be trained, whether hardy or timid, and then go ahead with the training according to that nature the training according to that nature. The trainer must have a large stock of patience when the collie is old enough to begin training, and that time

is after it has passed the puppy stage. Let the trainer take it when he goes out for a walk either thru the fields or along the road. Teach it to walk at heel, or, at any rate, close to him. By saying "Come in to heel" or "Walk at heel," it will soon learn what is wanted. Never allow it to go roaming by itself or let it get into the habit of chasing rabbits or other animals of its own accord. A dog that has been allowed to do this is never to be depended on, and the habit is difficult to break. It often happens also that at the time the dog is most required, he will be on a chase and will not pay any attention to repeated calls.

The trainer also must teach it to lie or sit down when told, and must keep it lying or sitting there till he has walked off a short distance from it. This requires much patience, but after the dog has worked some around livestock and understands what is said to it, it will soon "catch on," and will either sit or lie for the next order or watch for a movement from the trainer. Motions with the arm or walk-ing stick should be used as well as the voice in training, and by putting up the hand higher than the head and crying "Sit down" the dog will begin to watch for these motions and will soon know what is wanted without be-

Start Training With Sheep

When the trainer goes to the pasture or clearing to gather up the sheep or cattle, he should not stand at the gate or a distance away and send the dog off by itself by crying, "Sic 'em" to gather them up. Let him walk up to the livestock with the dog at his heels, turn them in the direction wanted and turn them in the direction wanted and tell the dog to force them forward, or some such expression, and show what is wanted by doing it himself. If the animals go off in the wrong direction, let him say to the dog, "Go around in front," and he may have to run himself to endeavor to head them in the right direction. This will show the dog what is required and it will begin dog what is required, and it will begin to help in turning them.

As cattle are much harder to move than sheep, I will go on with the training of a dog for sheep and will make a few comments on driving cattle later on. It is better, if possible, to train a young dog on sheep, as there is no danger of his being kicked.

When starting a dog out to turn sheep, always make it pass behind and never in front. By passing behind the trainer, the dog will be farther away from the charge and there will not be from the sheep and there will not be much danger of any of the sheep being separated or cut from the flock. If it does cut off any, make it come back and start it out again and motion it farther away from the flocks. A well-trained dog should always pass clear around on the outside of the flock and not cut off a sixele sheep. not cut off a single sheep.

That is why I say a dog, if possible, should be trained on sheep. The dog is not required to go close to start them running, and often it lets out a bark or them running. bark or two which starts the sheep. With cattle it has to go right up to them to get them to move, and if it has been to get them to move, and if it has been taught to drive cattle first,

BOOK of fair-sized dimensions it will rarely make a good sheep dog

into the way of passing behind. When turning sheep in this fashion when the dog is called on to come back it should always turn out away from the sheep. That is, if the dog has gone around on the left side of the sheep, it should turn to the left to come back, and vice

versa.

After the dog has learned to turn sheep it will look at the trainer when roadside or lane.

A dog of a strong, hardy temperament may sometimes have to be pun-

sheep find out they cannot get away. Of course, in driving sheep on the road or forcing them into close quarters, then the dog should turn to the sheep.

When a young dog is first started to turn sheep, it will likely run too fast for the good of the sheep. If it does this, let the trainer cry, "Go quietly" or "Take time," and continue doing so till it has learned the meaning of the expressions. When the sheep come to a closed gate thru which they are going to pass, the trainer should make the dog lie or sit down behind the sheep, go forward himself and open the gate and then cry to the dog to bring them on. Some shepherds go most of the time in front of the sheep and teach the dog to bring them on; others go behind the sheep and teach the dog to watch any openings on the

Collies Will Learn Rapidly

It is on the turn for any other motion or call from him, and this is where the interesting part of the training comes in. The dog will, if the sheep go off the wrong way, come around behind the wrong way, come around behind the trainer, go off and turn them again and will continue doing this till the sheep go off. But a Teacher Must Use Plenty of Patience and Common Sense in Training 'Em might be a little blue in the immediate neighborhood, but the dog was not hurt, my temper was improved and the dog and myself were faster friends

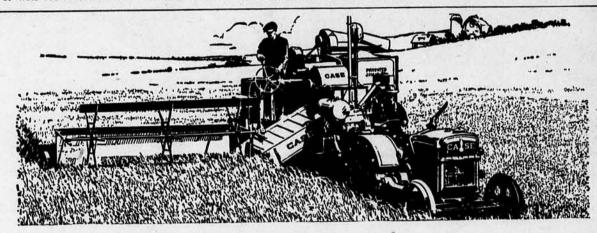
> Keeping a young dog on the chain quite a lot tends to make him a little more savage than he might otherwise be, but I cannot say much about training for a watch dog. It comes natural to most dogs in that line.

Ump-ta-ra-ra!

A well-known woman is a famous Mrs. Malaprop as regards her speech. "And what in France," asked a friend, "did you enjoy the most, Mrs.

"Well, I think," said the lady, "it was the French pheasants singing the Mayonnaise."

However, after his experience in the Mississippi Valley, it was to be expected that Mr. Hoover would have dry leanings.



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Combines Cut Wheat Costs Columbian Dan says-

Grows Steadily Every Year

the last two years by the Texas Experiment Station. Conditions there are somewhat similar to those in Southwest Kansas, the leading "combine belt" of the state. Data was obtained from 85 growers, who owned 90 combines; it evidently is conclusive for that section, and very similar to the results to be expected in Kansas.

The size of the machines ranged from 8 to 20 feet; the more common ones being from 12 to 16 feet. Two kinds are used, the tractor-drawn auxiliary engine type and the power take-off type. The auxiliary engine com-bines are those that have an engine installed on the machine to operate both the harvesting and threshing mechan-ism, the whole being drawn with a tractor. Power take-off combines are those that receive their power from the tractor which pulls the machine. There were no ground-driven types found in the section studied. Such machines have all the combine mechanism driven by power received from a large wheel in contact with the ground. The smallest number of days of harvesting by any one outfit was eight days; the largest number 36; and the average 18.5.

The almost all the combines were operated about the same number of days, those of a given size did not harvest the same number of acres. Variation in the number of acres harvested was considerably wider than the number of days. The machines which were kept going most constantly and which harvested grain under more nearly ideal conditions harvested the largest acreage. When one field was finished there were plenty of other fields waiting for the first machine that could pull into the field. A few farmers who grew a larger acreage of wheat than is normally harvested with one combine preferred to harvest all of their own grain, even tho it took longer and the there was considerable risk from weathering, because the cash expenditure was less and the profits were greater, in their opinion, than if they had hired a part of the harvesting done. ing done.

53 Acres in 12 Hours

The rate of travel for all sizes of combines did not vary more than .6 of a mile an hour. The slowest machine traveled 2.2 miles an hour, and was the largest of the auxiliary engine types. The next slowest was the smallest of the power-take-off types. The average rate of travel for all ma-chines was 2.58 miles an hour. The rate of travel was practically the same for both low and high yields. If the combines showed signs of being overloaded in heavy grain, the operator did not slow down, but reduced the width of the swath being cut.

The small 8-foot power take-off com-bine harvested 15.6 acres in 11 hours, while the 20-foot auxiliary engine type harvested 53 acres in 12 hours. On the whole, all machines were operated about the optimum number of hours during the day. The number of hours, however, probably is greater in this section than in some others, especially the more humid sections of the winter wheat region. Most operators delayed starting in the morning for a short while on account of the grain being

ASTUDY of the use of combines in somewhat damp. However, some oper-Ochiltree and Hansford counties ators were of the opinion that it would in Texas has been made during be practicable to harvest 24 hours durators were of the opinion that it would ing the day for a part of the season, as the humidity would not be high enough to affect the functioning of the

combine to any appreciable extent.

The amount of work that can be accomplished in a day depends directly on what can be done in an hour. Of course, the acreage cut an hour varies with the size and type of the machine. The acres cut an hour by the power take-off machines showed an average of 1.4 for the 8-foot machines and 2.7 for the 10-foot machines. Combines equipped with an auxiliary engine cut 2.7 acres an hour, while the 15, 16 and 20-foot machines averaged 2.8, 3.6, and 4.4 acres an hour, respectively. The difference in the rate of cutting was due to the difference in size of the machine.

The number of acres harvested a season is affected by the size and type of combine, age of machine, experience and initiative of the operator, and acreage available for harvesting. The 8-foot power take-off combine harvested an average of 268 acres for the season, while the 20-foot auxiliary engine combine harvested an average of

S53 acres. The average for all types and sizes was 586.6 acres.

The cost of operating a combine is greatly influenced by the price paid for fuel, lubricating oils and greases. Gasoline was charged at 20 cents, kerosene at 16 cents, and lubricating oils at 80 cents a gallon.

Labor the Greatest Cost

If calculating the cost of tractor power it was assumed that the average tractor would be used 700 hours during the year, and that \$21 a drawbar horsepower would be the annual fixed cost of the tractor. The charge for harvesting was determined by dividing the total fixed cost for the year by the fraction of 180 over 700. As nearly as could be calculated, the average number of hours, for each combine, of actual harvesting during the year was 180. The sizes of the tractors used were a 10 drawbar hersepower for the 8-foot, a 20 horsepower for the 20-foot, and a 15 horsepower for all other combines.

Labor is the largest item of cost in operating the average combine. The size of the crew used to operate a com-bine varied slightly with the type and size of the outfit. The small 8-foot machine of the power take-off type required only one man to operate both the tractor and the combine. The 10-foot power take-off and the 12-foot auxiliary - engine types required one man on the combine and one on the tractor. A helper was used on a small number of the 15, 16 and 20-foot ma-chines. Five dollars a day was the most common wage reported for both combine operators and tractor drivers; therefore, this amount plus \$1.35 a day for board was used in determining the cost of labor an acre.

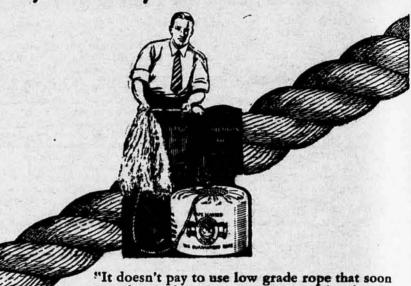
An interest charge based on half the original investment at 8 per cent is taken to represent the interest is taken to represent the interest charge for the entire life of the machine, the average of which was 8 years. The average acreage harvested annually is used in calculating the acre cost because the acreage harvested during the 1926 season was exceptionally large. In most cases, combines harvested a greater acreage than the maximum which operators believed should be harvested by one combine.

Repair charges are based on the average charges for the life of the machines. Since it was not known what the repair costs for some of the newer types of machines will be for the complete life of the combine, the average cost a sickle-bar foot of machines on which complete records are available is used. Because of improvements in construction, the newer types of machines will likely show a lower repair cost than the older ones, but none of the costs for repairs exceed 15 cents

an acre.

The average cost an acre for the six different sizes of combines used was \$1.62. It is interesting to note that the acre cost does not vary greatly for the different sizes of machines.

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you can buy. Ask for it by name. Identify it by untwisting the end and finding the red, white and blue Columbian Tape-Marker. If any rope so marked proves defective your dealer will replace it. COLUMBIAN ROPE COMPANY

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Solvay Limestone is shipped in Moline, Kansas

Solvay Sales Corporation, Laclede Gas Building, St. Louis, Mo.



Will not injure human beings, livestock, dogs, cats, poultry, yet is deadly to rats and mice every time.

Poisons are too dangerous

K-R-O does not contain arsenic, phosphorus, barium carbonate or any deadly poison. Made of powdered squill as recommended by the U.S. Dept. of Agriculture in their latest bulletin on "Rat Control."

"One of our good customers just told us he gathered 105 dead rats on his farm from using a 2-ounce package of K-R-O. We hear of many finding 30 or 40 rats after using K-R-O, which is highly successful and should please you." Wolgamot's Drug Store, Richwood, O.

75c at your druggist; large size (four times as much) \$2.00. Sent postpaid direct from us if dealer cannot supply you. **SOLD ON MONEY-BACK GUARANTES.** The K-R-O Company, Springfield, Ohio.



The average yield an acre for 1926 was 28.8 bushels. By dividing \$1.62, the average cost an acre, by 28.8, the average yield in bushels an acre, the cost a bushel is determined for the season of 1926, which was \$.056. However, the yield an acre for the average year is only 15 bushels. The cost a bushel for the average year can be approximated by dividing \$1.62, the cost an acre, by 15, which gives \$.108. Consequently, the cost a bushel varies with the yield. As the yield decreases, the cost will not likely be the same on any two farms, since it will vary from year to year as the different items of cost vary.

When wheat is harvested with a combine, the grain should be sufficiently mature to stand storage. This is necessary because immature grain has a high percentage of moisture and will heat when stored.

Small Losses in Threshing

The number of days harvesting was delayed after a binder could have been started was reported variously from two to 14, but the majority of farmers reported from four to seven days. The number of days' delay after the header could have been started ranged from two to seven days, but the majority of farmers reported only three to four days. The principal disadvantage of depending on the combine for all harvesting is the risk of loss because of hall, rain or windstorms during the four to seven days of waiting for the wheat to ripen enough to use the combine after the binder or header could have been started.

It has been estimated from previous studies made on the cost of harvesting and threshing and also from this study that the total labor for harvesting and threshing would be reduced from approximately 4.6 man hours for cutting with a binder and threshing with a stationary thresher, and 3.8 man hours for harvesting with a header and threshing with a stationary thresher, to about .75 man hours an acre where the work is done with a combine.

Harvesting and threshing losses were not studied in Texas, but they were studied in other states; so the following is quoted from the Preliminary Report of the United States Department of Agriculture on "Harvesting Grain with a Combined Harvester-Thresher in the Great Plains Region, 1926;"

"Losses of grain resulting from the different methods of harvesting were determined in Oklahoma, Kansas, Nebraska and Montana, by actual counts of the number of heads left on the ground in 259 fields cut by combines, 50 fields cut with the header, and 34 fields cut with binders. The yield an acre in fields cut with combines was determined from samples taken previous to harvesting. The losses on headed and bound fields were calculated on the basis of yields obtained from the combine fields.

And for Sorghums, Too

"Forty-one of the 190 fields of winter wheat cut with the combine had losses of less than 1 per cent, 106 less than 2 per cent, and 137 less than 3 her cent. Losses greater than 3 per rent occurred with an uneven or partify lodged crop, on rough land, with poor machines, thru careless operation, or in very windy weather. The average loss from harvesting winter wheat with combines was 2.6 per cent. Fields cut with headers showed an average loss of 3.3 per cent, while fields with binders show an average loss of 6.1 per cent. These per cent bushels an acre. The loss an acre was 32 pounds after the combine, 40 pounds after the header, and 74 pounds after the binder. Heads cut off and dropped round were the greatest source loss in combining and heading. Additional losses in heading occurred in loading the header barge and hauling to the stack. The losses in binding include the cutting loss, the loss between the canvasses, losses from the binding platform, bundle carrier, heads dropped in shocking and hauling, and heads left in shock bottoms. Losses around the stack and incident to threshing are not included."

"Blanket tests" of 33 combines and nine separators were made to determine which type of machine was the most efficient. The loss measured includes only the threshed grain which was blown or carried thru with the

straw. Thirteen of the 33 combines were carrying over less than 1 per cent of the grain threshed and 21 less than 2 per cent. All losses of over 2 per cent probably were due to poor adjustment and operation.

All operators should study the mechanical features of the combine because of their influence on the operation of the machine. Failure to consider the proper type, the size, the attachments and the adjustments on the combine may affect the accomplishments of the machine to such an extent that the efficiency will be materially reduced. A study of the tables giving the number of the different types and sizes of machines shows that the most popular machine in 1926 was the auxiliary engine type.

The larger size machine is most com-

The larger size machine is most commonly used on the larger farms. In some sections the smaller power takeoff machines are attracting considerable interest of the smaller farmers, and to a less extent the larger farmer, because of their general satisfactory service and economy in labor, fuel and low initial cost. By taking the power direct from the tractor the expense of owning and keeping up an auxiliary engine the year round to be used 15 to 20 days during the year is avoided.

The width of the cutter-bar may be

The width of the cutter-bar may be varied on most machines by using or removing the extension cut. The use of the extension in harvesting of wheat with low yields, thereby increasing the

number of acres which can be harvested a day and lowering the cost of harvesting low-yielding wheat, is especially advantageous.

Self-feeders and straw spreaders may be used in order to equip the combine better for stationary work. The more common uses of the combine as a stationary thresher are to thresh small fields of wheat and other small grains, or to thresh shock rows of wheat which result from opening up a field preparatory to combining. Special bundle and windrow pick-up feeders have been developed which allow the combine to be used to thresh shock rows and windrowed grain without further handling. This also eliminates the necessity of moving the straw, since it is spread on the ground as the machine moves along. Threshing small quantities of milo heads and cleaning various kinds of

Threshing small quantities of milo heads and cleaning various kinds of seed for planting purposes are other uses of the combine. A few farmers reported using the combine for threshing grain sorghums which had been cut with a header. Grain sorghums which are harvested with the header are stacked in small ricks so they may cure properly. The combine may be used to good advantage in threshing these ricks, as it can be removed easily from one rick to the next.

The combine also has been used to

The combine also has been used to thresh the heads from bundles of grain sorghum by laying the bundles across the cutter bar, which has been twisted to an upright position. The heads are

cut off and carried by the platform canvas to the cylinder. The labor of threshing bundles in this way is less, since the combine may be moved along the shock row, thus eliminating one or more handlings of the bundles.

Many farmers reported using their combines for harvesting oats, rye and barley in addition to grain sorghums. Frequently, the machines were changed from one crop to another without making any adjustments. This practice could possibly be tolerated without serious losses when changing from wheat to oats, rye or barley, but the best results cannot be obtained with grain sorghums. Most of the machines were equipped with a straw spreader to spread the straw uniformly over the land rather than to concentrate it in a narrow windrow. When the straw is not spread, considerable difficulty is often experienced by the failure of the tillage tools to handle it. This is especially true when there is a large amount of straw and stubble on the field.

Strawberries for Market

Preparing Strawberries for Market, Farmers' Bulletin No. 1,560, has just been issued; it should be in the hands of every farmer who grows this crop to sell. A copy may be obtained free on application to the United States Department of Agriculture, Washington, D. C.



Today you are offered fence value that is nothing less than sensational. Just consider these facts and try to match them with any other fence olaims you have ever heard.

Think of paying just what you pay for ordinary fence while you get the best fence that money and experience can make, produced by one of America's great steel companies and backed by its absolute guarantee of satisfaction. Fence of such quality is made possible at the price because we control every step in the manufacture from mining the ore to the finished product—only one manufacturing profit.

Keen farmers everywhere have quickly responded to this offer. They get fence made from new special formula steel having unusual strength and remarkable affinity for zinc galvanizing. They get wires that are protected against rust with

a long-life Super-Zinced coating, bonded so closely to the steel that it will not crack or peel.

And the quality is made double-sure by a factory inspection 10 times more rigid than the usual strict requirements of engineers and testing laboratories.

Don't delay getting complete details of this amazing new value. Send us the coupon today and receive our new catalog and the name of the nearest dealer. You will find Pittsburgh fences designed for every farm need. Pittsburgh Columbia Fence is of hinge-joint construction. Pittsburgh Perfect Fence is the electrically welded, stiff-stay type. Both adhere to highest quality standards—both carry our guarantee.

You are also sure of the same high quality when you buy "Pittsburgh" barbed wire, gates, steel posts, and wire nails. Insist on the "Pittsburgh" brand.

Pittsburgh Fences

So She Made It a Model Kitchen

OTHER'S kitchen was all wrong. Mildred Schlickau, Reno county, observed that when she returned from college last June. She had been studying scientific home-making. Most parents dismiss such criticisms after marveling at the way a year or two of college shows up the flaws in the old home

place, and con-sider themselves

fortunate not to be

told by their em-bryonic P. H. D.'s and R. S. V. P.'s

that they are back

numbers. But Mrs. Albert Schlickau, wife of last year's

wheat king, had been noticing that bread and pies and

dishes were requiring too many

steps, so she told her daughter to go ahead and make it right. Mildred got out the paint brushes and called

in a carpenter.

The door into the pantry was made into a double

casing and a breakfast table

Changes in Her Mother's Kitchen and Wielded the Paint Brush

Mildred Schlickau Planned the

and benches took the place of pantry shelves. The dumb waiter which had been very convenient in the former pantry was many times easier to use now in a corner of the breakfast room. Things to be served

cold are set on the table from the dumb waiter without extra steps. After the meal is over they are returned to the waiter, which resembles a galvanized water tank with a door on one side and wire shelves. A few turns of the handle which draws it up and down, and the perishables are in the basement. For warmer weather a few more turns of the crank will let the waiter

By Florence G. Wells

down into a shaft below the basement floor where butter will keep hard on the warmest days.

Transformation of the pantry made it necessary

to provide storage space elsewhere, and that was the carpenter's part. A work table was built along the north wall with cupboards reaching to the ceiling. This gave the space needed for storing the things that had been kept in the pantry and provided work space convenient to the stove.

Mildred was not the only one who had some ideas on how kitchens should be arranged. Earlier in the season Mr. Schlickau had been chosen Kansas Wheat King and was invited to accompany the Wheat Train sent out by the Kansas State Agricultural College. One feature of the train was a model farm kitchen. His Majesty spent most of his time inspecting the kitchen and was convinced that the small sink without drain boards, which his wife intended to put into the work table, would never do. Consequently when he got home, Mrs. Schlickau went to town and brought back the lovely sink with double drain boards which you see in the picture.

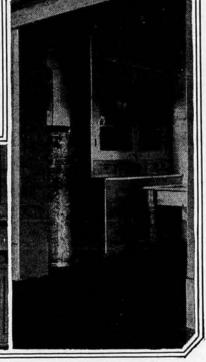
Mr. Schlickau also noticed that the sugar and flour bins on the train were made to balance them-selves open so that both hands could be used in taking out flour or sugar. It was a small task to

change the swinging drawers in the new work table so that they would balance likewise.

The large swinging drawer under the sink is Mrs. Schlickau's idea. It balances itself open the same as the sugar and flour drawers. Inside, it is divided into three sections, a large one in front where a dish pan can be slipped in sidewise, and two smaller sections for pie pans and lids.

In order to fulfil its part in the new kitchen plan, the tiny back porch was enlarged enough to

Below: A Portion of the Work Table in Mrs. Schlickau's Kitchen. The Two Drawers at the Left are for Sugar and Flour. In the Cupboard Above, Spices and Other Things Needed for Preparing Food, are Kept. The Stove Is Opposite the Right End of the Table So Cooking Utensils Are Kept in This Part. Picture at Right Shows a Corner of the Breakfast Nook With the China Cupboard and Dumb Waiter



Attractive Dishes Nurture Appetites

BY BETTY BARCLAY

WE WHO like to please thru the medium of our table, are always on the lookout for some new salad, pudding, fruit cup, casserole dish, or sandwich that will not only taste good but will be attractive as well. Put a dash of whipped cream and a cherry on some commonplace dish, and immediately we have a dish par excellence. Toss a sprig or two of parsley and a slice of lemon over fish-and again we are appealing to the eye and stomach together.

The woman who learns to set an attractive table has learned a very important lesson. Her food may really not be prepared or cooked one bit better than that of her neighbor, but the apch dish so appea she soon acquires a reputation that cannot be equaled by that neighbor at all.

Here are several recipes for attractive dishes. Not only are they attractive, but they furnish the oft lacking balance to meals and thus are greatly needed on the table. Try them and see how they will set off an otherwise drab meal.

Star Salad

On individual plates of lettuce arrange, in star pattern, five sections of grapefruit, free from membrane; on these place five sections of orange, free from membrane also. Cut long, slender strips of figs, and place on edge of orange sections. Fill spaces between orange star points with finely-cut dates. Serve with French dressing made with orange vinegar. To make orange vinegar put the juice from six oranges in a glass jar, add a cake of compressed yeast, dissolved in a little of the juice, cover with cheese cloth, and let stand in a warm place about a month, or until sour enough to use. Strain, and use in place of cider vinegar.

Banana Canoes

bananas 2 oranges 2 slices pineapple Salad dressing Berries or candied cherries

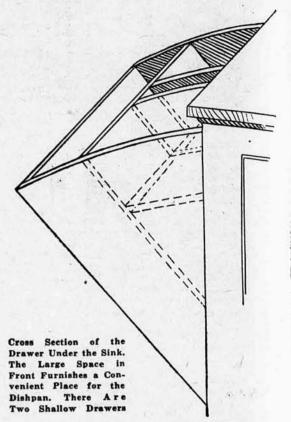
With a sharp knife cut a section of skin from the concave curve of the bananas, and carefully take out the fruit, leaving the skin in the shape of a canoe. Pare oranges. Remove sections, and cut in pieces. Mix with pineapple (cut in pieces) and an equal amount of banana pulp (cut in pieces). Fill canoes with fruit, Cover with mayonnaise or French dressing. Sprinkle generously with paprika. Lay on bed of shredded lettuce, and garnish with berries or candied cherries.

Plant Back Door Flower Beds

ONE thing I learned last year was the joy of having a bit of bright color in easy view from the kitchen and back porch. Flowers at the front of the house may look well to the passer-by and the occasional caller, but the housewife gets more real enjoyment from them if they are somewhere near her workshop. A row of large dahlia-flowered zinnias under the kitchen window just beside the porch produced beautiful double yellow blossoms all summer long with little care except showering with waste water from the kitchen when it was dry. Another bright spot which was a constant

be used as a laundry room and inclosed. The old sink that had been in the kitchen was reinstalled with a mirror above it so that the men can wash and prepare themselves for the meal before coming into the kitchen.

Convenience is not the only element that has been added to this kitchen, for there is beauty in the



grey enameled woodwork, the gay cretonne pads on the benches in the breakfast room, and the general air of neatness and fittingness of the whole room. "I don't know how much time my new kitchen saves me," said Mrs. Schlickau, "but I do know

that my mileage per meal is cut down considerably."

pleasure was a bed of geraniums and sultanas on the east side where it got just enough shade, and was always full of bloom. A clump of dark red hollyhocks in the back yard has added its bit of cheer.

The west end of the front porch proved to be a good place for the Japanese morning glory vines this summer. The large leaves not only made excellent shade, but the sun was so long in reaching this particular spot that the rainbow-colored blossoms often stayed out until almost noon, Of course we had to gather the seed before it ripened to keep the entire yard from growing up to morning glories.

Short Cuts Around the House

BY OUR READERS

ALL of us are on the lookout for suggestions to make our housekeeping easier or our homes brighter. Perhaps you have discovered some short cut that your neighbor doesn't know about. If so, won't you tell us about it? For all suggestions we can use we will pay \$1. Address the Short Cut Editor, Kansas Farmer, Topeka, Kan. Include postage if you wish your manuscript returned.

German Orange Cake

BEAT well together the yolks of 6 eggs, 2 ounces butter creamed, and ½ pound of powdered sugar. Beat the whites of the eggs into a stiff froth. Stir together ½ pound of flour and a tea-spoon baking powder. Mix in the juice, soft pulp and rind of 3 medium sized oranges, leaving out seeds and tough fiber as follows: first stir into sugar, butter and yolks, then add whites of eggs and flour alternately. Pour quickly into little pans and bake in moderate oven.

The icing may be made without eggs, which is sometimes a great convenience. Add grated rind of an orange to ½ pound powdered sugar, a table-spoon boiling water and enough orange juice 10 moisten it thoroly. Use at once.

Mrs. Ira Bishop. Bourbon County.

They're Bleached and Then Dyed

Iney re Bleached and Then Dyed

In these days of a hundred and one shades of hosiery, it is improbable that one will have two pairs of exactly the same tint. This makes matching the mates of stockings that have met with an accident quite a problem. I lay these hose aside until I have two pairs of about the same quality, bleach them and tint any desired shade. The two snagged stockings make satisfactory every-day hose when mended, and the other two are as good a pair as if they were mated at the factory. Most a pair as if they were mated at the factory. Most dye manufacturers now have a bleach and I prefer to use a dye that can be dissolved in the rinse water. Mrs. C. L. Johnson. Wyandotte County.

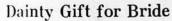
Spring Arrives in Style



2321—Straight Line Styling, Sizes 16 years, 8, 38, 40 and 42 inches bust measure. 2830—Favorite Sports Model. Sizes 36, 38, 10, 42 and 44 inches bust measure. 2352—Bolero Effect. Sizes 6, 8, 10, 12 and 24 per 252—Bolero Effect. Sizes 6, 8, 10, 12 and 253—Bolero Effect. Sizes 6, 8,

M years. 2707—House Dress. Sizes 16, 18 years, 36, 8, 40 and 42 inches bust measure. 2954—Ragland Sleeves. Sizes 6, 8, 10, 12

Any of these patterns may be ordered from Pattern Department, Kansas Farmer, Topeka, Kan. In ordering be sure to men-tion sizes and numbers. Price of patterns is 15 cents each.



DAINTY gift for the bride who will A DAINTY gift for the black be holding the center of the stage in another month, or for the graduate's rillow of dainty room, is this rainbow pillow of voile. The center is shirred to a multicolored insert and the edge is finished with a wide shirred ruffle, with edges picoted in black.

The package which may be ordered



by No. 5682 contains material for the cushion top and back, yarn for the dainty flower clusters, floss for the author. outline stitchery which completes the design, and directions for assembling the parts. Price of the package is \$1.10. You may order this package from Fancywork Department, Kansas Farmer, 8th and Jackson Streets, Topeka,

Women's Service Corner

Corner is conducted for the repose of helping our readers solve their care problems. The editor is glad to seping, your questions concerning houseg sewing, beauty, and so on. Send a formen's Service Corner, Kansas Farmer and a personal reply will be given.

Wax Must Be Removed

My dining room floor was varnished and waxed but it has been neglected until in I would like to put on another coat of varlish, Can this be done over the wax?

Varnia.

y,

y

er

dy, but wax is not waterproof so you a quart daily. Son remove it and then apply the varlish. The most reliable way to remove some other mothers and babies to be as wax is with gasoline. Cleanse the floor well as my mother and I. thoroly with gasoline, remembering

that gasoline must not be used around a fire, in a closed room, or rubbed heav-ily because of its inflammable qualities. After the gasoline odor has left apply the varnish.



Mrs. Page will be glad to help you with any of the puzzling problems concerning care and training of your children. Her ad-vice is seasoned with experience as a farm mother and years of study. Address her in care of Kansas Farmer, Topeka, Kan.

How Mother Keeps Fit

COMETIME ago I told you I was a breast-fed baby. When my sister was a baby our family doctor told mother that there was absolutely no food as good for a baby as a healthy mother's milk. He said a mother should do all she possibly can to nurse her baby from seven to nine months.

breast-fed baby can resist colds and diseases and when getting some illness is better able to throw it off and get well than an artificially fed baby. Below are some

rules my mother follows to keep her fit to nurse me:

1. She gets at least 8 hours of restful sleep every night and an hour of rest and quiet during the day. If it is impossible for a mother to sleep an hour during the day she should at least

lie down for 30 minutes. 2. Mother tries to avoid excitement, worry and getting over-tired.

3. She spends some time daily in the fresh air and sunshine. When doing this, mother dresses suitably for the weather and temperature.

4. The mind as well as the body needs rest. When possible mother spends some time with congenial friends and partakes of pleasures

5. Her diet is well balanced. This is perhaps the most important of the rules. The diet should contain a variety of vegetables, some meat, fruits, both raw and cooked, and from a pint Varnish applied over wax will not drinks plenty of water, never less than

I hope these suggestions will help

Baby Mary Louise.



"Oh-Mother!" Is it really mine?"

THEER HAPPINESS! A Mother's exper-I ience as she gives her daughter that beautiful new piano for her very own. What a companion ... what an inspiration in the years to come!

From many she had chosen this one piano ... the gift of a lifetime. Experience in buying smaller things . . . comparing . . . selecting . . . had helped her in making this important purchase. A woman's inherent trait to first compare in buying any article, large or small.

Comparison is also very helpful in selecting the one coffee you like best.

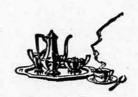
Taste-tempting . . . palate-pleasing . . . the marvelous, unmatched flavor of Folger's Coffee delights the most discriminating people. Folger's makes the perfect cup of coffee. It is the supreme of the world's

Compare Folger's Coffee by making the famous Folger Coffee Test.

The Folger Coffee Test: Drink Folger's Coffee tomorrow morning; the next morning drink the coffee you have been using; the third morning drink Folger's again. You will decidedly favor one brand or the other. The Best Coffee Wins. That's fair, isn't it?

The first thought in the morning







1928, J. A. Folger & Co.

Lester. Alice is in the eighth grade and Lester is out of school. I would like to hear from some of the girls my westphalia, Kan. Leona Laree Newlan.

Goes to Slattery School

I am 10 years old and in the sixth grade. For pets I have a pony named Goldie. I go to Slattery school. I walk 1½ miles to school. My teacher's name is Miss McGinnis. I have four brothers and one sister. My sister and brothers go to high school. My brother and I go to Slattery school. I wish some of go to Slattery school, I wish some of the boys and girls my age would write to me. Hazel Donahue. to me. Hoyt, Kan.

I am 11 years old and in the sixth What is the most popular paper at grade. I play the plane and the uku- a summer resort? Flypaper. Why is a field of grass like a per-

Roxy, a cat named Ginger and a pony er's name is Mrs. Beougher and I like son older than yourself? Because it's named Zona. I have a sister and a her very much. I have three brothers pasturage (past your age).

What goes around a button? A goat, when the past it is a single past it is named Star, a cat named Spot and my brother has a pony named Cap. I enjoy the young folks' page very much and I wish some of the girls and boys would write to me. Nina Wheeler. Orion, Kan.

A Test for Your Guesser

What is the key-note to good breed-

ing? B natural.
What word can be pronounced quicker by adding a syllable to it? Quick,

What is that which has neither flesh,

bone nor nail and yet has four fingers and a thumb? A glove. Why should the goat's milk be used in the dairy? Because the goat makes

the best butter. What part of speech are shopkeep Plays the Piano and Ukulele ers most anxious to dispose of? Arti-

What goes around a button? A goat, Why is a fly taller than most men? Because he stands over six feet with. out shoes or stockings.

Which is the greatest back-biter? A

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Cla

What is that which is bought by the yard and worn by the foot? A car.

Nature's Notelrook



A Swat in Time

A stitch in time saves nine, but a swat in time may save 9 million, Now, when the first few young files are hovering about, wistfully waiting their chance to get in thru a door or window left unscreened, is the time when swatter and fly paper will do the

For these are the ancestor-flies of the swarms that will plague us in August, and every blow against one of these slays an army unborn. It takes less than three weeks, on the average, for a generation of flies to be hatched, grow up, lay their eggs, and thus provide for another generation of the buzzing pests. Each female fly that reaches maturity lays anywhere from a few score to 200 or so eggs at a time, and may produce three or four batches of eggs before she dies. At this rate of propagation, supposing three weeks to the generation, and 100 eggs—a very conservative number—to the batch, anyone with a weakness for the arithmetic of big numbers can conjure up some terrifying statistics. But it is bet-ter to do one's calculating with the swatter.

In the country, where stable waste is a necessary and useful material, flies are partly excusable, tho even in the country their number will be kept severely within limits on a really clean farm. In the city, however, where horses are now greatly reduced in num-

Julia's Dog is 13 Years Old

For pets I have a cow named Spider, a dog named Joe and a cat. My dog is 13 years old. He is blind and deaf. I am in the fourth grade and was 9 years old in December. My teacher's name is Miss Penner. I have two brothers and three sisters. Their names are Bernard, Madonna, Frances, Margaret Julia Buckman. and Emmett. Newton, Kan.

Word Square Puzzle

1. Weed, 2. To state, 3. City in Ne-

vada, 4. God of love.

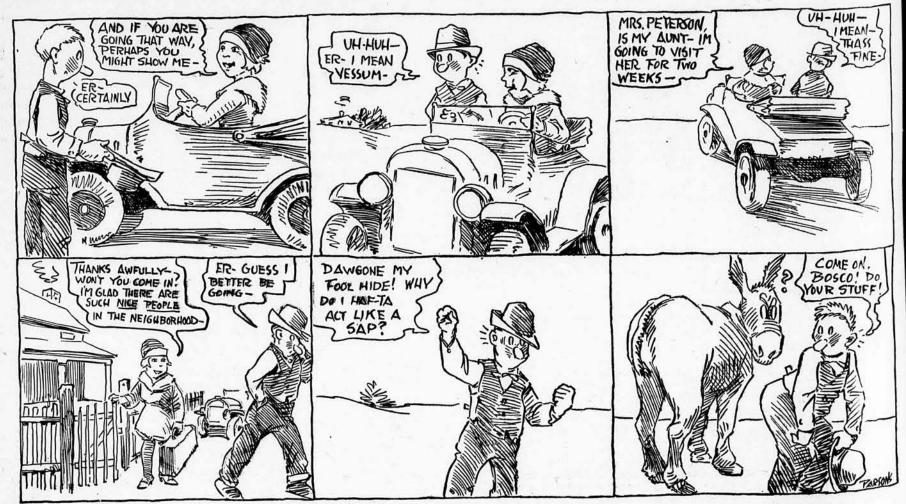
From the definitions given fill in the dashes so that the square reads the same across and up and down. Send your answers to Leona Stahl, Kansas Farmer, Topeka, Kan. There will be a surprise gift each for the first 10 boys or girls sending the correct answers.

There Are Three of Us

Handsome Harry's Problem



Handsome Harry needs a new outfit mighty bad. He's kinda seedy looking I am 8 years old and in the fourth grade. I go to Cherry Mound school, My teacher's name is Miss Miler. I like her very much, I go 1½ miles to school. For pets I have a dog named in the fourth and run down at the heels, as it were, and he's a social lion, too. Let's see you horse are now greatly reduced in numbers and where modern sanitary facilities are supposed to be present even in the poorer quarters, flies are interesting to the property of the poorer quarters, flies are interesting to the property of the poorer quarters, flies are interesting to the property of the poorer quarters, flies are interesting to the property of the poorer quarters, flies are interesting to the property of the poorer quarters, flies are interesting to the property of the pr



The Hoovers—The Bashful Age



wenty-six years ago this month—when this nation—wide retail business was founded by Mr. J. C. Penney—a trip to town meant starting before daylight and arriving back home after dark. In countless instances, the distance was too great for even the long day's trip.

Today the automobile and good roads have changed it into a pleasure spin of a few hours. Gone are the inconveniences of shopping of yesteryears. Gone with the Indian, the scythe, the square piano and the bad roads.

The radio, the automobile and the newspaper are fast making the City and Country one—not only in space, but in needs and desires. Today the family in the farmhouse demand the same up-to-the-minute styles, the same variety to choose from, the same quality and savings, the same advantages of personal selection as their City Cousins.

The J. C. Penney Company Department Stores, located in nearly 1,000

demand in a most satisfactory way. Fast trains thundering

across a continent, carry the styles of New York and the best manufactured goods of the World's markets to the Main Streets of the Nation, placing them in our Stores within easy, reach of the most remote homes.

These Examples of Thrift

-assure Quality-Value in all J. C. Penney Company Stores.

Millinery Modes of the Moment
Chic Hats for Women\$2.98, \$3.98, \$4.98

Our May White Goods Presentation
Table Linens, Sheets, Pillow Cases, Spreads and Towels.
Splendid values at our Thrifty Low Prices.

Drive to the nearest town where there is a J. C. Penney Company Store and see for yourself if we cannot save you money on Dry Goods, Clothing, Furnishings and Shoes—everything needed by man, woman and child.

Purchases in carload lots and by the thousands of dozen for our many Stores enable us to give you prices that save you money. Look at the quality of our goods, too, for it is Quality alone that determines whether the price is economical.

"Millions of Customers and All of Them Friends" isn't merely a slogan in our Stores, it's the result of 26 years of giving helpful, conscientious Service. We shall strive to be increasingly

worthy of your confidence. Make our Store your headquarters when in town,

Our Spring Store News Catalog Is Filled with Such Economies as Are Seldom Found. Write for Your Copy.

JCPENNEY CO

Men Under 35 Years, Experienced in Selling Our Lines Are Wanted to Train for Co-partner Store Managers. Write for Details.

Home Offices: 330 West 34th Street, New York City-56 Stores in Kansas, Colorado, as Follows-

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Abilene
Arkansas City
Atchison
Baxter Springs
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Clay Center
Coffeyville
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Concordia
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Great Bend
Herington
Hutchinson
Independence
Iola

Junction City
Kansas City
Lawrence
Leavenworth
Liberal
Manhattan
McPherson
Newton
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Wichita

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859 Santa Fe Drive
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2020 Larimer St.
Durango
Fort Morgan
Glenwood Springs
Grand Junction
Las Animas

Longmont
Loveland
Monte Vista
Montrose
Sterling
Trinidad
Walsenburg
Wray

(Continued from Page 3)

trucks or other equipment, deduct points accordingly. If he has an ex-cess of any power units, deduct points in accordance with what he should

4. Crop Yields-40 points.

If his crop yields are better than, or as good as the best in his community, fertility of his soil considered, score points. If not, deduct points accordingly.

5. Livestock Management—60 points.

a. If he maintains the proper balance between livestock and crop production, score 8 points. If the number of beef cattle, dairy cattle, sheep, hogs or laying hens is deficient in any way,

deduct points accordingly.
b. If the maximum proportion of his feed crops is fed to his livestock,

This is the second year Kansas Farmer has conducted the Master Farmer project. The 10 men selected for 1928 will receive the same honor and recognition as

the men in last year's class.

Nominations from any community or county are not limited. Additional nomination blanks will be supplied on request. Anyone who is acquainted with a farmer may nominate him, but no farmer

may nominate himself.
The farmers who are nominated will be compared by the score card method, will be asked for additional information and will be visited by a member of the editorial staff of Kansas Farmer.

Three men of state-wide prominence, and who know farm work and farm life, will be the judges who make the final decisions. They will know candidates by number only.

Master Farmers selected last year will hold that title for all time to come, so they should not be nominated again this year.

The accompanying article explains in detail about the Master Farmer Award, who may be nominated, who may make nomina-tions and how to fill out the score card on this page.

Nominations will close June 1. Please mail them to the Master Farmer Award Editor, Capper Building, Topeka, Kan.

score 8 points. If not, deduct points accordingly.

c. If he feeds balanced rations to all classes of livestock, score 8 points.

If not, score zero.
d. If he has proper housing for all classes of livestock during bad weather, score 8 points. If not, score according to what he has.

e. If he practices control of livestock parasites and diseases, score 8

points. If not, score zero.

f. If all sires are purebred, score 10 points. If not, deduct points according to the per cent of grade or scrub sires he has. Example: If he has two sires and only one is purebred, deduct 50 per cent, allowing him only 5 points.

g. If he is receiving a net return from his milking herd, beef herd, hog herd, sheep flock, poultry flock, score 10 points. If any of his livestock projects are failing to make a profit, deduct points accordingly.

a. If he has adequate tools, ma- accordingly. chinery and equipment to do his work efficiently and on time, score 10 points. If not, deduct points accordingly. If he is over-equipped, deduct points accordingly.

b. If he has a well-equipped repair shop, score 3 points. If not, score zero.

c. If his machinery is housed when not in use and is kept in good repair, score 7 points. If not, deduct points accordingly.

7. Field Arrangement—20 points.

If his fields are so arranged as to conserve time and labor in tilling, cultivating and other operations, score 20 points. If not, deduct points accord-

8. Farmstead Arrangement - 20 points.

If his farm buildings are arranged so as to save time in doing chores, located so as to save time in going to and from fields, and arranged so as to insure sanitation, score 20 points. If not, deduct points accordingly.

B. Business Methods—Total of 285

points.

1. Accumulative Ability-100 points.

If his operations since he has been farming have enabled him to accumulate a satisfactory surplus, score 100 points. (This surplus does not need to be in cash. It may be expressed in discharge of indebtedness contracted thru sickness or misfortune, the purchase of more land, improvements or education.) If his accumulative surplus has not been satisfactory, deduct points accordingly. Note: It is understood that you do not know the candidate's personal financial affairs, and that your score for him under this heading of "Accumulative Ability" will be your personal opinion gained thru obser-

2. Accounting Methods-50 points.

If he uses a system of accounting for his farming, score 50 points. If not, score zero.

Safety Financial Practices—100

a. If he invests his surplus money safely in sound securities or more farm land, score 25 points. If not, score zero.

b. If all his farm buildings, household goods, implements, crops and livestock are fully insured against insurable losses, score 25 points. If not, deduct points accordingly.

c. If his life is insured to the extent of his farm mortgage and other indebtedness, score 40 points. If not, score according to coverage.

d. If his life is insured to provide a cash fund for his family beyond his indebtedness, an educational fund for his children, income for his wife and minor children, score 10 points. If not, score according to coverage. Note: It is understood that you do not know the details about your candidate's "Safety Financial Practices," but you should score him to the best of your ability from observation and from any information he may have given you in the

4. Marketing Practices and Production Program—35 points.

a. If he uses market information in buying supplies and in selling farm products, score 15 points. If not, score

b. If he adapts his production program to market forecasts and probable demands, score 20 points. If he does this in any measure, score him for what he does.

C. General Farm Appearance and Upkeep-Total of 90 points.

1. Upkeep of Buildings-25 points.

If his buildings are kept in good repair, score 25 points. If not, score accordingly.

2. Condition of Fields-25 points.

If his fields and fence rows are neat and reasonably free from weeds, score 25 points. If not, deduct points accordingly.

3. Fences, Ditches and Roads - 20 points.

6. Tools, Machinery and Equipment good repair and free from rubbish, score 20 points. If not, deduct points

4. Lots and Yards—10 points.

If his lots and yards are free from weeds and rubbish, score 10 points. If not, deduct points accordingly.

5. Lawn-10 points.

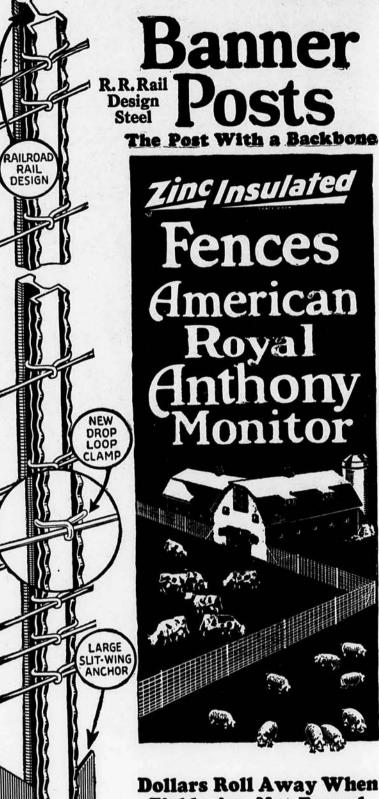
If his lawn is well-kept and has an attractive selection of shrubs and flowers, score 10 points. If not, deduct points accordingly.

D. Home Life-Total of 325 points.

1. Convenient House-50 points.

If his house is convenient and comfortable, score 50 points If it is lacking in these points, score accordingly.

Who Are the Master Farmers American Steel & Wire Company's



Fields Are Not Fenced

Good farm management demands good fences; good judgment prompts your using steel posts with American Steel & Wire Company Zinc Insulated Fence.

Banner Railroad Rail Design Steel Posts are easy to haul, easy to drive and hold the fence true to line because of their solid anchorage.

Note the

New Drop Loop Clamp

Quickly, easily, securely fastens fence wires to the post. Continuous rows of notches on both sides of the face of the post allow attaching any or every line wire. The large slit wing anchor roots the post into the ground as you drive –anchors like a rock.

Banner Steel Posts are guaranteed by us through your dealer. See our dealer in your community.

AMERICAN STEEL & WIRE COMPANY

Sales Offices: Chicago, New York, Boston; Atlanta; Birmingham, Clievcland; Worcester, Philadelphia, Pittsburgh, Buffalo, Detroit, Cinelnant, Baltimore, Wilkes-Barre, St. Louis, Kansas City, Minneapolis-St. Paul, Oklahoma City, Memphis, Dallas, Denver, Salt Lake City.

*San Francisco, *Los Angeles, *Portland, *Seattle. *United States Steel Products Co.

that you can help both your neighbor and us by asking him to subscribe for the Kansas Farmer and

Mail & Breeze? If he becomes a regular reader he will thank you—so will we

Home

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Labor-Saving Equipment in the Home-75 points.

If he has a water system, sewage disposal system, furnace, lighting syspower washer, provision for an supply in summer or some adequate of refrigeration, a radio, and other labor-saving conveniences, 75 points. Otherwise, score according to the equipment he has.

3. (haracter as Husband and Father points.

he has done everything within to increase the happiness and of his family, such as providing companionship, recreation, enter-tainment, music, etc., score 100 points. If not, score according to what he has

1. Education and Training of Children-100 points.

If he has given his children proper training and schooling, and has enhigh school and college education, score 100 points. Otherwise, score according to what he has done.

E. Public Spiritedness-Total of 260

1. Neighborliness-50 points.

If he is neighborly, score 50 points. If not, score zero.

2. Interest in Schools and Churches -60 points.

If he takes an active interest in schools and churches, score 60 points. Otherwise, score according to the interest he does take.

3. Interest in Other Community Enterprises-50 points.

If he takes an active interest in other enterprises for the good of his community, such as farm organizations and civic organizations, score 50 points. Otherwise, score according to his ac-

1. Interest in Local, State and National Government-100 points.

If he votes regularly at all local and general elections, score 100 points. If not, score according to the way he exercises his voting privileges.

Movable Hog Houses

BY W. A. FOSTER

Movable hog houses have been used fully on many farms for a long They are adapted to any class of are especially serviceable as for pregnant brood sows and they can be moved from place

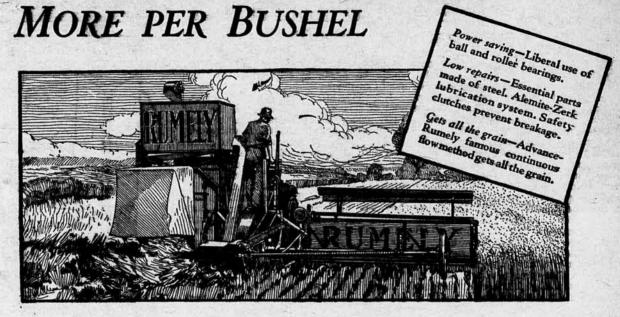
McLean county system of swine as practiced on many farms, ided value to the movable feathe colony house. In that sysadvantages to be gained in not young pigs on the same ground consecutive years are empha-follow that plan houses that wed as needed are practically When the sows farrow dithe clean pasture, colony very successfully and eco-fill the three most important hog house; namely, as a farn. as a shade during summer, ter for the winter.

nal houses are successfully early spring farrowing, the ed attention required at the pen is less easily given bethe scattered nature of the and the exposure of the atuch houses also may be used for fattening hogs, tho the feature is not of special ador this purpose if other unhelter is available.

the chief advantages of the or colony nouse is the kary in keeping down round-worm infestation. Movable houses are convenlent in case it is desired to isolate or margine sick animals that may be a henge to the rest of the herd. The onses can be moved easily to an isoheld corner of the farm away from the healthy animals. After they have Served for this purpose, their cleaning and disinfection for regular use is much less expensive and troublesome han would be the case with a larger

The doom of warfare sounded when atriots began to rob the home folks astead of the enemy.

MAKE 15 TO 20 CENTS



-harvest with an Advance-Rumely Combine

Farmers tell us of an extra profit of 15 to 20 cents per bushel they get by harvesting with an Advance-Rumely Combine. And because this Combine gets all the grain, the yield is one to three bushels more to the acre.

Harvesting this modern way cuts out waste motions-no binding, shocking and hauling from field to thresher. Take an Advance-Rumely Combine into the field and out comes the grain ready for market or storage.

Once over the field and harvesting is done. No more big crews-no waiting your turn. You can wait 'till grain is fully ripened on the stalk-wait 'till it's in condition to get the best grade at the market and then complete the harvest in a few days.

You can make this extra profit on this year's crop if you prepare for harvest now! Use the coupon below to get information and copies of letters from enthusiastic farmers.

Cimarron, Kansas

Advance-Rumely Thresher Co. Wichita, Kans.

Dear Sirs:

Your Combine Harvester is everything you represent it to be. We used it about twelve days on 570 acres, cutting this in fine shape and threshing a total of 15,000 bushels — averaging 1,250 bushels per day.

Very truly yours (Signed) Jones & Son

ADVANCE - RUMELY THRESHER CO., Inc., La Porte, Indiana, U. S. A. Kansas City. Mo. (Incorporated) Wighita, Kansas Kansas City. Mo. Wichita, Kansas

ADVANCE-RUMELY **Power Farming Machinery**

The Rumely Line

includes kerosene tractors, steam engines, grain and rice threshers, combine harves-ters, husker-shredders, alfalfa and clover hullers, bean hullers, silo fillers, corn shellers, and winch tractors. Send the Coupon — Using this coupon now will bring you complete data on how to harvest this season's crop at remarkably low cost. A moment spent with the coupon now may save weeks of labor later on.

ADVANCE-RUMELY THRESHER CO., Inc.
Dept. F, (Incorporated) La Porte, Ind.
Serviced through 33 branches and warehouses Please send me free literature on the machin-ery checked.

□ Combines □ Threshers
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This is Election Year and you need a daily newspaper. The Topeka Capital is the Official State Paper—gives you the best Market Page—prints the most Kansas News-and is packed from cover to cover with interesting features—including comics and a big Sunday paper. Subscribe today, while this Special Offer lasts.

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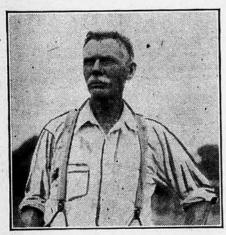
Eight Months For Only \$3.50 If Ordered Within 15 Days. This Rate Does Not Apply Outside the State of Kansas or in the City of Topeka. Address The Topeka Daily Capital, Topeka, Kansas

'Tis Hogs and Beef Cattle

And Douthitt Grows the Feeds That Put Them on the Market at a Profit

BEEF cattle have been averaging roughage. The man who grows the \$100 a head for N. M. Douthitt, feeds he needs is all right. He will osage county, for a good number of years. And he maintains that hogs Mr. Douthitt operates 720 acres,

"First important thing with hogs," he assured, "is to clean them up, inside and out, and keep them that way. No use trying to grow thrifty pigs on filthy ground." He feeds out about four carloads of porkers a year. Part of them are grown at home, while others are purchased. His home herd is Duroc Jerseys, and he rather favors buying the red hogs, but he picks first of all for the type and quality he wants.



N. M. Douthitt, Osage County, Who Farms to Livestock and Keeps Records So He Will Know What He is Doing

puts it. And that something has considerable to do with pig pasture. "Foreign hogs purchased and brought in from other farms get a good "going over," and when the process is finished they are "cleaned up" inside and out. In the meantime they are not allowed to infect the homegrown hogs. Corn, tankage, pasture and plenty of shade and water make hogs for Douthitt.
"When I get hogs to 125 pounds," he said, "it isn't any trouble to make them gain 2 pounds a day up to 100 days. I figure it requires about 7 bushels of corn to finish a hog from 125 pounds, plus 40 pounds of tankage. And it costs about as much to get the first 125 pounds."

Some 50 or 60 head of Herefords are kept as a breeding herd. The herd is purebred and papers are kept up on the best of the animals because there is some call for breeding stock. "I want them good to start with," Mr. Douthitt said, in refering to his Herefords. The best heifers are held to replace the cows that have served their time. Some animals have been held to 15 years old, but the average will be 10 to 12 years. The younger stuff is sold as 2-yearolds as a rule.

All the cattle are fed well. Douthitt believes it pays to keep them in good flesh. They have proved to be one of the most satisfactory markets for the crops. "I have only 60 acres in row crops," he said, "but that is enough been able to buy grain, but not the patch.

properly handled are bound to make and of this he owns 480 acres. He has pork in good time. They have for him, been over his land, every single acre and of this he owns 480 acres. He has been over his land, every single acre of it, with clover, alfalfa, timothy and the like. Most of his farm is in some grass. "This gets it off my hands," he explained. "I can't farm all of it and I don't want to rent it." Having built it up to good fertility he doesn't want it drained again. Timothy and prairie it drained again. Timothy and prairie hay are listed as market crops, but alfalfa stays right on the farm, and some is purchased in addition. Particu-lar care is given the alfalfa to get it up

on the Douthitt farm, but not under a handicap. The pigs produced on the farm are started right on clean ground. I have lived here the hens have paid Every single field is fenced "so it is good for something," as Mr. Douthitt than a small, general farm flock. ing the same years my grocery bill amounted to \$4,583.56. It isn't difficult to draw your own conclusions from Those accounts are from 1897 to 1926, inclusive."

In 1897 Douthitt sold \$36.75 worth of eggs, and the grocery account was \$55.25. The high year, 1919 shows \$625.16 worth of eggs and a \$342.49 grocery bill. "That is how living has gone up." Douthitt advised. Pages for 1926 show \$304.98 worth of eggs and \$205.70 for food. These exact figures are mentioned, not only to remind that it costs more to live today than 20 or 30 years ago, but as well to show that Douthitt has kept accurate records for years. He knows whether his 200 White Leghorns are paying now and what every other farm operation is doing and has done. Those records are a guide to him, and it isn't uncommon for the 'phone to ring and a voice on the other end of the line ask, "What were you paying for corn 12 years ago?"

The books show when crops were planted, what they were, their location, yield, overhead costs and returns. Certain conditions prevail this year.
"Well, what was my success in such and such a year that was much like this?" Douthitt can ask, and his books help. The books also show why the farm is in its present good condition. An inventory each year helps to keep things straight, too.

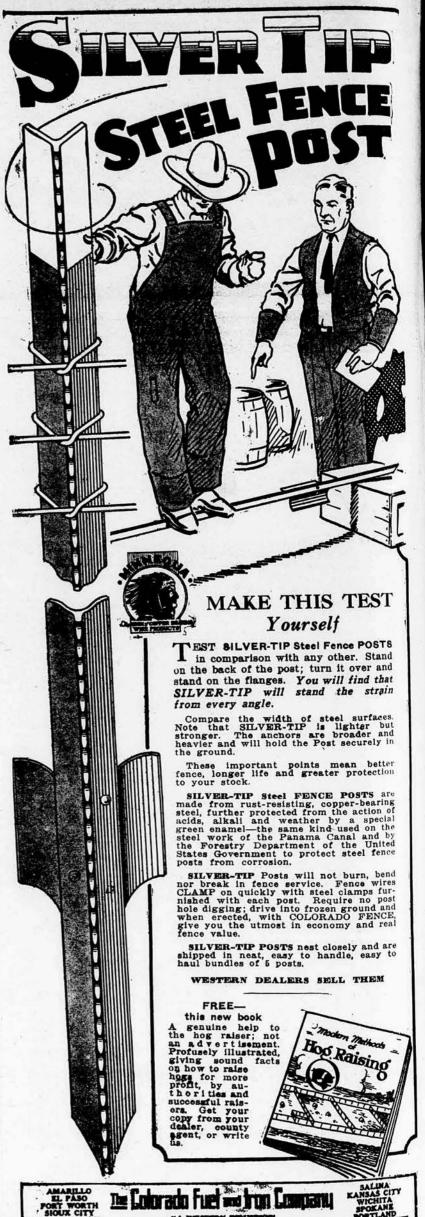
Douthitt's place is neat. The family takes pride in it, and well they should. Its owner came to Osage county in 1888, and worked out by the day. Then he was a renter. Some years of toil resulted in his getting the rented place well cleaned up, and then the rent was raised on him. That made him ask, "Why should I build up another farm, to have the same thing happen?" didn't. In a short time he was paying on his farm. When he was out from under the debt on one 80 acres, he would sign on the dotted line for more land. And here is the encouraging thing for the present generation, Mr. Douthitt sees a good chance for the young farmer of today who has the desire for ownership. Proper cropping plus livestock eventually will bring a clear title.

On to His Job

Wanted-Experienced dairy foreman, for my needs. I think as much of feed one who is capable of producing grade crops as I do of grain. I always have A milk.—Ad in the Houston Post-Dis-



The Douthitt Farmstead is Very Attractive, With a Comfortable Home and Conveniently Arranged Buildings. The Huge Green Balls on the Lawn Are Trees, Kept Neatly Trimmed





After you read your Mail & Breeze, hand it to a neighbor who is not a subscriber. He, as well as you, can profit by the experience of others engaged in similar work.

How do we know that Christ rose from the dead? It is a stupendous claim to make. Other religions tell stories of miraculous happenings in connection with the founders of their religions. But to relate such stories is one thing, and to have historical evidence is another. We Christians hold that the resurrection of Christ has as much historical evidence as has any other event in ancient history. For instance, how do we know that Julius Caesar was stabled to death by Cassius, Brutus and other conspirators? We get this from the Latin writers, such as Plutarch, Suetonius and others. And how do we know that the writings of these men are authentic? Because there are several of them, and while they differ in detail, they agree on the main facts, and we have good reason to believe that in other matters they are trustworthy, and hence we believe them in

So with the resurrection. Good reasons are at hand for believing that Jesus Christ died at the hands of government officials, and that He was later seen alive. Paul probably was the first person to write about it. In I Corinthians he says, "For I passed on to you, as of first importance, the account I had received, that Christ died for our sins, as the Scriptures fore-told, that He was buried, that on the third day He was raised from the dead, as the Scriptures foretold, and that He was seen by Cephas, and then by the Twelve. After that He was seen by more than 500 brothers at one time, most of whom are still alive, altho some of them have fallen asleep. Then He was seen by James, then by all the apostles, and finally He was seen by me also, as tho I were born at the wrong time," (First Corinthians, 15:3-8; Goodspeed's translation.) Thus we have here a list, the only a partial list, of the appearances of Christ, after His resurrection. These are widely scat-tered in time and place. Someone has made out a list of the persons to whom He appeared, as follows: 1, He appears to Mary Magdalene (John 20:16). 2, To other women, (Matt. 28:9). 3. To Simon Peter, (Luke 24:34). 4. To two men on the road to Emmaus, (Luke 24:15), 5. To the apostles, without Thomas, (John 20:19), 6. To the apostles, with Thomas, (John 20:26), 7. To seven disciples by the sea of Galilee, (John 21), 8. To the 11 apostles in a mountain, in Galilee, (Matt. 28:16-20), 9. To more than 500 persons at one time, (1 Cor. 15:6), 10 To 80ns at one time, (1 Cor. 15:6). 10. To James, the brother of Jesus, 11, To the apostles at the time of the Ascen-9:3, 22:6, etc.)

But this is not all. When Christ died, his followers were in utter dismay. They were scattered and beaten, Peter to far forgot himself, the night of the errest, that he denied ever having hown the defendant. But following the resurrection all this was changed. Men who had been timid became as fold as soldiers, openly defying the authorities. The man who had lied about his Lord now declared publicly, "We must obey God rather than men." The depths of despair into which they had plunged was the measure of exaltation to which they now rose. They were like en who had been born over again into a new world. And this was the foundation of the organization which became the church.

When these men went about preaching, they preached the resurrection. On that, arguing from the Old Testament,

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they based their faith that Jesus was the Christ. This belief was the inspiration that gave rise to the church. There are a few deductions to be drawn that may not be without interest to us.

I. The early Christians were a gladsome lot. Such expressions as these occur frequently: "And there was great
joy in that city;" "and the disciples
were filled with joy;" "that I might
finish my course with joy;" "Count it
all joy when ye fall into manifold
temptations;" "they were filled with
gladness and singleness of heart;" "rejoice in the Lord always," and so on,
a long list that makes one happy even
to read it over. It will naturally be
asked, where has this note of glee, of
exhilaration gone? Why has the church
ceased to laugh? Well, I don't exactly
know. Your idea would no doubt be as
good as mine. Why don't you laugh
with delight, when the time comes to
go to church, instead of sneaking in
late, after the collection is taken? No
doubt much of the want of spontaneousness is due to the fact that we are
not so fully devoted to the Lord and
His cause as those early folk were.
When you find a real Christian he is
a joyful soul. We must go back to the

primary truths, and ask ourselves, "What are the chief tenets of the Christian faith?" And we will not inquire long until we conclude that it is not so much the teaching as the Teacher. Christ Himself is the inspiration of the believer.

II. He is the Living Lord. Buddha was a good and great man, and founded a religion that is believed by millions of people. But Buddha is dead. Mahomet founded a religion, and he is dead. Jesus founded a religion, and He is alive. That is the foundation-stone of our faith. We worship, not a dead Christ, but a living Christ; not a prophet who lived long ago, but the living and reigning Lord of experience. "He was dead, but is alive forevermore."

Lesson for April 8—The Power of the Resurrection. Mark 16: 1 to 20. Golden Text—John 14:19.

Brilliant Deduction

When Wyman Morse returned from Sacramento and parked his car in the garage, he found one rear wheel gone and a fender badly crumpled, which led him to conclude that he must have met with an accident en route.—Dixon (Cal.) paper.

Didn't Like His Name

New boy Sultan of Morocco orders cacybetaoin-shrdlushrdlucmfwpcmfwy late ruler's friend thrown out of royal palace.—Boston Globe.

More Factories Are Coming

(Continued from Page 8)

passengers, this is now an assured means of transport used by progressive communities in competition to promote business. It is obvious that the first necessary essential is an adequate airport. Classified freight will soon follow! A community could not at present thrive if the only means of delivery were restricted to the plane; however, the day is coming!"

Science and invention are introducing a real program of farm relief by bringing into the rural areas of America the industrial workers to consume the products of the farm, without necessitating the shipping of these products so great a distance. These people will be good buyers of food products, because in factories they will be receiving adequate wages for manufacturing the things the world needs, and these manufactured articles will be carried out to the rest of the world thru the various new means of transportation.

Standing Pat

"Remember," said the serious man, "that money is not the only thing to be striven for."

"Maybe not," answered the other, "but a whole lot of people think it is, and I'm not egotistic enough to try to set any new fashions."



Save Time, Labor and Money at Harvest Time!

FOLLOWING close on the heels of the Company's most successful harvester-thresher year, comes this announcement of two new prairie types featuring a score of refinements and improvements. No radical changes — for none was necessary. Every improvement is the result of a sincere effort to make combine harvesting as simple, satisfactory, and efficient as possible

Catalogs showing the new machines in full detail are now ready for you. One tells about the No. 8, which is built to cut a 10-foot swath. The other shows the No. 11, which is built in two sizes—12 and 16-foot cut—for use where larger acreages prevail.

During the 1927 harvest season thousands of grain growers were unable to secure McCormick-Deering Harvester-Threshers, due to the great demand for these machines. To avoid disappointing customers this year, McCormick-Deering dealers are already taking orders for these 1928 models for harvest time delivery. Ask now for your copy of the new catalog; the local dealer will supply it and explain the new McCormick-Deerings to your complete satisfaction.

INTERNATIONAL HARVESTER COMPANY
606 So. Michigan Ave. of America (Incorporated) Chicago, Ill.

McCormick-Deering Number 8 Harvester-Thresher

The size, weight, and economy of the 10-foot No. 8 are just right for the average field and average power. Harvests the crop with amazing speed—and saves as much as 20 cents a bushel on the job—yet the No. 8 operates to advantage in ordinary fields and can be moved over ordinary bridges and through gates with no difficulty.

ove ovial- T

McCormick-Deering Number 11 Harvester-Thresher

In the No. 11 the change that is most easily recognized is the new position of the engine and radiator assembly on the A frame at the front of the machine. The weight is more centrally located, lightening the load on the grain wheel. Also, the engine in the new position is closer to the operator and is easily accessible.

McCormick-Deering HARVESTER-THRESHERS

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Milk, the Ideal Human Food

Greater Attention to Avoiding Sources of Contamination Appears to be Essential

BY EARLE G. BROWN, M. D.

health, and as a result of this renewed interest, progressive health authorities in cities, villages and even rural communities have succeeded in markedly improving the quality of their milk supply. Undoubtedly more milk is consumed per capita in the United States than in any other country. Milk States than in any other country. Milk may contain germs which are dangercontains all the essentials of a perfect food: proteins, fats, inorganic salts, carbohydrates and water. Because of the ease with which it may be ingested and the easiness of its digestion, it is in addition an ideal food for the sick and those convalescing from illness. No other single article of food would be missed so much if it were suddenly eliminated from our dietary.

Of even greater importance than the use of milk as a food for adults and the sick is its use in infant feeding. Numbers of mothers are unable to nurse their infants, and the best sub-stitute for mothers' milk is modified cows' milk. However, to be used for infant feeding it is especially important that cows' milk be pure. Infants are least able to resist the harmful effects of impure milk contaminated with disease producing germs. Improved sanitation, scientific methods of prevention of certain communicable diseases, pure water supplies and other advances in public health methods have contributed to a decrease in the general mortality. Unfortunately, the infant mortality, or deaths of children under 1 year old, has not decreased in proportion with the general mortality rate. It is recognized that disease of the gastro-intestinal tract is perhaps the largest single factor determining infant mortality—a condition the result in almost 100 per cent of cases of improper feeding.

Intensive educational work on the value of a pure milk supply has been carried on in Kansas for a great number of years, and I believe the results may best be shown in a study of the deaths of infants from gastro-intes-tinal diseases. Here is the percentage of infant deaths from diseases of the digestive system and from communicable diseases.

	Diseases o	
Year	Dig. System	T Diseases
1916		4.7
1917		6.0
		10.7
1918		6.6
1919	12.2	
1920	15.5	9.4
1921		6.0
1922		5.3
1923		9.3
		8.0
1924		5.7
1925	12.3	11.0
1926		11.3

Milk most frequently provides the means of transmission. However, experimentally it has been proved that freezing does not destroy all typhoid bacilli, and outbreaks of the disease have been traced to ice cream. The disease may be transmitted thru butter and cheese. Butter made from milk experimentally infected with typhoid bacilli may retain the germs, according to Bruck, as long as 27 days. Buttermilk, of course, would be equally as dangerous as the cream from which it derived.

Milk in the udder of a healthy cow is rarely sterile, but if proper precau-



URING the last few years increas-ing attention has been given to most free from germ life. Such milk milk in its relation to the public may be considered normal milk, but is not the milk produced in the ordinary dairy. Upon leaving the udder, the milk comes in contact with air, the vessel into which it is drawn, in many cases the hands of the milker, and particles of dirt from many sources. Even in a healthy cow, milk ous to the public health, but the sources of contamination most common are:

> While passing thru the teats. From the hands of the milker. From utensils, such as buckets and bottles.
> 4. From subsequent handlings.

> Perhaps before we continue further, we should discuss the diseases that cattle have which may be transmitted thru the medium of milk. These in-

1. Tuberculosis.
2. Foot and mouth disease.
3. Anthrax.
4. Rabies.
5. Mastitis.
6. Malta Fever.
7. Actinomycosis.

Of the diseases named, tuberculosis probably is the most important from the standpoint of the public health, and also is the most prevalent. Tuberculosis may effect the udder and the germs thus be carried directly in the milk stream. In a herd of cattle, one or more may have a pulmonary type of the disease with the formation of abscesses in the lungs. There is the possibility that the abscess may rupture, and the infectious material be coughed up and swallowed. This infectious material containing myriads of tubercle bacilli will then be evacuated thru the bowels, and eventually reach the milk thru dust, flies and other means.

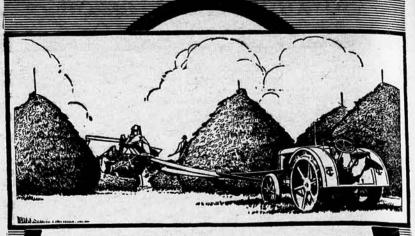
John F. Anderson of the United States Public Health Service, about 1908, collected 272 samples from 104 dairies in Washington. He found that 6.72 per cent of the samples contained the germs of tuberculosis in sufficient quantities to kill guinea pigs, and 11 per cent of the dairies whose milk was examined supplied milk containing these germs in sufficient number and virulence as to cause tuberculosis when injected into guinea pigs.

It is to the credit of the state that nearly 100 cities have milk ordinances which require tuberculin testing of dairy herds.

Foot and mouth disease is an acute infectious, highly contagious disease occurring most frequently in cattle and characterized by the development of vesicles on the mucous membrane of the mouth and on the skin between the toes and above the hoofs. The vesicles rupture and form ulcerations which may extend over a considerable surface of the skin. When the disease is fully developed the milk contains inflammatory products and the quantity of milk is reduced. Cows affected with a severe form of the disease lose practically all of their milk. In mild cases, the milk becomes thin, a bluish color develops and the fat content is very develops and the rat content is very low. The disease is transmissable to persons thru milk, buttermilk, cheese and other milk products. It is contracted thru saliva, secretions and other infectious material from animals. Children may be affected by drinking the raw milk. Fortunately foot and mouth disease epidemics have appeared in the United States very appeared in the United States very infrequently.

In anthrax, the milk has an abnormal appearance and decomposes very rapidly. The germ of anthrax has been recovered from milk 14 days after it has been taken from an infected cow.

Instances have been reported where rabies has been transmitted to offspring thru cow's milk. It is not probable that cows would be milked after rabies develops. However, in occasional instances, milk may be used from cows that develop rables. Rables will not develop following the drinking of infected milk, unless there is a break in the mucous membrane of the gastro intestinal tract. As there is no method



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of determining whether this condition exists, Pasteur treatment should be ad-

exists, leasteur treatment should be administered as a preventive.

In mastitis, usually only one quarter of the udder is involved. The part affected becomes swollen, the result most commonly of a streptococous infection, and the condition is usually very painful. The milk at first is normal in appearance, then becomes watery, it may contain quantities of pus and there usually is a brownish discoloration. The very sight and odor of this milk is distasteful, and the danger in its use lies in the probability of infection by returned milk bottles from homes quarantined for diphtheria, scarlet fever, typhoid fever or other diseases dangerous to the public health, the State Board of Health some years ago adopted a regular.

Malta fever is a comparatively rare disease, or has so been considered in the United States. At the meeting of the American Public Health Association at Cincinnati last October, Dr. Paul F. Orr, epidemiologist of the Michigan State Department of Health, presented a paper in which he reported 16 cases of this disease, the result of infection thru milk. The general opin-ion expressed was that similar epide-mics have occurred in other parts of the country but have not been recog-

Actinomycosis is a disease that affects cattle, but seldom involves the udder. As a general precaution, tho, the use of milk from cows having this disease should be prohibited, because the infection enters the body thru the

alimentary tract.
In addition to the diseases named above, the following not originating in cattle may be transmitted thru milk, the source originally originating in

- Typhoid fever. Paratyphoid fever. Tuberculosis. Diarrhea and enteritis.

- 4. Diarrica and enteritis.
 5. Dysentery.
 6. Scarlet fever.
 7. Diphtheria.
 8. Streptococcus sore throat.
 9. Infantile paralysis.

Typhoid or paratyphoid fever, whether a single case or an epidemic, always originates from a previous case. Typhoid fever germs therefore enter the milk only after it has left the udder. Methods whereby the germs enter the milk include from the hands of the milkers, especially wet milkers; from the hands of employes in the care of the milk, or from flies, or buckets, utensils or bottles washed in contaminated water carrying the germs of

Milk is a most excellent medium for the growth of bacteria, especially those dangerous to human life. If a small particle of material containing germs is introduced into milk, the germs un-dergo rapid multiplication and the milk becomes thoroly contaminated. Considering how rapidly the germs multiply, it is readily understood how a small portion of infected milk taken into a dairy and mixed with a large volume may contaminate the entire

In a study of the bacteria count of the Washington milk supply, the United States Public Health Service found a maximum count of 307,800,000 and the average was more than 22 million a cubic centimeter.

Human tuberculosis infection may be transferred thru milk, altho it oc curs infrequently as compared with the bovine type. Infection results from a tuberculous person coughing in his hands and the germs entering the milk while milking, or the individual coughing in or near the milk bucket or container and the germs being carried into the milk in the spray from the mouth, then mixed with the milk while mouth, then mixed with the milk while it is being prepared for distribution to the dairy customers. There also is the Possibility of transference of the germs to the milk by flies.

And Ed Webster Says

Diarrhea and enteritis may be caused entering the milk thru some human The most common is the colon bacillus, which organism is a normal inhabitant of the gastro intestinal tract of man. The colon bacillus is closely telated to the typhoid organism. A kerm known as the bacillus proteus, also an inhabitant of the human intes-linal final tract, may be transferred thru hilk and cause acute gastro intestinal disturbances.

True dysentery may be transferred thru milk, the infection caused by erms known as the Shiga or Flexner These germs produce disease only when introduced in considerable humbers and after they have an opportunity to multiply.

transmitted by contact of cases or car-riers at the dairy in the person of milkers or other employes. There also

Health some years ago adopted a regulation which provides that when a dairyman supplies milk to a home so quarantined, the milk shall be emptied from the bottle into a pan, pitcher or other container. In addition, the dairyman is not allowed to leave the milk bottle. Another precaution that has been taken by the board is that milk served in restaurants and hotels shall be served from individual bottles. The following quotation on "Con-tamination" is taken from an article

Scarlet fever and diphtheria may be on Sanitary Inspection and Its Bear-ansmitted by contact of cases or caring on Clean Milk; Ed. H. Webster, formerly of Kansas, is the author of the article.

"If the mere presence of solid particles of dirt so frequently found in the milk were the only damage wrought, the question would resolve itself into the simple operation of straining or passing the milk thru a clarifier. The presence of solid dirt is, however, an indication of much more serious conditions. Bacteriology teaches that every particle of dirt, whether it seems to the eye a source of contamination or not, carries with it great numbers of bacteria, and that milk at ordinary temperatures, 65 to 100 degrees F., is an excellent medium for their growth. Most of the changes that take place can be directly traced to such action."

"Neither straining nor clarifying will remove the bacteria from the milk, hence the necessity of keeping the dirt out, not straining it out."
Sources of contamination include:

- During milking.
 Milk utensils.
 In the milk house.
 During handling.

The first act of contamination usually begins with the act of milking. If the milker wears dirty clothes, has not washed his hands and the flanks and udder are covered with dirt, milking will cause an indescribable amount of dirt to fall into the bucket. The amount of filth which enters the milk depends to a certain extent on the condition of the stable yard, the milking barn, the floor and gutters.

The wide top milk pail is the most common type in use, and allows free

access of dirt to the milk. Seamed buckets are undesirable, for unless carefully cleaned they allow the accumulation of dirt. Wood or other rough material is undesirable for use as a milk container. The general type of milk house has improved greatly in recent years. Rough floors allow accumulations of filth. Cracks in the wall or ceilings allow accumulations of dirt which may contain bacteria. Openings in any part of the building or unscreened doors or windows allow the access of flies which carry the germs of typhoid, tuberculosis, intes-tinal or other diseases on their feet.

(Continued on Page 49)



LL who have had an opportunity of seeing and trying the new 1928 50th Anniversary "Golden Series" De Laval Separators unhesitatingly pronounce them the finest separators that have ever been made.



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De Laval Milkers are now being used on thousands of farms, and are more than one mil They milk faster, better, cleaner and cheaper than can be done in any other way. They soon pay for themselves. Sold on easy terms.

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protected, insuring maximum durability.

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Upward Goesthe Crop Yield!

I Have Found That Making Synthetic Manure From Straw Is a Profitable Farm Practice

You cannot continually draw on the account of plant food in the sell without being faced sooner or later with the necessity of making some deposits. One way to balance the with-drawals of fertility which is removed in erops is to add plant food in the form of fertilizers. Excelient and profitable as this may be, I believe that the use of fertilizers should be supplemented with the conservation and use of farm by-products. One of these is manure. Manure is the one fertilizer that need not be defined. As one old farmer

"I have tried this fertilizer and that fertilizer, but to my taste, manure is the best." Every farmer is aware of the fertility value of manure, and at forty realize its shortage. There is never enough to go around. The fields nearest the barn are likely to fare the

Almost every grain farmer has one or more straw stacks which constitute a liability, rather than an asset. The stacks harbor insect pests. It does not pay to bale the straw, and you can't keep enough stock to use it. It does not rot and it does not pay to spread it on the land. In fact, top-dressings of straw sometimes depress yields, for reasons that have only lately been discovered. And yet these straw stacks contain, locked up, a good-deal of valu-able plant food. Does it not seem an economic waste to allow this fertility, which you might term "frozen assets" to go unused?

The problem I have been working on in the last two years on my farm is to convert these assets into working capi-I was forced to it by a dire need for manure on my farm in Southwest-ern Missouri, where livestock could not be kept in sufficient quantities to anywhere near supply the need. The farm had so depreciated in its original fertility that 3 tons of limestone and 200 pounds of superphosphate an acre, our usual application, was insufficient for successful growing of clover where manure was not used. However, this treatment combined with a top-dress-ing of manure caused it to grow luxuriantly. Our soils need organic matter, nitrogen and potash, as well as phos-phoric acid. The possibility of rotting wheat straw and other farm wastes as a means of solving the problem was first suggested to me by R. J. Silkett, soils specialist of the Univer-sity of Missouri Extension Department.

Cost 52 Cents a Ton

Later, under the direction of Dr. W. A. Albrecht, of the soils department of the university, experiments were begun on the farm to see if the English principles of making artificial manure could be modified to fit our American scheme of extensive farming. The English process consists of the hand application of a patented chemical mixture. at the same time supplying enough water to saturate the pile. Later, the stack must be reworked, and if dry, water again be added. In about six months the material has rotted, and in both a chemical and physical way the product resembles barnyard manure. The essential changes made to fit this method into our grain farming system supplying $\mathbf{m}\mathbf{x}$ uur chemicals by an automatic machine ing last August. run off the rocker arm shaft of the grain thresher and separator; second, using a mixture of 45 per cent ammonium sulphate, 40 per cent lime-stone, and 15 per cent acid phosphate in place of the patented mixture which was too expensive for us to use; third, threshing shallow flat piles not over 6 feet high in order to receive and hold the rainfall instead of hauling water for the piles.

The results both in 1926 and 1927 a simple, inexpensive and rapid pro- other system of manure making. It

THE soil is like a bank account. cess by which unsightly straw piles could be changed to a high grade synthetic manure in 60 to 90 days at a cost of 52 cents a ton of the final product, thus permitting the straw of one crop to be used as a manure top-dressing of the next. Such rapid conver-sion of unusable waste to a highly effective farm fertilizer is in no way associated with a loss of fertility. The nitrogen and phosphate added, as well as that already in the straw, goes back to the soil without loss.

Furthermore, this process makes ft possible to manure the furthermost fields as cheaply as those next to the barn. In fact, the farmer who hauls his straw % of a mile to the barn for threshing and returns it again as mathe same time both he and the back nure to the same field has paid for forty realize its shortage. There is the process in labor, without realizing

any of its advantages. In 1927, experiments also under the direction of the University of Missouri best, and the distant fields are neglicted. My theme, therefore, is one of to determine the effect of synthetic stretching the manure supply rather than extolling its merits.

On thousands of grain farms, straw indicate that it materially increases is a by-product of little or no value, both the quality and quantity of wheat the stretching the manure on wheat, and the following clover, were begun. The results so far indicate that it materially increases is a by-product of little or no value, both the quality and quantity of wheat when used as a top-dressing in De-cember. Alsike clover grew to a height of 40 inches four months after seeding on flat white prairie land that had been under cultivation 45 years and would not grow clover successfully even with 3 tons of lime and 200 pounds of acid phosphate an acre. Wheat top-dressed in the fall of last year shows a decided resistance to winter killing as compared with the unmanured.

Plenty of Water Helps

Results quite as striking as those just mentioned were noted when an at-tempt was made to check the relative amount of manure produced to the ton of straw by the livestock method as compared with the synthetic method. Records on the same farm showed that the possible amount that should have been produced in the feed lots from 1923 to 1926 was 980 tons. The actual amount recovered from the lots was only 625 tons, or a loss of 355 tons. In 1927, 17 tons of straw on the same basis should have produced 17 tons of manure; the straw, however, was converted into synthetic manure, and 68 tons were recovered, or an increase of 51 tons, or about 333 per cent over what there would have been if the straw was converted by our livestock method. In the same proportion, the organic matter had been lost under the old scheme, and so also was the fertility lost. The synthetic process prevented this waste of plant food.

The details of making synthetic ma-

nure are as follows: Make up a mixture of 45 per cent ammonium sulphate, 15 per cent acid phosphate and 40 per cent limestone. Use 150 pounds of this mixture a ton of straw and supply it by means of a simple me-chanical device fitted to the grain separator, designed especially for the purpose, so that a perfect mixture is obtained. Hand mixing is not so satis-The piles should have flat factory. tops and not be over 6 feet high, so they will retain all the rainfall, which supplies the necessary water. In most places there is sufficient precipitation from August to December to rot 6 foot piles, but even if there should be a lack of moisture in the fall, spring rains would in that case do the work. Piles 6 feet high rotted to within 6 inches of the ground with 11 inches of rain dur-Additional rains in September finished the job.

For additional information on the process, write to the Soils Department of the University of Missouri at Co-lumbia, for Bulletin 258, "Artificial lumbia, for Bulletin 258, "Artif Manure Production on the Farm."

I do not mean to convey the idea that this method of using farm wastes eliminates the use of commercial fertilizer, but I do mean that this process offers the farmer a chance to save and apply much fertility that would other showed that this system was entirely wise be wasted. Furthermore, it alsatisfactory from both an economical lows the return of larger quantities of and practical point of view. It was organic matter than is possible by any



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"Never had corn come up so since I have been farming—I had a splen-did stand."

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"My neighbor planted on the same day and did not treat his seed and had to plant over."

Fewer Barren Stalks

"Had fewer barren stalks than other years — dry rot and mouldy ears very nearly eliminated."

Improves Quality

"The treated corn was much better quality-solid, dry ears."

Increases Yield

"Increased my yield from 5 to 15 bushels per acre." "The corn that was not treated was not as good by ten bushel to the acre.'

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acre. No special equipment is required. Simply use as a dust treatment. Two bushels of seed can be treated in less than three minutes.

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he barn, and permanently disposes of he insect harbors and weed patches smally associated with straw piles. If in addition to returning all farm

If in addition to astes as manure, growing clover, and ming, a high grade of commercial fer-lizer is used to offset the fertility old off the farm in grain and live-lock, a balance has been reached and

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ffers the opportunity to manure the an acre. By using 250 pounds of superarthest fields as cheaply as those at phosphate an acre, I have brought up be barn, and permanently disposes of the yield to an average of 23½ bushels insert harbors and weed patches an acre for the four following years. Ten acres of clover following fertilized oats produced twice as much hay as another 10 acres where the oats were not fertilized, and nearly four times as much seed in the seed crop.

My soil is a Gerald silt loam-a flat tock, a balance has been reached and white wet prairie land with a tight brillity is no longer the limiting fac-hardpan 10 to 14 inches below the suror in yields.

My rotation is corn, oats, Red clover to handle in any system of soil imnut wheat seeded to Sweet clover. I provement. The limiting elements on are been using 250 pounds of fertiper on the wheat, but this year I contains the seeded to the seeded to see the seeded to seed the seeded the seeded the seeded to seed the seeded the seede ave been using 250 pounds of fertizer on the wheat, but this year I am
loing to try it on corn. Up to five
ears ago, when I started my present which give profitable returns when aprogram, wheat averaged 12½ bushels plied either in manure or fertilizers.

Leaders Chosen This Month

County Pep Clubs Soon Will Organize and Good Times Will Begin

BY PHILIP ACKERMAN

NE of the boys or girls who is a club member will be selected for county leader. A leader will be ppointed in each community in which ere are three or more members. The ounty will be a division of the club. Now let us consider which member ill be selected for each club. Surely, we want a leader who is showing much nerest in the club work, one who has ommunities. They have been responsi-le for many more folks joining, and in s way have taken upon themselves responsibilities of leadership. Do on think it is only fair that these olks be appointed leaders? Of course, be age of the member and his general valifications will be considered. You may wonder why we choose a

oy or girl for leader rather than somebe in the community who is mature. The choosing a club member we develop adership in boys and girls. The ader is near the same age as other embers in the club and they do not

a talk by the county agent, vocational agriculture instructor or a local livestock or poultry breeder. Also have parties, ball games, picnics, fishing and programs.

At one of the meetings in Lincoln county where your class in Lincoln agriculture instructor or a local livestock or poultry breeder. Also have parties, ball games, picnics, fishing and programs.

At one of the meetings in Lincoln county where your class in Lincoln agriculture instructor or a local livestock or poultry breeder. ers, these to include a newspaper reofter. All members are allowed to ssist the club reporter in getting some deresting items for the local news-aper, and for the club's literary paper

by before any meeting is adjourned. the president may notify members who re not present of the time of the next

Any encouragement that the leader can give unfortunate members of his club is appreciated by the individual who has met with misfortune, and also by the club manager. This makes the club leader of value to the community.

Excellent leadership is rewarded with prizes. It also enables individuals n interest in his project whether it be igs or chickens, and one who is making an effort to get acquainted with the other folks in his club. Some boys and girls have worked hard to fill up he ranks in club membership in their communities. They have been some of the club to reach higher achievement, and frequently a record that merits a prize. Who remembers the records of Dorothea Nielson, Rubie were some of our excellent leaders in recent years. Nielson last year.

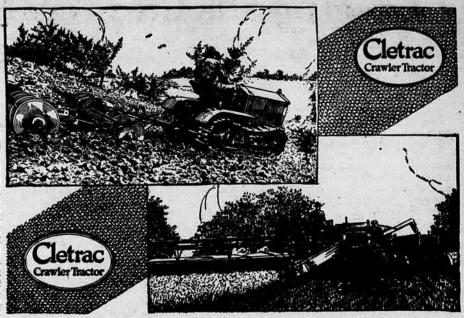
If it is decided that meetings are to

be held at the homes of members, each club family will have the club in its turn. This is best because then the whole family becomes interested, and club folks feel more free to talk at a friend's home than at a public place. Every club family should strive to place the local club in the lead for prizes. This assistance is due the club

Meetings are for the social side of club work. Too much time should not be given to a business session. Club bell backward about asking his help folks may discuss plans they are folbith their difficulties.

One of the first duties of the club and new ideas may be presented. It is
eader is to arrange for a get-acwell to have a talk by the county

he leader should act as president or a member, we decided to have a hairman of the meeting. Other offi- "wienie" roast at the home of one of the many be elected by the club mem- the boys. An uncle of this member was with us and he taught us a valuable lesson. We built a fire with small sticks, but they made a great deal of smoke and soon were burned out. We learned from this uncle that the best Another important duty falling on a bunch of glowing coals. So he placed le leader is aiding his associates to a large log on the fire, and we waited acquainted. His tactfulness will until it was burning well. Then we had lep to make folks feel "at home." The much heat and little smoke. Uncle Fred leader may call other meetings but it also taught us how to cut group sticks. adder may call other meetings, but it also taught us how to cut green sticks better to arrange for a meeting to fol- to hold the "dogs" over the fire. And, say, we had marshmallows toasted over this fire, too. After our lunch we went to the creek on a hunt for wild



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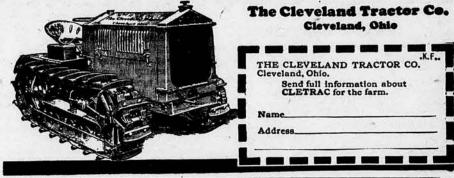
A NOTHER farm year lies ahead of you. Will you be satisfied with small profits — or are well you be satisfied with small profits - or are you determined to make this year the biggest paying season you have ever had!

Right now is the time to decide this question—and to find out definitely how CLETRAC can help you. Thousands of farmers and orchardists say CLETRAC is the finest farm power unit ever built - that it is a labor saver and a money-maker without equal — that it is a sure producer of bigger, better crops and larger farm incomes.

Note These CLETRAC Features

Here are a few of the outstanding advantages that CLETRAC offers you: Greater drawbar pull than any other tractor of equal weight. Light ground pressure that cannot pack the soil. Low build and short turning for work in close quarters. Proper distribution of weight for safe hill-side operation, up, down or across. "One-shot" oiling that does away with time-out for lubrication. Low gas and oil consumption that cuts costs to bed-rock.

These and numerous other CLETRAC features demand your careful study. Get all the facts now and give them thorough consideration. Mail the coupon - or write - for all the facts.



MAYBE YOU ARE BUYING NEW IMPLEMENTS OR EQUIPMENT THIS SEASON. Use the Farmers' Market Page to sell the old.

Capper Pig and Poultry Clubs Capper Building, Topeka, Kansas.

thereby make application for selection as one of the representatives of..........

...... county in the Capper

Write Pig or Poultry Club.)

If chosen as a representative of my county I will carefully follow all instructions concerning the club work and will comply with the contest rules. I promise to read inticles concerning club work in the Kansas Farmer and Mail & Breeze, and will make every effort to acquire information about care and feeding of my contest entry.

Age Limit: Boys 10 to 18; Girls, 10 to 18. Address-Capper Pig and Poultry Club Managers

Out This Coupon and Send it to Philip Ackerman, Capper Building, Topeka, Kan., and Get a Start for Profits in 1928

No. 25, mil	Tracto Chang	rsp	CEA
	chang	ing v	vith
	PICKE	RING	
	Go	vernors	1

Tractor speed can be increased or decreased while the motor is running—if the tractor is equipped with a Pickering Governor. That's because of the Pickering built-in Speed Changer. It means time and money saved when you change from one job to another.

The built-in Speed Changer is only one adyantage of a Pickering Governor on your tractor.

Others are steady, smooth power, elimination of engine racing, considerably reduced fuel bills.

Pickering Governors are built for Fordson, McCormick-Deering, Twin City, Hart-Parr and all other treatments. all other tractors.

Clip coupon for free pamphlet. It tells how Pickering Governors put pep and power into your tractor and take out wear and tear and expense.

e	job to another.
	THE PICKERING GOVERNOR CO., Portland, Conn.
	Send me free pamphlet 47F.
	Name
	Address
	Tractor
	Dealer's Name
	Address



Don't Be Fooled by New Schemes Crooks Use to Cover Up Their Crimes

AN OLD saying declares that you stock he was free to make his get-can't teach an old dog new tricks; away in such a manner as to make it but there is a record in the dis-difficult for the law to trace him. His trict court of Neosho county and evidence at the Kansas penitentiary at ceived fi Lansing that crooks can fix up their he stole. old tricks in a new dress.

J. C. Goyette, who is serving a seven-year sentence in the Kansas penitentiary for stealing cattle from a Kansas Farmer Protective Service member, dressed up his stealing activities. He



L. D. Wheeler, Kansas Farmer Representative in Neosho and Wilson Counties, and Thomas Cook at Whose Public Sale Goyette Tried to Work His Stealing Scheme

did such a good job of it that only the efficient and effective work of Sheriff C. E. Yockey and his associates in Neosho county prevented Goyette from being free now to continue hauling away livestock belonging to some hard working farmer.

Old Crime in a New Dress

Goyette's new dress for the old crime of stealing livestock was that of going to a public sale where he was not known, there bidding in a truck load of cattle, hogs or sheep, and giving the sale clerk a name not his own and a check written on a bank where he had no money deposited. After he had made settlement for his truck load of live-

Notify Officers Immediately

Members of the Norton County Poultry Growers' Protective Association who fail to report the theft of poultry to association of-ficers later than 48 hours after the theft has been discovered may not expect the help of the organization in attempting to locate the stolen property or the thief.

The ruling was made because in the past there have been cases of thefts not being reported for several days or even two or three weeks after their discovery. The association executives feel that if the poultry raiser fails to give proper co-operation the purpose

of the association is defeated. Every Kansas Farmer Protective Service member should re-port to his county sheriff all clues and information regarding a theft just as soon as it is dis-covered. The most thieves are caught when the theft is reported to the sheriff by a personal call or by telephone.

difficult for the law to trace him. His profits always amounted to all he received from the sale of the livestock

Before Goyette instituted his plan at public sales he made several pur-chases of livestock by issuing worthless checks. Allen county law officers have information that he bought hogs worth \$200 from a farmer in that county, for which he gave a worthless check. Goyette may be tried in the district court of Allen county when he finishes his seven-year term at Lans-ing. A similar case has been reported from Crawford county. Sheep were stolen by this plan in Neosho county.

Stealing Scheme Broke Down

At a public sale held last December by M. L. Tennis of near Chanute, Goyette inaugurated his plan. He bid in two Chester White sows, giving the name of C. A. Jones to the clerk and the auctioneer. Later, when the sale officials were busy in another section of the same lot, Goyette loaded the purchase made by C. A. Jones and purchase made by C. A. Jones and

made away with the hogs.

The last time Goyette worked his plan was January 17, at the public sale of Thomas Cook, who lives southeast of St. Paul. For the purchase of a heifer and two calves, B. B. Fitzsim-mons of St. Paul, who was clerk at Mr. Cook's sale, accepted a check made out on a Parsons bank and signed by Roy Clark. This check was protested and returned from the Parsons bank. Fitzsimmons then took the check to the office of Sheriff C. E. Yockey at Erie, where Deputy John Bivin identified the handwriting of the signa-ture as that of J. C. Goyette. Bivin was familiar with Goyette's handwrit-ing from having previously investi-gated worthless checks Goyette had written.

County Attorney Got Conviction

Mr. Cook and Mr. Fitzsimmons learned from Goyette where he had sold the stolen heifer and two calves. They went to the farmer to whom he sold for \$55 the cattle for which he had given a \$72 check, and made arrangements for the recovery of the animals.

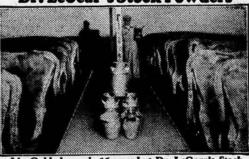
County Attorney Hugo T. Wedell spent nearly a week assembling the evidence against Goyette and filed a complaint sworn to by Thomas Cook, charging Goyette with grand larceny of cattle. Previously one or two cases against Goyette had been cleared up by money payment. However, County Attorney Wedell saw the unfairness of such settlement, and his determined and efficient efforts are responsible (Continued on Page 47)



J. C. Goyette Who Has Begun a Seven Year Sentence at the Kansas Penitentiary Working His Livestock Stealing Plan at the Thomas Cook Sale

"A BIG H

Dr. LeGear's Stock Powders



Dr.L.D.LeGear, V.S., in Surgeon's Robe Graduate Ontario Veterinary College, 1892, Veterinary practice for 36 years Poultry export, author, lecturer and au-

— GUARANTEE —
"Get any Dr. LeGear product
from your local dealer. Use it
all. If not sartified, return
empty container to dealer
and he will refund your
money."

Poultry Prescription-Mineral-ized Lice Powder Worm Pills Chick Diarrhoea Tablets Homes Tablets Homes Remedy

Eye Water Liniment Fly Chaser Screw Worm Killer West Point, Miss., Jan. 7, 1922, Dr. L. D. LeGear Medicine Co., St. Louis, Mo.

St. Louis, Mo.

I am engaged in the dairy business, and nothing has been of such a big help and wonderful benefit to me as Dr. LeGear's Stock Powden. I mixit with the feed. It keep more cows healthy, and they give more milk than ever, and I get a much higher test.

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milk than ever, and I get a much higher test.

Am milking sixteen Jerseys, by expect to add to my herd from time to time. My barn is concreted, he electric lights and other conveniences. I would never be without Dr. LeGear's Stock Powders, I the helped me to make a success of my business. Route 1, Box 8. A. W. Gable.

Read his letter

Dr. Le Gear's Stock Powders

MINERAL-IZED

HOUSANDS upon thousands of farmen A dairymen and stock raisers have used this old reliable prescription for the past 35 years. Get a pail or package from your dealer today, If you do not find that your cows give more and richer milk and your horses and mules do better work, return the empty container to your dealer and he will refund your money. Dr. LeGear's Stock Powders—Mineral-ized contains the proper minerals and ingredient needed in winter, which are lacking in winter feeds—TONICS to sharpen the appetite, aid digestion, purify the blood—LAXATIVES to correct bowel trouble—VERMIFUGES to expelworms—MINERALS for bone and blood.

WHITE DIARRHOEA—Protect your chicks against this deadly disease which kills millions annually. Save them with Dr. LeGear's Chick Diarrhoea Tablets. Get a can from your dealer. If not satisfied with results, your money will be refunded.

will be refunded.

EGGS—Dr. LeGear's Poultry Prescription-Mineralized, keeps hens healthy, vigorous and laying. Insures better fertility. Contains all the essential minerals for egg production, rich blood, bone tissues and feathers—tonics for blood, nerves and egg organs—conditioners for the digestive organs—laxatives for the bowels. Get a pail or package from your dealer. Use all. If not satisfied, your money will be refunded.

FREE: Dr. LeGear's Big Stock Book: "Care and Trattrations. A scientific treatise on diseases, treatment and care of horses, cattle, hogs, sheep and poultry. Ask your dealer for free copy, or send us 10 cents to cover mailing.

Dr. L. D. LeGear Medicine Co.; St. Louis, Mo.

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appree Bright on se to be

W



Rural Health

fillions of Dollars Have Been Wasted on Medicines Alleged to Cure Rheumatism

ake the liberty of using his letter as text for a health sermonette. M. D. aust put away the idea that there is lisease there was a remedy, and if they could match the name of the disease with the name on the bottle of atorium is \$14 a week medicines helped—for about two days medicines helped—for about two days helped—gor about two days helped—for about two days helped—for helped—for about two days helped—for about two days helped—for helped—for about two days helped—for o two weeks, depending on the degree of credulity possessed. After trying a dozen or so they would either be disgusted with all medicines or turn to quack doctor for "treatments."

The present generation is a little wiser. Take rheumatism, for instance. We'll say it is a collection of aches, pains and stiffness in the joints. Very well! What causes it? Poison! A poison hat we ourselves manufacture in some liseased organ. What organ? We do not know, but experience teaches us look at teeth, tonsils, nasal sinuses, ppendix and bowels, in the order maned. One man finds abscessed teeth. le has them extracted and his aches pains vanish. Another man has teeth but a frequent sore throat eninds him that he always has had little trouble with the tonsils. They re taken out and he is well. And I'll duit that I know persons who have ad teeth out, tonsils out, appendix out and practically everything out and till they are no better.

That, however, does not change the principle—it simply means that in the ase of that particular unfortunate here is an offending substance that remains hidden. It does not change the act that since we have quit taking rheumatism medicine," and begun to lok for causes the rheumatic patients in hospitals have decreased 60 per ent. Please note that I am not writng about acute inflammatory rheu-matism, which is a germ disease and another matter entirely. The point I wish to drive home for the benefit of M. D. and other oldtimers is that money spent for "rheumatism mediine' without finding out why you have rheumatism is money thrown have a special letter about theumatism" that I will send to sub-Kribers. It is not necessary to write me a long letter about your symptoms. ask for my rheumatism letter. and be sure to send a stamped and elf-addressed envelope for reply.

Operation is Not Needed

tain 40 years old and am advised to the an operation to remove the uterus ause it is in a bad position. Would it me any harm?

At 40 years old an operation that removed the uterus probably would bring on an early menopause tho the ctor might leave some ovarian tissue check it. There would be no possibility of pregnancy afterward. I think the mul-position of the uterus in your ase probably can be remedied without

But Do You Know?

18

Please advise what is the cause, effect at public auct to the for a continual discharge of al-the urine. S. R. W.

Continued albumen in the urine in preciable quantities usually means bright's disease. How do you know that it is albumen? The deposits that on see with the eye are more likely be mucous or a mineral precipitate.

Write to Doctor Kenney

My daughter has tuberculosis, the doc-lar say! took her to a specialist who whise a sanatorium. The least I can get be in for is \$27.50 a week. I am not able the off than up very long. Is she any bet-the off than at home?

Yes, I think a patient with tubercules, I think a patient with tubercu- A. (on another page)—4. Joan of better off at a sanatorium than Arc.—Toronto Daily Star.

 $A_{\mathrm{medicine}}^{\mathrm{GOOD}}$ friend who signs himself at home for several reasons. The chief M. D. requests the name of a one is that the sanatorium gives medicine company" in Chicago skilled supervision 24 hours a day. It one is that the sanatorium gives skilled supervision 24 hours a day. It won't do a thing for her that she hat sells rheumatism medicine. If I won't do a thing for her that she new of the "medicine company" about couldn't do at home, but the point is mew of the medical med would have too much company. would not stay persistently in the open wery form or rneumatism. Our fathers solute regularity. After a patient has a sted millions of dollars on patent been in the sanatorium a few months nedleines under that old delusion. she learns to appreciate the necessity lisease there was a remedy. other way. The rate at the State San-atorium is \$14 a week for those able to pay. Write to Superintendent C. S.



Mess of Junk

Dismal Patient-Yes, doctor, my head is like a lump of lead, my neck's as stiff as a drainpipe, my chest's like a furnace, and my muscles contract like bands of iron."

Doctor-"I'm not sure you shouldn't have gone to a hardware dealer."

When the Worm Turned

"Wife-"John, how could you speak so roughly to mother at the table? She was only telling you how to cut the

Hub (disgustedly) — "Those back-seat carvers make me tired!"

Protecting the Lizzies

County Policeman Grizzle requests us to state that all persons caught running a car under 16 years of age, or a person running a car drunk will be prosecuted.—Georgia paper.

Wet's the Word

Closest personal attention given to reservations on steamers for transat-lantic sailing and cruises to Wets Indies, Bermuda.—Ad in the Philadelphia Bulletin.

A Bitter Vendetta

May Martin bought over \$100 worth of hides of neighbors in 24 hours. No wonder when Bud Neal killed 12 in one day.-Lamar (Col.) skunks paper.

Whoppers!

Aunt Jane—"We'll, Ethel, I see you've landed a man at last." Angler's Daughter—"Yes, auntie, but you ought to see the ones that got away."

Coals of Fire

DEAD ROBBER BRINGS \$5,000 TO HIS SLAYER -Portland (Me.) paper.

Out Where Men Are Men

Being too lazy to milk and my wife having refused to milk any more I will sell all my extra good milk cows and some other stock and implements at public auction.—Handbill printed in

Warbling Birdman

Six hundred school children cheered Lindbergh Thursday as he entered one of the biggest public schools and sang the Mexican and American national anthems, "Old Folks at Home," "Old Black Joe," and Mexican folk-songs. Omaha Bee-News.

Watch Your Average

Q.-4. In what line of enterprise did James J. Hill make a vast fortune?



Makes 2-lb. Frys In 8 Weeks

56 Days, 2 Lbs. "I used only
START to FINISH
for my chicks.
This R. I. R. cockerel
weighed 2 lbs. at 8
weeks. When photo
was taken it was 5 mo.

old and weighed 612 lbs." Mrs. Tyler, Mo. 2 Weeks, 34 Lb. "My Red and W. Rock chicks 2 weeks old, weigh 4 lb. each. Used only START to FIN-ISH." J. H. Brain, Mo.

6 Weeks, 1½ Lbs. "Chicks 6 weeks old weigh over 12 lbs. each. Fed SLARI to FINISH only." C. E. Miller, Kans.

60 Days, 21/4 Lbs. "50 Red chicks 60 days old, ted only START to FINISH, average 24 lbs. each." Oscar Hoffman, Kans.

4 Month Pullets Lay Right Along "I have 4-month pul-lets, fed only START to FINISH and RED SPEAR Egg Mash, that lay right along." Chas Bergman, Mo.

"HIS famous "all-in-one" mash produces the utmost growth in the shortest time, reducing the feeding period between shell and maturity. That is why it is cheaper to use than home mixtures or inferior feeds. It builds flesh for the lowest cost per pound and gives you better profits.

START-FINISH

CHICK MASH

Minerals, Dried Buttermilk and Cod Liver Oil

Saves chicks. Stops death losses. Helps prevent white diarrhea, bowel trouble and leg weakness. Makes chicks live and thrive.

Starts Pullets Laying Weeks Earlier

Feed START to FINISH to your pullets until speak to fay—then put them on RED SPEAR Egg Mash. You will have vigorous pullets, laying regularly and heavily all next winter when eggs are high and profits large.

F. W. Bump, Oskaloosa, Ia., Says:—"My results have been splendid. It reduces losses and increases the growth of chicks, also the stamina and egg production of pullets."

Ask the Spear Brand Dealer



STARTS-GROWS-MATURES

DR. J. E. SALSBURY

Charles City, Iowa, SPECIALIST AND WRITER ON POULTRY DISEASES, Consultation by letter free.

The night the barn caught fire

SAME old story—the lantern upset and it cost me a pretty penny for a new barn. I carry a good flashlight now-a genuine Eveready. It gives me the kind of light I want and it's safe. I wouldn't leave the house at night without one.

I keep mine in prime condition with the same brand of batteries-genuine Eveready Batteries. I don't know anything that holds so doggoned much usefulness for its size. They're crammed full of pep and long-lasting power.

The flashlight habit's a good one on the farm. I've found it the best kind of fireinsurance.

The Rocky Mountain Transmission

Doubles the hauling capacity of your MODEL-T FORD TRUCK

and increases road speed

and increases road speed

Bring your truck up to date—make it
equal to the new trucks by equipping it
with a Rocky Mountain Transmission.
Now you can secure one at a real saving—about half of the former price.
The Rocky Mountain gives you 6 speeds
forward and 3 reverse—85% more power
and 25% higher gear ratio. It makes a
two-ton truck out of a one-ton job. The
gears are always in mesh, preventing
clashing and injury to gear teeth when
speed changes are made.

EASY TO INSTALL

A special worm coupling makes installation easy—no special tools are required— no brazing, welding or machine work. Original Ford 3-point suspension is main-tained. Freight prepaid when cash ac-companies order. Mail your order today.

Rocky Mountain Steel Products, Inc. 1358 Wall Street Los Angeles, Calif.



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Yeh, We're Still on the Trail!

But the Roads in Africa Are Not Like Those From Topeka to Kansas City

BY FRANCIS A. FLOOD

You'll have to ship your motor-cycles a few hundred miles by rail from Ilorin to Kaduna," the government officials in Lagos, West Africa, two motorcycles side by side, with our told Jim and me when we were planning our motorcycle trip across the Dark Continent. "There are no roads in that part of Nigeria at this time of year." And they were dead right about the roads. the roads.

But they were wrong about our having to ship the motorcycles, "No, we'll take 'em ourselves all the way from the Atlantic Ocean to the Red Sea if we have to pack 'em over the rivers on native canoes and push 'em thru the jungle and the desert sand ourselves," said Jim, who normally decides things entirely on impulse and then does the best he can afterward. We haven't reached the Red Sea yet, nor even the Nile River, but we've done all we expected to do already, and a good deal

In the jungleland about the Niger River in Equatorial West Africa, they have what the people there optimisti-cally call "dry season roads." This means that if you have good luck you may be able to make a trip over those roads during the proper season after the bridges are all built and before they wash out again. The difficulty is to find out just what day that "season" is.

By a "Head Carrier"

Since practically all of the freight traffic in that bush land is by head carrier and all the passenger traffic is by foot, there is little need for a permanent, all-year road-except for the fool boys who want to see whether it can be made by motorcycle. And if the road were guaranteed good in Nigeria, the boys would go to Timbuctoo or Siberia or some place else

where the roads were not good.
"Bad Roads," my traveling partner
on our Alaska and Klondike trip five years ago and on many others since, has always insisted that he detests a paved highway, but since we began this trek thru the black heart of Africa, thru the desert and jungle and bush, many times on no roads nor even cara-van trails but just somewhere "in Africa" I've heard him sigh for the paved streets of Khartoum in the Egyptian Sudan in East Africa. And when -and if-we get there, I'll be glad to

see 'em, too.
"Road closed, Ilorin to Jebba."
wired a missionary from whom Jim inquired, following his custom of deciding on a course of action and then searching for advice on the subject until he gets just the kind he wants. He failed this time. If a hundred residents had told him the road was closed and one had said it was possible, Jim would have ignored the hundred and depended on the one he wanted. But this time he couldn't find the one, so we just won't anyway.

A few miles north of Ilorin where the road was supposed to end—and did -the sudden tropical darkness settled over the jungle and we prepared for our first night in the bush.

"'Ware the Northern Nigeria rob-bers," and 'ware the snakes and all the

With a Big Machete!

Maybe it was the big lump of revolway the trivial the big timp of revolver (no, not money) under my head that kept me awake that whole night long. Or maybe it was the soft pattering of jungle noises shifting here and there and continually reminding me that it was night in the African "bush." Or perhaps it was the zipping jungle song of the myriads of mosquitoes, most of them outside our thin white netting which hung like a flag of truce between our bikes. Or perhaps it was our bed, made of three long poles with canvas stretched between, the ends resting on cases of gasoline, and the middle propped by our luggage under-

Perhaps it was the story told us two nights before by a British District Of-ficer of how the Northern Nigeria night robbers always work in pairs, one to steal the money while the other black savage stands stealthily at the head of the victim's bed with a raised machete ready to split his skull if he wakes too soon. Or perhaps it was the peaceful snoring of my partner Jim, who slept soundly thru it all! My, what he missed that night!

Early the next morning, a dozen peaceful natives cautiously stepped out into the little clearing where we had made our camp and "ohed"—and "ahed"—at the funny white men who handled their own baggage and pre-pared their own breakfast. That was all the effect our presence had on the "bad men of the North." And before our trip was over we learned to sleep on the ground in little grass huts in isolated villages or in lonely places in the bush or desert, without guns, and without thought of worry. A white man traveling in the African bush is far safer from robbery than he is in civilized America.

Then the Oshun River

Then the battle with the road began. No car or motorcycle had been thru for months—and I am sure none will be for some time to come. All of the bridges, and most of the roads as well, were spread over the Niger Val-ley and a new road was being built. We would clatter and stumble along over a stumpy, rocky trail and there, voila—a place where a bridge should be. Perhaps a perpendicular drop from the edge of the washout to the rocky river bed below with anywhere from no water at all to the depth of a tall negro's head, and then all we had to do was to get up on the other side.

Sometimes we'd chop out a road around, with our hatchet and machete, worry across the river somehow, and then lift the machines up on the other side. Sometimes we'd wait for the obliging natives to collect about the scene other things that lie in wait for the and, with a few well-distributed pen-



The Motorcycles Were Taken Across the River on Two Canoes That Were Tied Together

She Noticed a Suspicious Light

 An Advertisement of the American Telephone and Telegraph Company

ONE night a farmer's wife living near Elmer, New Jersey, noticed a suspicious light near her home. She suspected chicken thieves. Going to her telephone, she called the operator at Elmer. The operator notified a number of people attending a grange meeting there. A constable and posse went at once to the farm and caught the thief. He had nearly 3000 stolen chickens penned up near his place of residence. He was convicted and sent to prison.

The telephone serves the farmer in a thousand emergencies. Runs errands to town. Finds out when and where to sell at the best price. Brings the doctor in case of accident or sickness. Reaches the homes of relatives and friends. Pays for itself in money and convenience many times over.

The modern farm home has a telephone.



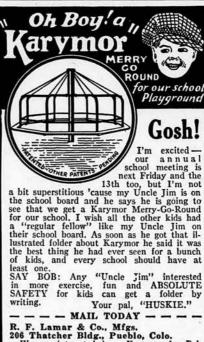


Seed Corn

13 leading varieties, high grade, hand selected. High germination. Phone or wire at our expense for prices.

GEO. T. FIELDING'S SONS,

Manhattan, Kan.



R. F. Lamar & Co., Mfgs. 206 Thatcher Bldg., Pueblo, Colo. We are interested in a Karymor for Bob and his buddies. Send folder to

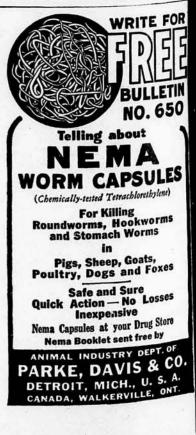
Your Position..... District No.....

Address.....

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You can find almost anything you need in the Classified Section. Poultry, Cattle, Honey, Dogs, Hogs, Lumber, Machinery,

Read the Classified Advertisements.



nies and words of encouragement, our black villagers would help us for miles. black villagers would help us for miles, But there weren't always these folk around, and then Jim and I, in the sweltering equatorial sun, would hack out our own rocky stairsteps down to the river bed, and then tug and push and practically lift our heavily loaded machines up the other side. If we couldn't splash thru the river under our roaring motive power we'd take off our shoes and socks and push 'em thru that way. thru that way.

finally we came to the Oshun River, 40 yards wide and 5 feet deep. It looked bad. We thought of inflating all our spare tires and tubes, tying them to the side cars and then using the side cars as boats to carry our bag-gage and motorcycles across. But before we had to try that stunt a dozen babbling blacks appeared with two lop-sided canoes hollowed out of a mahogany log. Their headman was a wizened old tarman with one ear off and the stub of one arm encased in a long piece of calabash that looked like a baseball bat. A doubtful dozen whiskers were rooted on either side of his chin, and, most of the time, he wore a piece of bright purple cloth about his withered loins.

Crew Couldn't Speak English

None of his crew could speak a word of English, nor therefore follow our addirections, which probably accounted is for the ultimate success of the underother side safely. Then the other machine and our baggage and gasoline and the expedition had crossed the Oshun River. It cost us about a dollar and about 3 hours' time-but we were

That was the hardest day of all up-to that time—and when we finally reached Jebba, on the banks of the mighty Niger River, which we hoped to cross on the railroad bridge, we were tired indeed. It was just dark; we'd eaten but little that day in our effort to reach Jebba before dark; and our supply of boiled water had given out long before. We weren't as hardened to roughing it then as we are now, and life looked dark. But just as we sighted the towering bridge at Jebba, the railroad supervisor, one of the only three white men in town, hailed us from his little round bush house and invited us in to dine, bathe, shave and sleep—all in the world that a man needs to make him good as new. Our experiences from Jebba on farther into the African interior will be described next week.

What Price Efficiency Now

(Continued from Page 21)

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reward disappears altogether. On the contrary, as every farmer knows, the advantage of improved methods is great to those who first adopt them, and does not become negligible until such methods are in practically uni-versal use. That situation arises very seldom. Efficient methods are practically never in force thruout the entire competitive field, and the opportunity to gain special profits by superior efficiency is present constantly. Efficient farming communities, like efficient individuals, have important advantages over their competitors.

Nevertheless, Ned Lud's problem, a very real one, persists. Increased efficiency, thru its effect on production and prices, lessens the number of farmers required. ers required to produce a given amount of food and fibers. This does not mean, however, that the less efficient farmd be callously told to get out of the farming business for their own good and that of the agricultural industry in general. It would mean that, of course, if the demand for farm proddets were destined never to increase. Fortunately that is not the case. In the United States we can count on a stendard states we can count ural steady increase in the agricultural market, not only thru the increase of population at home but also thru inelligent selling abroad. Consequently, that is necessary in order to cope with the effects of increasing general efficiency is to control the future man-ling of the agricultural industry, not hecessarily by forbidding expansion but also by discouraging unwise or unbecessary expansion.

In other words, it is less important to get surplus land and surplus men out of farming than it is to prevent additional surplus land and surplus men from being brought into the business our markets are expending so ness. Our markets are expanding so rapidly that demands will soon catch up with production, if production is not overestimated by premature "backto-the-land" movements. It is particularly desirable to discourage ambitious colonization and reclamation schemes, and to keep would-be farmers well-advised as to what they are tackling. Intelligent publicity as to the economic difficulties of farming probably would do more to hold undue expansion in check than any amount of legislation.

Remember that agitation for un-necessary farm expansion is ceaseless. Recently a bill was introduced in Congress to authorize the Secretary of the Interior to establish settlers on "swamp, cut-over, neglected, abandoned, or poor land" in certain of the Southern states —that is to say, on land that the com-mercial farmer rejects. Altho some of our reclamation projects are in dis-tress, new projects have been tenta-tively chosen. It is planned to extend the federal reclamation policy to humid areas in the South, with a program of drainage, clearing and soil restoration. These proposals fail to reckon suffi-ciently with the fact that American agriculture, thru increasing efficiency, expanding production fast enough.

After nearly a decade of struggle, our farmers are moving into a strong for the ultimate success of the under-taking. They lashed the two awkward crafts together with some bits of grass rope and then, with four men baling all the time, we rushed one motor-cycle down the almost perpendicular bank to the water edge, loaded it on the canoes and actually reached the they side safely. Then the other main scientific marketing. Increase of population is putting more of their business in a position to profit from the tariff. Price relationships between agriculture and industry are being slowly restored to an equitable basis thru the force of increased production and increased efficiency in manufacturing industries.

In a Strong Position

What is in preparation should bring tangible fruit to agriculture, provided there is no stampede back into farming at the first sign of reviving pros-perity. Thru painful steps the farmer has got his business into a position in which, to all appearances, it is no longer overexpanded or overmanned. He has paid the price, in necessary readjustments, of the increased efficiency that he has because about about a position in ciency that he has brought about, and is well situated to reap the appropriate reward. To get it he must continue forging ahead in efficiency, while do-ing everything possible to mitigate the heightened competition that efficiency produces.

Ten years of restraint on undue ex-pansion would work wonders. How to get such restraint is, of course, a prob-lem. In the United States it is traditional to regard agricultural expansion as necessary to progress, and we have not yet waked up to the fact that intensive development, thru increased mechanization and better crops and livestock, has made further extensive development temporarily superfluous. Much educational work among bankers, real estate men and legislators, as well as among farmers themselves, will be necessary to get the facts generally recognized that for a few decades restraint rather than promotion will pay the best returns. But it ought to be possible to get the idea across. Its propagandists should be the farmers themselves, who are unquestionably barking up the wrong tree when they blame increased efficiency for over-production. That is Ned Lud's Nine-teenth Century notion. This is the Twentieth Century.

Fertilizers From the Air

Chemical fixation of nitrogen derived from the air is an industrial process that has advanced rapidly in recent years. This infant industry is now producing synthetic nitrogen salts in such quantity that it supplies, it is estimated, at least one half, if not more of t e world's supply of inorganic nitrogen. Fifteen years ago much less than 10 per cent of the world's supply was derived from the air by chemical means. These comparatively new products are becoming more important, year by year, in the fertilizer industry.

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Farm Crops and Markets

Is This Going to Be a Good Season in Kansas for the Grain Crops?

THE winter wheat crop in Kansas continues to make excellent progress. Oats and barley also are doing well. This ought to be a fine season for the grain crops in Kansas if there is anything in the theory that a good start is helpful. Excellent progress has been made generally in preparing land for corn, and some fields have been planted in the southern part of the state. Spring pigs, calves, lambs and chicks are generally doing well.

A statement showing farmers' planting intentions for 1928 was issued recently by the crop reporting board. The following review of the intentions reports has been prepared by the staff of the bureau of agricultural economics, ning a cropping program for 1928 which, in general, corresponds to the outlook as analyzed by the Department of Agriculture in January, but for some crops changes from present intentions appear desirable.

As indicated by the intention-to-plant reports of some 50,000 farmers in March, they plan to grow an acreage of the main crops (not including cotton) a per cent weeks indicate that Kansas farmers may for some crops changes from present intentions appear desirable.

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As indicated by the intention-to-plant reports of some 50,000 farmers in March, they plan to grow an acreage of the main crops (not including cotton; 3 per cent larger than that harvested last year. With average yields, the total production from this acreage would be about the same as last year, when yields averaged better than usual.

Farmers plan a marked shift from hard spring wheat to other grains. Changes in the outlook, which have taken place since the January report was issued, indicate that this intended shift may be somewhat too great for maximum returns.

The combined acreage of the four principal feed grains, corn, oats, barley and grain sorghums, now planted is slightly higher than last year. If these intentions are carried out and average yields obtained, farmers who grow these crops for sale are likely to meet a less favorable market than that which has prevailed to date for the 1927 crops.

Folto growers are planning to plant an acreage almost 12 per cent larger than harvested last year despite the warning that any increase probably will result in ower returns.

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Potato growers are planning to plant an acreage almost 12 per cent larger than harvested last year despite the warning that any increase probably will result in dower returns.

Farmers report an intention to increase their corn acreage in 1928 nearly 3 per cent over the acreage harvested in 1927. The intended increase is general thruout the country, being 5.2 per cent in the North-Atlantic states, 1.9 per cent in the South Atlantic states, 1.7 per cent in the South Central states, 6.1 per cent in the South Central states, 8.1 per cent in the South Central states, 8.1 per cent in the far Western states, 8 should these intentions be carried out and average yields for the last five years be obtained in the different sections, a 2.750-million bushel crop would be produced, as compared with 2.786 million bushels in 1927, 2.692 in 1925 and a 10-year average of 2.826 million bushels. The consumption of corn to March 1, 1928, was greater than in the corresponding period in the preceding year. The farm disappearance from November 1, 1927, to March 1, 1928, was mane period in 1926-27. The stocks of corn on farms March 1 also were less this year than last, being 1,220 million bushels on March 1, 1928, compared with 1.741 million bushels during the same period in 1926-27. The stocks of corn on farms March 1 also were less this year than last, being 1,220 million bushels on March 1, 1928, compared with 1,134 million bushels last year. With an active macket demand now prevailing for corn, and the larger number of hogs on farms this year, it is likely that the tarryour of old corn on November 1 this year will be less than that of 113 million bushels November 1 1927.

The higher praces of corn this year, in comparison with a year ago, are largely the results of the abnormal geographic distribution of the smallest crops on record in the Eastern Corn Belt and a large crop in the Western Corn Belt and a large crop in the western Corn Belt and a large for pin the western Corn for sale in sections which were short of corn last year

Some Poor Seed Corn

Farmers in the United States as a whole have expressed an intention of reducing their tame hay acreage about 1.4 per cent from last year's large area. From which a record crop materially larger than domestic requirements was produced. About the same acreage as last year, is intended in the South Atlantic and Eastern states, but an increase of nearly 3 per cent is indicated in the South Central states, where production of local hay has not equaled local requirements. A reduction of about 2.5 per cent is reported for the North Atlantic and North Central states, where a large proportion of the timothy and timothy and clover mixed hay for market is produced. The large crop in this area last season, together with increased production in the Southern states, which materially

Wool Production in 1927

Wool Production in 1927

The tests ranged from a maximum of \$9.5 per cent down to a zero test. In the entire lot no sample had a perfect test, an unusual condition, Professor Zahnley said, Ordinarily a few samples grade 100 per cent.

He attributes the low test to late maturity of the corn crop last fall, followed by zero weather which struck the state early in December. Late planting, slow growth during prolonged rains in the spring and wet weather in the early fall left the ears of corn with a high moisture content as late as the zero weather of December. During this cold snap germs of the kernels were frozen and killed. It is this process which will cause Kansas farmers trouble unless seed corn is selected by test.

The State Seed Laboratory at Manhattan will test free of charge samples of corn or other field crops sent in. Samples should number at least 200 kernels, altho if twice this number are sent, a check test can be made if necessary.

A summary of seed corn tests available to date follows:

High test, 99.5 per cent; low, 0; average, 91; number above 95, 169; per cent above 95 per cent, 58.

It is the last figures which tell the story, Professor Zahnley said. Corn is considered good seed if it tests 95 per cent or be that, it means that nearly half the corn to be planted is poor seed, and trouble will follow before farmers get a satisfactory stand.

The total amount of wool shorn and pulled in the United States in 1927 was 328,137,000 pounds was shorn wool and 59,100,000 pounds was pulled wool, according to the estimated are applied with the standard are sent and the set of the United States in 1927 and 3.33 pounds in 1926. The estimated weight of pulled wool a skin was 3.24 pounds in 1927 and 3.33 pounds in 1927. The size of the early lamb crop in the principal early lambing states as a whole is estimated at about 8 per cent larger than last year. The condition of the crop is about average, but not so good as in 1927. Weather and feed conditions since than last year. The condition of the crop is abou

Direct Buying of Cattle Increases

Direct Buying of Cattle Increases

Increasing use of the system of direct buying of feeder cattle by Corn Belt feeders is reported by C. G. Randell, a United States Department of Agriculture economist connected with the Division of Co-operative Marketing. This has been brought about, Mr. Randell states, because a considerable number of ranchmen wish to sell their stock at home, and many feeders desire to buy their stock direct from the range.

Mr. Pandell say's that altho the auction method of marketing still prevails to a limited extent, it is almost entirely in the hands of the speculator, and it is doubtful if either the producer or feeder desires a return of the auction system.

There are advantages and disadvantages of direct buying as applied to feeder cattle, Mr. Randell says, but the disadvantages include the climination of terminal market expense, the arrival of animals at the feed yard in better physical condition, a gradual trend toward the elimination of speculation in livestock marketing, and a better appreciation on the part of both producer and feeder as to multual problems and interests.

Objections to the direct buying method include the difficulty of obtaining uniformity as to size and quality among animals purchased, greater shrinkage en route, greater opportunity for delay in transit, and the loss of identity of cattle in carlot movement.

Cattlemen with whom Mr. Randell has discussed the subject have mentioned the need for a standardization and grading program. They declare they can make their cattle good and uniform, provided they are rewarded for so doing, but no

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were not ready for market before this period.

Altho last year's contest produced 56 fewer ton-litters than were produced in 1925, this falling off, according to Doctor Love, is partly because of the fact that many farmers sold their hogs when prices because to drop in September. The fact that four of the leading hog-producing states are now giving more attention to the so-called pig crop contests than to tincle ton-litters is another factor responsible for the fewer ton-litters last year. If g crop contests are becoming popular as a natural follow-up of ton-litter work in improving pork production, and have for their objective the production of a maximum amount of pork from every sow in the herd.

Chick Remedies and Fakers

BY C. E. BUCHANAN Control Division, State Board of Agriculture

At this season farm wives and daughare busy setting the incubator, and
incubator, and incubato

cattleman can afford to buy hish-priced to the State Beard of Agriculture find half and the state seems of the state and the sta

Cherokee—Wet weather in the first part of March delayed field work, including oats seeding, somewhat. Wheat fields are greening up and the grass is starting to grow. Farm women are busy taking care of baby, chicks. Eggs, 22c; heavy hens, 18c; corn, 80c; mixed feed, \$1.80 a cwt; hay, \$12.—L.

Cloud—Cats seeding was delayed some-what by wet weather. Wheat is making a fine growth; alfalfa and grass also are do-ing well. Livestock in excellent condition, and there is plenty of feed.—W. H. Plumly.

Decatur—The soil contains plenty of mois-ture; we received 4 inches of snow recently on top of a fine rain. Good prices are being paid for livestock at the public sales. Corn, 74c; wheat, \$1.28; cream, 46c; eggs, 22c; hogs, \$7.25.—Marvin C. Bell.

Douglas—A great deal of Sweet clover was planted here this year, and also mixtures of Sweet clover and oats, and other combinations, for pasture. The weather has been fine for all kinds of spring work. Much interest is being shown in farm bureau club work.—Mrs. G. L. Glenn.

Elk—Grass and other vegetation.

Elk—Grass and other vegetation have made fine starts. Farmers are up with the season's work very well. Southern cattle are arriving to fill the pastures. Trees are in bloom; little chicks are arriving in great numbers.—D. W. Lockhart.

numbers.—D. W. Lockhart.

Finney.—The weather has been springlike; considerable moisture fell here recently, which was of great benefit to the wheat, oats and barley. Early wheat is doing very well; some of the late sown fields are spoted. A good many farmers have planted trees this year. Roads are in fairly good condition. A few public sales have been held recently, with fairly good prices. Livestock wintered well.—Dan A. Ohmes.

Jefferson—Oats are all sown, and many

wintered well.—Dan A. Ohmes.

Jefferson—Oats are all sown, and many farmers are planting Red clover. Cattle have been wintered very cheaply. Many farmers are selling shotes. Chicks are hatching very well. Jefferson let a contract recently for 44 miles of sand-gravel roads. Corn, 76c; eggs, 23c; whole milk sold on a butterfat basis, 59c.—W. H. Smurr.

Johnson—We have had very little rain recently; more moisture would be welcome. Potatoes and gardens have been planted, and much of the "garden stuff" is up. Oats sowing has been completed. Grading has been started on the road from De Soto to the Douglas county line. Hay is plentiful and cheap. Horses are advancing in price. Large numbers of chickens are being hatched. Eggs, 24c; butterfat, 47c; whole milk sold on a butterfat basis, 60c; apples, \$2; cottonseed meal, \$2.35 a cwt.—Mrs. Bertha Bell Whitelaw.

Labette—We have been having some fine

Bertha Bell Whitelaw.

Labette—We have been having some fine spring weather recently; oats fields are almost as green as the wheat fields. Labette county is making considerable progress in the building of chat roads, which are very popular with farmers, as they think such surfaces are easy on the feet of horses. The Kansas Farmer Protective Service has done a good deal to run the farm thieves out of this county. There is an increasing activity in the oil and gas fields. Early Ohio seed potatoes, \$3.40 for a sack of 2 bushels; Cobblers, \$3.90; eggs, 25c; cream, 50c.—J. N. McLane.

Marshall—Oats, wheat and pastures are

Marshall—Oats, wheat and pastures are making a fine growth. There is a good demand for work horses. Farm labor is plentiful. Roads are in excellent condition. Corn, 90c; wheat, \$1.20; oats, 60c; hogs,



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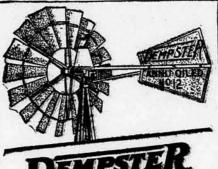
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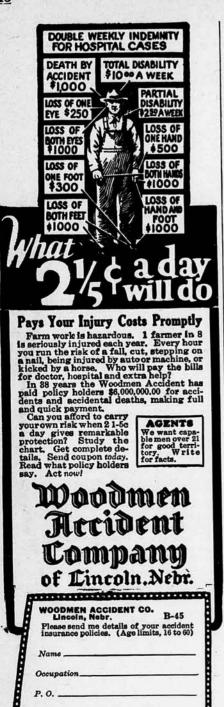


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shorts, \$1.85.—J. D. Stosz.

Neosho—The weather has been ideal recently for wheat and oats, and these crops have made a fine growth. A large acreage of flax was sown here this year. Excellent progress has been made in preparing the land for corn. Livestock is doing well; the animals will be on grass soon. The county commissioners have purchased two Caterpillar tractors for use on the roads; they believe the machines will save a great deal of labor. Wheat, \$1.15; corn, 80c; potatoes, \$1.65; hens, 20c; eggs, 23c; butterfat, 46c.—James D. McHenry.

Osage—Potatoes are all planted. Eighty

James D. McHenry.

Osage—Potatoes are all planted. Eighty per cent of the corn ground has been prepared by disking, and will be planted by single listing. Some folks plant their corn with a lister and then pack the land with a planter, unless rain comes within two days. All the cats are planted. Alfalfa and wheat are making an excellent growth. We have had no heavy rains for a long time—and don't need 'em. Very little corn is being sold. Cream, 46c; eggs, 22c.—H. L. Ferris.

old. Cream, 46c; eggs, 22c.—H. L. Ferris,
Warmer weather the wheat is doing well.
That on the river bottom land is doing fine;
that on the uplands is somewhat spotted.
Potato planting and garden making are the
main jobs. Some disking has been done for
corn. Wheat, \$1.35; corn, 75c; barley, 75c;
cream, 47c; eggs, 22c.—Roy F. Haworth.

Phillips—We have been having very springlike weather, and wheat is making a fine growth. Roads are in good condition. Farmers are optimistic over 1928, and are in high hopes of having a good season. Eggs, 22c; hens, 18c; hogs, \$8.—J. B. Hicks.

Republic—The last week has been ideal spring weather. Most of the oats are sown, and farmers are planting potatoes. Incubators are hatching; some farmers report poor hatches. Corn, 78c; wheat, \$1.10 to \$1.23; oats, 40c; eggs, 22c; butterfat, 48c.—Mrs. Chester Woodka.

Riley—We have been having some real spring weather recently. Wheat, oats and alfalfa fields are becoming green. Good progress is being made in preparing the corn land. Livestock is doing well. Farm labor is plentiful. Wheat, \$1.10; oats, 65c; corn, 75c; cream, 45c; eggs, 23c and 20c; hogs, \$8.10.—Ernest H. Richner.

hogs, \$8.10.—Ernest H. Richner.

Rush—We have an abundance of moisture for all spring crops, and the weather has been ideal. The oats and barley are practically all sown. Some ground is being prepared for corn and other spring crops. Wheat is making a rapid growth and is supplying some pasture. Livestock is doing well; there is plenty of rough feed. Wheat, \$1.40; eggs, 22c; butterfat, 46c.—William Crotinger.

Crotinger.

Russell—The soil contains ample moisture, and wheat is making a fine growth. High prices have ben paid at public sales. The acreage of oats is above normal. Roads are in bad condition. There is much interest in the oil development here. Wheat, \$1.35; corn, 75c; kafir, 70c; seed potatoes, \$2; barley, 70c; eggs, 22c; butterfat, 50c.—Mrs. M. Bushell.

-Wheat has made an excelwapaunsee—Wheat has made an excel-lent growth recently. Farmers are getting their corn ground ready for planting. Al-falfa is greening up nicely. Oats and pota-toes are all planted; some farmers are sow-ing Sweet clover. A good many folks are ill with the flu. Eggs, 22c; roosters, 12c; corn, 81c.—G. W. Hartner. Wabaunsee-

That Upward Trend in Stocks!

That Upward Trend in Stocks!

Despite the considerable distance which separates Kansas from the huge room where the New York Stock Exchange—the world's financial center—holds for much interest has been aroused of spirit of optimism that has been aroused the world's financial center—holds for much interest has been aroused the product of optimism that has been aroused the world's financial content of the last four weeks will have much to do the product of the last four weeks will have much to do the last four weeks will have much to a great later and the will influence the market for agricultural products.

But as one financial observer remarks, "these advances did not sell an additional radio set, make an additional automobile, provide an additional ton of freight for the railroads to carry, or give additional employment to another man." And yet, continues this same writer, "the mere fact that stocks of certain companies went up served to reassure a number of business men who had expressed doubt as to the reality of the claims for prosperity and were exercised concerning unemployment." And it seems to the Philadelphia Public Ledger that when the New York Stock Market was "sharing the front-page headlines with Abdul Aziz Ibn Saud, King of Hedjaz and Sultan of Neid, and other highly important people hither and yon," it was simply demonstrating "in a quite spectacular manner a new belief in the soundness of the economic foundations of the country." The first two weeks of advance in prices in March and the business outlook ever registent the third month of a Presidential Yar." On the other hand, there are plunction between business conditions and epculation as something which has been going on "in utter disregard of the fundamental conditions that must in the end govern real values—and therein lies its greatest and gravest menace." "In the ultimate analysis" worte Richard Spillane in his column in the New York Morning Telegraph during the height of the excitement, "overspeculation never bodes good for the market. T

ues now rest."

Pool movements doubtless had much to do with the advance in some securities, especially General Motors and Radio Corporation. W. S. Cousins, writing for the

\$7; eggs, 25c; cream, 47c; bran, \$1.60; King Features Syndicate, speaks for many shorts, \$1.85.—J. D. Stosz.

Neosho—The weather has been ideal recently for wheat and oats, and these crops have made a fine growth. A large acreage of flax was sown here this year. Excellent to leader."

King Features Syndicate, speaks for many financial writers when he says that "technical market conditions, rather than industrial and business developments, were doubtless responsible for the bulk of the sensational advances in the market's speculative leader."

less responsible for the bulk of the sensational advances in the market's speculative leader."

"An overconfident bear contingent figured too broadly on the slumping business in the first two months of the year, the increase in unemployment, the poor earnings reports for 1927, and, last but not least, the threatened cudgels over the backs of the bulls by the Reserve Bank heads.

"At last, said the bears, our time has come. Suiting their action to the word, they began in early February to "sell their heads off"—selling the stock they did not own, always a risky business when the sap is running up the trees, according to the sages of Wall Street.

"They sold entirely too much of such closely held stocks as Radio Corporation, International Nickel and other pool pets.

"They invited disaster by entering a condition which virtually permitted the bulls to name the price, at which they would be permitted to cover, and the bulls, flushed with their successes of the last four years and with overflowing coffers as the result of huge market profits made in stock ventures, went about their work coolly and deliberately."

But What Does It Mean?

But What Does It Mean?

Everybody must be asking the meaning of such a demonstration of Stock Market strength, writes Franklin K. Sprague, financial editor of The Herald Tribune. He leans to the conclusion that the market is not forecasting or reflecting anything in the business situation, but that it merely represents "the outlet of speculative enthusiasm created by an oversupply of money at easy rates." H. Parker Willis, editor of the New York Journal of Commerce, in a review of stock-market activities, hears that the change of front is attributed, "rightly or wrongly, to the expression of a desire by Washington political authorities that the situation should be "taken in hand," and the decline prevented from going any further:" "It may be taken for granted, of course, that the authorities at Washington would do what they could to check and hold up the tendency to a slump in the market, since undoubtedly one of the principal appeals to be made in the coming campaign will be founded on the prosperity thru which the country has supposedly been passing. It is the opinion of not a few politicians that this prosperity is best reflected in high and rising prices for stocks—a point of view which has often been set forth at the Treasury Department, Be this as it may, the psychology of the autumn Presidential campaign undoubtedly calls for resistance to depressing tendencies, and precisely that kind of resistance has been furnished by those who have sought during the last week to push prices upward." It seems obvious to Charles F. Speare of the Consolidated Press "that the market could not have attained its present proportions or have advanced so sensationally without the tacit consent of those who, a month ago, were using their best efforts to keep it from rising. Its entire complexion has changed since the Governor of the Federal Reserve Board stated it to be his belief that brokers' loans were not dangerously high." There is another vague influence that Mr. Speare thinks "deserves consideration in an analysis of th

Not a Barometer Now?

Not a Barometer Now?

As clearly reflecting the prevailing view in Wall Street. The Commercial and Financial Chronicle quotes from The Wall Street News these paragraphs in an article entitled "The Stock Market Refuses the Role of Barometer:"

"For many years the stock market has been looked upon as being a perfect barometer of business, and its recent refusal to reflect these conditions has led to the belief that a new order of things is in the making. It is suggested that the answer might be found that business on the exchanges of the country is becoming an institution in itself where the unbounded wealth of the country finds scope for its activity, and where greater rewards than those realized in many commercial lines may be had. In this connection it might be pointed out that some months ago Charles M. Schwab stated that many of the steel manufacturers would have realized a greater return on their invested capital had it been placed in gilt-edged securities instead of being used to produce steel products to be sold at unsatisfactory prices.

"While in some instances the market has taken cognizance of unfavorable returns accruing to manufacturing corporations, its price trend as a whole has moved independently of things not to its liking. It would seem that it has its own supply and demand, its own funds, its own credits, its own methods and its own public. Truly a business entity in itself. It may be that the long run market prices of securities represent and that with trade poor or declining, earnings and profits of the properties which the securities be correspondingly reduced. A speculation for higher prices that is not firmly buttressed on business activity and business prosperity, rests on foundations of unkness and Radio Corporation. Radio Corporation has been plowing earnings back into the business; the common stock, upon which no dividends have ever been paid, is earning about \$6 a share. It is stated that the strength of General Motors has been based partly on the publication of an extremely favorab

Had Lost Pigs for 9 Years; NOW-he saves them all.



Hog Raiser Tells of Easy Method That Avoids Pig Losses

Shan K. Wilson, a hog raiser of 9 years' experience, writes:
"I have been feeding hogs for nine years and last summer, when I began using 3rd Degree Liquid Hog Concentrate, was the Degree Liquid Hog Concentrate, was the first time in the nine years that I did not lose a hog. When I started to use 3rd Degree, I noticed an improvement in the herd in 4 or 5 days. It keeps the hogs free of worms, makes them gain in pounds, keeps sows from eating pigs and just naturally makes a hog finer and better look. ing. It is better than anything I have ever used and I get quicker and better results. It has put gains on two runts I had so

It has put gains on two runts I had so fast that they are nearly as large as the others, now."

Many other users tell of the same, splendid success with 3rd Degree Liquid Hog Concentrate—straightening up sick pigs, making fast-growing hogs out of unthrifty poor-doing pigs—getting them unthrifty, poor-doing pigs—getting them up to 250 lbs. in 6 months in time for the early, high price market.

Your Pigs Need These Benefits:

 WORM DESTROYER, Rids your herd of many kinds of worms that impair the hog's vitality and lower his resistance the hog's vitality and lower his resistance to disease. Free 50-page book explains news facts about "true worm-destroying" and "worm-expelling."

2. DIGESTIVE CONDITIONER. Keeps the digestive organs in good condition. Tones the system. Aids in the essimilation of feed.

assimilation of feed. Helps in the process of turning feed into weight.. Assists in avoiding costly dis-

GLAND FUNC-TIONER. Improves the functioning of the important glands that determine growth. Promotes better gland secre-tion and gives rapid development, strong bone and large frame. Helps build 250-lb. hogs in 6 months.

Concentrate

NOW, there's

3 rd Degree
Concentrate for
poultry too. It
destroys various
poultry worms,
assists the
glands to function properly,
tones and conditions the fowl's
system. Chicks
and woung birds. system. Cr and young b when kept healthy, grow faster and ma-ture earlier. They begin to lay earlier.

It is the original 3-purpose liquid hog concentrate. Formula is protected by U. S. patents and cannot be used by others. Produced by the largest manufacturers of liquid hog remedies in the world.

Write for FREE 50-Page Book

Get your copy of new, free, illustrated book containing secrets of profitable hog raising. Contains symptoms, causes and treatment for sick hogs. Be sure to get your copy if you are having trouble with your pigs. Why risk losing a large part of your herd when free book offers relief? Write your name and address plainly, stating number and age of your pigs. Address DROVERS VETERINARY UNION, Dept. Address E22, Omaha, Neb.



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sending your Order Now! Order Special Club No. F-150 CAPPER'S FARMER, Topeka, Kan.

of the fed cattle now reaching the estare still uncovering a decent of profit, since current arrivals into the most part, cattle that the fed cattle now the fed cattle that the fed cattl

Company a embeddary, wear burging the charter of the company as embeddary, wear burging the charter of the company and the charter of the

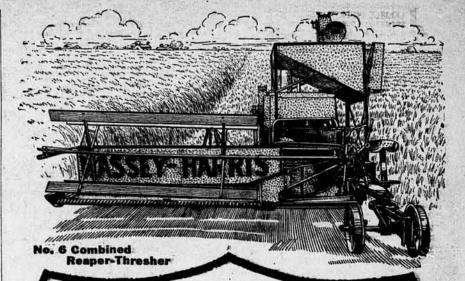
Protective Service

(Continued from Page 40)

for Goyette now being in the penitentiary. District Judge S. Brown sentenced Goyette, who is 45 years old, to not more than seven years in prison. This sentence from Judge Brown is the second to the state penitentiary for Goyette. Once before he was sentenced to five years in prison for breaking into a box car

Report Thefts to Sheriff

The help that was obtained from Sheriff Yockey's office in the arrest and conviction of Goyette is a very good example of why it is best for Protective Service members to notify their sheriff as soon as the work of some thief is noticed. In this case Sheriff Yockey's office was familiar with Goyette's handwriting from previous worthless checks which he had written, and in the case of other thieves the sheriff's office likely will have information available that will lead to the arrest of the thief. Law officers generally are doing a mighty good job in Kansas, but their work cannot be as effective as possible un-less they are notified by the property owner as soon as a theft is discovered.



Saves More Grain Delivers a Cleaner Sample Earns Larger Profits

HESE are three very good reasons why you should own a MASSEY-HARRIS Combined Reaper-Thresher. The MASSEY-HARRIS Combine has been steadily perfected through a quarter century of farm machinery building.

Gently Rubs Out All the Grain as you would in the palms of your hands

THE CORRUGATED BAR CYLINDER rubs out all the grain without breaking any of it. The main gears run in oil baths. Effective Oiling System assures perfect lubrication. Pur-O-lator keeps the oil in condition and prolongs life of the machine. SKF and self-aligning Bearings are used at all vital points to reduce friction. High-grade Buda Motor, especially built for Reaper-Thresher work supplies ample power.

Write for new free Folders on Reaper-Threshers They will give you some interesting and valuable information

The Complete MASSEY-HARRIS line includes: Mowers, Reapers, Wagons, Grain Binders, Corn Binders, Dump Rakes, Hay Tedders, Side Rakes, Disc Harrows, Soil Pulverizers, Hay Loaders, Cultivators, Manure Spreaders, Harrows, Headers, Pump Jacks, Ensilage Cutters, Reaper-Threshers, Cream Separators, Grain Drills.

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> Stocks Maintained at ManyWestern Points



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"I Read Your Advertisement In Kansas Farmer"—

That's what you should say when writing to advertisers. It gets quick action for you and also helps KANSAS FARMER.



Sure Gets the Business

Lyndon, Kansas Please discontinue my sweet clover seed ad as I am just about cleaned out. These Mail and Breeze ads sure get the business. Lyndon Shipping Association, N. B. Green.





White Diarrhea

Splendid Success of Mrs. Ethel Rhoades in Preventing White Diarrhea

Mrs. Rhoades' letter will no doubt be of utmost interest to poultry raisers who have had serious losses from White Diarrhea. We will let Mrs. Rhoades tell it in her own words:

'Dear Sir: I see reports of so many losing their little chicks with White Diarrhea, so thought I would tell my experience. My first incubator chicks when but a few days old, began to die by the dozens with White Diarrhea. I tried different remedies and was about discouraged with the chicken business. Finally, I sent to the Walker Remedy Co., Dept. 48, Waterloo, Ia., for a \$1.00 box of their Walko White Diarrhea Remedy. It's just the only thing for this terrible disease. We 700 thrifty, healthy chicks and never lost a single chick after the first dose."-Mrs. Ethel Rhoades, Shenandoah, Iowa.

Cause of White Diarrhea

White Diarrhea is caused by microscopic organisms which multiply with great rapidity in the intestines of diseased birds and enormous numbers are discharged with the droppings. Readers are warned to beware of White Diarrhea. Don't wait until it kills half your chicks. Take the "stitch in time that saves nine." Remember, there is scarcely a hatch without some infected chicks. Don't let these few infect your entire flock. Prevent it. Give Walko in all drinking water for the first two weeks and you won't lose one chick where you lost hundreds before. These letters prove it:

Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and I never lost a single chick from White Diarrhea. Walko not only prevents White Diarrhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

Never Lost One After First Dose

Mrs. C. M. Bradshaw writes: "I used to lose a great many chicks from White Diarrhea, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 48, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick after giving the medicine and my chickens are larger and healthier than ever before. I have found this company thoroly reliable and always get the remedy by return mail."—Mrs. C. M. Bradshaw, Beaconsfield, Iowa.

You Run No Risk

We will send Walko White Diarrhea Remedy entirely at our risk—postage prepaid—so you can see for yourself what a wonder-working remedy it is for White Diarrhea in baby chicks. So you can prove—as thou-sands have proven—that it will stop your losses and double, treble, even quadruple your profits. Send 50c for package of Walko (or \$1.00 for extra large box)—give it in all drinking water and watch results. You'll find you won't lose one chick where you lost dozens before. It's a positive fact. You run no risk. We guarantee to refund your money promptly if you don't find it the greatest little chick saver you ever used. The Pioneer National Bank, the oldest and strongest bank in Iowa, stands back of our guarantee.

WALKER REMEDY CO., Dept. 48,
Waterloo, Iowa
Send me the [] 50c regular size (or
[] \$1 economical large size) package of
Walko White Diarrhea Remedy to try at
your risk. Send it on your positive guarantee to promptly refund my money if not
satisfied in every way. I am enclosing 50c
(or \$1.00). (P. O. money order, check or
currency acceptable.)

Name	٠				•			٠		•	•	•	•	•	•	

Mark (X) in square indicating size package wanted. Large package contains about two and one-third times as much as small.

Always War on Poultry Ills

Disease Lurks Around the Corner to Destroy All Profits If One Is Not Careful

BY HAZEN C. ROSS

first installment of this article. It mash. dealt with such poultry ills as cholera, GOI diseases of the respiratory tracts and colds. In this issue he takes up the remainder of the most common ailments.

The two articles combined in one reprint will be sent free to anyone interested. Merely address the Poultry Editor, Kansas Farmer, Topeka, Kan., enclosing a 2-cent stamp for postage.

ROUP - There are four kinds of roup: Diphtheria roup, contagious roup, canker roup and chicken pox.

Symptoms-By opening the beak of the fowl you will note a very foul odor.

DIPHTHERIA ROUP - Diphtheria roup is about the same as diphtheria in human beings. It affects the lungs and windpipe. Lumpy substances will form in the wind pipe. Birds will gasp for breath.

Treatment-Use 15 per cent solution of argyrol. Dip a feather in this solution and force down the wind pipe Give a quick turn and pull it out.

CONTAGIOUS ROUP-Neglected colds will turn into contagious roup. It is not profitable to treat this kind of roup only in cases of high priced birds, as it will spread very quickly.

Treatment—Put 10 per cent solution of argyrol in the eye. Massage with mentholatum over the eyes and on the head. Remove infected birds from the

CANKER ROUP-It is very infectious and spreads quickly. Look over the birds often. The canker will form in the mouth.

Treatment—Iodine and styptic pencil. CHICKEN POX—Head raw and sore. Will scab over. Chicken pox is accompanied by wart-like growths that go down into the flesh.

Treatment-Scrape off scabs and paint with iodine.

ASPERGILLALES OR BROODER PHENOMENA-Mouldy litter or mouldy feed will cause this disease.

External symptoms - Chicks will have leg weakness. This will affect the chicks until about 6 weeks old. For post mortem split the windpipe open and you will find mould growing in it.

Treatment-Clear litter and feed Keep the chicks warm.

PIP-Pip is caused from roup; the birds will breathe thru the mouth and their tongues will be very dry.

Treatment—Open up the nostrils, put mentholatum or some salve on the tongue to soften it.

CROP BOUND—Is an impaction of food or some other object in the stomach. Lack of water will cause this. The crop will be very much enlarged,

Treatment-For light cases massage the crop and give 1 teaspoonful of castor oil, for the adult. For cases more severe make an incision in the crop and remove the obstruction; sew up the incision with silk thread and feed mash or some light feed until it has fully healed.

GASTRITIS (BABY CHICKS) -Chicks will refuse to eat, gasp for breath and will throw off white mucous at the mouth. Cause of the disease is feeding sweet milk and changing to sour milk or vice versa.

Treatment—One pound of common baking soda to 1 gallon of water. Leave this before the chicks for an hour only; then feed all sour or all sweet milk.

PERITONITIS-Peritonitis is caused by an infection around the abdominal cavity. In post mortem the abdominal cavity will be filled with fluid. Liver will be enlarged and hemorrhaged. The intestines also will be hemorrhaged.

FOWL PESTS-Very infectious disease resembles cholera.

External symptoms-Loss of appetite. Bird will isolate itself and will be unsteady on its feet. In post mortem the liver, heart and spleen will be enlarged and hemorrhaged. Intestines will be filled with mucous and enlarged. The nasal cavity will throw off a bloody mucous. Throat and windpipe will be filled with mucous.

Treatment-Give bichloride of mercury for eight days in drinking water.

WO weeks ago, Mr. Ross, who On the sixth day give 1 teaspoonful lives at Junction City, wrote the of salts to each bird, mixed in wet

GOING LIGHT-Birds will stagger will sit around with eyes closed; will form a greenish scale around the head and possibly the rest of the body. In post mortem the intestines will have canker sores and whole inside of body will be diseased.

DISEASED LIVER-Disease of the liver is caused by overfeeding of carbo hydrates. Fat will form on the liver. abdominal cavity and intestines; will infect heavy birds more than light

Treatment—Correct your ration.

OBSTRUCTION OF OVIDUCT-art of the oviduct will be closed.

Treatment-Open with the finger or some other object.

RUPTURE OF THE OVIDUCT-Will be caused by a broken egg in the oviduct, which will cause an infection to set in.

TUMOR (INTESTINAL)-These are caused by some organic matter in the intestines. The bird may swallow a small nail or stone and the tumor will form around the object.

BUMBLE FOOT-It is an abscess on the fleshy part of the foot and is caused by bruises. Roosts too high from the floor will also cause this.

Treatment - Make a large incision and disinfect with iodine and vaseline for three or four days.

GOUT-Gout is caused by too much protein in ration.

Symptoms—The bird will be swollen in the hock joints; this probably will

contain water.

Treatment—Correct ration and treat same as bumble foot.

LEG WEAKNESS OR PARALYSIS -It is most common in baby chicks and young birds and is caused from not having enough sunlight and lack of mineral matter in feed. Always feed bonemeal. Moving chicks from dirt floor to cement floor will also cause leg weakness.

VERTIGO OR LIMBER NECK-The bird will try to step on its head; loses all control of its neck. This is caused by eating decayed vegetable matter or animal matter.

Treatment-Five grains of calomel or 2 teaspoonsful of castor oil.

HEMORRHAGE OF THE BRAIN-Will affect heavy breeds in hot summer months. Trapnests will cause hemorrhage of the brain.

EPILEPSY-This affects the spinal cord; it is not infectious. No treat-

POLYNEURITIS—Caused by damp old or drafts in house; neck will be stiff and curved. No treatment.

GANGRENE (WET)-Affects bird's feet. Caused from frozen toes; it will turn foot green and secretes pungent

GANGRENE (DRY)—Foot will be reen; will have scales. Sometimes will affect caponized birds if a disinfectant is not used.

Treatment-Kill all affected birds; gangrene is very infectious.

FROZEN COMBS OR WATTLESse carbonated vaseline and remove birds to a warm place.

INTERNAL PARASITES - Consists of four kinds of worms; round worms which measure from 1 to 4 inches long, large or small fowls and absor the food that the birds should get; and tape worms jointed. You also will find the hair worm which is not injurious to fowls.

Treatment-Clean yard and houses: disinfect and move birds to another yard if possible. Use 1 pound of Granger Twist tobacco. Will treat 500 birds. Starve the birds one day before feeding this tobacco mixed in a wet mash. Give the birds all they will clean up in 20 minutes, the next day make a wet mash consisting of a teaspoonful of salts to each bird and feed this; if the first treatment does not get all the worms you should repeat the treatment in a week.



\$500 in CASH prizes will be paid for the best letters on "The one biggest reason why Jenny Wren (ready-mixed flour) appeals to me." JENNY WREN FLOUR is a short

cut to better baking. All the dry ingredients are ready mixed in it according to proper proportions. Jenny Wren saves time, temper and worry -and it is healthful too!

THE PRIZES ARE: 1st prize-\$100; 2nd prize—\$75; 3rd prize—\$50; 4th prize—\$25; 5th prize—\$15; 6th prize—\$10. Also ten prizes of \$5 each; 20 prizes, \$2.50 cach; and 125 prizes, \$1 each—Total \$500.

CONTEST RULES: Anybody, anywhere may compete Submit as

anywhere, may compete. Submit as many letters as you wish. Each with name and address of your grocer. Those tying will receive full award. You need not buy Jenny Wren to be eligible. Letters must be postmarked before midnight, April 30, 1928. Address Contest Editor, Dept. KF, Jenny Wren Co., Lawrence, Kansas.

Tune in on W-R-E-N. 1180 kilocycles— 254.1 meters—for Jenny Wren Cooking School, 10:45 a. m., Central Standard Time. Entertainment programs (Blue Network) afternoon and evening.

Jenny Wren Ready-Mixed FLOUR





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Famous everywhere for more and better bales. Patent roller folder, easy feeding simple and strong construction. Ask your dealer or write for full information. Birdsell Mfg. Co., Kansas City, Mo.



Honey From Your Bees a week.

GAPE WORMS—Gape worms are

Depends on how you house them. Our new descriptive catalog will aid you. Good beekeeping helps—corred equipment. Your copy FREE. Address DADANT & SONS, BOX K., HAMILTON, ILL. pipe. birds hair: wet g chicks weeks

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801 ma very injurious to baby chicks and young stock. Worms are found in the wind-pipe. They are Y shaped and the

stock. Worms are found in the windpipe. They are Y shaped and the
birds will gape.
Treatment—Apply argyrol with a
feather in the throat; sometimes you
can remove the worms with a horse
hair; do not let young chicks run on
hair; do not let young chicks run on
hair; do not let young chicks run on
there. Very infectious and will cause
chicks to die.

WHITE DIARRHEA—This is a bacWHITE DIARRHEA—This is a bacWHITE DIARRHEA—This is a bacwith the story infectious It.

WHITE DIARRHEA—This is a bacteria disease and is very infectious. It affects the chicks from 5 days to 3 weeks old.

- Affected chicks Symptoms stand in a stupid manner and isolate themselves; they will eat little or no food, and will utter shrill cries of pain.

CHICKEN LICE-Do not have lungs and breathe thru pores; female lays its eggs on the down or feathers of the birds; it takes the eggs from two weeks to 18 days to hatch. Chicks will not grow and many of them will die. Lice affect the older birds by cutting egg production and if they are bad they will stop production altogether.

Treatment—Use louse powder, the dip method, ointment or salve. Powder is easiest to apply and is most effec-tive. Use sodium fluoride. Another good preparation: Mix 1 quart gasois cassest to apply and is allowed it.

It. Use sodium fluoride. Another good preparation: Mix 1 quart gasoline or kerosene with 4 ounces of crude carbolic acid. Mix with enough plaster of Paris so it will crumble and dry.

After drying, powder the mixture and its description of the under should be wiped with a damp cloth before each milking, using a disinfectant solution in the water. after drying, powder the mixture and apply around the fluff and put a small amount under the wings. The dip apply around the fluff and put a small amount under the wings. The dip method is not practical as birds will catch cold in the winter. The ointment method is very good for baby chicks; lard and blue ointment can be used on lard and blue ointment can be used on large birds.

RED MITES-Red mites only bother chickens at night and will hide in the cracks and under the roost in the day time.

Treatment—Paint roosts and dropping boards in April with creosote paint. If you spray your house spray again in about eight days after the first spraying. This will kill all mite Make your spray or paint solution of kerosene, creosote and crank case oil.

birds: the mites crawl in under the scales on the legs and irritation fol-

in kerosene and be careful not to get the kerosene on the feather portion.

on th feathers, affect the head and neck. Feathers will come out of the affected places.

Treatment-Same as for ordinary chicken lice.

CHIGGERS, FLEAS AND TICKS-Treat same as for chicken lice. Not as injurious as lice.

Milk, the Ideal Human Food

(Continued from Page 37)

Extreme care should be taken to provide a pure water supply, not only for drinking purposes but also for the Washing of dairy utensils and bottles.
A contaminated water supply in a Kansas dairy some years ago was the cause of an epidemic of more than 114 cases of typhoid.

Frank has summarized the occur-rence of milk borne disease epidemics in the United States as follows:

Typhoid favor	1918 1923 87	1924	1925 31
Typhoid and paratyphoid fever fever Scarlet fever Diphtheria Septic sore throat Dysentery Total number of	0 16 4 4 1	38 5 1 1 2	2 6 1 4 0
Outbreaks Total number of out- breaks a year		44	44

In all of the 44 epidemics listed in supply.

10.0000			
Typhoid fever	No. of Epidemics	Total Cases 580	
Septie Sore threat	2	37	4
Septic sore throat .	6	972	5
Searlet fever	4	136	3
	1	14	1
Total	77	1739	5.6

maining number was not given.

Important characteristics of a milk borne epidemic are:

7. Multiple cases in one house occur sim-ultaneously.

8. Clinically the attacks of the disease are often mild. Contact infectivity is re-duced and the mortality rate is lower than usual.

A summary of total cases of typhoid fever in 1925 in Kansas is next presented.

		940		
	Case	Death		
Total cases milk borne epidemics	81.2	101		
Parsons	15	1		
Lyndon	. 10	ō		
Coffeyville	97	1		
Hutchinson	10	5		
		1		
Independence	. *			

The following suggestions will aid in insuring a clean and wholesome milk supply.

The Cows

1. Frequent examinations by a skilled veterinarian.
2. Tuberculin testing and elimination of

8. Dairy cattle should be kept in a stable used only for that purpose. Stable should be light and dry, but adequate ventilation provided. Flies may be eliminated by screening, darkening the stable and keeping it clean. All animals and fowls should be excluded from the dairy barn.

9. Floors, walls and ceilings should be tight. Walls and ceilings should be from dirt and cobwebs and whitewashed.

10. Manure should be removed following each use of the barn, the floors washed, and adequate quantities of lime used.

11. Feed no dry, dusty feed just previous to milking.

The Milk House

ion of kerosene, creosote and crank ase oil.

SCALY LEG MITES—Affect adult irds: the mites crawl in under the cales on the legs and irritation follows.

Treatment—Dip the legs of the birds in kerosene and be careful not to get he kerosene on the feather portion.

DEPLUMING MITES—Work only on th feathers, affect the head and neck. Feathers will come out of the

The Milker Employes

17. Small top milk pails only should be

used.

18. At least two negative stool examinations should be required from every dairy employe to determine that he is not a typhoid fever carrier.

19. Each dairy employe should have a physical examination at least once a year, to determine his freedom from contagious disease and such additional examinations as are necessary.

20. The milker and other employes should wear clean outer garments.

are necessary.

20. The milker and other employes should wear clean outer garments.

21. Hands should be washed before miking is begun, and washed between each milking and thoroly dried.

22. Wet milking should be prohibited.

23. Commence milking at the same hour each morning and evening and milk cows in same order.

24. If any part of the milk is bloody, stringy or unnatural in appearance reject all of it and thoroly sterilize the bucket before using again.

25. Weigh and record the milk of each cow. If the feed is also weighed, it is easily determined whether a cow is of value to the dairyman.

26. Do not mix warm milk with that which has been cooled.

27. Do not allow milk to freeze.

28. During warm weather milk should be iced during delivery and kept at a temperature of 50 degrees or under.

29. The shorter time between the production of milk and its delivery and use, the better the quality of the milk.

It is possible to produce clean, pure

It is possible to produce clean, pure milk, but the dairyman and his em-ployes must be intelligent and observe the greatest care. It is easier to produce pure milk than an unwholesome

In all of the 44 epidemics listed in 1925 raw milk was used with one exception—one typhoid fever epidemic in Coffeyville, Kan., resulting in 27 cases, followed the use of pasteurized milk.

A further study of the 1925 epidemics show the following interesting data:

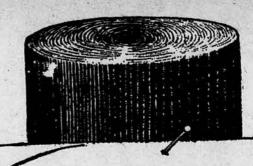
supply.

The guarantee of a pure milk supply also increases the income of the progressive dairyman, for he may demand and receive a premium over the ordinary data: ceive a premium over the ordinary quality, the purity of which may be

Our Best Three Offers

questioned.

One old subscriber and one new sub-The source of six of the typhoid epidemics was given as a carrier, four cepidemics an active case was the yearly subscriptions, if sent together, can get The scriber was given as a carrier, four one year for \$1.50. A club of three yearly subscriptions, if sent together, source, while the origination of the remaining number was not given tion, \$2.-Advertisement.



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Every advertisement in this paper is a buying guide to better value. Read all the advertisements - big and little. Make it a habit. If there is not sufficient information in the advertisement itself upon which to base judgment, write to

the advertiser for his printed matter.

If you have a definite problem that the advertiser should be able to help you solve, assuming of course that your prob-lem touches the goods he manufactures, write to him for specific information. Tell him that you saw his advertisement in this publication and you will receive prompt and courteous attention.

The advertisements are friends of your pocketbook

Chicks "live-ability" 40% more, test shows "Day - old chicks from flocks not affected with bacillary white diarrhea have a 40% greater chance to live than those from flocks so affected," asserts the Kansas Agr. College. To avoid this disease loss "blood test all parent flocks," they say. Chicks from such parentage grow stronger, healthier, lay

earlier, produce more eggs. Especially in the spring when chicks are getting started and fatalities are more numer-ous you need the added margin of safety that blood-testing assures. But, don't pay a premium to get it. Buy Lincoln Baby Chicks!

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Every bird whose eggs we will hatch this year has been blood-tested by EXPERIENCED men. 17 standard breeds. All purebred. Heavy winter layers. BLOODTESTED, free! Our 2,000,000 output cuts cost. Get the facts. The Lincoln Hatchery 3911 South St., Lincoln, Nobr.

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FACTS About Blood-Testing Upless the Chicks Are Healthy We Cannot

Unless the Chicks Are Healthy We Cannot Expect to Have Vigorous, Mature Stock

BY WILLIAM H. LAPP

THIS is the season when an effort many of our difficulties experienced should be made to control chick with chicks can be traced prior to inture health and productiveness of the phasis has been placed on the care-average farm flock depend directly on ful selection of stock used for breeding. the success attained in raising the chicks to maturity.

During the last few years the difficulty in raising young chicks has be-come more apparent. The percentage of this trouble may be practically the same as years ago. However, the in-creased volume of production has had a tendency to make it apparent in a more aggravated form.

Soil free from contamination will produce healthier stock; therefore, it is essential that the brooder house be located on such areas wherever possi-

The movable brooder house offers a better opportunity for following such an arrangement than the stationary house. In the case of the stationary house it is well to plow the ground around the house, turning up the soil at least 8 to 10 inches.

Brooder houses should be placed in such a position that they are not subjected to downward drafts from larger buildings, because this may influence the effectiveness of the ventilation in the building. I know of instances where smoke from the brooder stove was forced back into the house because of the downward drafts from large buildings in close proximity to the brooder house. And it should be located so it can be reached with the least delay.

Clean Houses Are Essential

The interior of the brooder house and the brooding equipment should be thoroly disinfected prior to the time the chicks are admitted to the house.

It is a well-known fact that some of our chick troubles can be traced directly to the parent stock. Therefore, it is necessary to give careful consideration to the individuals selected for breeding. It is a good plan, wherever possible, to have the stock tested for bacillary white diarrhea. However, this should be done thru some reliable

Individuals selected for breeding purposes should represent the kind of stock that we wish to reproduce. They should possess a sound body, which is determined by their physical characteristics.

Pen mating gives one a greater control over the offspring than flock mating. Greater improvement will result in a shorter period of time from pen mating.

Eggs for Hatching

Eggs chosen for hatching should be selected carefully. Many times certain characteristics reflect themselves in the product of the offspring which were apparent in the product of the parent stock. Eggs possessing abnormalities should not be used for hatching. Uniform eggs weighing from 24 to 26 ounces a dozen, possessing good shell texture and fairly uniform color, are

They should be kept at a fairly uniform temperature of from 55 to 60 degrees. They should not be permitted to remain in a temperature of 68 degrees or more for any length of time prior to incubation, as 68 degrees is the physiological zero of the egg. Temperatures above this figure often cause the germ to develop.

Eggs should be held in rooms possessing reasonable humidity. In a place that is too dry excessive evaporation may occur. Eggs retained for hatching purposes can be held from nine to 10

days without much difficulty.
Incubation fulfills one step in reproduction. It is apparent that an incubator can produce healthy stock only when healthy eggs are placed in the machine

It cannot be denied that incubation will have some influence on the transmission of disease; therefore, the problem of incubation becomes an important factor in guarding against chick

Incubation in itself presents prob-

troubles. We know that the fu-ture health and productiveness of the phasis has been placed on the care-

The raising of chicks by artificial brooding has been stimulated tremendously during the last few years. The success of commercial incubation can be attributed, to a great extent, to the success of artificial brooding. Within recent years many farms thruout producing areas have changed from natural brooding to artificial methods. Naturally, the artificial methods have created numerous problems.

One of the first things to take into consideration in brooding is the capacity of the house. Too many times our brooder houses are overcrowded. One should remember that there is a law of maximum and minimum returns so far as results are concerned in the brooder house. It is folly on the part of the producer to tax the capacity of the house. This may bring about serious difficulties, such as an outbreak of disease due to lack of resistance, and it also may result in stunted stock. One has everything to lose and nothing to gain by crowding the brooder

The litter used in the brooder house should be selected carefully. Large losses oftentimes result from the use of moldy litter. The loss in chick production from this single item totals thousands of chicks every year, and oftentimes one is not aware of the presence of this condition until losses begin to manifest themselves.

There are certain molds, such as Aspergillus, that cause havoc among chicks. In one experiment conducted by the Poultry Research Society last spring, a loss of 60 per cent of the chicks was caused thru Aspergillosis, traceable to the litter.

Keep the Litter Clean

Wherever possible the litter to be used for the brooder house should be sprayed with a formalin solution prior to the time it is placed in the brooder house. Spraying the litter prior to its use in the house resulted in reducing the loss from this cause to practically nothing.

Litter possessing an unusual amount of dust is not the most satisfactory for the poultry house. It is a common practice in some parts of the producing territory to use sand or gravel in the brooder house. Where this is prac-ticed it is well to cover the sand or gravel with at least an inch, and preferably more, of good litter, so that the chicks do not have direct contact with this material, because oftentimes it causes crop compaction. When one is using sand or gravel in the brooder house, on placing the chicks in the house access to feed should be provided so the birds may consume feed instead of the sand or gravel.

Great care should be exercised in providing a sufficient quantity of feed for the young chicks at all times, to prevent them from consuming too much of the material that may be present in the litter. The fact that the litter becomes contaminated from the droppings of the young chicks very shortly after the chicks are placed in the quarters makes them susceptible to any disease condition that might be present in these droppings. If they have access to feed, chicks will consume less of this foreign material.

To avoid contamination the litter in the brooder house should be cleaned out often.

As the chicks grow, many times the quarters become overcrowded because the chicks become larger and the quarters remain the same size. As soon as sex can be determined the cockerels and pullets should be separated. This will permit more nearly even growth in both cockerels and pullets.

For Broomcorn Growers

United States, amounting on the average to more than 50,000 tons a year, the greater part is grown in an area of the states of t lems too great to discuss in detail. age to more than 50,000 tons a year, Pink kafir last seaso. However, it is safe to assume that the greater part is grown in an area 1,500 bushels of seed.

comprising the western half of 0 homa and Southwestern Kansas. United States Dry-Land Field State in the heart of the broomcorn area, been used since 1914 for experiment been used since 1914 for experiment determine the more desirable varies of broomcorn and the most profits cultural methods. In Technical Buttin No. 51-T, "Broomcorn Experiment the United States Dry-Land Fastation, Woodward, Okla.," just published, John B. Sieglinger of the Breau of Plant Industry reports comments. reau of Plant Industry reports compa isons and conclusions. It may be a tained upon application to the Depar ment of Agriculture, Washington, D.

Hill Crest Farm Notes

BY CHARLES W. KELLOGG

Preparing ground for oats is occupying the time of a large number of farmers around here just now, an next week will see a lot of seed go in the ground unless it storms. We pla on putting out 15 or 20 acres for fee and expect to sow the Kanota variety The county agent left a sack contain ing samples of four different varieties of oats with us for use in a varieties test to be planted with the other out This is being done to determine which variety tested is best adapted for grow ing in this locality. The different v rieties are the Kanota, Red Texa Burt and Burt 60-Day. These sample Burt and Burt 60-Day. These sample are to be planted side by side in the same ground with the other oats, a the same day and at the same rate.

Potato planting will be the next jo after the oats are out of the way. has been the custom here to plant p tatoes the week before Easter, and especially on Good Friday. The last year or two, tho, several farmen planted as early as St. Patrick's Day but so far we haven't heard of an planting that soon this year. We a ways try to plant our potatoes ad later than Easter. About six year ago we were delayed until after Easter on account of the ground being frozen We had a big drifting snow on Easter Sunday, a regular old fashioned blizard; we planted our potatoes on the following Friday, and had to carry the plow over a big 5-foot snow drift toget to the field, but had a good yield ever if it was late.

Last year several folks around here treated their seed potatoes for scab and dry rot by dipping them in a hot formaldehyde solution. Judging from the reports on this experiment turned in to the Farm Bureau office it paid big to do so. Some reported having better yields by about 50 per cent over potatoes planted by them that were untreated. They also reported having raised a better quality of potatoes, tot The Farm Bureau purchased a new machine for this work and took it around to various towns in the county last week to accommodate the farmers

A year ago this last winter we spread a lot of wood ashes from the furnace out on the garden inside the yard fence, and noticed that the culworms didn't seem to bother that plot of ground so badly as they did outside so we tried the same plan again this winter, and expect to watch the experment again to see how it turns out If it seems to work out we will continue to do this instead of giving the ashes to the hogs as heretofore.

The ashes make a good fertilizer, In one plot of the garden Mother had six short rows of American Wonder peas about 50 feet long on this ashes treated ground. They were set back a good two weeks or more by the hail, but came on again, and Mother picked seven large dishpanfuls of peas from them during one week's time, and would have had more than that had they escaped the hail. Ashes fertilizer also is good for parsnips and tomatoes, we find, as both vegetables produced more on that ground than on the uniteracted position. treated portion.

Friday afternoon my brother took the tractor to a neighbor's place and pulled his silage cutter for him. They cut up six large hay rack loads of headed beginning the silage hay rack loads of headed kafir fodder and put it in a hay mow. The job required 2 hours time. The fodder was dry and ought to keep in the state of the to keep in fine condition. This is extra fodder he doesn't need at pres-There isn't so much waste to fodder fed in this way as when fed in the bundle.

My brother-in-law has a few acres of Of the broomcorn produced in the cutting up and storing in his pit sile, nited States, amounting on the aver.

are reliance in However tised has

ansas

BABY oup. F. River, I CHICKS reason Goenner

BABY flocks Prepaid c up. Hatcher LIGHT

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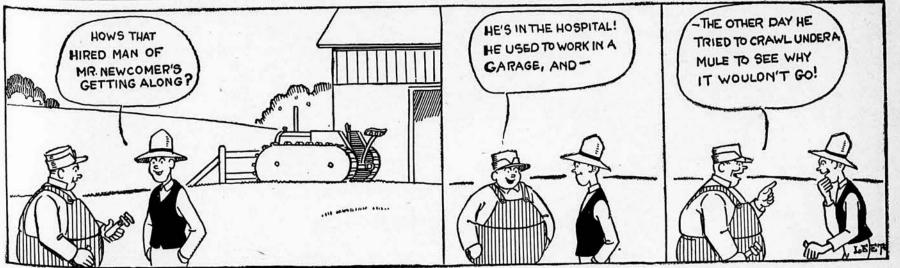
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CANTRELL S. C. RHODE ISLAND REDS were winners at Eastern Kansas egg laying contest, First high heavy hen and first high heavy pen in January and February; get your chicks from egg bred pens with flock average of 200 eggs or more; prices as low as 13c. Write for full description of these wonderful chicks and prices on hatching eggs. Cantrell Farms, Route 1, Box C, Yates Center, Kan.

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ALFA \$6.50; RED CLOVER \$12; WHITE Scarified Sweet Clover \$4.20; Timothy \$2; Alsike Clover \$13.00; Mixed Alsike and Timothy \$4.00; Blue Grass \$2.50; Orchard Grass \$2.40; Red Top \$2.10; all per bushel. Bags free. Tests about 96% pure. Send for Free Samples and Special Price List. Standard Seed Co., 19 East Fifth Street, Kansas City, Missouri.

Missouri.

MY FROST PROOF CABBAGE PLANTS
will make headed cabbage three weeks
before your home grown plants. I make
prompt shipments all leading varieties.
Postpaid 500, \$1.50; 1000, \$2.75. Express
\$2.00, 1000. Special prices on large quantities. Tomato and pepper plants same prices.
First class plants, roots wrapped in moss.
P. D. Fulwood, Titton, Ga.

ties. Tomato and perper plants same prices. First class plants, roots wrapped in moss. E. D. Fulwood, Tifton, Ga.

MILLIONS FROSTPROOF CABBAGE plants, well rooted, open field grown, leading varieties, roots mossed; 500-\$1.25; 1,000-\$1.90; postpaid. Hundred Bermuda Onions free. Bermuda Onions, 500-\$00-\$1.20; 1,000-\$1.40; 6,000-\$6.00 postpaid. Nancy Hall, Porto Rico Potatoes, roots protected; 500-\$1.33; 1,000-\$2.48; postpaid. Tomatoes, open field grown, leading varieties, roots mossed, 500-\$1.00; 1,000-\$1.50; 5,000-\$7.00 postpaid. Satisfaction guaranteed. Hunter Plant Farm. Hunter, Ark.

100 MASTODON STRAWBERRIES, \$2.00; 100 Progressive Everbearing, \$1.00; 200 Senator Dunlap, \$1.00; 25 Red Raspberries, \$1.00; 12 Concord Grapes, 2 year, \$1.00; 12 Currants or Gooseberries, \$1.50; 50 Black-berries, \$1.25; 50 Black Raspberries, \$1.50; 12 Eleberta Peach, \$3.00; 12 Plums, 6 Waneta, 6 Compass, \$3.50; 12 Apple Trees, (your choice), \$3.00; Good 4 ft. trees. Prepaid. Certified Stock. Free Catalog. Iowanna Nurseries, Shenandoah, Iowa.

200 A C R E S FROSTPROOF CABBAGE Plants, well rooted, open field grown. Early Jersey, Charleston, Flat Dutch, Succession, 50 to bundle, roots mossed; By mail: 500-75c; 1,000-\$1.25; Express: 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$5.00 FOB. 100 Bermuda Onions free. Bermuda Onions 500-90c; 1,000-\$1.00; \$0.00-\$1.25; 5,000-\$5.00; 10,000-\$1.00; \$0.00-\$1.25; 5,000-\$5.00; 10,000-\$1.00; \$0.00-\$1.25; 5,000-\$5.00; 10,000-\$1.00; \$0.00-\$1.25; 5,000-\$5.00; 10,000-\$1.00; \$0.00-\$1.25; 5,000-\$5.00; 10,000-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00; \$0.00-\$1.00;

view Farm, Quitman, Ga.

FROST PROOF CABBAGE AND ONION Plants. Open field grown, strong, well rooted from treated seeds. Cabbage, fifty to bundle, moss to roots, labeled with variety named. Jersey Wakefield, Charleston Wakefield, Succession, Copenhagen, Early and Late Flat Dutch, postpaid: 100, \$0.50; 200, \$0.75: 300, \$1.00; 500, \$1.25; 1,000, \$2.00; 5.000, \$7.50. Express collect crate twenty-five hundred \$2.50. Onions: Prizetaker, Crystal Wax and Yellow Bernuda. Postpaid: 500, \$0.80; 1,000, \$1.25; 6,000, \$6.50. Express Collect crate: 6,000, \$4.50, Full count, prompt shipment, safe arrival, satisfaction guaranteed. Write for free seed and plant catalog. Union Plant Company, Texarkana, Arkansas.

FIELD-GROWN PLANTS—TOMATO—CAB-

Company, Texarkana, Arkansas.

FIELD-GROWN PLANTS—TOMATO—CABbage—Pepper—Onion—Potato, Strong, well-rooted, from treated seeds, carefully packed with damp moss to roots, all varieties labeled. Tomato plants, eight to ten inches high: John Baer, Earliana, Early Jewel, Livingston's Globe, New Stone and McGee. One dozen hot pepper, one dozen sweet pepper free with each tomato order. Cabbage, early, medium and late. Prices, tomato or cabbage: 200, 75c; 500, \$1.25; 1.000, \$2.00; 5,000, \$8.50. Ruby King Pepper, 100, 50c; 1,000, \$3.00. Bermuda Onions, 500, 75c; 1,000, \$1.25. Porto Rico Potato, 500, \$1.50; 1,000, \$2.50. All postpaid. Standard Plant Farm, Mt. Pleasant, Tex.

LIVINGSTONS GLOBE, BURPEE'S DWARF Giant, Warglobe, Earliana, New Stone, Ponderosa, Greater Baltimore, Transplanted Plants 1c, large seedings ½c each. Field run, Seedilings 1,000-\$1.65; 500-\$1.00. Sweet Potato, Cabbage, Celery, Strawberry, ½c. Eggplant, Peppers, Asters, Verbenas, Calendulas, Marigold, Petunias, Salvias, Zinnias, Transplanted, 2c; seedlings, 1c. We pay postage. Sales are not complete unless you are satisfied. 30 years growing good quality stock. Address, Vanstrom Greenhouse, Edgar, Neb.

TESTED SEED CORN

Our Improved Yellow Dent is best yielder. Have all varieties white and yellow. All hand picked and graded. Price \$2.25 bushel F. O. B. Wamego. Write for samples. The Wamego Mfiling Co., Wamego, Kan.

HIGH TEST SEED CORN

Seed Corn: Pride of Saline from certified seed, Boone County White, Hlawatha Yellow Dent, Reid's Yellow Dent, Imperial White (Red Cob); all two dollars per bu. New 2 bu. burlap bags free. All corn hand picked, tipped and butted, shelled and graded. Tested at K. S. A. C. 95 to 99% germination. Twenty years in business here. Wamego Seed & Elevator Co., Wamego, Kan.

LIVESTOCK

HORSES AND JACKS

FUSTULA HORSES CUPPED \$5, PAY WHEN well. Chemist, Barnes, Kan.

20 JACKS AND 30 JENNETS, THE KIND that will please you. Hineman's Jack Farm, Dighton, Kan.

Farm, Dighton, Kan.

TWENTY REGISTERED BLACK PERCHeron stallions, \$200.00 to \$750.00. Fred Chandler, Chariton, Iowa.

JACKS, THE 1000 TO 1200 POUND KIND. Two black 3 yr. old Percheron stallions, W. D. Gott, Bronson, Kan.

FOR SALE: PERCHERON STALMONS. Write for photos and prices. The Alfalfa Stock Farm, Rush Center, Kan.

CATTLE

FOR GUERNSEY DAIRY HEIFER CALVES, write L. Terwilliger, Wauwatosa, Wis.

CHOICEST PURE BRED HOLSTEIN HEIFer Calves. F. B. Green, Evansville, Wis.

TWO YOUNG SHORTHORN BULLS, PURE bred, \$45 each if taken soon, J. C. Mitchell, Perry, Kan.

REGISTERED YEARLING HEREFORD bull. Outstanding herd prospect. Weight of sire 2040, dam 1650. Strictly Anxiety. P. F. Hansen, Hillsboro, Kan.

HOGS

CHESTER WHITE BOARS AND GILTS.
Paul Haynes, Grantville, Kan.
LENGTHY, HEAVY BONED CHESTER
White fall boars immune. Henry Murr,
Tonganoxie, Kan.

O. I. C. AND CHESTER WHITE PEDI-greed pigs, \$20 per pair, no kin. Write for circular. Raymond Ruebush, Sciota, Ill.

SPOTTED POLAND CHINA PIGS, A FEW choice, strong, husky, well marked two months old pigs, either sex, at \$10.00 each. Papers furnished. J. D. Welch, Wilburton, Kan.

REAL ESTATE WANTED

WANT FARMS from owners priced right for cash, Describe fully. State date can deliver. E. Gross, N. Topeka, Kan.

SELL YOUR PROPERTY QUICKLY for Cash, no matter where located, particulars free. Real Estate Salesman Co., 515 Brownell, Lincoln, Nebraska.

Streams May Be Impure

Another popular belief will have to be laid away in the storeroom of discredited things, killed by the cold light of science. The running brooks of field and woodland, hailed for generations as able to purify themselves merely by flowing for a few miles thru sunlight and open air, turn out, when the point is really tested, to have very little of this supposed ability. Pursuing its studies of stream pollution as a cause of epidemics, the United States Public Health Service has examined thousands of stream waters. Samples have been collected mile by mile down the courses of streams which polluting matter is known to enter. The expected natural disappearance of this pollution has not been found. What natural purification does occur is too slow and slight to be of much practical account, Reporting both the data obtained by the service and that otherwise available, Dr. E. J. Theriault concludes that the natural purification of running streams is scarcely more than a myth; a conclusion of considerable practical importance, since it is known that many campers and farmers drink such running water fearlessly, even here in Kansas, in the traditional belief that it is always pure.

Doctor Theriault agrees with earlier investigators in ascribing the purification that does happen to the absorption of oxygen from the air and to chemical changes which this oxygen produces. Whether the actual germs of disease are killed by adequate oxygenation or whether the oxygen starves the germs to death by destroying food materials on which the germs are accustomed to feed is perhaps uncertain, but is not important.

The Real Estate Market Place

(undisplayed ads also accepted at 10c a word)

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There are five other Capper Publications which reach 1,446,847 Families. All widely used for Real Estate Advertising. Write For Rates and Information

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DO YOU WANT TO BUY LAND? DO YOU want to sell land? Write C. Vernon Noble Co., Manhattan, Kan.

OWN A FARM in Minnesota, Dakota, Montana, Idaho, Washington or Oregon. Crop payment or easy terms. Free literature; mention state. H. W. Byerly, 81 Northern Pacific Ry., St. Paul, Minnesota.

ARKANSAS

COWS, hens, sows, berries, apples. Buy small farm, Benton County, Original Ozarks. Free Lists, Rogers Land Co., Rogers, Ark. \$450 SECURES 100 acres improved. tillable. Springs, fruit, timber, g ing alfaifa. Priced \$750. Easy te Other bargains. Wilks, Mtn. Home, 10 ACRES, 5 room bungalow, 6 grapes, 2 peaches, berries and small fruits, 1 mile business center, Springdale, \$5,000.00. Terms. Fayetteville Realty Co., Fayetteville, Arkansas.

COLOBADO

BACA COUNTY BARGAINS. Farms for sale or exchange. Lee W. Oyler, Pritchett, Colo.

FORECLOSED stock ranch near Pueblo, Colorado. 640 acres, \$1280. Fenced, lots of water. S. Brown, Florence, Colorado. 1680 A., \$25 PER A., all tillable, abundance irrig., W. Colo. No imp. Will divide. Want lower altitude, 120 Broadway, Denver, Colo.

KANSAS

WRITE FOR new printed list land bargains. Jess Kisner, Garden City, Kan. DESCRIBE THE FARM, ranch or property you desire, B. C. Hays, Americus, Kansas. SPLENDID small stock farm, 320 ac smooth, level, wheat and corn land. V. Lowe, Goodland, Kansas.

FOR SALE—160 acre farm 3 miles from Concordia; fairly well improved; \$6,500. Bill Giroux, Concordia, Kan.

Bill Giroux, Concordia, Kan.

216 A. STOCK FARM, 1 mi. State University.
Well improved. \$40,000. Easy terms.
Hosford Inv. Co., Lawrence, Kan.

POULTRY, DAIRY FARM. 100 A., 3 mi.
town, Alfalfa, timber. \$75 per A. Possession. Terms. T. B. Godsey, Emporia, Kan. sion. Terms. T. B. Godsey. Emporia, Kan. PRODUCTIVE LANDS in Southwest Kansas now selling \$12.00 per acre up; ideal for agriculture, dairying and poultry. E. C. Bray. Syracuse. Kan.

480 ACRES extra well improved, modern, plenty water, 60 A. alfalfa, Wallace Co.. on highway. 5 ml. town, \$8,000 cash will handle, reason, age. Write Owner, Care Kansas Famrer.

WHEAT AND ROW CROP FARMS-in the rapidly developing Southwest, Abundant moisture growing wheat, prices advancing, Buy now, Write for booklet, B, & B. Realty Co., Copeland, Kan.

Realty Co., Copeland, Kan.
680 ACRES, well improved. 7 miles Wellsville, Kan., 300 cultivation; balance pasture. Some timber. Oil and gas. House
heated and lighted with gas. Price only
\$50.00 per acre. Loan \$20,000.00 cash and
terms, for equity. Will consider clear land
for city property. For rent if not sold. The
Mansfield Land Company. Ottawa, Kansas.

STOCKS AND BONDS

6%

INVESTMENTS

Idle Money is earning no interest and if kept idle any length of time will destroy a large portion of the interest earned when put to work. Write or call for particulars.

The Mansfield Finance

Corporation

202 National Reserve Bldg., Topeka, Kan.

MONTANA

LAND OPENING

New 75 mile brandy opens 1,550.

year in Montana, opens 1,550.

good farm land. Profitable for when the cattle, sheep, hogs. Send for free new line book, also free books on Minnesota, North Dakota, Montana, Idaho, Washington and Oregon. Low Homeseekers Excursion Rates.

C. Leedy

St. Paul, Minn.

MISSOURI

80 ACRES \$1,250. House, barn, other improvements. Free list. A. A. Adams, Ava. Mo. HEART OF THE OZARKS. Ideal dairy, fruit, poultry farms. Big list.
Galloway & Baker, Cassville, Mo.

POOR MAN'S CHANCE—\$5 down, \$6 month-ly buys forty acres grain, fruit, poultry land, some timber, near town, price \$200. Other bargains, 425-O, Carthage, Mo.

The point is that oxygen does the

trick; supplemented, perhaps, by the rays of the sun or of daylight, rays al-

ready known to encourage the action of oxygen on many vegetable and ani-mal substances. If nature could con-

trive to force much more oxygen into

the running streams and to have this

finds, without absorbing enough oxy-

gen to restore it to drinkable purity.

MISSOURI

SOUTH MISSOURI OZARKS
Ranches and Farms any size. Tell us what you
want. Thayer Real Estate Co., Thayer, Mo. LAND SALE. \$5 down \$5 monthly buys 44 acres, Southern Missouri. Price \$204. Send for list. Box 22-A, Kirkwood, Mo. SOUTHEAST MISSOURI LAND, Large and small tracts, Cut-over \$22.50 per acre, is per acre cash, balance liberal terms, improved and partly improved farms, sacrification prices, part cash, balance like rent, Write for free map and list, K. Himmelberger, Harrison, Cape Girardeau, Mo.

COMBINATION stock farms and ranches \$3 to \$6 per acre. A. S. Palmer, Clarton, New Mexico.

FOR SALE: Improved farms and rancher good climate, water, roads and school write H. H. Errett, Clayton, Net Mexico.

OKLAHOMA

TEXAS CO. leads, wheat, corn and mile maize. Improved and raw land, \$15 per A. up. Wm. Davis, Goodwell, Okla.

250 ACRES two miles from Nowata. Okla.
60 acres in cultivation; 40 acres in hay meadow; balarice in pasture. Good house and three large barns. Gas for fuel. W. C. Wood, Nowata, Oklahoma.

C. Wood, Nowata, Oklahoma.

COME to Eastern Oklahoma. We have bargains in improved farms of all size, adapted for grain, stock and poultry raising, dairying and fruit growing. Excellent markets, good school and church facilities in an all year climate that makes life worth living. Write today for free literature and price list. National Colonization Co., Room 123, 14 E. 3rd St., Tulsa, Okla.

TEXAS CO., OKLA.

BANNER WHEAT CO., U. S., 1921 & 1924
50 wheat and corn farms for sale, 120
per acre, good terms. John Barnes, Texhoma, Oklahoma.

PRICED RIGHT—Orange groves and farma.

Trades. B. R. Guess, Weslaco, Texas.

LOWER RIO GRANDE VALLEY Lands and Groves for safe or trade. Write Davis Realty Co., Donna, Texas.

BOOKLET, "15 Farm Home Opportunities" Texas Panhandle. Mailed direct from owner. Jim Pigman, Dalhart, Tex.

RIO GRANDE VALLEY land at actual value. Owners price direct to you. Roberts Realty Co., Realtors, Weslaco, Texas.

PANHANDLE wheat land, 8 half sec's. 33 yrs. to pay, 5%, no cash payment. W. C. Collins, (Owner), Channing. Texas.

TEXAS PANHANDLE most productive cora and wheat land, \$15 to \$25 per A. Small cash pmt. J. N. Cole, Box 212, Dalhart, Tex. IDEAL DAIRY FARMS, S.W. Texas. Climate. IDEAL DAIRY FARMS, S.W. Texas. Climate, water, markets. Orange groves. Free inf. S. A. Guy, 509 Milam Bldg., San Antonio, Tex.

S. A. Guy, 509 Milam Bldg., San Antonio, Tex.

20 ACRES Rio Grande Valley in grape
fruit, On main highway, Will sell all of
part. C. R. Borah, Owner, Edinburg, Texas.

CITRUS LANDS, groves, irrigated Magic
Valley, Lower Rio Grande, Low prices,
terms, booklet. Lesslie & Son, Realtors.

McAllen, Texas.

JAMES RANCH, containing 65.900 acres
corn and wheat land, for sale, Any sized
tracts, ½ cash; balance 2 to 9 years, 6%.
Write for information and booklet. W. H.
Lathem, Realtor, Dalhart, Texas.

WISCONSIN

BUY LAND in Wisconsin's Dairy District.

Make your family happy. prosperots, and secure. For particulars, write the Bayfield Land Company, Mason, Wisconsin.

Box A.

WASHINGTON

DAIRYMEN'S PARADISE. 50,000 acres cutover land in Stevens County. Wash, Colville valley district, 40 miles north of Space, as to 4 tons of affalfa per acre, 2 or 3 cuttings. Abundance of free range for dry stock. Deep sub-irrigated soil. Rural milk routes on macadamized highways. Creamerles and buying agencies in all towns. Average price \$15 per acre, 12 years to pay, interest at 10% down, Loans made for buildings, fencing, etc. Stevens County Investment Co., 311 Symons Bldg, Spokane, Wash.

SALE OR EXCHANGE

BARGAINS—East Kan., West Mo. Farms
Sale or exchg. Sewell Land Co., Garnett, Es. ANYBODY wanting to BUY, SELL, TRADE, no matter where located write for DeBey's Real Estate Adv. Bulletin, Logan, Kansar WANT to hear from owner having farm for sale in Kansas. Suitable for general farming and stock raising, send full description and lowest cash price.

DeQueen.

Arkansas DeQueen,

When the world was more sparsely peopled and when very little polluting matter got into streams the natural absorption of oxygen, plus the mere dilution of more water, may have been sufficient sufficient to keep such germs below the danger level. Men may have noticed then that running water was less likely to cause disease than still water, oxygen act very promptly on the pola conclusion that ceases to be so certain when the amount of stream pol-lution increases as it has done during the last four or discussions. luting matters in the water, purifica-tion might occur. A polluted stream may flow for miles, Doctor Theriault the last four or five decades, especially in Southeastern Kansas.

P SP

Angus Folks to Meet

There will be assembled, on the Latzke

There will be assembled, on the Latzke farm, possibly the finest group of Angus that ever has been gathered together in Kansas. These will be selected from the herds of the group of breeders in Geary and Dickinson countries will be given over breeders in Geary and Dickinson counties. The morning will be given over to inspecting and judging the cattle. Eight classes of varying ages will be judged, and the official placings will be made by Prof. F. W. Bell of the Kansas State Agricultural College. This will provide a good opportunity to felle to establish a more purform

idea of Angus cattle.

Among the speakers for the afternoon are Dr. W. E. Grimes, head of the department of agricultural economics at the college, who will have a most sage awelling.

The John McCoy & Son consignment sale will be held in King's Sale Pavilion at Hiawatha next Thursday April 12. It follows the Blue Valley Shorthorn sale at Blue The data are sage awelling. sage dwelling on the purebred cattle situation, and Dr. C. W. McCampbell, head of the animal husbandry department at the College, One speaker which should interest all Aberdeen-Angus breeders as such will be W. H. Tomhave, secretary of the American Aberdeen-Angus Breeders' Association. This will be the first occasion on which sec-retary Tomhave has visited Kansas officially representing the breed asso-

KANSAS FARMER ADVERTIS-ING LEADS

Kansas Farmer, Topeka, Kan. Enclosed find check to cover account for advertising in Kansas Farmer. I advertised my hogs in six issues of Kansas Farmer and it brought me more business than all five of the other papers that I used. I expect to advertise in Kansas Farmer again this year, J. A. Sanderson, Oronoque, Kan., March 20, 1928.

DUROC HOGS

Plan to Attend N. H. ANGLE & SON'S

sale of Duroc hogs and Shorthorn bulls, at their farm north of

Courtland, Ks., Tues., April 17

15 fall hoars, 25 spring gilts bred for May and June farrow, featuring the blood of Originator 3rd. and his son, Luxor, first prize senior yearling at Topeka.

D. V. Spohn, Superior, Neb., consigns 10 hegs and two bulls.
For sale catalog address,

N. H. Angle & Son, Courtland, Kan. J. W. Johnson, Fieldman, Kansas Farmer

Bred Sows

To farrow in March and April. Registered, mmuned and shipped on approval. Write immuned and shipped on approval. Write for prices. Stants Brothers, Abilene, Kansas

KANSAS 1927 JR. CHAMPION DUROC and liarnester's Leader for breeders, farmers, commer-tial leak raisers. Champion bred over 25 yrs. Real loars, included pairs, trios, etc. Shipped on approval. Reg., immuned, photos. W. R. Huston, Americus, Kan.

WELLER'S DUROCS

boars, Food bone, long, smooth, well bred, reasonable blees. With your wants, J. E. WELLER, Holton, Kan.

POLAND CHINA HOGS

Poland China Fall Boars

Fills, not related. Also daughters of Promise bred to Best Goods by Iowa

SPOTTED POLAND CHINA HOGS

SPOTTED POLAND BOARS to sell. E. F. Detrich & Son, Chapman, Kan.

Spotted Poland Bred Gilts

bloodlines, bred to sons of Mono-liant Sunbeam and other good boars. free, WM. MEYER, Farlington, Kan.

HAMPSHIRE HOGS



1923

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Whiteway Hampshires on Approval
Choice fall boars and gilts sired by Whiteway Lad, grand cham-pion boar 1927. Pairs and trios not related. Priced for quick sales. F. B. Wempe, Frankfort, Kan,

Help With the Poultry

The third annual Better Livestock

Day, held under the auspices of the try raising may be obtained from these three Farmers' Bulletins: No. 801, Mites and Lice on Poultry; No. 1,337, Diseases of Poultry; and No. 1,524, Farm Poultry Raising. They may be obtained free from the United States

There will be assembled, on the Latzke

By J. W. Johnson Capper Farm Press, Topeka, Kas



F. B. Wempe, Frankfort, starts his adver-tisement in this issue and offers Hampshire fall boars and glits.

The date of the N. H. Angle & Son, Courtland, Kan., Duroc sale which will be held at their farm north of that place is April 17. D. V. Spohn of Superior, Neb., is consigning some of the Durocs and two Shorthorn bulls.

There is considerable corn in the country and most of it is of a very high quality. Geo. T. Fielding's Sons, Manhattan, are growers of purebred seed corn and their Kaw Valley farm produced for them last year 16,000 bushels of corn and it is of a very high quality. They have 13 leading varieties.

Thirteen well known breeders of Shorthorns consign the 41 head that go in the association sale in the sale barn at the fair grounds at Blue Rapids next Wednesday. J. M. Nellson, Marysville, who has been active in the management of the Blue Valley Shorthorn Breeders' Association says this is one of the very strongest offerings ever made by the association.

The consignors to the Holstein-Friesian breeders' sale at the Fair Grounds, Topeka, April 18 are among the best known breeders of the state and the 60 cattle they are consigning to this sale will compare favorably with any like number that has been sold at auction in Kansas for some time. The sale features the complete dispersal of the Landon & Son herd at Mayetta and over half of the offering are selections from the good herds that are represented in the sale. The sale is advertised in this issue of Kansas Farmer.

Decatur county, out in Northwest Kansas, has a number of purebred hog breeders who are furnishing the farmers of that county and the adjoining counties with good breeding stock and for a number of years some of the best Poland China hogs to be found in the state have been grown and developed in Northwest Kansas. J. H. Brown, Selden, is one of the old timers out there that has stayed with the Poland Chinas and made money out of them as a breeder of registered stock that he has sold over that section for breeding purposes. He has been at it over 20 years because he was in the business and I sold him advertising space about that many years ago. In his 1928 February bred sow sale the yearling sows brought \$60 and the March gilts \$50. Some April and May gilts brought the general average down to \$43.50. The little fall pigs sold for an average of \$16.50. The breeders in that county own one of the finest sale pavilions in the west which was erected several years ago at a cost of over \$20,000. The sale pavilion is in Oberlin, the county seat of Decatur county.

LIVESTOCK NEWS

By Jesse R. Johnson 163 West 9th St., Wichita, Kan.



J. V. Bloom & Son, Duroc breeders of Medicine Lodge, write that they have had a good season. They have a fine lot of spring pigs to date, sired by their boar Stiltsmaster.

The J. R. Ives Jersey cattle sale held at Mt. Hope March 27 was well attended and the big general demand emphasized how easy and profitable it is to grow up a herd of Jerseys. Mr. Ives had other business and only devoted a part of his time to the cattle, but developed a good herd. The 37 head, half of them calves and young cattle, sold for over \$3,800. S. E. Neuhauser of Newton topped the sale at \$200, buying No. 14, a choice, mature daughter of Beautys Financial King. Jas. Barkemeyer of Halstead bought No. 8 for \$175. Mrs. W. E. Kimmel made the best buy of the day when she bid off the great sire Beautys Financial King for \$167.50. Boyd Newcom and R. K. Bird were the auctioneers.

Public Sales of Livestock

Poland China Hogs April 26-Laptad Stock Farm, Lawrence,

Duroc Jersey Hogs

April 7—Helendale Ranch, Campus, Kan. April 17—N. H. Angle & Son, Courtland, Ks. April 26—Laptad Stock Farm, Lawrence, Kan.

Shorthorn Cattle

April 11—Blue Valley Shorthorn Breeders
Association, Sale Pavilion, Blue Rapids,
Kan.
April 12—John McCoy & Son, Sabetha, at
Hiawatha, Kan.
May 3—Alice J. Young, Wilsey, Kan.
May 4—E. S. Dale & Son and Ben S. Bird,
Protection, Kan.

Guernsey Cattle April 17-Dr. J. T. Axtell, Newton, Kan. Holstein Cattle

April 7—Helendale Ranch, Campus, Kan. April 18—Breeders Sale, Topeka, Kan. April 25—Edward Bowman, Clyde, Kan. Milking Shorthorn Cattle

April 11-Blue Valley Shorthorn Breeders, Blue Rapids, Kan.

Holstein-Friesian Breeders Sale

in the judging pavilion at the fair grounds,

Topeka, Kansas, Wednesday, April 18

60 registered cattle, including the dispersal of Landon & Sons herd of Mayetta, Kan. Other Consignors: G. G. Meyer, Basehor; Ernest Chestnut, Basehor; Ralph Button, Elmont; Noel Coleman, Meriden; Geo. Young & Son, Manhattan; J. P. Kaster, Topeka and W. H. Mett, Herington.

Attractive features of the sale. 30 cows in milk and many of them fresh. 10 heavy springers, five bred heifers, 10 bulls from high record sires and a number of them from record dams, including a proven sire whose dam was a Kansas state record cow, Genesta Knoll DeKol. This is a very desirable bull.

A large number of soven day and semi-official record animals. Also cows with good cow testing association records. A daughter of a 30 pound cow, several daughters of a 100 pound bull, a 25 pound two year old, a 21 pound four year old. Six daughters of Home Farm Pontiac, seven daughters of Shungavalley Pontiac King and three granddaughters of Colantha Johanna Lad. Consignments all from Accredited herds. For the sale catalog write

W. H. MOTT, SALE MANAGER, HERINGTON, KANSAS

Auctioneers: Crews, McCullech, Newcom. J. W. Johnson, Fieldman, Kansas Farmer.

Note: In the opinion of the management this is the best offering of cattle we have made since 1921.

Dispersal Sale, Newton, Kan, April 17

12 Registered Guernseys and many high grades 65 Dairy Cows, Heifers and Bulls

These Guernseys were "hand picked" by me in Southern Wisconsin where the real dairy cows are bred. My young herd sire, "Itchen May King of Newton" stands at the very top of Guernseys in breeding and in individuality. The cows and helfers are largely from the herd sires of the Hoard's Dairyman & Ralph Tratt farms, and are strong in May King and Langwater breeding.

Also a few rare Holstein cows and helfers reserved from former sales for my own use. They are bred from my herd sires; A Son, King of the Pontiacs, and later two bulls from the Dutchland Farms, near Boston. No money has been spared when huving sires.

buying sires. Dr. J. T. Axtell, Newton, Kan.
400 W. 16th St., Sale at the Farm, Rain or Shine. 400 W. 16th St.

FAIRFIELD AYRSHIRES

3 bull calves from outstanding dairy cows, and a few top-notch cows bred to outstanding proven sire of type and pro-DAVID G. PAGE, TOPEKA, KAN.

JERSEY CATTLE Financial King Jersey

bull. For sale, his dam a state champion R. M cow, 720 lbs. fat in one year. Also excellen young bull calves sired by him, 7 months old

Priced to sell.

BRICE L. NEWKIRK, HARTFORD, KAN.

Just the Young Jersey
bull you are looking for, also baby calves
from good C. T. A. Cows. SENSTBLE
PRICES. A. H. KNOEPPEL, Colony, Kan.

POLLED SHORTHORN CATTLE

POLLED SHORTHORNS
Herd headed by three Blue Ribbon
winners at the Kansas State Fair.
Ruler, Clipper and Scotch man. Blood
of \$5000 and \$5000 imported Bulls,
Young Bulls \$80 to \$150. Top Notch,
hard bulls. Wt. 2000; \$250. Beg.,
trans., test, load free, Dollver 3
head 150 miles free, Phone.
BANBURY & SONS, Pratt, Kan. POLLED SHORTHORNS



Polled Shorthorn Bulls

Good ones old enough for service. Also some cows and heifers. Ira M. Swihart & Sons, Lovewell, Kansac

Polled Shorthorn Bulls

Six bulls 11 to 13 mo. old. Best of breeding, reds and roans. Shipping stations Stockton or Phillipsburg, Kan. T. S. Shaw, Glade, Kan. **Polled Shorthorns**

Males and females. Reds, roans and whites. Both sexes, all ages. H. C. Bird, Albert, Kan.

FOR SALE: OUR HERD SIRE
Proud Victor by Pine Valley Consort whose two nearest dams averaged 12,000 lbs. milk and out of Pansi
12,800 lbs. milk. Might trade. Also bull calves.
John A. Yelek, Rexford, Kansas

HORSES AND JACKS

Percherons For Sale

Having sold my farm must sell horses. My herd stal llons, one 4-yr-old grey by son of Carno and out of granddaughter of Casino, one 3-yr-old strongly imported blood weighs about 2200 fbs. Marcs and fillies Two coming 3-yr-old stallions, Priced to sell.

L. E. FIFE, NEWTON, KANSAS

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Change of copy as desired. LIVESTOCK DEPARTMENT Kansas Farmer, Topeka, Kansas SHORTHORN CATTLE

Next Wednesday Blue Valley Breeders Shorthorn Sale

Sale pavilion, Fair Grounds,

Blue Rapids, Kan. Wednesday, April 11

41 cattle, 15 choice young bulls, most of them with choice Scotch pedigrees, 20 attractive yearling and two year old heifers, very choice families represented.

Six yearling heifers and three bulls from Thos. Steinberger's Milking Shorthorn herd, Morrowville, Kan.

Consignors:

A. J. Turinsky, Barnes Bluemont Farm, Manhattan S. B. Amcoats, Clay Center King Bros., Delphos Thos. Steinberger, Morrowville J. L. Moden, Waterville Griffee Bros., Marysville Fred Yarrow, Clay Center Frank Weir, Morrowville Bert Dodson, Clay Center Bergeson Bros., Leonardville Chas. Musil, Blue Rapids J. M. Neilson, Marysville

J. M. NEILSON, Sale Manager, Marysville, Kan.

Jas. T. McCulloch, Auctioneer. J. W. Johnson, Fieldman, Kansas Farmer

John McCoy & Son, Consignment Sale

38 Shorthorns

Sale in King's sale barn starting 1 p. m. Hiawatha, Kan., Thursday, April 12 10 cows with calves at foot, 11 young bulls, yearling and two year old heifers. W. P. Lambertson, Fairview and E. A. Congrove, Monrovia, consignors. 22 females and eight bulls from the MccCoybard.

For the sale catalog phone

E. A. McCOY, SABETHA, KAN. The sale is next Thursday.

Jas. T. MccCulloch, Auctioneer.

J. W. Johnson, Fieldman, Kansas Farmer

Chikaskia Valley Shorthorns
Young cows and helfers, priced \$75 to
50. Six young bulls from \$100 to \$110.
H. M. WIBLE, CORBIN, KANSAS.

MILKING SHORTHORN CATTLE

RED POLL BULLS

for sale two 13 mo. old registered bulls at \$75.00 each at farm. HALLOREN & GAMBRILL, Ottawa, Kan,



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The Maytag Gasoline Multi-Motor is a skillfully made, modern, dependable little gasoline engine, exclusively a Maytag feature, and so popular with farm homes that have no electricity, that Maytag has become the world's largest producer of engines of this type and size.

Compare the two washers above and you will see that the Multi-Motor takes about the same space as the electric motor. There are no belts to line up. It is a part of the washer and starts with a step on the lever,

T IS like adding a day of leisure to the farmwife's week when the Maytag does the washing. Of course, she will probably spend the extra hours with her garden, her chickens or her children, but it's a valuable gain anyhow.

There will be no more hand-rubbing when the Maytag comes—not even on the edges of collars, cuffs or wristbands, on overalls smeared with machinery grease. The Maytag flushes out the grimiest dirt by water action alone. That is why the daintiest clothes are safe in its satin-smooth, cast-aluminum tub—the tub that keeps the water hot for an entire washing, then empties and cleans itself.

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