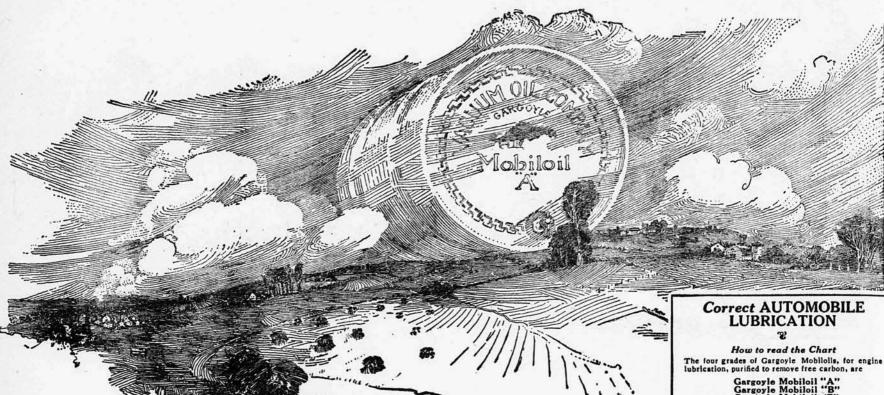
KANSAS SECTION THE CAPPER FARM PRESS

KANSAS FARMER and MAIL AND BREEZE

Vol. 58, No. 7.

Fe. ary 14, 1920





Correct TRACTOR LUBRICATION

How to read the Chart
The four grades of Gargoyle Mobiloils for tractor lubrication, purified to remove free carbon, are:

Gargoyle Mobiloil "A" Gargoyle Mobiloil "B" Gargoyle Mobiloil "BB" Gargoyle Mobiloil Arctic

In the Chart below, the letter opposite the tractor indicates the grade of Gar-goyle Mobiloils that should be used. This Chart is compiled by the Vacuum Oil Company's Board of Engineers and represents our professional advice on Correct Tractor Lubrication.

TRACTORS	Same	Winter	Summer	Winter	Summer	Waster	Summer	Winter		Seminor	1
Albaugh-Dover (Square Turn)	ВВ		ВВ		BB	4	BB	1	1	*	
(General Purpose)	AB	****	В		В		8	1	- 1	*	À.
Appleton	BB B	4	BB B	***	BB	***	*	1	SA D	*	A.
(18-36) (22-45) (15-30) (Waukasha).	BB	1256	BB	٨	BB	^	۸	1	4		
	BB	***	В	Ä	В		В	F	re	В	Α.
(5-10 H.P.)	Ä	1000			A	*************	BE	1	re	BB	X.
Bates Steel Mule	B	***	B	^	B A B BB	A		1:			
Big Bull Buckeye (Ohio)	B	A	A B B	**	BB	A	B	1	1	AB	A .
Coor	1	1			B A BB	1	В		200	B	A
" (0-18) " (10-20) " (12-25) " (20-40)		.4	BB	******	BB	^	AB	1	4	В	*
" (20-40)	ВВ		BB	A	88	1	В	1	^	В	۸
Common Sense	BB	****	BB	^	BB	1	^	1	A.	A .	A.
C. O. D	BB	^	BB		BB	1.03	123	de	339	PIGE	
Creeping Grip Breatingh'm(EB)9-1	ВВ	1	BB	A	BB		В	810	^	В	۸
(20-40) (Cleveland Coleman Col	1	1	AAB	*****	AABB	***	***	1	re	**	- SS-484
Plour City(Reeves	В	A	B	A	B	1	1	1	A UC	AAB	4
Flour City		A	AB	*		1:-	1.	а.	^	25.00	A
	ВВ		B	^	BE	A	B		^	В	۸
Grain Dolt	1 :	1.	В	A	B	1			٨	••••	
Hart Parr (Medal B) Helder Hession	BB	*****	BB	Â	BE	A	B		۸	B	A
	BB	A			12		1.	1			
Holt Caterpillar (Model 45) (Model 18)	BB	1	B	A	BE	1 4	B	B	۸	٨	A
" (Model 18)	B	3 193.5	В		I BI	3 A	ŀ.				:::
Illinole Indiana K. C. Prairie Dog	BE	A	BB	1.333		4					A
K. C. Preirie Dog Kinnard La Crosse	В	S. I Dec	B	^	1.72	1.0		+			::
Liberty	BI	A	BB	1	В	^	F	1	• • • •		
	BE	****	BB B	1	B	1	ŀ,	3	Ä	В	A
Minneapolis Moguł (I. H. Co.) (8-10) (I. H. Co.) Moline Universal National	BI	A	BB	I A	BI	***	B	В	^		::
Moline Universal.	BI		BE	1	BI	B		8	٨		-
Neverslip (20-12)	В		IR	1	В	BA		1	•		-
" (30-12) New Ass	IR	A I	IRE	1 4	B	0.65		1			
New Age. Nilson Off Pull (14-28, 10-30) (Rume	В		80			BA		В	٨	٨	A
" (20-40) (Rumely Co. " (12-20, 16-30) (Rume	B	9 /		1 1		:			:	::	1::
" " (12-20, 16-30) (Rume		B /	. 10		1.		1	1		1.1.	l
" (Rumely Co)	B	8 /	BI	3 /	B	B		AB	****	B A B	**
Pioneer Plow Boy	1	9 10	200		. I B	B /	E	8	۸	B	
Port Huron	. B	3 7	BI		B	B /	1	В	^	17	1::
Rumely (8-16)		1	B	1	1	3 7	1	A	۸	A	1
Russell	В	B	B	B	AB	B	1	A	A	B	A
Sandusky	: B	B	A B	B	AB	B A B B B B B B B B B B B B B B B B B B	1	A A A B B	Art	^	****
Lownsend	: B	B	AB	1100				5 B	٨		1::
Turner Trundaar	B	B	A B	B	Λ .	94.8				1::	1
		00.00	80 Da	34.15	2.	B /	1	B	^	1	1
(Model 15) (Model 16) (Model 12-20)	. B	B	ABA	8. 15	^	1				1	1::
Velie Wallis Cub (Junior). Waterloo Boy			. 1			BB	В	A	Ar	A	Ä
Waterloo Boy		B A B	A B		A	A	Â	В	A	B	1
Whitney-	. 18	B	AIB	B	A	A B	A 1.				4

Only One oil can be Best for your tractor or automobile

Are you using it?

T is cheaper to wear out oil than machinery"—is an axiom among automotive engineers. For this purpose the best oil is the cheapest. Only by using the correct oil can you be certain that your machinery is not getting unnecessary wear.

Tractor manufacturers in steadily increasing numbers are recommending Gargoyle Mobiloils for use in their tractors. In many cases the tractors carry a plate recommending the use of the grade of Gar-goyle Mobiloils specified by the Chart of Recommendations. And in some cases a supply of Gargoyle Mobiloils of the correct grade is packed with the tractor when it leaves the factory.

These manufacturers want you to get engine results. They know that by using the correct grade of Gargoyle Mobiloils you will.

The same reasoning applies with equal force to your automobile. Oil which breaks down under the intense heat of service, and whose body does not provide a proper seal for your piston rings, will not protect your engine from the costly wear that shortens its life and curtails its efficiency. In other words, such an oil does not give engine

The charts shown here specify the correct grades of Gargoyle Mobiloils for your automobile and your tractor. These Charts are recognized

the world over as authoritative guides to scientific lubrication. Make them your guides.

A grade for each type of motor In buying Gargoyle Mobiloils from your dealer, it is safer to purchase in original packages. Look for the red Gargoyle on the container.

VACUUM OIL COMPANY, New York, U. S. A.

Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

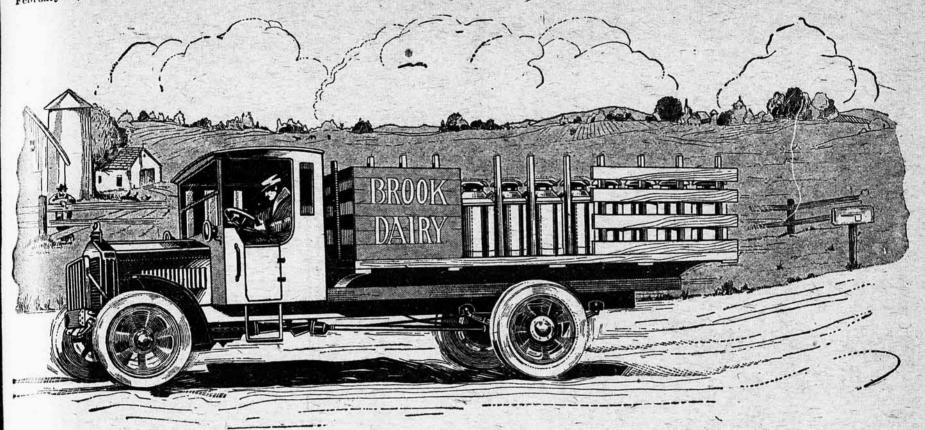
Philadelphia Detroit Minneapolis Kansas City, Kan. Pittsburgh Chicago Indianapolis Des Moines New York Branches: Boston

How to read the Chart

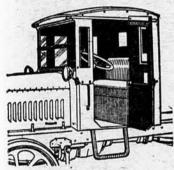
Gargoyle Mobiloil "A" Gargoyle Mobiloil "B" Gargoyle Mobiloil "E" Gargoyle Mobiloil Arctic

In the Chart below, the letter opposite the car indicates the grade of Gargoyle Mobiloils that should be used. For example "A" means Gargoyle Mobiloil "A." "Arc" means Gargoyle Mobiloil Arctic, etc. The recommendations cover all models of both passenger and commercial vehicles unless otherwise noted, This Chart is compiled by the Vacuum Oil Company's Board of Engineers and represents our professional advice on Correct Automobile Lubrication.

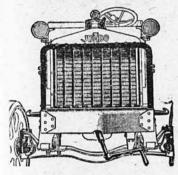
417		10	10	1.	1	nT dele	- 11	na dela	11 Me	1
AUTOMOBILES	Summer	Winter	Summer	Winter	Summer	Winter	Şummer	Winter	Summer	Winter
Allen	1	Árc.	A	Arc	٨	Arc	A	Arc.	A	Are
Auburn (6 cyl.) Auburn (6 cyl.)	Arc.	Arc.	Arc.	Arc	Arc	Arc	Arc.	Arc.	Arc.	Are
luburn (4 cyl.)	A	Arc	A	Arc		Arc	A	Arc	A	Are
Briscoe	^	Arc.		Arc		Arc	À.	Arc.	Α	
Buick	Arc	Arc	Arc.	Arc Arc	Arc A	Arc	Arc	Arc	Arc.	Arc
Chalmers			A	A		1	Arc.	Arc.	Arc.	Are
(6-40) (6-30) Chandler Six	Arc	Arc	Arc	Arc	Are	Arc	.Arc.	Arc	Arc.	An
Chevrolet (8 cyl.)	Are Are	I A	Arc	Arc	1 ^	Arc	Arc	Arc	Arc.	An
Cole		Arc	^	Arc		- A	. Arc	Arc	Arc.	Ar
Cunningham	1	1		- 2		1		Ä	Arc	An
" (8 cyl.) Dart " (Model C) " (1 and 3½ ton). Dodge Brothers Dorr Federal	Are	.Are	^	Arc	· ^ ^	Arc	A	Arc	Arc.	An
" (s and sis ton)	A A	Arc	****	Arc		Arc	- X	Arc	E	1
DortFederal	Are	Arc.	1 4	Arc A	Arc	. Arc	Arc	Arc	Arc	An
" (Mod. S-X) Federal (special)	::::	1::		Arc	B	^	1:	1		
Ford	E	E	ACBEA	AEA	EAA	A E A	BE	E	BEA	1
Franklin. Grant. " Com'l. " (Model 13)	4	A.	Â	Arc	Â	Arc	^	Arc		Ar
" (Model 13)	AAA	Arc		Arc		Arc	-	Arc		Ä
Haynes			1,000	^	^		.IArc	Arc	Arc	Ai
Umanabile	A	Are	AAA	Arc		Arc	^	Arc	A	A
Hupmobile Kelly Springfield King	^			^	1	52 1555	- CA		A	A
" (8 cyl.) " Commercial	1		. Are	Are	. Ar	An An	CAR		Arc	A
Kelly Springfield King " (8 cyl.) " Commercial Kissel Kar " (Model 48) " " (12 cyl.) Lexington Lippard Stewart		Are		Are		1.50		1^		1
Lexington	Are	Are		. An	c. Ar	c. Ar	Are	Arc	Arc	A
" (Mod.N	X		1::		A	Ar	c.I A	Arc	1:::	1
Locomobile	^	E		Ar	c. /	Ar	E	E	AA	A
McFarlan Madison (8 cyl.) Marmon		1::	200	100	1	Ar	I A	Are A	A	-
Marmon		c. Ar	c. Ar	.Ar	c.lAr	c. Ar	c. Ar	Are A	Arc	A
Mercer (32-70)	1	T 12							Arc	1
Marmon Maxwell Mercer " (32-70) Mitchell " (8 cyl) Moline-Knight	16			0 86				A		1.
Monroe			1 4	A	c. l i	A		E		
" (Mod. S)	1				c. Ai	c. Ar	c. Ar	c. An	Arc	A
Moon	1		. 4	A	C.I.		: ::			1
National	. fAr	c. Ar	c. Ar	c. A	c. A	c. A	c. A	Ar	. A	1
Nelson.	1	1	1 2			A A	1 1.			A
Oakland		1		1			A	I.A	Ari	
" (6 cyl.)	1					A A	. 7	· A	Are	
Overland	A	C. A	c. Ar	c.A	rc. A		AI		A	1
" Commercial.		1	1		A :	A :	1	1	A	1
Paige (4 cyl.) (6 cyl.) (6-36) (6-38-39)	A	re. A		c.A	100			c. Ar	c. An	16
(6-36) (6-38-39) (6-40)		A A			re.	A A	rc.		:	1
Paige (Com'l)	IA	A A	rc. A		rc.	rc. A	re A	re. Ai	c. Ar	1
Paterson			IA:	A A	A A	re A	A A	A A	c Ar	
Pierce Arrow.	h	rc. A	rc. A	rc.IA			rc. A	rc. Ai	A Ar	
Premier		rc. A	re. A	rc. A	re. A	rc. A	A A	rc. A	A Ar	c /
Danie (Barrett)		: 1.		6.8			rc.	4	re. /	V 1/
Reo		AAE	E E	AAE	rc. E	E.	E	E	E	
Selden		rc. A	rc. A	rc. A	Tr. 16	rc.lA	re. A	rc. A	re A	
Selden	::	B		A B	A	***	re A	AB A	A A	2
Studebaker		A IA	A.	A 1/	A.	A	A.	AA	A	
Velie (4 cyl.)	A	200	rc A	re /	rc.	ire.	irc. A	rc. A	re A	c
" (2 & 3½ ton). " (½ ton)			rc.	A	rc	Arc.				
Westcott		A A	rc. A	re A	Arc.	Arc.	Arc.	rc A	rc. A	
White (3 ton)		Â	A	re.	rc.				100	В



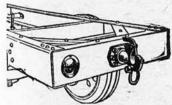
JUMBO-The Complete Truck



Steel cab with three-man seat, fore doors and sliding sash curtains.



Radiator guard, shutters, pig-tail towing hooks, over-size ball thrust in steering knuckle.



Reinforced frame, tail light mounted flush with frame, spring draw bar for trailers.

WHEN you buy a Jumbo, you get a complete truck. There are no extras to buy except the body most suitable to your particular business.

Jumbo trucks are built stronger than other trucks to give you more years of steady, dependable service at lowest possible upkeep cost. All equipment that makes for efficient operation is standard on Jumbo trucks

This generous provision in the matter of equipment, listed on this page, is typical of Jumbo construction throughout. Jumbo trucks must give you unusual service --- that's the idea around which our business is built.

Standard Jumbo Equipment

Includes steel cab with four doors, windshield, sliding sash curtains opening with doors, electric lights, storage battery, generator, ammeter, radiator shutters, motometer, fan shroud, radiator guard, extended frame forming bumper, hub-odometer, pig-tail tow hooks, spring drawbar, and 14 other big features.

Space won't permit description of design features that positively assure longer life and lower upkeep cost than any other truck built today.

Jumbo Trucks are ideal for farm haulage. Write for full information showing why.

NELSON MOTOR TRUCK COMPANY SAGINAW, MICH.

We Also Make the Famous Jumbo Farm Engine

Wichita Automobile Co.
Wichita, Kansas

Distributors





KANSAS FARMER and MAIL AND BREEZE

Athur Capper, Publisher

Vol. 58

February 14, 1920

No. 7



A Modern Home at Geneseo By Ida Migliario

side of these sinks one finds more work table space, the glass top being again used. Underneath the table and at each side are large utensil cup-boards, as well as cutlery and kitchen linen drawers. The space just below the sinks was not enclosed for it was

felt that some place was needed in which the children could keep their "Kiddie Kars," doll buggies and the like and so in this open space one

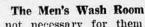
On the north side of the kitchen is the food cupboard which is really a cold storage cupboard. A small opening was made which extends to the outside of the house, and a screen was placed over the opening so cold air can enter the cupboard. There is no danger of food spoiling, and Mrs. Newkirk says this cooling window cuts down her ice bill. Of course in extremely cold weather this opening can be

sees the little girls storing their larger playthings.

to the food cupboard on the kitchen side. Mrs. Newkirk can store her canned fruits and vegetables in this place for it, too, is kept cold by the cooling window. Excellent home manage-ment is shown by the complete equipment of an emergency shelf in this store room. Mrs. Newkirk says that because she cannot run across the street to the grocery store she feels it necessary to keep her emergency shelf well supplied with canned cheese, salmon, cauned dried beef, canned oysters, peas, beans, rice, crackers and so on, for then she is always ready for company. The clothes chute which extends from the upstairs to the basement passes thru this store room and is very convenient.

Because it is necessary for the Newkirks to have many hired men it was thought wise to have the stairway easily accessible from the outside. One can go from the store room upstairs or out of doors, but it is not necessary to pass

or out of doors, but it is not necessary to pass
thru the store room to reach the stairway. A
door leads from the dining room to the
stairway, also. At this particular point
where the outside door, the store room and
stairway door are to be found, a wash
room has been built for use of the men.

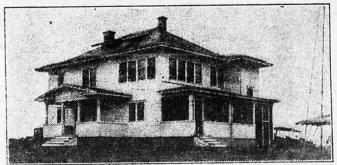


It is not necessary for them to enter the main part of the house to wash. This room has an outside entrance, a cement floor and is equipped with lavatory, mirror and towel racks. One also can reach the basement extends under the entire house and it is divided into rooms. The laundry has not been equipped as yet but the room has not been equipped as yet but the room

set aside for this purpose is very large and offers plenty of space for a drying room.

Mr. and Mrs. Newkirk expect to install an electric washer and laundry stove soon.

Until the laundry is finished Mrs. Newkirk has solved the problem of carrying water with which to wash by attaching the garden hose to the pump and taking it into the washing machine; the windmill does the rest. She like wise fills her reservoir in this manner, and the dirty water is drained from the washing ma-chine by using the (Continued on Page 18.)



The Modern Home of Mr. and Mrs. C. S. Newkirk.

HAT six good sized windows in a kitchen need not make it impossible for one to have plenty of cupboard room is well demonstrated in the home of Mr. and Mrs. C. S. Newkirk, who live on a farm 61/2 miles from Geneseo, Kan. The kitchen is on the southeast corner of the house and naturally gets spulight the wear around. On the south gets sunlight the year around. On the south side of the room are three half-length windows and around these is a very unique cupboard

and around these is a very unique cupbo arrangement which serves many purposes. Above the windows the space is taken up with three "catch all" cupboards. By having them built to the ceiling there is no chance for dust to collect on top. These roomy cupboards provide a place for keeping wrapping paper, twine, hammer, nails, tacks, and the many, many small things that are so necessary about a house.

Cupboards for Supplies

On each side of the windows cupboards were built for such supplies as spices, salt, pepper, corn starch, soda, baking powder, cocoa, chocolate and cream tartar. Beneath the windows and connecting these two cupboards one finds a mixing table. This table has a thick glass top so it is not necessary for Mrs. Newkirk to bother with bread and pastry boards, for the glass makes an excellent kneading board and it is easily cleaned whenever it is necessary to do this

cleaned whenever it is necessary to do this.

Underneath the mixing table and extending on down to the floor is more well planned cupboard space. At each end and corresponding with the supply cupboards at the sides one finds a place for the children's playthings. One excellent feature is the fact that the two little Newkirk girls-even the Francis is only 4 years Newkirk girls—even the Francis is only 4 years old and Margery 16 months—know that these cupbeards were built for their use, and when they have finished playing with their toys they take them back to the cupbeards and put them away. In the space between these two floor cupbeards are two doors which, when opened, swing out bins which have been fastened to the inside. A large flour him opens on the to the inside. A large flour bin opens on the right side and a sugar bin on the left.

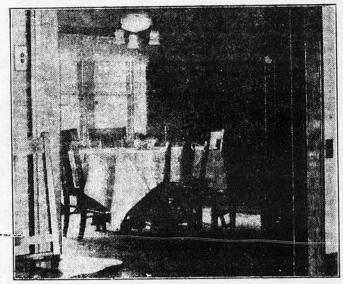
And so these three windows are simply en-cased by cupboards and if one stops to analyze the contents of the supply shelves he realizes that Mrs. Newkirk has right at her fluger tips all the ingredients necessary in combining recipes. An equally interesting plan is found on the east side of the room where three more half-length windows have excellent cupboard space beneath them. The table under these space beneath them. The table under these windows, which is built for general use, is of such a width as to allow two kitchen sinks to be placed side by side in the center of the table space. This arrangement was chosen so that by using a stopper plug—such as one finds in a bath tub—in place of the usual sink drain. Mrs. Newkirk could wash her dishes in one sink and rinse and drain them in the other without having to bother with dish pans. On each

closed. Next to the food cupboard and near the dining room door is the china closet. The west end of this closet is used as a place for the "built in" ironing board. This board is set on hinges so it can be swung up into the cup-board and the door closed. The socket for the electric iron also is built in this iron board closet.

On the north side of the kitchen is a large coal range and also a kerosene range. Mrs.

Newkirk says the coal range is not used very much for she finds the oil range answers her needs unless she has an unusually large number of hired men to cook for, and then she often uses both stoves. Mrs. New-kirk also finds that the glass door in the oven of her oil range is an ex-cellent feature for it does away with her having to open the oven door to watch her foods bake. One also finds ized cleaning closet on the north side of the kitchen, and in this closet a small shelf near the top offers a place for keeping furniture and stove polish, as well as dust cloths. Beneath the shelf there is plenty of room for keeping the broom, dustless floor polisher, weighted wax mop, carpet sweeper and dust pan.

The kitchen is very attractive behard wood floors, which are like those found in the other rooms in the house. Opening off the kitchen one finds a large store room equipped with shelves and cupboard space. The cupboard is built so it extends thru



The Attractive Dining Room is an Interesting Feature.

DEPARTMENT EDITORS Dairying Department Dr. C. H. Lerrigo Medical Department C. E. Jablow Parm Engineering C. E. Jablow Poultry I. B. Reed Young Folks' Pages. Bertha G. Schmidt

Entered as second-class matter February 16, 1906, at the postoffice at Topeka, Kansas, under act of Congress of March 3, 1879.

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Member Audit Bureau of Circulation.

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this issue is reliable. Should any advertiser herein
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good the amount of your loss, provided such transaction occurs within one month from date of this issue,
that it is reported to us promptly, and that we find
the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw
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and Breeze."

Passing Comment—By T. A. McNeal

♦HE GERMAN mark has an exchange value of 1 cent in American money. The American soldier in Germany exchanges his month's pay for 3,300 marks, which prior to the war would have been worth \$425 in our money. That means that the present German government is practically without credit.

In other words Germany is bankrupt.

The French franc is not worth more than 7 In pre-war times it was worth almost 20 cents. The Italian lira worth at par practically the same as the French franc, is now worth in our money approximately 6 cents and seems to be going lower. The English pound sterling, worth at par \$4.86 is now worth only \$3.43. The money of Austria is worth practically nothing. Russian Bolshevik money is possibly a little less than the paper it

is printed on.
All of this seems to spell bankruptcy for Eu-Loaded down with a war indebtedness of 200 billion dollars, the indications are that the people of those countries can never carry the load. And suppose Europe goes thru bankruptcy, what of it? What will be the result so far as the world in general is concerned and so far as the United States is concerned? The first result in all probability would be to precipitate a panic in all the money and stock markets of the world. But it is my candid conviction that not only would the final result be beneficial to the world in general and to Europe in particular, but that it is necessary to preserve the world from revolution and anarchy.

The sources of wealth have not been destroyed by war. There has been considerable damage done it is true and it would be a considerable time before industrial production could be restored, but with the load of debt lifted from the backs of the wealth producers, within 10 or 15 years the world would be a richer world and a vastly better world to live in than it ever has been. It would mean of course that the allied nations might have to forego a part of the indemnity demanded from Germany. would also mean that the United States would lose the money amounting to several billions lent to France, Italy and England, but it would also mean that the wealth producers would not be weighed down with intolerable bur-dens of debt, on which they are not able to pay the interest to say nothing of the principal.

It would also impress a valuable lesson on all classes showing the futility and destruc-tiveness of war. In war the nation calls on its sons to go out and risk their lives and in many cases lose them. It takes them from their business and compels them to sacrifice not only their time but the opportunities for ac-cumulating property while they are in the service. There is no promise that they will be recompensed for this loss. On the contrary, unless they happen to be disabled, in which case they are granted pensions, very small in most na-tions, they get nothing at all, except the meager monthly wage.

Those who lend money to the governments in time of war, however, while claiming great credit, demand that the government shall not only give them a first lien on the government revenues and pay them a liberal interest, but that the bonds shall be paid in dollars with a vastly greater purchasing value than the dol-lars with which the bonds were purchased. As a result of this policy the value of government bonds increases in value in proportion as other property decreases in value as measured by the dollar.

As a result of the war this government is loaded up with an enormous debt, the annual interest on which will amount to more than the entire cost of running the government before the war. These bonds are now selling at a discount varying from 2 per cent to about 11 per cent. They are rapidly passing out of the hands of the small owners.

At present prices these bonds yield approximately 5 per cent and are entirely exempt from taxes of any description except that in the case of some of the bond issues, if the revenue from bonds exceeds \$5,000 a year, income fax must be paid on the excess. That means that the holder may have \$125.000 in bonds entirely free from taxation. While these bonds are bought

with money of greatly reduced purchasing power, the bond holder will demand that they be paid in full with the best money in the world.

What this government should do is to take up all of these interest-bearing bonds, redeem them with non-interest-bearing bonds payable in from one year to 10 years and then provide for revenue sufficient to pay off one tenth of the total indebtedness each year until all is paid. This would insure the bond holder of getting back all he puts in and more, because he will be paid par for what he can purchase at a discount and in money of greater purchasing pow-er than the money he paid for the bonds. The holder would also have the privilege at any time of exchanging his bonds for currency. The result of this would be to save the people of the United States in 10 years nearly 15 billion dollars interest. It would also force the holder of the non-interest-bearing bond to exchange it for productive capital and invest in some productive enterprise, which would employ labor and add to the improvements and wealth of the country. There is no doubt whatever that this would benefit the country, but heretofore the interest gatherers have been able to control Congress and, perhaps, will do so again.

If so we are due for another period of discontent vastly more with pread and dangerous to the peace of the country than that which occurred a few years after the Civil War. The reasons why the discontent will be greater and more dangerous is that the debt is greater even in proportion to the entire wealth of the country, than was the Civil War debt and the second reason is that while formerly the government revenue was largely derived from indirect taxation, at present the greater part is derived from direct taxation.

Under the old Mosaic code every 50th year was set aside as a year of jubilee, when all debts were wiped out, bondmen set free and the people permitted to start even. It would in my opinion be a benefit to the world if there was a general year of jubilee declared, the old national debts wiped out and the producers of the world permitted to start on a new era of wealth creation unhampered by national debts.

Value of a Government

NE OF OUR readers, Joseph L. Patrick of Keystone, Okla., quotes from an editorial of mine in which I said: "The only government worth preserving is that which affords equal justice and equal protection to all of its citizens however humble." Then Mr. Patrick continues:

"If what you say is true our government is not worth preserving. Why then have you so much to say about Bolshevists and that they should be sent out of the country? According to your theory they have a God-given right to destroy the government and try some other which might be for the worse or might be for the best. I deny that such is the case. While there is great dissatisfaction as to the way the present Administration is doing things, I deny that there is any excuse for destroying the gov-ernment. We yet have the Constitution and I hope we will still continue to keep it as a sacred instrument. I deem the Constitution as perfect as a God could make."

Well that is going some. I think the Constitution was a very remarkable instrument, but the people of the United States thru their legisla tures have seen fit to amend it 18 times and are about to add the 19th amendment. This Constitution which Mr. Patrick regards as in-spired and the perfection of divine wisdom, permitted the institution of human slavery; it contained within itself the seeds of an irrepressible conflict and while in the great and bloody strife between those two irreconcilable ideas, the right prevailed, the fact that such a bloody conflict was necessary to settle the compromise which the Constitution permitted, certainly shows that it was not as perfect a work as an all-wise God could devise.

However, my own statement quoted by Mr. Patrick is undoubtedly subject to criticism, in that it was made without qualifications, which I assumed but did not express. When we speak

of a just government of course we mean relatively just, because government, being human, is necessarily imperfect. No government has yet been devised that does afford exactly equal justice and protection to each of its citizens. If we demand that perfect government we can-not find it and probably never will achieve it and if my statement is to be taken literally then no government is worth preserving and none can be devised by imperfect men that will be worth preserving. What I mean to say is this; that no government which deliberately pursues a policy of injustice toward any part of its citizens should be preserved. That does not mean however that even a government which does not undertake to do justice to all of its citizens, however humble, should be destroyed. The government of the United States prior to the Civil War protected the institution of human slavery, a monstrous wrong and injustice, yet the loyal North organized and equipped vast armies for the purpose of preserving that government. That was right. It was the duty of the freedom-loving citizens of this country to change their government and rectify the great wrong. I will say that a government which protected this inhuman institution and persisted in it would not be worth preserving, but our citizens have the means of changing their form of government to make it a more just and equitable government.

My objection to the Bolshevists and anarchists is that they are not willing to under-take to change the form of government thru the channels provided by our Constitution and our laws. They propose to overthrow it by violence and they propose also to rule by the minority and not by the majority.

And here comes W. H. Bibler of Garden City who writes: "I have been reading the Kansas Farmer and Mail and Breeze all winter, reading and thinking." I may say that is a most admirable course to pursue, provided the reader reads with an open mind and thinks sanely, but the water further from Mr. Bibler. "I have to quote further from Mr. Bibler: "I have come to the conclusion this old United States of ours is in bad and all the remedies offered by the editor, fellow readers and Congress do not appeal to me as offering a cure."

That of course lets me out, but then I seem to be in distinguished company. However, out of his mental processes Mr. Bibler has reached some conclusions on his own account concerning the proper remedies and here they are:

some conclusions on his own account concerning the proper remedies and here they are:

1. Stop foreign immigration of labor and take care of our own laborers; business institutions are costing the public too much.

2. Deport all the foreign element which is not satisfied with our government.

3. Have the greatest book of the ages, the Holy Bible, taught in our public schools. No wonder conditions are as they are with the prevailing ignorance of the Bible.

4. Enforce education. I know that we have a compulsory educational law but it is not enforced. Do not stop with the grades but enforced a high school education. We are spending millions to police the United States. Why not educate?

5. Put a lid on Sunday amusements and business. Force people to attend church and Sabbath school.

6. Teach people to have more reverence for our Lord and Master and they will soon have more for their fellow men. Our government talks nothing but force, force, force and leaves Christ entirely out.

Force alone will not make good citizens. You must include love. We do not desire military training. We fought Germany to do away with militarism. We proved to the world that our untrained soldiers made better soldiers in the last war than military made ones.

Do I wish to send my boy to a military camp, from a pure life to the temptations, vice and wickedness that will be set before him there? No.

7. Leave the declaration of war to a vote of the people. That will form the best League of Nations, for the masses are the ones who sacrifice life, blood, homes and their loyed ones and then live slaves themselves to the debt created by war.

No, we do not desire militarism. I am a Republican bred and born. My father went with Sherman to the sea, but I will never vote for a Presidential candidate who stands for military training.

Now there is a letter which seems to me to be a rather strange mixture of idealism and in-

Now there is a letter which seems to me to be a rather strange mixture of idealism and intolerance. The writer would compel everybody to go to church and Sabbath school. He would compel the observance of Sunday and forbid all Sunday recreation. This is reverting to Puri-

tanism and the blue laws with a vengeance. Religious liberty is the corner stone of our republic and to attempt at this time to enforce a religious rule upon the people would not only be subversive of our liberty, but would be impossible. To undertake it would most certainly

precipitate a revolution.

Love of Christ cannot be created in the human heart by human law, and right here Mr. Bibler contradicts himself; after demanding that men and women shall be forced to attend church; forced to go to Sunday school; forced to refrain from Sunday amusements; forced to get not only a grade but a high school education, he then decries force and criticises the government for employing force, instead of love. The hearts and minds of men cannot be turned to the teachings of the Nazarene by Puritanical laws and intolerant enactments. That has been tried and always has failed and always will fail. Mr. Bibler's views on militarism meet with my approval.

J. F. Shughart of Winchester, Kan., writes me advising that I back up on my suggestion that Heary Allen might be a good candidate for President. He commends Governor Allen highly for what he has done in the coal strike, but recalls that he made a speech before the convention of governors a little over a year convention of governors a little over a year ago in which he said that Kansas would be in favor of compulsory military training and then a little later had it arranged that General Leonard Wood should address the legislature.

Continuing Mr. Shughart says, "For fear you may not yet know just where I stand on this military question, I will say that I am first, last and all the time always positively proposed."

military question, I will say that I am first, last and all the time always positively opposed to it and will not knowingly help any one who advocates it. The accomplishments of the American army have easily and ably refuted any charges made of unfitness for service because of insufficient training. Kaiser William made the mistake of his life in thinking that it was necessary to make machines out of men. You will remember how he insultingly remarked You will remember how he insultingly remarked that advent of America into the war was of little or no significance by reason of her unpreparedness. Well, did he get his props knocked from under him? We think he did. We were in active war work for about one and a half years and I don't expect to live long enough to see the evil effects entirely erased. There is plenty of the military spirit in both the leading parties; let us weed it out. People everywhere are anxious to see normal conditions restored. Let us help restore them.'

If I believed that Henry Allen if elected President would favor the enactment of a compulsory military training law I certainly would not support him. I have talked with him and do not believe that he would favor such a policy. He has favored the nomination of Wood and seems to have a notion that Wood is not in favor of militarism. In that he is badly off and I have been trying to make him see that under no circumstances should Wood be nominated.

I may say that I am getting letters from all parts of the state and talking with farmers from all parts of the state. The opinion of these men from the country is practically unanimous against compulsors training and are letters. nated. mous against compulsory training and against Wood as a candidate. In the cities and towns General Wood seems to have considerable support among the politicians who do not know what the sentiment of the country is. But while I am entirely satisfied that a large number of the Kansas Republicans are not for Wood, he may get the delegation because of the lack of organization among the voters who are opposed to militarism.

If General Wood is nominated the only thing that will make it possible for him to carry the state of Kansas is the general disgust among the voters caused by the reckless extravagance of the present-National Administration. Were it not for that, if the Democratic party nominates a reasonably able and acceptable candidate and Wood is the Republican candidate the Democrats will carry the state as Wilson carried it

Do not labor under any delusions concerning the Kansas voters. They are no longer tied to party. They will not hesitate to scratch their tickets if their candidates do not suit them. Old time party slogans do not greatly impress them any longer. They know perfectly well that fundamentally there is very little difference between the two old parties and they are going to vote for the candidates they think will come nearest carrying out the policies they wish car-

Just now a majority of them are sore on the Democratic Administration, because they think it has been a profligate Administration. The expenses of the government used to be paid almost entirely by indirect taxation and the individual citizen did not know when he paid his share. In fact he had a kind of delusion that the general government did not cost him individually anything. It is not so any more. Com-

paratively little of the national income is raised now by indirect taxation. The individual citizen is soaked for some kind of federal tax at every turn. He knows now that his government is not only costing him something but it is cost-ing him a whale of a lot and he yells when the shoe pinches and the government collector calls on him to dig up.

He is running short of saliva from licking revenue stamps and spends many anxious hours trying to figure out how much income tax he must pay. His natural disposition is to vote against the Democratic party next election, but he also understands that a large part of this enormous expense is the result of the war and he is in no humor to keep on supporting a vast military organization. Neither does the lad who did his bit in the Great War and did it well did his bit in the Great War and did it well feel kindly toward the compulsory military training idea. He knows what it is to be compelled to "kow tow" to shoulder straps and have to take orders from some commissioned officer who is not worthy to tie his shoes. When he thinks of it he boils over and is against any candidate who represents that idea. The leaders of the Republican party must not hug the delusion that they can win with anybody or that they can put a militaristic policy across for they cannot do it.

Compulsory Military Training

KEEP up the fight against compulsory military training." So writes Mrs. C. V. Simpson of Minneapolis, Kan. I might quote from dozens of similar letters from men and women in Kansas and Oklahoma. The advocates of compulsory military training do not under-stand the spirit of the American people. They keep reiterating the tiresome claim that military training will develop the young men of the country in a physical way and teach them respect for authority. The best citizen, in fact the only kind of a citizen worth having in a republic like this, is one who has an intelligent respect for proper and lawful authority but at the same time feels himself the equal of any other man no matter what position of authority the other may hold.

For instance, the ideal citizen has a high respect for the office of President of the United States and for the office of governor. He recognizes the right of either the President or the governor under certain conditions to call on him to leave his business and give his time and services to the general government or state, but at the same time he expects to meet either the governor or the President as his social equal. If he were required every time he went into the office of the governor to stand at attention, click his heels together, give a military salute and then wait until given permission to speak, he would have a feeling of hatred toward the

governor or the President.

Our military system has been handed down to us from the time of the Prussian Von Steu-ben. It has all the faults of the Prussian sys-It creates a military caste. Some years ago I was visiting Fort Riley. A cavalry officer was riding out over the reservation. Be did the regulations require the aide to ride so many paces to the rear? The natural place forthe aide would seem to be at the officer's side where he could be addressed easily. The reason of course was to show that the aide was an in-ferior person. He must not presume to ride in company with his commanding officer. At that the aide had many more privileges than the common soldier, who must hold communications with his commanding officer turn the medium of some noncommissioned officer designated by the army regulations. For the soldier to approach his commanding officer as the citizen would approach the governor would subject him to severe punishment. Is it any wonder that the common soldiers came home from France sore on their officers? Is it any wonder that these men who served in the ranks are almost uni-versally opposed to compulsory military trainversally opposed to compulsory military training? It is this abominable system which the advocates of compulsory training wish to foist upon this country. As Senator Borah has well said: It is the very tap root of militarism against which the world war was supposed to be waged. There is a systematic propaganda being spread thru the country. The paid agents of the organization back of this propaganda have been traveling over the country for the past three years at least. I have been visited by several of these agents; well groomed and well fed; they have their arguments learned by rote as parrots learn to speak certain sentences. Who pays these men?

Evidently there is money and abundance of it behind the movement. I confess that when I see one of these traveling distributors of military propagated or when I read some of their

tary propaganda or when I read some of their literature it has a tendency to make me see red. I say now, as I have said before, I will not knowingly support any man for either President or Congress who favors compulsory military training. Europe's Greatest Confidence Game

PERSON may be a large taxpayer and not own an inch of real estate. For this reason I believe all the people are vitally concerned at this moment in the stupendous scheme to saddle this country with a so-called international loan of 35 billions of dollars that would scarcely be worth the paper on which it was written. I have said something about this before but find it difficult to do the subject justice. As a people we have learned one lesson so thoroly this last year that we have got it by heart, as the boys say. It is that business passes its taxes to the consumer by adding the cost of them to the price of the goods and that every time we buy anything we are paying some of these taxes.

It can be imagined what such a gigantic loan to England and to Europe as 35 billions would mean to this people, who already have lent Europe 10 billions of dollars on which not a cent

of interest has yet been paid.

The Secretary of the Treasury enumerates, that since the armistice the Treasury has made direct cash advances of \$2,380,891,000 to the allies, with \$736,481,000 additional thru purchase of their currencies to cover United States expenditures in Europe; and has sold them on credit 658 millions in supplies; has expended 100 million dollars in relief, and has allowed \$324,211,000 in unpaid interest to accrue.

It is now very plain that Europe has long intended to make this nation responsible for the war debts of the allies. This, it now appears, was to take the form of another and more gigantic loan with no real obligation to repay. It was the original plan to execute this "loan" thru the League of Nations. But the Treaty was not ratified and now it will not be except

with reservations.

with reservations.

This sack was to contain the financial burden of the larger part of the allies' war debts and include a virtual taking over of Great Britain's huge war obligations. The aid of some of our big bankers has been enlisted in this scheme. The recent demand that this country go back to war rations and squeeze-every in the country of the country of the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every in the country go back to war rations and squeeze-every go back to war rations nickel for a year or more to pile up funds to "finance" Europe and so help our sorely pressed profiteers to "keep it up" a little longer, came from this source.

Other evidence comes from across the Atlantic. A few weeks ago, Lloyd George sig-nificantly announced in Parliament that arrangements for a large international loan were necessary and "that the United States should contribute in dollars that part of the expenditure which is to be incurred." A member of the French Chamber of Deputies declared this country had made money during the war and should now be required to pay "its share" of the allies' war debt.

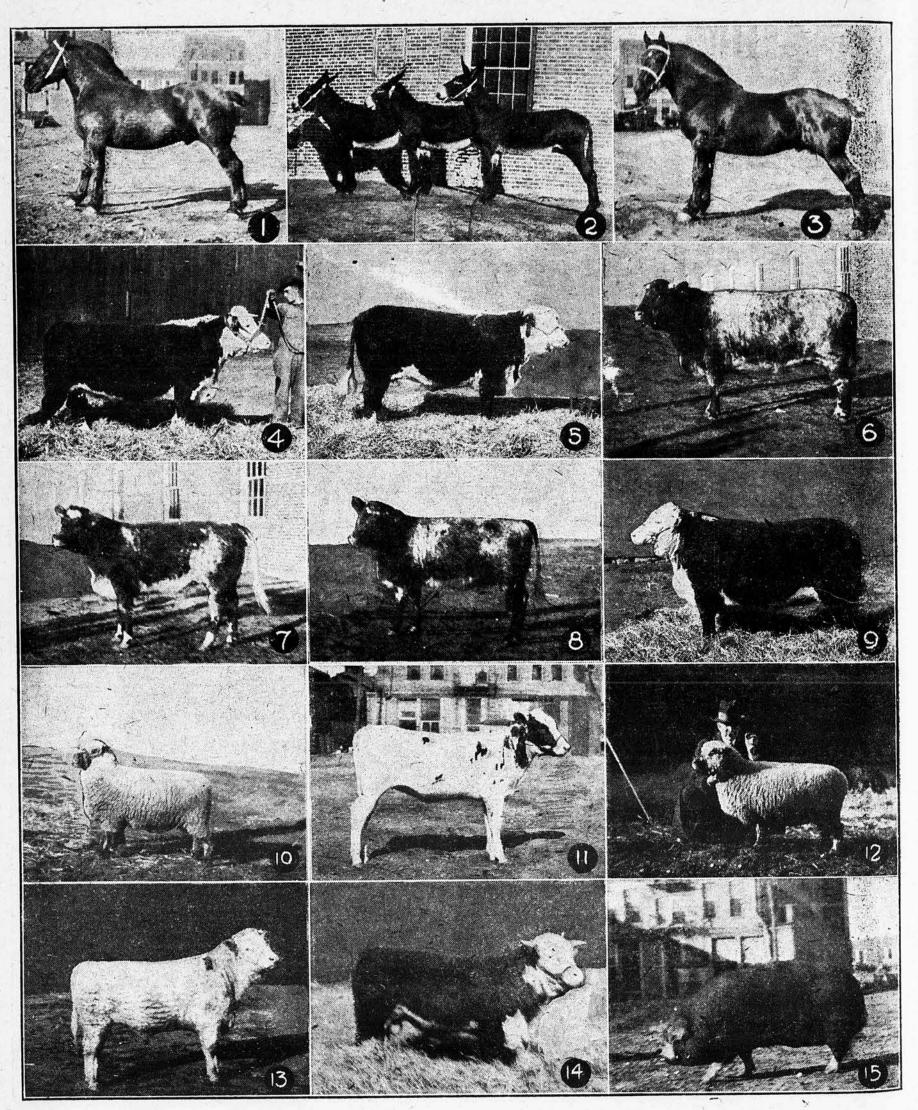
Accompanying this there has been much propaganda for the purpose of having us cancel the 10 billion dollar debt the allies owe us. Think of canceling a debt of 10 billions, then Think of canceling a debt of 10 billions, then lending the creditors 35 billions more and becoming the endorser on the creditors' note! Never before has such a gigantic confidence game ever been dreamed of or attempted. And Uncle Sam is expected to fall for it. These manifestations have been followed by a visit to New York and Washington by Viscount Grey and Sir George Phich. It was Sir George who and Sir George Paish. It was Sir George who really spilled the beans. In a newspaper interview in which he gave details and figures, he declared his mission here was to conclude a loan which would stagger the world.

The British government hastily disclatmed Paish had any official connection with it—a diplomatic expedient not uncommonly reserted to when a missionary blunders-but the matter has now been so plainly disclosed there can be no denying it. The outgoing Secretary of the Treasury has made it plain what he thinks of the proposition to shift upon our shoulders the bulk of the world's war debt in addition to the 30 billions of our own-a staggering total not far surpassed by the greatest of the allies in four years of war. Not to mention the 5½ billion dollar deficit.

What Europe needs most is to go to work, Nothing else will so quickly restore it to health and reason and end its present ills. When Europe finds nothing further is to be gained by playing the mendicant and passing the hat, I predict it will go to work. We can show it no greater kindness at this time. In the same way we must buckle down to our home problems which demand our utmost efforts and all the hard-headed the hard-headed food sense of which the Capper.

Washington, D. C.

Winners in Kansas' Greatest Livestock Show



Kansas Owned Animals Which Won in the Kansas National Livestock Show, Wichita

1—Carmet, 5th prize Percheron 2-year-old stallion, H. G. Eshelman, Harvey County. 2—From left to right, Cecil Boy, 1st prize aged and grand champion jack, W. B. Smith, Washington County; Gov. Wood, 1st prize 3-year-old jack, W. C. Ellidge, Bourbon County; Legal Tender, 1st prize 2-year-old jack, Jim Godman, Bourbon County. 3—Castillo, yearling Percheron stallion, Ira Rusk, Sumner County. 4—Echo Lass 111th, 3rd prize Hereford 2-year-old heifer, V. O. Johnson, Marion County. 5—Buleen 3rd, junior champion Hereford heifer, R. H. Hazlett, Butler County. 6—Lady Supreme, grand champion Shorthorn cow (junior yearling), Park Salter, Sedgwick County. 7—Supreme Clipper, 2nd prize Shorthorn senior heifer calf, H. B. Gaeddert, Reno County. 8—Lady Marigold, 2nd prize Shorthorn junior heifer calf, Tomson Bros., Osage County. 9—Echo Lass 162nd, 2nd prize Hereford junior yearling heifer and top female in the Hereford sale, Carl Miller, Wabaunsee County. 10—Second prize Shropshire ewe, Gilmore & Haig, Marion County. 11—Miss Paul Fobes Johanna, Victor Stuewe, Wabaunsee County. 12—Champion Shropshire ewe, Gilmorelands, Wilson County. 13—Village Viscount, 7th prize Shorthorn senior bull calf, Fremont Leidy, Butler County. 14—Beau Onward 86th, 6th prize Hereford senior bull calf, Klaus Bros., Doniphan County. 15—Liberty Belle 1st, grand champion Poland sow, Deming Ranch, Labette County.

For Larger Crops of Timber

The Yields of Lumber From the Farm Woodlots of Eastern Kansas Can be Increased Greatly by Good Management

ARM WOODLOTS contain per-haps the most neglected crop in Kansas. With the increasing prices required for lumber, posts and fuel it is of the greatest importance that the timber of this state ance that the timber of this state should be used to a better advantage. The value of almost all of the wood-lots of Kansas can be increased by im-provement cuttings. This is especially true along the streams in Eastern Kan-sas, where the stand has been allowed to decline in many cases until it consists of 60 per cent or more of White

The ideal is to get as valuable a crop as possible from the timber. This requires a selection, of course, for there are more than 70 trees native to Kanare more than 70 trees native to Kansas. About 40 of these grow below the 1,000-foot line, and only six above the 3,000-foot line. Forest specialists divide Kansas into six belts, depending on the rainfall and the altitude. This state offers very complex problems in forestry; the difference in altitude and the variation in rainfall, which is from 44 to less than 20 inches, makes from 40 to less than 20 inches, makes the selection of varieties largely a matter of local experimental work. You can get the results of the experimental work of the Kansas State Agricultural college if you will write to Albert Dickens at Manhattan. The state is growing millions of trees adapted to planting in Kansas at the Fort Hays Experiment station; you can get a circular in regard to these if you will write to Charles R. Weeks, of Hays, the superintendent. from 40 to less than 20 inches, makes

Then Elms Arrived

The trees in the woodlots of Eastern Kansas are much inferior on an average to the first stand. The growth found by the early settlers consisted largely of oak, walnut and cottonwood. The walnuts and oaks were first cut by the home builders. This growth was followed by elms; these growth was followed by elms; these trees do well in their earlier years in partial shade, and as the more valuable growth was removed they came in to occupy the ground. Elms produce a dense shade that prohibits anything except the more tolerant species from gaining a foothold. Thus the value of the stands has declined.

To improve the stand the owner of the land must practice selective cut-He must eliminate the more undesirable species and the poor trees of the better varieties. Especially must an effort be made in fighting the "weed" trees, of which the blackjacks hear Toronto are perhaps the best ex-

F. I. Kenoyer of Montgomery county, who has had an opportunity to study the woodlot problems of Eastern Kansas, believes that a considerable planting campaign is in order. "On nearly every farm," said Mr. Kenoyer, "there is some land that is difficult to cultihighly profitable by utilizing such lands for the growing of trees. Aside from the value of the poles, posts, fuel and lumber produced by these plantings they will serve as windbreaks for the farm buildings, shelter the farmer's livestock, prevent the washing of valuable soil into the streams, enrich the soil by adding humus and they will add to be come to the soil of the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add to the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will add the soil by adding humus and they will be soil b per cent to the cash value of the

farms they occupy. The most rapidly growing trees should be planted for quick returns to heet the increasing demands for lum-The humble cottonwood is one of the best trees to plant for future profit. It will grow anywhere in Kansas. It It will grow anywhere in Kansas. It will make a sawlog quicker than any other tree you can plant. It is not barticular what kind of soil you plant it on. It grows readily from either seeds or cuttings and is easily transplanted. It requires little cultivation and this adapts it to lands that are difficult to cultivate. It is easily worked into firewood and makes excellent cookstove fuel and fairly good cellent cookstove fuel and fairly good fuel for the heating stove or furnace.

By F. B. Nichols



Near Hays: a Big Revival in Forest Planting Probably Will Take Place This Year in Western Kansas,

sheathing and boxing boards, and is one of the best timbers for barrel, box and crate materials. When it is for lumber is rapidly on the increase, treated with a preservative it can be used for posts and telephone poles. A ready market is sure to be found for the products of a treat that has so many the timber lands of our country have makes excellent frame timbers, the products of a tree that has so many uses as the cottonwood. The demand for cottonwood is already so great that the pulp manufacturers have had their agents traversing our state and counting the cottonwood-trees along our streams to locate the future supply of material for their products.

"The catalpa is a profitable tree for the farm woodlot. While this wood has generally been used almost exclusively for fence posts it is a beautifully grained wood and is well adapted for furniture and cabinet work, and for either exterior or interior finish. Its lasting quality when exposed to soil or weather is well known. The catalpa grows readily either from seed or when transplanted from the nursery row. It is easily worked and makes a good grade of firewood. The Osage orange and Black and Honey locusts are satisfactory trees to plant for posts.

"United States Forest Service specialists have estimated that Kansas needs 1,700,000 acres of planted forests. There has been set and is now growing only 175,000 across of our quota, which leaves 1½ million acres yet to be planted. There are approximately 187,000 farms in this state. Of these farms probably two-thirds contain land adapted to growing trees. To come up to our apportionment of timber 1 acre in every 20 acres of suitable land should be planted to forest trees, or 8 acres to every quarter-section farm."

The end of our natural forests is in

some land that is difficult to culti-vate and yet well suited to growing trees. Much of our rocky fields, stripped coal lands, washy places, breaks along the draws and irregular shaped and odd corners could be made highly profitable by utilizing such forms. We are importing large quantities of lumber from Canada and the West Indies. We also are importing annually for the manufacture of print paper. Outside the government timber reserves, which comprise only one nation, the best trees have been cut,

and what remain standing are only while the supply is more rapidly on the decrease. The price of lumber has mounted up higher and higher until the timber lands of our country have assumed a commercial value and importance entirely unlooked for a few years ago, and until every man who has a few acres of good timber on his farm feels himself fortunate indeed. He is not numbered with those who suffered from the fuel shortage of the last two years and neither is he worrying about the prospect of a fuel famine in his household during the present winter. Personally he is not concerned about the coal strike, the car shortage and the high freight rates as he has the principal item in the high cost of living reduced to the minimum.

The coal shortage during and since the war caused an unprecedented demand for firewood, the best coal substitute. About 85 million cords of firewood were consumed by farmers in the United States in 1917. This was increased to 100 million cords in 1918, and probably will reach 125 million this year. From present indications half the fuel supply of the country for this winter will have to come from the farm woodlots.

Doubtless there is more interest in the growing of catalpas than in any other species. One-year-old seedlings are the most satisfactory for extensive plantings. At this age the seedlings are strong enough to establish themselves readily in their new location, and to make a good growth the first season. They also can be planted at a much less expense at this age than at the age of 2 years. The catalpa is transplanted readily, and with proper care a full stand is easily second.

In buying or grading seedlings, it is a safe policy, to accept only the best. By the best are meant the largest and strongest plants of whatever age is under consideration. In nursery prac-

tice the 1-year-old seedlings are sorted into three grades according to their, size. Grade No. 1 includes the plants ranging in height from 18 to 30 inches and upwards. Grade No. 2 includes the plants that are from 12 to 18 inches in height. Grade No. 3 includes all plants under 12 inches in height. The difference in price between the different grades is from \$1 height. The difference in price between the different grades is from \$1 to \$3 a thousand. The No. 1 grade of trees is by far the most desirable and satisfactory. Grade No. 2 is quite satisfactory and altogether acceptable for extensive plantings. Grade No. 3 is the culls of the entire lot and should never be accepted in a purchase. In grading home-grown stock they should grading home-grown stock they should be rejected, also.

Many of the failures in attempts to grow catalpa trees are due to the planting of cull seedlings. A large per cent of the small-sized seedlings die the first year they are out. The small-sized trees also require more cultivation and care then the larger plants. tion and care than the larger plants.

The hardy catalpa is exacting in its

demands upon the soil. It grows nat-urally in deep, rich soil along creeks and rivers. Consequently, it reaches its best development in rich, well-drained bottom soils.

It is a safe proposition to plant ca-talpa trees in any soil that will produce a good corn crop. Catalpa will not make a satisfactory growth in gumbo, poorly drained, or high, dry soils. In selecting a site, all such soils should be avoided.

Spacing Catalpas

The distance that catalpa trees should be spaced is a point on which few planters agree. The character of the soil, the annual rainfall, and the care and cultivation that the trees will receive are factors that must-determine receive are factors that must determine the distance of spacing. Six by 6 feet is the spacing generally recommended. This spacing is quite satisfactory when all of the trees in the plantation are to grow until they are 16 or 18 years old. However, if some of the trees are to be cut for posts of other purposes as soon as they are large enough and these cut. as they are large enough, and these cut promiscuously thruout, the plantation, the stand is left so open that grass and weeds soon gain a footing and the trees around the opening develop heavy limbs instead of tall, straight trunks.

Dr. Bradford Knapp Resigns

Dr. Bradford Knapp, chief of the Office of Extension Work in the South, has resigned to accept the position of dean of the college of agriculture and director of the Arkansas Experiment station. His resignation became effective January 15.

Dr. Knapp has been with the United States Department of Agriculture for a little more than 10 years—since November, 1909. He was, at first, assistant to his father, Dr. Seaman A. Knapp, the originator of demonstration work directly with farmers. When the elder Knapp died about two years later, his son succeeded him as director of co-operative demonstration Dr. Knapp has been with the United tor of co-operative demonstration work, then a part of the Bureau of Plant Industry. When it was trans-ferred to the States Relations Service. in 1914, Dr. Bradford Knapp was made chief of the Office of Extension Work in the South. The manner in which he has discharged his duties is indicated by a letter written to him by Secretory Houston.

Exterminating Muskrats

The popularity of what is known as "Hudson seal" fur, which brings a high price when made into a neckpiece, price when made into a neckpiece, muff or coat, has led to a great demand for the little animal known as muskrat. "He must be saved from destruction." says A. P. Naylor, of Boise, Idaho, "or he will go the way of the pigeon that once covered the country in its flights." The price of the muskrat skin has risen from 8 cents, a few years ago, to \$3 for the better sort now. better sort now.



Good Care Will Pay Well in the Farm Woodlots for the Timber Crop is Becoming Increasingly Valuable in This State.

For a Real Country Church

A Minister Must Have a Vision of Real Service and Try to Win the United Support of the Members of a Community

THE ROOTS of the religious and moral life of the nation are chiefly in the country church. The low and sordid moral atmosphere found in some rural villages and communities is altogether unnecessary. It constitutes a challenge to the church which can no longer go unheeded. Obviously, whatever reforms in methods and policies may be required to enable it efficiently to perform its task must be made.

One of the chief underlying causes of the present condition of the churches is an imperfect conception of their function. We recognize that the ef-fective proclaiming of the Gospel is the essential if not the greatest and most important task of the churches, but the impression is still widespread in the churches that to preach it from pulpit and platform is almost their only task. That this is not enough to bring the churches to their full effectaries during the last hundred years. In proportion to the number of their missionaries, the missionary societies which have believed that proclaiming the Christian message is the only function of the church have not made as many converts nor built up as strong churches as those which engage also in the work of healing the sick and teaching. The most successful missionary organizations teach not only Christian life and theology, but all that makes for what is best in our Christian

A Better Manhood

The welfare of a man's soul may be increased by promoting the welfare of the rest of him, and the aim of the church should be to bring every man to the highest possible development of all his powers. In seeking to do so it will not only be more effective in creating a higher manhood and womanhood, but also will make its message better understood and secure a greater number of church members and adherents.

For our city churches also this is as true as for the foreign missionary field, altho perhaps less obviously so. The equipment of so large a number of modern city churches for various forms of social service is a strong indication that those who control their policies recognize the necessity of a more diversified field of work.

The success and growth of the Y. M. C. A. is another indication of the truth for which we are contending. This institution, which is a branch or arm of the Christian church, has dearm of the Christian church, has declared its am to be the development of soul, mind and body. As a result of this policy it is now engaged in many kinds of work which should also be done more widely and generally and so on a greater scale thruout the church. It receives large contributions of money from members of churches, and it rightly undertakes and successfully carries out large enterprises where other church organizations fail to see their duties and opportunities and lag behind or remain idle.

Service for the People

Still another reason for believing in a larger function and mission of the creased support will not be given by church is found in the fact that every strikingly successful country church is found to be deeply concerned with the needs of the community, and is carrying out a broad and compression of the community. hensive program of service.

Finally and conclusively, it may be added that the broader program was instituted and carried out by the founder of the Christian religion and was by Him enjoined upon His fol-

What the new program for the local country church should be is no longer counties. No matter how good work a matter of conjecture. Country ministers in many widely separated parishes of the United States have worked it out independently in trying to meet the same conclusion. The program is tries to do the pastoral work which is or two, rarely three years. Moreover,

By C. O. Gill and Gifford Pinchot

been studied, tried, and proved to meet

the local country church requires an educated ministry. Very imperfectly equipped ministers, and unsound; ignorant men cannot meet the requirements of the new program. Doubtless the educational requirements of the the rules of the discipline were strictly obeyed, a large proportion of the present ministers would be eliminated. The

and pay must be supplied. Fields of service must be created large enough, terest. At the same time the best young all going from house to house, sym-

the most successful country church large proportion of his working hours work is done. It has found an embodiment in the mass of country church literature which has been published during the last eight years, and it has taken the most successful country church points of his various parishes, crossing ministers of other denominations. Under these circumstances how can during the last eight years, and it has taken to the ministers engaged in he become efficient in community the people whom he serves are unitary to the ministers of other denominations. the need of large numbers of country That the country minister should be the people of his charge? Ordinarily pastors in many states.

To carry out the better program for his life in this way is shameful better program for his life in this way is shameful better program for his life in this way is shameful better program for his life in this way is shameful better program for his life in this way is shameful between conditions the country minister who does, generally accomplishes little cause it is bad and inefficient organization, and carries with it an and becomes discouraged.

utterly needless loss.

The old circuit system

To understand the significance of pastoral calling in a rural community it must be remembered that isolation discipline of many of the denomina- is as characteristic of the country as tions are set too low, but even se, if congestion is of the cities. A large proportion of rural families look upon a minister who calls frequently as a personal asset of great value. He supplies opportunities not otherwise avail. instances where it appears in such a iveness has been conclusively proved new program requires trained men.

by the experience of foreign mission—

To get better men, better opportunity able for the discussion of matters of able for the discussion of matters of modified form as to be adaptable to general interest or of deep personal present conditions. service must be created large enough, concern. He calls attention to the yet sufficiently compact and free from things otherwise forgotten, and brings, competing rivals, to make good work or should bring with him, the in-possible. The farmers must be con-estimable advantage of intimate convinced that a better support of the taet with a wise and well-trained mind. ministry is essential in their own in- Moreover, a man full of good will to

his efforts are commonly divided among several communities and thus essentially the same in all places where strictly necessary, he must spend a Add to that the fact that in each comthe same territory on the same work. service, and how can he get to know

> The old circuit system under which many of the denominations developed their work was of undoubted value in the beginning of their work in pioneer But like many other efficient methods of early times it has ceased to be the best method for present needs, in the form in which we now find it at work. This is true except in a few



Under the circuit system it has often been accepted as a policy by church officials that every church must have minister and every minister a church. The advantages accruing both to the churches and ministers from a reasonably cautious and not too consistent application of such a rule are obvious. But failure to use such caution and too great insistence on its universal application too often have resulted in the employment of unequipped and uneducated ministers and sometimes even of men whose character was questionable; this in turn has helped to bring about a low standard of pay for the minister. The pay of the skilled has fallen to that of the unskilled, and the result has been to cheapen the ministry. The standard among farmers for the support of both church and minister, therefore, has fallen low. We must have a greatly modified system before the ministry can be better paid. Under the circuit system the churches too often provide for but lit-

tle else than preaching. Even the Sunday school, one of the most hopeful and valuable kinds of church work, is hampered by it, for this work needs the leadership of a trained ministry, his Sunday schools, and the task of xist in most rural communities. promoting the Sunday school work Equally effective are the incidental during the week in the several com-



A Real Country Church That is Doing Good Work Indicates a Healthy Community-a Desirable Place in Which to Live.

that the new program offers a field so promising as to make it worth their while to enter the ministry. The churches are wise enough and strong enough to do all this if they will address themselves to the situation and

take it seriously.

Most farmers are able and ready to multiply the amount of money they now contribute for the support of the churches. When it is made clear to them that better pay will bring a better minister, increased support will be given cheerfully. But the farmers will not give more money either for the support of an inferior minister, or to carry out the old program. They will demand their money's worth, and this the present methods do not, in general,

But it must be remembered that inof feathering his own nest. It should be done by a state federation of churches, or by a rural life association acting thru its own institutes and the farmers' institutes, thru the circulation of its literature, and thru the formation of organizations for this purpose in the churches of the different

The present system of circuits enthe needs of their communities, and tails upon the country minister an still further reduced because his term have everywhere reached substantially enormous waste of time. If a man of service is short—usually but a year

men of the churches must be assured pathetically trying to help and under-that the new program offers a field so stand, will inevitably modify the un-promising as to make it worth their charitable and unjust public opinion cuit can rarely attend the services of which either exists or is believed to exist in most rural communities.

contacts of a minister engaged in munities of his charge usually is too community service, such as work with arduous for him. boys, or the promotion of welfare enterprises. Thus engaged he will in-evitably get in touch with his parishioners, and supply the needs of in-dividuals and of the community, at least as fully as the minister who devotes most of his working hours to pastoral calls. In such work less time is spent in the long drives or walks between houses which are necessary in systematic calling, while the minister gets to know the men better and bothers them less.

testimony of the country ministers themselves as well as that of other persons who live in the country. From the reports of 18 pastors in one denominational district it appeared that on an average each one made only six calls a year upon non-church mem-bers, altho these were more than 60 per cent of the people. "Our minister does not know the people of this com-munity" is common testimony everywhere in the country parishes.

The country minister's influence is

The Circuit System

In times past it has been held commendable for a denomination to establish one of its churches in every community, regardless of the number of churches already there. By making use of the present circuit system, it has been possible to establish and after a fashion to maintain a church almost anywhere. Hence the present unfortunate multiplication of churches.

When rural communities are over-Without pastoral calling and com- churched competition between them munity welfare work, the country min- necessarily results not in the survival ister's service is sure to be ineffective. of the fit, but in the continued ex-But as a matter of fact, country min-istence of an excessive number of bloodless, moribund churches energies are almost entirely exhausted

in the mere effort to keep alive. When the circuit system is adopted by more than one competing denomination in a field it helps to perpetuate interchurch competition. When one adopts it all others must also do so, or roting from the field. or retire from the field. It cannot be held that the resulting competition helps to make more Christians, or that it tends to develop character or community life. On the contrary, it reduces both the power of the church as a whole and the influence of the individual churches for personal right-

eousness and community welfare.

From Six Thousand Country Churches, price \$2, The Macmillan Company, 66 Fifth Avenue, New York, N. Y.



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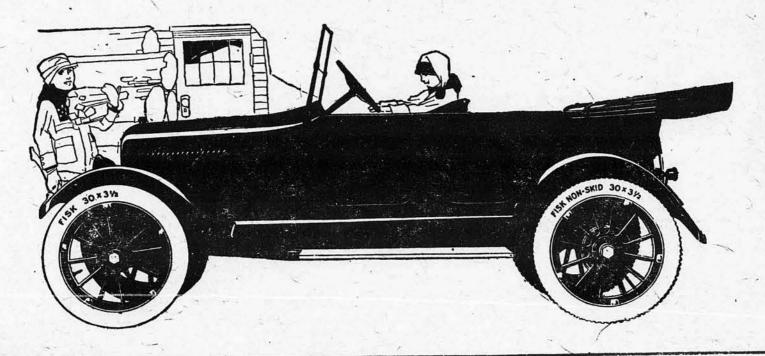
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Use Only the Best Seed

Crop Yields Always Can be Increased Greatly if You Will Use Proper Care in Getting a Real Stand on the Fields

By F. D. Farrell

VERY YEAR the farmers of Kansas plant about 20 million acres to field crops. Whether these crops produce satisfactory yields and reasonable profits depends on many factors. Some of these factors are beyond our control, as drouth, frost and torrential rains. Others are partly controllable, as certain plant diseases and insects. Still others are wholly within the control of the farmer, as cultural operations, crop varieties and

The history of Kansas agriculture is largely a history of the Kansas farmers' dealings with these factors. Kansas agriculture has advanced chiefly thru the use of constantly improving methods, developed as a result of experiment and observation, and involving closer and closer government of controllable conditions.

Small Profit Margins

Margins between satisfactory yields and crop failure frequently are very narrow. It may be a few days' delay in the coming of a drouth; a slightly better crop variety; somewhat better preparation of the seedbed; or some other factor which considered by itself may appear of small importance. And the margin between profitable yields and unprofitable ones usually is not large. The production of a field crop requires the expenditure of certain

In the case of wheat, for example, approximately 50 per cent of the average cost of production must be expended whether the crop fails or suc-The more the value of the crop exceeds the fixed expense, the greater the profit. Neglect of any one factor may mean a loss. Attention to it may mean a gain. Profitable crop production is the result of giving adequate attention to many details, all of which are important.

fixed sums, irrespective of yield.

The character of the seed is one of the important details. It has been dem-onstrated that in the hard wheat belt of Kansas the use of pure Kanred seed will increase the yield of wheat approximately 3 bushels an acre on the average. In many instances increases

decidedly greater than this have been yield about 12 tons an acre when Black obtained. These increases are secured Amber will yield 8 tons. It is thus without any additional expense for clear that the difference in the cost of land preparation, seed treatment, interest and taxes on land and equip-ment, or any of the other common fixed expenses involved in wheat production. If, thru the use of the common variety, a farmer obtains a yield, the value of which exactly equals the cost of production, and if he can get 3 bushels an acre more thru the use of Kanred seed, this increase is practically all profit. This illustrates strikingly the importance of seed.

The difference in cost, a pound or bushel, between superior seed and low grade seed sometimes seems large. When the difference is spread out over several acres, however, the cost of seed is comparatively slight. From this these 20 million acres would mean point of view, there probably is no much, both to individual farmers and other single factor in crop production to the agriculture of the state. which will give as large returns for the money expended as can be secured key type of wheat by the Mennonites from superior seed. For example, of Kansas in 1873 was one of the most Orange sorghum seed now costs about important factors contributed to what the two varieties show that Orange will is so slight in proportion to its value,

seed in this instance is quite negligible. There are numerous other instances of the same thing.

To seed 20 million acres of Kansas

land every year requires about 16 million bushels of seed. Eleven million half million bushels are obtained from volving both quality and quantity of other farmers, and 2.6 million bushels are purchased from dealers. The dealers supply a large proportion of the conditions, or, in other world. ers supply a large proportion of the certainty regarding the seed supply. seed for grasses and legumes, and a During the year ending June 30, relatively small proportion of the seed 1918, when because of the war there for other crops. It is not necessary to was special anxiety regarding crop emphasize that a small percentage in-crease in the value of the seed used on examined 16,819 samples of seed for crease in the value of the seed used on

7½ cents a pound, whereas seed of success the wheat industry of the state Black Amber sorghum can be secured has had. It now seems likely that the for about 3 cents a pound, or half the substitution of Kanred, an improved cost of seed of the Orange variety. strain of the Turkey type, may prove This difference probably causes many farmers to buy Black Amber in preference to Orange. Orange sorghum seed at present prices costs about 60 cents an acre, and Black Amber 24 cents an acre. But the experiments with the fact that the cost of good seed the two prairies show that Orange will is so slight in proportion to its value.

we can readily appreciate the importance of seed as a detail in crop work.

For several years the Kansas State Agricultural college, thru the operation of its seed laboratory and otherwise, has secured information bearing on the seed supply situation in the state. Speaking generally, the problems of the situation, as observed by the college, include the introduction of new crops and of improved strains of crops we now have; unsatisfactory germination,

germination.

Germination Tests

Of the 16,819 samples tested, 16,536 came from farmers, and 283 from dealers. The number of samples below the standard of germination was 7,457, or 43 per cent of the total. With the exception of barley, oats and wheat the average germination of the samples of all the crops was below standard. The range in the percentage of germination was interesting. Samples of each of seven crops ranged in germination from less than 10 per cent to 100 per cent. Some of the samples of all the crops showed very low germinating power.

We do not know what proportion of the seed planted every year by Kansas farmers is tested for germination. It probably is not large. Neither do we know to what extent the samples submitted to the college for testing in the year ending June 30, 1918, represented the seed used by Kansas farmers in general that year. There is no doubt, however, that much seed of unknown germinating power is seeded every year, nor that much of this seed is of low germination. It seems certain that the use of seed of unknown germination is responsible for many of the un-satisfactory stands often obtained.



Fruit For the Farm Homes

Orchards Have an Important Place on the Farms in Kansas and the Planting of Leading Varieties Should be Increased

can be made to produce apples of high quality and attractive appearance if the trees. Altho there are great opportunities in the state for the commercial orchardist, there is and probably always will be a large proportion of farmers who are not interested in fruit growing as a commercial, money making proposition. Many of these thus produce plenty of fruit for the our strictly commercial to their main lines of work to provide a home supply of good fruit.

There is a proper place for such home orchard as an indispensable part of the equipment of every farm, what the first commercial as proper place for such home orchards failing to justify their strictly commercial as for the more of the content of the diet of every this can be easily and cheaply remediate to make the maket for the country family in the state. Such a knowledge as to how the present content of the farm to dictions can be easily and cheaply remediate to make the maket for the country family in the state. Such a knowledge as to how the present content of the first question that comes to the commercial man, for the professional fruit growing as a commercial, money and the country population is the selection of the site. This is a consumption.

There is a proper place for such home orchard as an indispensable part of the equipment of every farm, what the content of the content of the equipment of every farm, what the content of the content of the site of the content of the maket for the many that the can usually are better for orchards. On hilly land the sount the roots of the fram unsually are better for orchards. The first question that comes to the content of the site of the farm unsually and unprofitable conditions. Good drainage is essential. For this is counted to the farm unsual culture, and the encouragement and development of the home orchards is one of the most important problems to be solved in connection with the horticul-tural resources of the state.

That there are many non-professional fruit growers interested in having a home supply of apples is proved by a day's journey of observation in any well settled portion of the state. The old apple orchard is an ever recurring feature of the landscape. It is significant of a wrong condition of affairs, aowever, that so many of the home orchards are old and that of the number that are young, so few have the thrifty. vigorous appearance which would indi-

OST LOCALITIES in Kansas cate that they are receiving some care deplored, and the majority of the neg- where water is likely to stand on the

orcharding as well as for the more of the orchards failing to justify their the important considerations. Apples do sideration in fruit growing as soil strictly commercial aspects of horti- existence. This condition is generally not do well on poorly drained soil drainage. On the still nights of spring, the cold air settles away from the slopes. It flows down hill and collects in the low, flat pockets. Doubtless everyone has noticed this phenomenon while driving on still evenings. Often when the air above is relatively warm and dry, one passes into a depression and feels the chill damp air strike in at once. The difference in temperature between the low areas and the knolls often is great enough at some time during the spring, at the season of expanding buds and opening blossoms, to mean the difference between a killing frost and uninjured flower buds.

A body of water exerts a modifying

(Continued on Page 22.)

PROFILE MARKEDS



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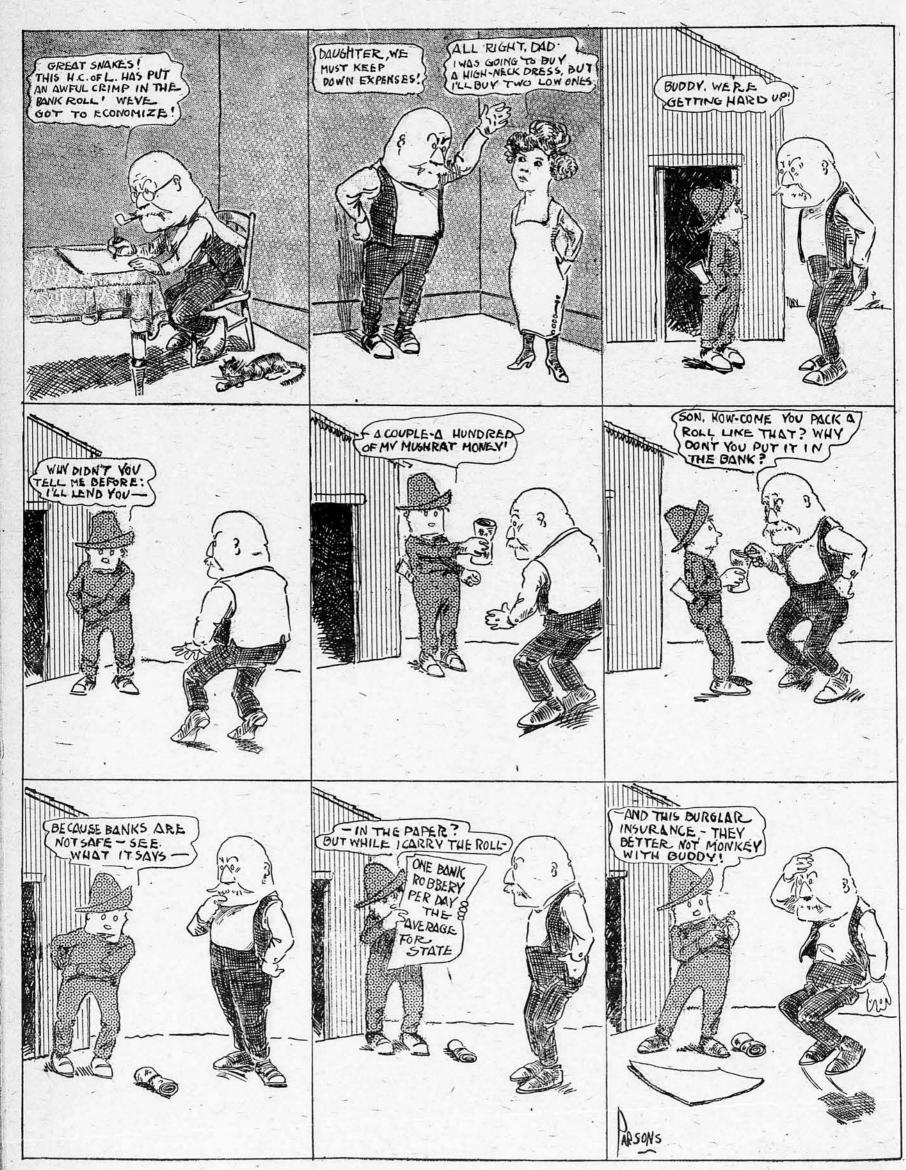
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Senator Capper's Washington Comment

telegram asking me to vote for the way to save money is not to spend larger appropriations for river and harit. I believe that most of the prolarger appropriations for river and har-bor improvement. I am unable to com-ply with this request. It may interest provements of rivers and harbors can the people of Kansas to know my rea-very well wait. When we have brought the people of Kansas to know my reasons for opposing these appropriations. public expenditures back to somewhere My reply to the Atchison, Kan., telegram was as follows: "Replying to your telegram of January 24 urging me to support the Newton Bill and to work for increased appropriations in the annual Rivers and Harbors Bill, permit me to say that my information is, with reference to the particular bill mentioned in your telegram, the House committee has no intention of reporting that measure to the House. As to the request that I should 'work for increased appropriations in the annual Rivers and Harbors Bill,' I feel that I should tell you frankly at the outset that I cannot comply with your request. I am in hearty sympathy with the action of the House in passing a Rivers and Harbors Bill carrying the smallest appropriation by many milsmallest appropriation by many mil-lions in years and I shall use my influence in the Senate to see that the amount appropriated in the bill when it passes the Senate is likewise kept down to a minimum. There has been too much 'pork barrel' legislation in connection with River and Harbor appropriation bills in times past propriation bills in times past.

A Word of Explanation

"I do not need to tell you, I think, that if the government were to enter on a nation-wide program of river and harbor improvement, I should favor liberal appropriations for the improvement of the Missouri River and such appropriations as conditions seemed to warrant for the entire Mississippi Valley. But I am opposed to the govern-ment entering on such a program at this time, and I am in favor of the strictest economy compatible with the genuine needs of the public in the ap-

stop with the ending of hostilities. Even since the armistice this government has advanced in money and commodities to European nations, the huge sum of \$4,226,584,688.41, according to the recent report of the Secretary of the Treasury. It is true that approximately 15 billions of the 40 billions expended since our entrance into the war is owed us by foreign nations, and presumably this amount will some day come back to us, but how slow the return of this money will be is indicated by the fact that the unpaid accrued interest on allied government obliga-tions up to January 1, 1920, was a third of a billion dollars. Indeed, instead of any of this money coming back to us at this time, it is now proposed by the President that we make a still further advance of 150 million dollars for relief in Europe, in addition to the 41/4 billions already advanced to them since the armistice

Taxes Abnormally High

"With such drains being made on our treasury, with taxes already ab-normally high, with many of the war expenses still going on, owing to the failure of the Administration to discontinue a number of its war activities. with the cessation of hostilities and the demobilization of our military and naval forces, with a huge total of expenses that are unavoidable until we are back fully on a peace basis, it is a poor time to spend government funds for anything except the most imperative government needs.

"It is a well known fact that the rivers and harbors bills of the past tical operations to enable them to along with the public building bills, have been one of the most convenient bullic utilities economically and sational properties of the public utilities economically and sational posed to any appropriations for such public service corporations should be

ROM the Atchison Chamber of purposes without the utmost scrutiny. Commerce I have just received a The way to economize is to economize; near public income, it will be time enough to consider what can be done for the further development of river and harbor-projects.

Rigid Economy Necessary

"For these reasons I heartily approve of the artion of the House in passing a Rivers and Harbors Bill carrying the lowest amount of any bill in recent years-\$12,400,000-which is a scaling down of the department estimate of \$42,841,565 by more than 30 million dollars, and which is more than 20 million dollars less than was ap-propriated for rivers and harbors by the last Congress. That is the kind of retrenchment legislation I believe in and that I shall support in the Senate.
"The watchword of Congress for

some time to come must be rigid economy. The people are demanding and they have a right to demand the very utmost in the direction of scaling down public expenditures. I shall do down public expenditures. I shall do everything in my power to see that our government shall receive a dollar's worth of value and service for every dollar expended, so far as that is possible, and that as few dollars are appropriated as can be, consistent with the public interest. Our country must begin paying its debts, not piling them higher and higher and this cannot be done without the most vigorous redone without the most vigorous retrenchment." ARTHUR CAPPER.

Big Railroad Deficits

The Railroad Administration still continues to be the rathole into which Uncle Sam is pouring millions. Not only does the last annual report of Director General Hines show a loss of more than 700 million dollars in the propriations to be made by this Congress.

"The war has left the nation enormously in debt. So great is the debt that the interest on it alone equals annually the amount required to run the government prior to the war. Nor did the stupendous outlays of our government in loans to foreign nations stop with the ending of hostilities.

more than 700 million dollars in the two years of government operation ending January 1 last, but in addition to the very generous government rental paid the companies, claims for special companies under government control for nearly 100 million dollars in the two years of government operation ending January 1 last, but in addition to the very generous government rental paid the companies, claims for special companies under government operation ending January 1 last, but in addition to the very generous government rental paid the companies, claims for special companies under government control for nearly 100 million dollars in the two years of government operation ending January 1 last, but in addition to the very generous government companies, claims for special companie the two years, or more than a million dollars a day.

Mr. Hines lays the failure of the roads to earn enough to make a sub-stantial reduction in the deficit during last November and December to the adverse effect of the steel strike last fall and to the nation-wide coal strike during those two months, and he figures out that if it had not been for these two great strikes and if the companies had enjoyed the 25 to 50 per cent advances in freight and passenger rates during the whole period of government operation instead of but a part of that time the deficit would have been reduced so that it probably would not have exceeded 100 million dollars. This is but another way of saying that if the shippers of the country, who of course pass along the freight charges to the consumer in increased price of commedities had paid creased price of commodities, had paid out the 800 million dollars in freight and passenger charges they would not have had to pay it out of the public treasury. Rather cold comfort to the

Government Control Should Cease

All this presents to my mind another convincing argument for the return at the earliest date practicable of the railroads to their owners. Any fair-minded observer must admit that the interests of the shipper were very much better protected under private than under government ownership. It may be that some time the people of this country will learn enough about the science and practice of government in practical operations to enable them to operate the railroads and other great

government owned and operated, but practically government operation has proved a failure. We are as yet in-capable of operating the railroads economically and efficiently thru the

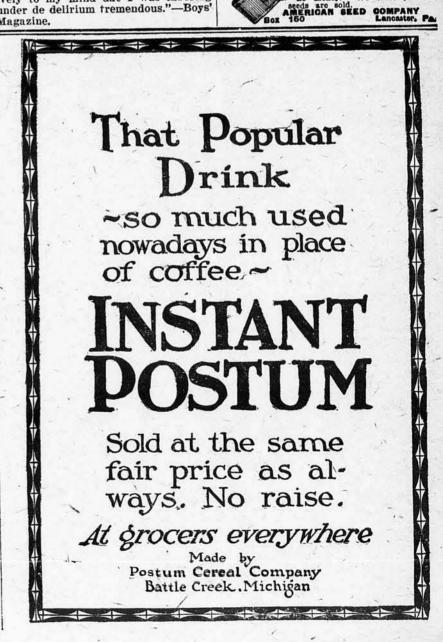
Recognition of the fact that one of the effective means of combating highcost living is thru co-operative buying and selling is becoming more general. It is generally conceded that the cost of distribution under present system is entirely too great. The railroad brotherhoods have inaugurated a plan to sell food and clothing to their members at prices far below those charged by the retail stores. One organization of railroad men already is selling horsehide gloves to its members for \$1.41 a pair for which \$2.50 is charged at retail, and overalls at \$2.70 instead of \$4. Not only is this organization taking steps to eliminate the profiteering retailer but they are entering the realm of the profiteering manufacturer as well. They have al-ready purchased and are operating a glove factory and underwear factories and are negotiating for other mills. This plan of fighting the mounting cost of living is much better than strikes. Some of the national labor leaders have openly taken the position that it is impossible to meet the high-cost living problem by a mounting scale of wages and are taking such steps to eliminate as far as possible profits of the various middlemen. When the farmer learns to co-operate in selling and finds a way to sell as directly as possible to these big distributing associations, high-cost living will receive a real jolt that may topple him off his

A negro was brought up before a mayor a short time since, for stealing

"Well, Toby," said His Honor, "what have you to say for yourself?"

"Nuffin, but dis boss, I was as crazy as a bed bug when I stole dat ar' pullet 'coz I might hab stole de big rooster, and I neber done it. Dat shows 'clusively to my mind dat I was laboring under de delirium tremendous."—Boys'





Letters Fresh From the Field

Farmers Discuss Militarism, Growing Crops, Using Tractors, Raising Poultry, Spreading Straw, Profiteering and Other Subjects

ENATOR CAPPER'S splendid speech in the United States Sen-ate in regard to curbing the profiteering evil has just been read by me and I wish to thank him as our Senator for his good work. Bolshevism and other radicalisms feed and thrive and other radicalisms feed and thrive more today on the glaring examples of price gouging that is going on in the commodities of life today, than any and all other causes. In fact these examples of greed are the main cause of the great unrest of the country.

R. A. Anderson.

R. 5, Clyde, Kan.

Uses Tractor Constantly

Tractors have come to stay. They do not supplant horse power entirely, but lessen the number of horses a farmer is compelled to keep on the farm. On the average farm a farmer can dispense with one-half the number of horses kept for draft purposes if he runs a tractor successfully.

We use the tractor for many things, such as plowing, disking, harrowing, seeding, harvesting, grinding feed, filling silos, threshing, pulling hedge, sawing wood, shelling corn, grading roads and hauling grain to market. Some persons pump water with a tractor but I believe it pays to have a small gasoline engine for this purpose, as well as for churning, running the washing machine and so forth, as the tractor uses too much fuel and oil to make these light jobs profitable. There is a very short time during the year that a tractor cannot be used to good advantage on the farm. We use the tractor for many things, tage on the farm.
Seneca, Kan. G. M. Funkhouser.

Opposes Militarism

I wish to thank Senator Capper for the stand he has taken against the profiteers. I would like to see him take the same stand in regard to the take the same stand in regard to the Mexican Intervention question, also the universal military training bill that is up for passage. We do not need our farm boys for soldiers to fight for moneyed interests in Mexico or any other country. What we need most of all is to get down to living conditions, that are normal, and let other countries that are normal, and let other countries do the same. I do not see how a Sen-ator or Congressman from Kansas could vote for such measures as these and have a clear conscience.

McCune, Kan.

C. G. Boore.

Likes Chickens

I am very fond of raising poultry, and have found that it takes a great deal of time to make a success of it. We try to hatch out lots of chickens but do not take care of them, and in three or four weeks we do not have half of them left. We let them hunt their own living and wonder why we don't have success raising chickens. We cannot go visiting every day or sit idle while the poor mother hen is trying to find food for her little flock. We must stay and help her do it. We cannot feed them nothing but wet feed and think we can sell them when they another we can sell them when they another Sedan, Kan.

Capper for helping to enforce law. I have always voted the Democratic ticket; now I am in the deep sea.

Sedan, Kan.

D. K. Wade. mistake when we let mice and lice get on them. I have raised chickens for 25 years and find that raising chickens to keep up the table pays the farmer as part of the family living.

Lenexa, Kan. Bertha Huston.

Tractor Pays for Itself

I have a Mogul 10-20 horse power which paid for itself the first season. This summer was very dry in the cot-tonwood bottom and the soil is mostly gumbo. Had it not been for the tracEditorials by Rural Correspondents

and neighbors, baled hay, pulled the morning, noon and night. Mixed feeds, wheat binder, operated the shredder, cooked in winter, and warm water give pulled up hedge trees, sawed wood, and operated a well drilling outfit. In fact it will do almost anything and when not in use it does not have to be fed.

I consider it most valuable in plowing I consider it most valuable in plowing as it pulls four plows at one time and for the wheat binder it is far better than horses as it is a steady power.

Saffordville, Kan. J. C. Stone.

Americans Pleased With Capper

While I do not know Senator Capper personally, I enjoyed reading what he had to say with reference to profiteers on page 457 of the Congressional Record of December 12, and I think that every true American citizen will applaud him to the echo. I hope that these remarks will take root and grow and results will be obtained. While Senator Capper does not represent Oregon I know he is speaking from a desire to represent the whole people.

Portland, Ore.

F. D. Hunt.

A Democrat's Opinion

I enjoyed reading Senator Capper's more men like him to make our laws speech in the Senate regarding high and provide for our peace and greater

Tupelo, Ark.

Nebraskan Indorses Capper's Stand

I have just read Senator Capper's address "demanding that the President address "demanding that the President curb the profiteering gang." This is so near my views that I am sending you these few lines. I wish to thank Senator Capper for the manly stand he took in this address, as well as a number of others he has delivered since taking his seat in the Senate. Why cannot the American people send more man like him to make our laws.

tractor has done 90 per cent of all labor done on this farm during the two

I saved my entire wheat crop with this tractor. Had I depended on horses to cut this wheat fully one-third of it Nation Needs Men of Courage

I thank God that the United States has one man that has the courage to tell the leaders of the government where the trouble lies.

I hope Senator Capper will soon be President. I wish there were more men like him.

Eli P. Thomasson.

Typelo Ark

nary farm work and can be operated with less expense of upkeep and repairs than any other tractor on the market today. I have paid out just \$2.30 for repairs on it in two seasons' work and have experienced no loss of time or trouble whatever with it. It is very simply constructed and operated. Anyone can quickly and easily do his own repair work and adjustment of bearings.

This tractor has a speed of 6% miles an hour in high gear, which is handy for road work and for many other purposes. By increasing my acreage and by earlier plowing and better seed bed preparation, together with the saving of hired help, I have more than paid for this tractor in the two seasons it has been in use.

John J. Trout.

Neosho Falls, Kan.

A Need for More Silos

Our DOMESTIC animals never go on a strike. They are patient, mute toilers for us. They do all they can and they can do only as we supply them with raw material. No man ever saved money by starving his cattle. You cannot get something for nothing and the wise feeder knows that to feed his animals well and cheaply means the greatest profit.

For 30 years the silo has been demonstrated to be the greatest economic means known in scientific feeding. It saves all the crop; it saves a crop which might be wasted thru drouth, frost or hail.

All the great dairy records are made with silage in the ration. Most of the champion steers at our stock shows have been fed on silage. It is nutritious, grasslike, succulent, easily digested, stimulates the appetite and gives thrift to the animal.

Silage with alfalfa or clover hay makes a balanced ration and wonderful results can be obtained by these two feeds alone. Silage should form the bulk of the ration for it is cheap, succulent and contains the food elements desired by our animals. If feed must be purchased let it be the concentrates, such as bran, oil meal and cottonseed meal.

Ask the man who has used a silo for several years what he thinks of his investment. Inquire among the successful breeders what they think of the silo. All evidence points to the fact that the silo is perhaps the most profitable equipment on the farm.

prices and wish to thank him for it. He contentment. Senator Capper is earnprices and wish to thank him for it. He is the only man so far who has the nerve to state real facts. He is respected and much talked about by the real people, the voters, strange as it looks and reads. Our state legislature is trying to frame and pass a law to put the workmen in jail for striking. Why all this? What is to become of our great country? Thousands of independent voters will sustain Senator Capper for helping to enforce law. I contentment. Senator Capper is earning the love and respect of not only his own constituents, but of all honest fair minded citizens. May God be his guide and encourage him is my sincere wish.

Tekamah, Neb.

Government Must Act

I have been watching Senator Capper's work in Washington and must

Succeeds With Poultry

In raising poultry one should have dry, warm, well lighted and clean houses. There should be an abundant supply of pure water and a variety of nutritious foods. In cold or rainy weather the chickens should have a sheltered yard and in good weather they should be given a range wide enough to give them exercise. Their bodies and their nests must be protecbodies and their nests must be protected from vermin.

I have been watching Senator Capper's work in Washington and must say that I am very much pleased, especially the stand he has taken in behalf of the farmers. If his name ever comes up for President, I will certainly work for him. There are many things which the government should regulate as it did to ruses about 1 quart of lubricant oil a day.

In winter the tractor can't be beaten. We use ours for sawing wood and for everything. The tractor is a success in every way, and all farmers should own one. At night when we have pulled the tractor into the shed, all our chores are done. It is much easier to should regulate as it did the price of wheat. I don't think the government should meddle with wheat any more as it costs us out here an awful price to get our wheat in the stack and due to the wet weather we had only about half a crop. John Macv.

Woodston, Kan.

Doesn't Depend on Horses

tor I would not have gotten in the wheat this fall. It plowed all the ground, then it was so cloddy I disked and harrowed it, using tractor instead of horse power, cut ensilage for myself and control of the traction of the

A Voice from Tennessee

I am reaching across the country and from the little old Volunteer state and from the little old Volunteer state to extend to Senator Capper the glad hand for his efforts in the Senate in behalf of the agricultural interests of our country. I wish our representa-tive would unite with Senator Capper in this matter, for he knows as well as Senator Capper, that as the blood in the body is the life of the human being, so is agriculture the very life of being, so is agriculture the very life of our republic.

I wish to thank Senator Capper in behalf of our state for his great effort in our behalf. I wish I could vote for him. I am taking his paper.

Bells, Tenn. J. D. Hill.

Uses Tractor for Everything

My son, Willie, and I bought a 10-18 J. I. Case last year, and it has truly been the best investment we have ever made on a farm. In plowing for wheat when it was so dry we could do nothing with mules we decided to buy the tractor. We plowed 7 acres of hard gumbo land a day with 10 gallens of gasoline and two bottom plows. In preparing the ground for sowing we used an 11 foot disk and a 12 foot double drag, averaging 18 acres a day with 11 gallons of gasoline. The tractor uses about 1 quart of lubricant oil

pulled the tractor into the shed, all our chores are done. It is much easier to handle a tractor than to handle four mules.

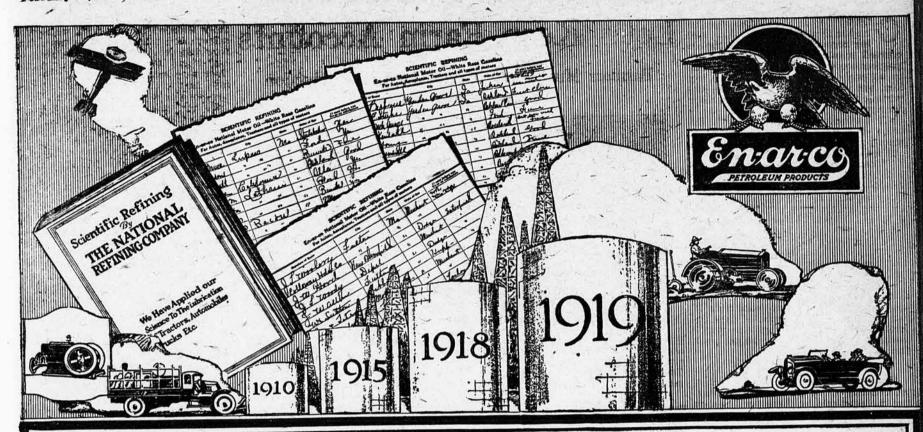
John Sack.

R. 1, Cherryvale, Kan.

Farm Incomes Too Low

I am a reader of Passing Comment by Tom McNeal and Senator Capper's Washington Comment and greatly enjoy reading both. His article "Let's make no more railroad guarantees" is surely voicing the sentiment of the common people but what pleases me most is his article "Farm Incomes Too Low." It has the right ring.

Little River, Kan. G. L. Yocom.



This 400% Increase in Sales Bears Testimony to En-ar-co Unvarying Quality

Ten years ago motorists knew little about motor oils. Of course, they knew there were differences. What these differences were, and how they affected motor car performance, few, however, appreciated.

Motor car manufacturers, through publicity and their salesmen, did much to educate car owners. So did leading oil companies. Many car owners learned by experience.

As motorists learned to distinguish the vital differences between oils, En-ar-co superiority was quickly recognized. No more convincing proof could be given than the fact that since 1910 En-ar-co sales have increased 400 per cent. We have more than a hundred thousand signed statements in our files testifying to En-ar-co unvarying high quality.

En-ar-co Motor Oil Vaporized—Then Condensed

Everyone knows that steam caught from a tea kettle spout when condensed is pure water. And that along the bottom and sides of the kettle a residue is left after the passing of the water into steam.

It is on much the same principle that En-ar-co Motor Oil is refined.

Only selected crude oil is used. This is placed in huge stills where it is heated until it forms a vapor. The vapor is then condensed into a liquid. This is done again and again. By this scientific refining all these residue-forming impurities are removed.

Thus En-ar-co enables you to get

full power from your motor. Friction is eliminated. And repair costs are kept to the minimum. Yet Enar-co costs no more than many inferior grades.

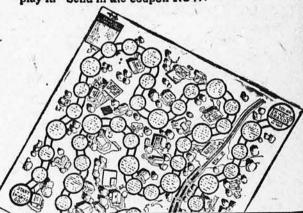
Learn from the experience of others. Try En-ar-co TODAY.

All En-ar-co Products Excel

Just as En-ar-co Motor Oil has proved its superiority so do all En-ar-co products excel. White Rose Gasoline-clean, uniform, powerful. National Light Oil for Tractor fuel, also best for lamps, oil stoves and incubators. En-ar-co Motor Grease for transmissions, gears and differentials on motor cars and tractors. Black Beauty Axle Grease for wagons. Always look for the Enar-co trade-mark!

Auto Tour Game FREE!

This coupon will bring you FREE the fas-cinating En-ar-co Auto Tour Game, in which autos compete in a cross country race (not a road map). Grown folks as well as children will enjoy this game. Two, three or four can play it. Send in the coupon NOW.



The National Refining Company 2013 Rose Bldg., Cleveland Ohio **Branches in 89 Cities**

En-ar-co Motor Grease

Best for Transmission, Gears and Differentials on Motor Cars and Tractors

This Great Jame

THE NATIONAL REFINING COMPANY,

2013 Rose Building, Cleveland, Ohio.

Send me your En-ar-co Auto Game free. Enclosed find two two-it stamps to partially cover postage and packing. Also give nearest shipping point and quote prices on the items I have marked.

I use gals. Gasoline per year

I use gals. Motor Oil per year

I use gals. Kerosene per year

I use gals. Tractor Oil per year

I use.....lbs. Motor Grease per year

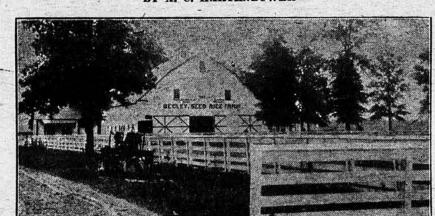
I uselbs. Axle Grease per year

Pestoffice County..... State..... State..... (Make of Automobile or Tractor)
(Be sure to give make of auto or tractor or game will not be sent)

"我是我们是我们的最多的。"

Let's Keep Farm Accounts

Farmers Must Know Exact Costs of Production BY A. C. HARTENBOWER



are making for them.

Without doubt, the keeping of accounts is the most important phase of farming and goes further than any one thing in determining whether or not farming is really profitable. Unless a farmer knows, rather than guesses, what his livestock, his crops and his land are doing, he is working in the dark. He has more of a handleap than he should endeavor to carry. cially is this true when one considers that an account can be kept with the different crops, and the different classes of livestock in no more than 10 minutes a day—an amount of time entirely insignificant when compared with the value of the accounts when sider the number of years of service acre to produce its maximum under with the value of the accounts when the end of the year comes.

NE OF the most pleasing developments in the farming game dur-ing recent years has been the in-creased number of farmers who are

keeping accounts. This is probably due

to no small extent to the income tax law, but whatever the reason, the im-portant feature is that more and more

farmers are coming to really study their business and know it from the point of dollars and cents instead of merely guessing at what their farms

Are You Losing Money?

Farmers who are keeping accounts, each year. particularly those who have only during the past two or three years begun to keep them, are especially enthusiastic of the value which farm accounts have. Just the other day a farmer told me that he prevented a lawsuit because of his accounts. Another bragged to me about the value of his accounts as a history of his farming farm certainly at least 10 per cent for depreciation alone may be too little. In considering the teams of a farm certainly at least 10 per cent for depreciation is none too small. On implements, while this varies greatly with the different ones, 10 per cent where ness was a losing game under the conditions that prevailed last year and so was able to "get out from under early." I only wish that those farmers who do

be intricate, in fact it would not be practicable for the average farmer because of the time required. Books best answer for account keeping. Loose leaf systems, while very valuable in offices where regular help for keeping them can be had, are not preferred by most farmers because of the ease with which they are lost or misplaced. Any required records. With these books there generally come explicit directions for keeping the accounts.

But, it is not enough to buy the books. In many farm homes the books have been bought and never used. The farmer keeps putting off until later when he will start to using the books with the result that he never begins but keeps groping along in the dark. I important thing of all in farming.

The Inventories

An important part of any system of accounts is the annual inventory. Without this, it is impossible to determine how the farm business has paid. It is considered on general farms that during the late winter is the best time for making an inventory because then there will generally be the least unsold crops or other farm products on hand.

An inventory should not be an esti-mate but an accurate record. Every farm building should be gone thru carefully and all feed, grain on hand, livestock and machinery should be listed and valued. The temporary rec-ord made is then copied in a permanent record or in a book kept for that be easily kept and compared.

Fixing the value of each article on the inventory requires good judgment and extraordinary care. Considering the original cost of an article and carrying that cost year after year is in-correct because the business soon becomes overloaded with what is really a fictitious value. It is further misleading to inventory any machinery, for example, at what it will bring in the mar-

each machine when purchased is esti-mated to return with good care and So, it is necessary in order to grow mated to return with good care and So, it is necessary in order to grow figure that it loses so much in value crops most intelligently, to have a rec-

A further point that needs careful consideration is the rate of depreciation on buildings. On well constructed buildings 5 per cent may be sufficient for depreciation and repairs while on a poorly constructed building 10 per the different ones, 10 per cent where they are well shedded is considered to be the average amount.

Crop Production Costs

average of several years his wheat priced labor. But, better still it en-making him money instead of ables me to answer intelligently the making him money. He quit wheat question, "Is alfalfa a profitable crop and went in for potatoes. The three for me to grow on my farm?" and, years following his quitting wheat "Shall I increase my acreage of that happened to be poor wheat years in his community, and were good potato years. So his records upon the crops he grew enabled him to see exactly his loss incident to growing wheat farmer now can purchase account even in good years, and saved him the books cheaply which will give him the greater loss he would have suffered required records. With these books during the poor years. The potatoes on the contrary made him a contin-uous, high profit. There are so many cases like that. Acre upon acre is being given up to crops that are not paying the cost of production. Rec-ords would expose such crops and permit more profitable crops to be grown instead.

Labor constitutes, under almost all repeat, keeping accounts is the most conditions, the major part of the cost of growing crops. Land valuation is not the factor which generally gov-erns the profit or loss coming with the production of any crop. This is true even if land becomes very high in value. Why? Because generally speaking, more intensive methods of production are used the higher the land values and with this there comes a higher labor cost. For land value to constitute even half of the cost of production is exceptional.

A further point is that there is generally no relation between the acre return from growing a crop and the profit coming from it. Corn which brings in but \$50 an acre may be more profitable than garden crops which bring in 10 times that amount. The deducting of labor, land, interest, each of a number of years can thus and other charges may cause the crops which give the highest receipts to return the lowest profits an acre.

Don't Draw Hasty Inferences

Again, just because a crop gives a high return an acre is no sign that it should- be generally grown. Peach production in Oklahoma, for example, may give a net profit of \$50 an acre and still it might be less profitable than to grow a crop like alfalfa hay, because the farmer with the same exket. The amount of service that it will penditure could take care of enough return is in reality the only safe guide. more acres growing alfalfa hay to Of course, the cost price and the actual give him a larger return for his labors worth at the time of making the in- in the course of a year. The acre is ventory have value. Probably the best not the sole consideration. Renting or method for determining the value at buying more acres may be more prof. The dining room, living room and ful as a glass e which to inventory machinery is to con- kalle than endeavoring to bring each den of this home are large and beauti- York American.

ord of costs of production. For the labor costs, the daily time sheets which are kept by many farmers will give the data required for determining that phase of the cost of crop production. Not only should these sheets show how much total time is put upon each crop produced, but also they should give the cost of each operation. For ex-ample, from the time records which I kept the past year with my alfalfa, I know now how much it costs to harvest each crop, including mowing, raking and stacking, to haul the crop marketed to town. I am able to de-termine whether it is more profitable, provided I can obtain the labor, for I only wish that those farmers who not keep accounts and who are skeptical of the value which farm accounts have would talk to those farmers who thave would talk to those farmers who tally keep a system of accounts. Few upon the cost of growing wheat a few years back and he found that as an a great deal in these times of high would remain unconvinced.

Records of crop production are of me to put on a share-crop basis. My the area of the cost of growing wheat a few years back and he found that as an a great deal in these times of high priced labor. But, better still it entires the cost of growing wheat a few years back and he found that as an a great deal in these times of high priced labor. But, better still it entires the cost of growing wheat a few years back and he found that as an a great deal in these times of high priced labor. But, better still it entires the cost of growing wheat a few years back and he found that as an a great deal in these times of high priced labor. But, better still it entires the cost of growing wheat a few years back and he found that as an a great deal in these times of high priced labor. crop or grow other crops in its place? I couldn't answer those questions if I had no account with my alfalfa crop.

Consider Every Item

Every item that goes into the production of a crop, including, of course, land rent or interest on the invest-ment in land, taxes, seed, plowing, planting and cultivating, should be charged against a crop in order to de-termine its profitableness. To omit any item is to make practically worthless the value of your records.

Of course, such a record of crops becomes especially valuable if continued over a series of years. Many of the questions to be answered from such records are only really valuable when several years' averages are taken

You, Mr. Farmer, who are not keeping accounts, may not think you have the time for such accounts. How much will the records be worth to you? Try keeping simple records for a time and then consider their value. chief point is for you to begin now to plan a system of accounts and really to begin the work. After keeping the accounts for a time it will probably be desirable to make them more simple just as go or more detailed. But, begin now to winter as keep those accounts. Your business summer. needs them!

A Modern Home at Geneseo

(Continued from Page 5.)

hose. In the furnace room is a vapor furnace which has been in use for two years and has given excellent service. The coal room which joins the furnace room is unusually well built. Altho all the floors upstairs are double, Mr. and Mrs. Newkirk were afraid there would still be some danger of coal dust sifting thru, so Mr. Newkirk plastered the ceiling of the coal bin and they have had no trouble with dust finding its way upstairs. In another room in the basement is an independent electric light plant of a type which is do- a wide knowledge of economics. ing such good work in so many farm homes in Kansas.

fully finished in oak, with walls of a smooth finish and tinted in tans. Mrs. Newkirk does not have large rugs on her floors for she finds the waxed floor very easy to keep clean, and she says that with her 50-pound wax mop she can put a polish on her floor that lasts for many weeks. Her dustless mop so quickly removes the dust from the floors that she finds it quite a saving of time not to have to clean rugs. "Kiddie Kars," doll buggles, and toys of all kinds and descriptions do not seem to have any effect on the luster of the floor. The rooms in this home are well lighted, the indirect fixtures having been chosen for the living room, dining room and den; the kitchen not only has lights over the work tables but also over the range. Plugs have been placed in the wall in the living room for a piano lamp and in the den for a desk lamp.

Another thoughtful plan was the building of a bedroom on the first floor to care for those who are ill. That this room was built purposely for the care of the sick is proved by the elec-tric push button which was installed right by the bed so that anyone can easily call for help and get an answer even the the home nurse is quite a distance away. The bell rings in the kitchen; it is placed in the upper part of the cleaning closet. Just off this bedroom is a small lavatory.

The stair steps leading to the second floor are covered with the small rubber foot mats which save wear and tear on the steps and likewise lessen the noise in treading the stairs. large sleeping room was built over the kitchen and next to this is the dressing room. This room has two large closets. Mr. Newkirk said that when he was a boy he never had all the room he wanted for his clothes so that when he built his own house he planned a closet which should be used exclusively by himself. The little girls' dressing room opens off the parents' dressing room, and across the hall from these are the guest room, hired hands' room, and at' the end of the hall the bath room and the linen closet.

Many Cosy Features

That there is a wonderful home life in this modern farm home is expressed by the many thoughtful, cozy plans here and there that suggest comfort and happiness. By the fireplace in the den has been built two Pullman seats which have on them pillows and blankets that breathe warmth and rest as do the easy chairs near them. The coal grate in the fireplace makes it possible for a fire to be kept burning all the time. An interesting feature of the fireplace is the ash chute which extends from the grate to the basement and thru which the ashes are allowed to fall, thus doing away with carrying the ashes out thru the living rooms.

Coziness is again suggested by the fact that two-thirds of the colonnade between the living room and the den is devoted to book cupboards with most attractive beveled glass doors, and shelves filled with the best books and magazines. There are sliding doors between the living room and the dining room and this open space makes an excellent place for the little girls' "Lullaby Swing." Mr. Newkirk fastened a strong wire in the casing above the door and the swing can be hooked into this wire. Francis and Margery have just as good time swinging there in the winter as they do out of doors in the

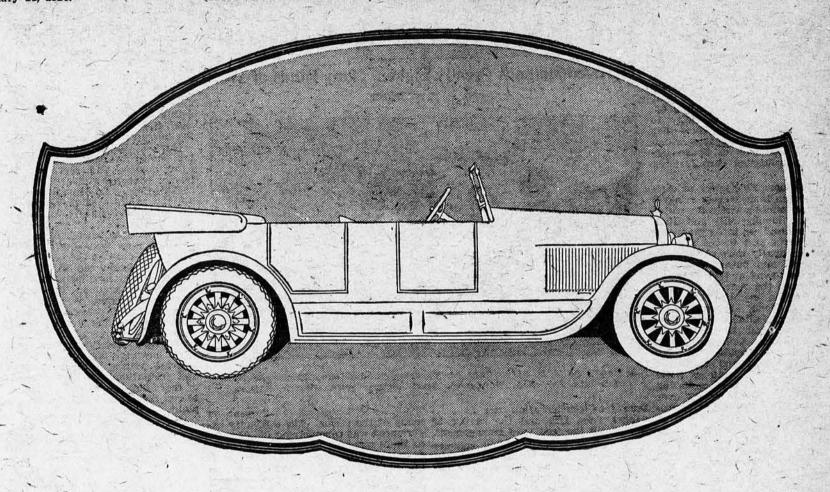
Director Enrolls as Student

The coming semester will see a middle-aged director of a southern agricultural college enrolled among the graduate students in agriculture at the University of Wisconsin, B. Young-blood, who has for years been active in the Texas Agricultural college, is to enter Wisconsin as a graduate student of agricultural economics with the intention of taking a master's degree.

Mr. Youngblood has been interested

primarily in economics for many years. His position as a director in the Texas Agricultural college is a responsible one, owing to the great size and varied conditions of the state and so calls for

Nowadays a nickel is about as use-The dining room, living room and ful as a glass eye at a keyhole:-New



The TORDAN Silhouette

BALANCE is the dominant characteristic of Jordan cars, This is due to the careful distribution of weight, the length and quality of the springs, the delicate point of their suspension, and the arrangement of the steering apparatus.

Jordan bodies are hammock swung between the axles with long springs of chrome vanadium steel. When a cheap carbon steel spring is overstressed, it reaches its elastic limit and rapidly goes to pieces.

The whole tendency of the Jordan is toward forward motion. No ruinous side-sway as in over-heavy cars. No jerky up and down motion so characteristic of extremely light cars of short wheelbase.

That explains Jordan service, even with abuse. Imagine a car like the Silhouette Five. Picture it as it is—full of life—muscular and alert. It runs like a spirited horse. Men who are weary of big bulky cars will choose it with joy.

JORDAN MOTOR CAR CO., Inc., Cleveland, Ohio



Electric Power for Farms Muchlebach and union station. Vist-



Handy Portable Motor Used for Threshing and Cutting Ensilage. Many Farmers Threshed Their Grain Last Summer with Electric Power.

hold and productive methods. Over 100 farms are on the waiting list to be connected as rapidly as the lines can be extended. Over 500 miles of farm lines are now operated. Lightens Household Duties

by transmission lines. Along these lines, and on special lines radiating

from the central plants, were over 400 farms utilizing current in house-

THE PROGRESS of the Kansas farmer from the old days of the exclusively horse-power and man-

his operations. Even less than that has been the real development which followed the expansion of hydro-electric power transmission thru farming

Kansas has now 1700 miles of electric transmission lines largely grouped

in the central counties where the water power of the Smoky Hill and Blue Rivers are utilized in three plants of

the United Light and Power System.

These lines originally were constructed to supply light and power from cen-tral station to towns and villages. At

At first the farmer did not realize just what it meant. As the idea developed he discovered what he could do with a 24 hour current delivered at his door. First of all, he wired his house, doing away with kero-sene lamps. He added to his wife's home equipment the vacuum cleaner, motor driven sewing machine, washer, and such little accessories as toasters, hair curlers, flat-irons. It reduced her household duties amazingly and as help is almost impossible of attainment in the country she appreciated it.

But the real value to the production end of the farm comes in the use of current in the operations of the feed yard and barns. The farmer lines have a transformer at every farmstead, and the wiring of the yards is as extensive as the owner may desire to make it. The first cost is now \$400, having been increased with the cost of material and labor. This brings the service to the farm. Wiring of the barns, garage and feedyards for light is of course the first installment. It avoids the old lanterns and makes the work far simpler. The windmill is being abolished in favor of an electrically operated pump which requires only the turn of a switch to set it in motion. The permanency of the water supply is thus secured.

This is but one of the patent factors of the advantage of the electric cur-rent on the farm. The larger element comes in a manner that will meet modern conditions of production. The farmer is waking up to his opportunity and he knows that he must put effi-ciency into his task. That efficiency comes from saving every possible portion of the nutritive worth in his feed, in getting it into the most efficient form for transforming it into cattle and hogs. The silo is one of the machines he uses to accomplish this and its management is a leading part of the farm's prosperity. Electricity has come into this field. The cutting of the farm's prosperity. Electricity has come into this field. The cutting of ensilage and filling the silo has become a simple process. Instead of having an engine with its accompanying laborers, the motor powerfully takes its place. On many farms the equipment is rented from the company which has prepared a number of portable motors, housed-in motors with long caples and transformers.

Show, announces.

Who attend the show this year, but dressing is needed at frequent intercoming in so fast at the larger downtown hotels that even with additional stemographers the hotels are unable to answer all of them. The Hotel Baltimore and the Hotel Muchlebach had importance in the eyes of manufacturers. It is our belief the reserved practically every room in the makers of power several days ago, and the applications for reservations have been dressing is needed at frequent intercoming in so fast at the larger downtown hotels that even with additional stemographers the hotels are unable to on added importance in the eyes of more and the Hotel Muchlebach had importance in the eyes of manufacturers. It is our belief the reserved practically every room in the show this year, but dressing is needed at frequent intercoming in so fast at the larger downtown hotels that even with additional and the hotels are unable to on added importance in the eyes of more and the Hotel Muchlebach had importance in the show has taken answer all of them. The Hotel Baltimater is the proper and the show this year, but dressing is needed at frequent intercoming in so fast at the larger downtown hotels that even with additional and the larger down hotels that even with additional and the larger down hotels that even with additional and transformers. cables and transformers.

Prepares Feeds for Stock

For the smaller operations there are motors on the farm. Feed cutting is done daily with electrically operated cutters and stock gets the feed freshly prepared and giving a larger return. On every farm where the facility exists the feed cutter is in daily use.

The wheat harvest of last summer saw the electric current doing its part in threshing on the farms along the Several of the truck-carrying motors were busy steadily thru the season. These with their long cables could take the current from the wires anywhere along the road and carry it a half mile into the field. The threshing engine and its attendants were banished, smoke and fire were unknown, the separators ran with the smoothness of a factory equipment. When it came to the cost the results were surprising. Threshing was done last season by the hour, as high as \$10 to \$15 an hour being charged for the walk. This included of course the gine. Practically half was charged to that the highest cost to any farmer power plant, the 24 hour current, always 3.7 cents a bushel; the lowest 2 ways available, and the myriad uses to cents a bushel. The larger part ran which it can be put at slight expense from 2.5 cents to 3 cents. This one serve to make it one of the farmer's saving alone was sufficient to pay most valuable servants.

take into consideration the lessened the cost of installing the current on danger from fire and the saving of many of the farms. The difficulty extime in all the feed yard management. perienced was in supplying the demand as there were not enough motor trucks to go around. In some instances groups of farmers own their own motor and separator and "change work," accounting for the completeness with which threshing was done early in the electrically equipped territory.

The engineering school at the University of Kansas reported last summer that 1700 miles of electric transmission lines are in operation in Kansas, radiating from a half dozen plants. Many of these have not expanded the farm end yet but the opportunity is being seized rapidly. Further untiliza-tion of the rivers will follow the ac-ceptance of the farmer of this new the work. This included of course the method of giving to him modern entire equipment of separator and en-methods. The essence of the electrical equipment is in its labor saving in the the power end or \$5 to \$7.50 an hour, home and in farming operations. Were The portable motor and an attendant there no saving of money this would cost \$1 an hour. Again going serve to make it popular—but that to the bills paid by a large number of comes also. Freedom from the necfarmers for their threshing, it is seen essity of maintaining an individual

National Tractor Show

Thousands Will Attend Kansas City's Big Exposition BY JOHN W. WILKINSON .

west. More than 4 acres of floor space er farming fever" must a will be required for the exhibits which National Tractor show. will comprise all the latest designs of Guy H. Hall, secretary of the Kansas City Tractor Club, manager of the show, announces.

contributing to the making of the National Tractor show the greatest ex-

readiness for the National Tractor show which will convene in that city February 16-21. Present indications are that it will be one of the greatest shows ever held in the Midprospects where they will get the "powment More than 4 groups of floor energy or faming force," must attend the 1990 er farming fever" must attend the 1920

There are to be no other shows or farm power machinery. All the exhibition space has been sold for some time, Guy H. Hall, secretary of the Kansas City Tractor Club, manager of the provide good accommodations to all who attend the show this year, but

there is a considerable gain, not to mention the advantage over the gasoline engine with its frequent balky Tractor show anticipates that the atdays. Of course, too, this does not tendance will be materially increased open for the tractor show. Other bu-wet belt will not stick to a pulley.

tions at the downtown hotels will be directed to rooms in private homes and hotels in the residence districts. The Chamber of Commerce has sent out requests that all persons having available rooms for the Tractor Show week file the number and location with

Guy H. Hall, secretary of the tractor show, estimates that more than 6,000 dealers and representatives of tractor concerns will attend the show, besides those who come here simply to besides those who come here simply to see the exhibits or purchase tractors. Three hundred out of town tractor con-cerns will have exhibits at the show. Services of a number of sanitary in-

spectors have been obtained and they will be on duty at the show. It is intended to change the air in the entire building every half hour. The temperature will be kept as low as 70 or a little less because it is known that bodily heat of persons attending the show will raise the temperature.

Mr. Hall announced that 90 per cent of the spaces at the tractor show will have moving displays. Electricians now are putting in the heaviest wiring and insulations ever used in a show of this kind. There will be 200 motors to run the exhibits in the show's power

Tractor Belts Need Care

H. J. METCALF Iowa State College

A threshing machine, clover huller, or any other belted machine cannot be expected to do efficient work if the belts and pulleys are not kept in the best possible condition. There is always a specified speed at which the machine in question will operate most satisfactorily. Usually a very slight variation from this speed causes considerable loss of efficiency in the running of the machine. For example, a threshing machine that is supposed to run with a cylinder speed of 1200 revolutions will waste very rapidly with only a variation of 4 or 5 per cent. in the cylinder speed.

Belts climb to one edge or jump off of pulleys for several reasons. most common one being the poor alignment of the shaft. This is often caused by running belts too tight, with the re-sult that the boxings and journals are worn unnecessarily, allowing the shaft to slip from its proper bearing. Do not, however, run the belt with too much slack as this causes excessive slippage and uneven-running is the resuppage and uneven running is the result. When a belt runs to one side of the pulley, part of the belt running clear off the face, there is a loss of power and the life of the belt is considerably shortened because of the repulcy way. A belt soon because he div rapid-wear. A belt soon becomes badly stretched when running in this manner and is hard to keep on the pulley.

Loose lagging on the pulleys will also ANSAS CITY has everything in as a result of the manufacturers' de-readiness for the National Trac-cision to discontinue the national dem-tor show which will convene in operations. The dealer who delices to say that the nails or rivets because of the damage they will do to the belt.

Leather belts should be run with the hair side to the pulley. This gives a larger portion of the belt in contact with the pulley, because the grain side is smoother, with the result that more power may be transmitted with a minimum of slippage. To keep a leather belt in good condition, tallow, neat's foot oil, or some reliable patented belt dressing is needed at frequent inter-

equipment and farm machinery ever still keep pouring in each day.

Sary when rubber belting is used if it is kept clean and run under the proper tension. Canvas belting needs a frequent application of oil or prepared dressing to keep it soft and pliable.

The Hotel Baltimore of Kansas City announces that more than 1,000 reser-

vations already have been made for advisable to slip the belts off the pul-Many Exhibitors

Tractor show week, and the Hotel leys to prevent them from taking a set.

Much lebach has taken care of even a Every time the belt goes over a pulonal Tractor show the greatest exreau which has been established in the If this flexibility is removed by hang-Results seem to justify the claims that position of power farming equipment lobby of the Hotel Baltimore by the ing tight over the pulleys, the belt is there is a considerable gain, not to ever held.



The Secret of the Homiest Home

Do you know the secret of the home where "company" always enjoys itself,—the home which people always speak of as having "nice things"?

Lady Randolph Churchill put her finger on the secret. Lady Churchill is a very wonderful woman—now past 50 years old—and she owns the best furnished home in England. This is what she wrote:

"What an extraordinary man Mr. Edison is. He perfects his phonograph to a point where its realism is astounding. Then he determines

to make each Edison Phonograph, even the least costly, an attractive piece of furniture. Instead of the usual dentist-like looking cabinets, his designers have succeeded in putting the character and feeling of the best periods into his phonograph cases. These graceful and artistic productions will be hailed with delight by all who can afford them, and will cause Mr. Edison's new phonograph to be received in many houses where less worthy machines have not been welcomed heretofore."

The French-Gothic lines of the posts, and the French-Gothic grille with its Chinese cord-cut frieze combine to give an effect of stately beauty. The NE

"The Phonograph with a Soul"

gives you both of the great arts which make your house a cultured home-gives you all that is in music and furniture

MUSIC is RE-CREATED by the New Edison with perfect realism. This is no mere claim. Edison is a straight-from-the-shoulder American. He doesn't ask you to take anything on his "say so," any more than he'd take a scientific discovery on your "say so."

CHIPPENDALE

(1709-1779)

Edison actually proves the New Edison's realism. Before 3 million people he has made comparisons between the vocal and instrumental art of 50 different artists, and the RE-CREATION of their art. These 3 million people all admitted that they could hear no difference between the performance of the living artist and its RE-CREA-TION by the New Edison.

The furniture art of the New Edison is its own proof. Perhaps you are wondering since when did Edison turn furniture designer. He didn't. He knew that the marvelous furniture designs created in the Golden Age of Furniture still stand as the highest type of furniture art. So he did the common-sense thing. He had his designers adapt the masterpieces of this period. They did the job so well that even Lady Churchill and Miss de Wolfe were surprised and delighted.

Edison not only made every New Edison a period cabinet -but he brought the prices down to where you know you're getting real value for every

The New Edison is the delight of every one who likes music, and the ambition of every one who appreciates a fine home. It makes evenings-at-home triply enjoyable for both your family and your friends.



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WILLIAM AND MARY (1689-1702)

The legs, stretcher, pendent pull, and grille are typical of the taste and delicacy of this period.



Elsie de Wolfe

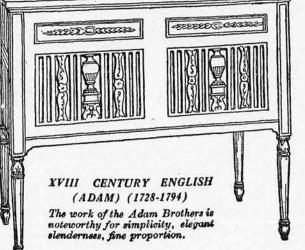
who designs and furnishes the interiors of the finest homes in America, says:

THE period cabinets which Mr. Edison has adopted for his phonographs are in pleas-ant contrast to the rather grotesque cases one so fregrotesque cases one so frequently sees. From the diminutive Heppelwhite to the costly replicas of historic pieces, the superior furniture value of Edison cabinets can scarcely fail to impress the lover of good furniture."



HIS (Edison's) designers have succeeded in putting the character and feeling of the best periods into his phonograph cases. These graceful and artistic productions will be hailed with delight by all."

(Her letter in its entirety is printed in the text above.)



Write today for your copy of "Edison and Music"

NE of Thomas A. Edison's right-hand men has written a book about Edison. The book paints a fascinating word picture of Mr Edison. It also contains 17 exquisite plates and invaluableinformationabout Historic Furniture. Wehave issued a special paper-covered edition for free distri-

Address Thomas A. Edison, Inc., Orange, N. J.

Making the Most of Manure

The Spreader Can be Kept Busy All Winter BY R. I. THROCKMORTON



Manure Stored in This Way Will Lose Much of Its Value. Manure Would Double the Yield of Wheat on This Farm

will not be lost during the winter if it is applied to the soil and the soluble portion will be absorbed by the soil. Loss of Plant Food

ANURE should be applied as

soon as possible after it has

been produced. This, however,

possible under certain condi-Manure that was formed last

This accumulated manure and that being produced now should be applied as soon as possible. Manure produced during the winter should be

spring and during the summer could

not, in many cases, be applied at that

applied as a surface dressing to wheat and alfalfa fields or should be put on fall plowed land that is to be planted

to corn or a sorghum crop in the spring. Manure applied during the winter will decay sufficiently by early summer that it will not interfere with

When manure is permitted to remain in a heap at the side of a barn during the winter it loses approximately onehalf of its plant food and a part of the organic matter. In addition to losing this large amount of plant food it is the less valuable portion that remains because that part which is lost mains because that part which is lost is more readily available to plants. The dark liquid which flows away from the manure heaps carries large quantities of plant food in solution. The smell of ammonia so common in the vicinity of a manure heap indicates the loss of plant food into the air. Another way in which plant food often is lost from manure is by permitting the liquid excrement to flow away or by carrying it away from the barn by use of tile. This portion of the manure is even more valuable than the solid excrement and should be saved by using plenty of bedding to absorb it. The losses from manure may be checked to considerable extent by hauling it to the field as soon as produced or by storing it in a covered manure bin.

Effects of Manure

A surface dressing of manure on wheat or alfalfa serves as a protective covering during the winter, thus reducing the danger of winter killing. It adds much plant food and organic matter to the soil, thus increasing the yield to a very marked extent. The organic matter increases the water holding capacity of the soil and decreases erosion. Manure applied as a crease decrease for the soil played ground surface dressing to fall plowed ground will greatly improve the physical condition of the soil and can be incorporated readily in the soil in the spring with the disk.

Extremely heavy applications of manure will cause a crop to burn in moisture. The lodging is produced by a heavy growth of straw and a weakened stem caused by too rapid growth.

In addition to these, there is no better way of maintaining the fertility of the soil and maintaining the permanent high yield than by frequent applications of manure except in those places where the soil is naturally low in phosphorus. In such places phosphorus must be used in addition to manure because manure contains but a small per cent of this element.

Crops to Fertilize

Altho it is profitable to apply manure to practically all general farm crops, it is more profitable on some crops than on others. Alfalfa and wheat usually give higher financial returns from the use of manure than do row crops. These crops make considerable growth during the spring when it is cool and when plant food elements are being liberated in the soil very slowly. The row crops make their growth during the warmer portion of the year and receive more available plant food from the soil and, therefore, do not respond so readily to applications of manure. Alfalfa is also a heavy feeder and requires large quantities of plant food, especially during the spring months.

On many farms in Eastern Kansas where both alfalfa and grain crops are grown, only a limited supply of manure is produced. When there is not sufficient manure on such farms to supply all crops, it should be used on

have an application of phosphorus. This distinction should be made because the manure contains considerable nitrogen and the alfalfa plant is capable of obtaining this element from the air. The organic matter added in the manure is also of more value to grain crops than to alfalfa. There is one exception to this condition and that is in seeding alfalfa. No better treatment can be given a field that is to be seeded to alfalfa than an application of manure.

of 5 or 6 tons of manure every three years. The rate of the individual application will depend on the crop and on climatic conditions. Heavier applications may more safely be made to alfalfa than to corn or wheat because it is not subject to burning. In the central and western parts of Kansas, applications must be lighter than in the eastern part.

Rate of Application

the central and western parts. The manure should be applied any time during the late fall or winter months when the field is solid.

For alfalfa, manure may be applied ury seasons and to lodge in wet sea-sons. The burning is largely a result of heavy early vegetative growth which is extravagant in the material should be applied lighter so that it may decay sufficiently before harvest that it will not be raked up with the hay. In preparing a field for

the grain crops and the alfalfa should winter as a surface dressing on fall have an application of phosphorus, plowed or listed land. The application should be at the rate of about 6 tons an acre. As a rule it is not advisable to plow under manure in this state unless such work is done sometime before a crop is to be planted. A layer of manure has a tendency to separate the surface soil from the subsoil and make it difficult to produce a firm seedbed.

Spreaders Give Best Distribution

Altho good results may be obtained A field should receive the equivalent by applying manure with the fork, the 5 or 6 tons of manure every three spreader is preferable if one can be obtained. The spreader insures an even distribution of the manure and makes it possible to cover a larger area. Under no condition should manure be hauled to the field, piled in small heaps and scattered later. This practice results in a loss of plant food and an excess application in the vicinity of the heaps.

If the amount of manure available is small, it should be spread over as large Surface applications to wheat should an area as possible. It is more profitbe at the rate of 7 or 8 tons an acre able to apply 100 tons of manure to 20 in the eastern part of the state, and at acres at the rate of 5 tons an acre the rate of not more than 5 or 6 tons in than to apply it to 10 acres at the rate of 10 tons an acre.

Fruit for the Farm Homes

(Continued from Page 12.)

influence on the surrounding air temperature. A small stream or ravine even may give excellent air drainage and so make the surrounding area better fitted for fruit growing than it otherwise would be.

The considerations which govern the alfalfa the application of manure choice of varieties for the home orch-should be made to a preceding crop so and are very different from those that the weed and grass seeds will which present themselves to the mind have time to germinate before preparing the field for the alfalfa crop. In this way the weeds and grass so injurious to young alfalfa, will be determined to young alfalfa. his home orchard is privileged to ask stroyed before the crop is seeded.

Corn and other row crops should the question first of all, "What varie-have the manure applied during the ties do I like best?" A home orchard

should contain varieties for which the owner has an individual preference, so far as his condition of soil and climate allow him to attempt their culture. Varieties selected on this basis are likely to receive better care, and hence to yield better results, than a list containing many unfamiliar sorts, made up at the suggestion of the artful and enthusiastic tree peddler. Reliable nurserymen generally may be trusted for information concerning the adaptability of given varieties to conditions in their locality. Sometimes, however, they are inclined to judge a variety by its adaptation to cheap and easy production in the nursery, rather than by

its value for the home orchard.

The young tree should be well formed, straight and clean, of a good size for the age, and of the right shape for the variety. Allowance must be made, however, for the fact that some varieties naturally make much more symmetrical tops than others. Wine-sap, for instance, is less inclined to make a good symmetrical growth in the nursery row than Ben Davis. The characteristic varietal habit of the tree should be kept in mind in judging its quality. Weaklings, with very slender and crooked trunks, stunted or unhealthy trees should not be accepted for planting.

Some buyers make the mistake of planting trees which are too old. Four, 5 or 6-year-old stock is not infrequently preferred by inexperienced planters, who seem to be under the impression they are investing in forestry rather than fruit. Such trees are likely to be the culls from which the better trees have previously been selected; they are nearly always headed too high, they suffer more from transplanting than younger stock, and the natural defects of habit which they may have devel-oped are much more difficult to remedy. They should by all means be avoided. It is the judgment of the most experienced orchardists that 2- or 3-year stock is best for setting. At present the preference is rather for the younger of these.

Unpack Shipments Promptly

As soon as the trees are delivered they should be unpacked. They may have been on the road for several days and possibly they are getting dried out. If the land has previously been made ready, they may, of course, be set at once. Frequently, however, several days or even weeks may intervene

between arrival and setting.

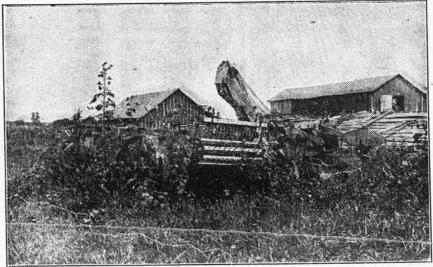
Wherever the character of the land will permit, thoro and deep working should be given before the trees are set. The surface should be made fine and friable. Sometimes it may be necessary to set trees in sod because of the steepness of the land. If this is done, they should be thoroly mulched as soon after setting as possible.

Don't set the trees too close. They should not in any case be closer than 32 feet; 36 feet is better, and 40 feet apart is, for most soils, better still. A sketch should be drawn off on paper showing the plan of the orchard and a list of the varieties it contains, with their location. Much inconvenience may often be avoided later if such a plan is made, and in any case it is always a source of satisfaction to be able to identify all the varieties with cer tainty as they come into bearing.

Agricultural "Movies"

The largest educational motion picture library in the world-containing 21 million feet of film-is at the free disposal of American farmers. Agricultural communities can borrow mo-tion pictures from this library with-out charge the same as an individual can borrow a book from one of Carnegie's institutions.

The library is that of the Bureau of Commercial Economics, Washington, D. C., which is sending educational films to all parts of the world—by dog sled into the land of the Esquimo, by camels to the dwellers of the African deserts, by llamas over the Andes Mountains to the Inca Indians and by elephants to out-of-the-way places in India where its pictures are now teaching the mothers there how to save the lives of their babies. The bureau is an altruistic association, making no profit on its films and being supported by endowment and voluntary subscription. Its only requirement is that the picture it loans free be shown free to audiences.



This Use of the Manure Sprender is Too Common. It Should be Kept Busy But When Not in Use It Should be Sheltered.



Get Your Log Saw Now —Let It Pay for Itself as You Use It!

THE OTTAWA LOG SAW is doing the work of ten men on thousands of farms throughout the United States. The Ottawa is a marvel---the greatest work saver and money-maker farmers ever saw. It does away with back-breaking work of cross-cut sawing and lugging heavy logs to a circular saw. And it has many advantages over any other power log saw. With the entire country in the midst of a big coal shortage, you will find the

Ottawa a necessity. You can have plentiful fuel for yourself and friends and the people in town. A vast number of Ottawa owners are making splendid profit. W. W. Emerson of Hodges, Ala., made \$34.50 in one day with his Ottawa. J. M. McClatchey of Pauls Valley, Okla., says it is the best investment he ever made. J. A. Lawrence of New Boston, Texas, sawed 12 cords in 3½ hours of easy work. Besides sawing logs the Ottawa cuts down trees and cuts up branches and limbs with wonderful speed.

Saws Down Trees—Cuts Up Logs By Power

Direct gear drives saw-no chains to tighten, no keys, no set-screws. Automatic friction clutch protects saw. 4-Cycle Frost Proof Engine, Oscillating Magneto Ignition and the Automatic Governor with Speed Regulator. Engine will also run pumps, feed mills, washing machines, cream separator and other machinery. Saw blade easily removed. Pulley furnished.

10-Year Guarantee Take advantage of our liberal offer. The 10-year guarantee protects you. See the Ottawa in operation, see how quickly and easily it cuts any log. No work at all. Greatest work-saver ever invented.

Low Factory Price Write at once for the lowest price ever made. You'll be surprised at the figure, possible because of low manufacturing cost and direct sales plan.

Special Offer Now! We are making an unusually attractive offer right now. Write at once and have this offer -its a a Big Money Saver and worth knowing about.

You get the Ottawa Log Saw direct from the factory. You get the lowest price and immediate shipment—no delay—no waiting. Back of each Ottawa is our big factory with its 10-year guarantee. You'll be surprised how easy the Ottawa is to use—how simple to operate—how easy to start in how simple to operate-how easy to start in any weather. And its economical, too. Uses very little gasoline.

30 Days Trial The Ottawa reaches you all ready for work. Let it saw your logs for 30 days. This is the most liberal trial offer ever made on any log saw. Before you choose any saw feetors in America. log saw factory in America.

Cash or Easy Terms You can have your choice of cash or easy payments on the Ottawa now; let it pay for itself while you use it. Send at once for particulars.

Free Book Your name on the coupon or post card brings our latest book telling all about the Ottawa Log Saw. SEND NOW.

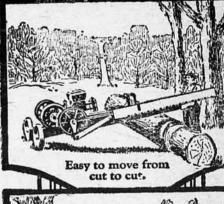
OTTAWA MFG. CO.

Send me your Big Special Offer and Free Book about the Ottawa Low Saw, giving low factory price. It is understood I am to be under no obligation.

OTTAWA MFG. CO. Ottawa, Kansas 2768 Wood St.

Name Address





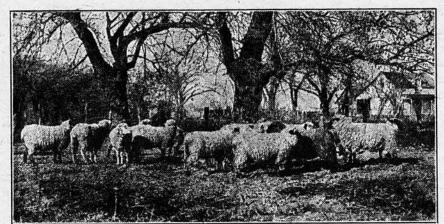


2768 Wood St., Ottawa, Kansas

AMBING time is the busiest and and most critical season of the Let's Save the Lamb Crop year in handling a farm flock. Profits from the flock depend very largely upon the number and vigor of lambs born and saved. A pen pro-

Feed the Ewes for Increased Milk Production

BY D. A. SPENÇER



sary during bad weather. When lambs are coming rapidly, the ewes should be watched day and night to avoid unnecessary losses. Using Lambing Pens

tected from cold and storm is neces-

A movable pen 4 feet square provides the best place for a ewe and her lamb until the lamb is 1 or 2 days old. The ewe is more sure to own her lambs, especially if she has twins, if she and her lambs are kept in this sort of a pen until they become thoroly attached. The ewe flock needs plenty of room during the lambing period, about 12 to 15 square feet of floor space each. Feed the ewe lightly on grain, about ½ pound daily, until her lamb is 3 or 4 days old.

Occasionally a ewe will have difficulty in giving birth to her lamb, but it is not wise to give her help until she has tried for some time, and appears unable to effect a delivery. When help is given, the attendant should exercise care not to excite her more than is necessary. When giving aid, see that the unborn lamb is in a normal position, with legs in such shape that they will not hinder the progress of birth. When it is possible to draw on the lamb, do so as gently as possible, and pull only at the time the ewe strains. As soon as the birth is about complete and it is possible for the lamb to breathe, remove the birth sack from the mouth and nostrils of the lamb, and blow into these parts to assist the newborn in getting its first breath. When the danger of smother-ing is past, leave the pen and let the ewe clean and care for her lamb for a few minutes. If, after 20 or 30 minutes, the lamb does not succeed in finding the teat, it should be given help. If it is weak and does not suck readily, place the teat in its mouth and squeeze some milk into it.

The shepherd should be very careful

to see that there is no excess wool about the ewe's udder. Clip away the locks of wool, leaving the udder clean, so the lambs will have no difficulty in finding the teats. Sucking wool locks often causes wool balls—resulting in a structed or dead lamb in a stunted or dead lamb,

Increase Grain Gradually

After the lamb is 3 or 4 days old, After the lamb is 3 or 4 days old, the grain ration for the ewe may be increased gradually until ewes weighing from 125 to 150 pounds get from 1 pound to 1½ pounds each daily, within 10 days or 2 weeks after lambing. The amount of grain required will vary according to the condition of the ewe, whether she has twins or a single lamb, and her appetite. A a single lamb, and her appetite. A good grain mixture is equal parts by weight of oats and corn, when it is possible to supply 2 to 4 pounds of good clover or alfalfa hay. To insure a sufficient milk flow, rather heavy feeding is advisable until the regular pasture season. Lambs grow rapidly early in life, if their mothers get plenty of feed and provide plenty of milk. Well bred lambs will make very efficient use of the feed given their mothers. It also pays to give the flock plenty of range and encourage them to take exercise daily.

Lambs to be marketed should be givwhen pastures dry up and stomach worms are most troublesome. As soon as lambs are a week or 10 days old. they will begin to nibble at feed, and as they grow rapidly and require only a small amount of grain, it will pay to supply them with a creep where they can eat grain and some choice alfalfa kinds of feed to insure a liberal sup. supply them with a creep where they can eat grain and some choice alfalfa or clover hay by themselves. A good grain mixture for nursing lambs is by weight, corn, 3 parts; oats, 3 parts; and oilmeal 1 part. The corn and oats should be ground during the first

and castrated lambs present a blocky, compact appearance, which of course attracts the buyer. At the stock yards, lambs docked and castrated are almost sure to sell to advantage. Ram lambs not castrated rapidly depreciate in value as market lambs after they are 3 or 4 months old. It is particularly important to dock ewe lambs that are to be kept for breeding.

It is best to dock and castrate lambs when they are 1 to 2 weeks old. as the danger of retarding growth is least at this time. It is usually most convenient to dock and castrate at the same time, and it is just as well if the lambs are strong and vigorous. Lambs seem to bleed least when they are operated on in early morning, before they become active or in the evening when they have gathered in for the night. Lambs seem to do best and heal up most rapidly when they are docked and castrated during clear weather. The operation should be performed under sanitary conditions, and while they are healing they should not be exposed to storms, and should have dry, clean bedding at night.

When docking, the tail should be cut about 1 inch from the body, and the side next to the body should be a trifle the shortest. Docking can be per-formed with a knife, chisel or docking iron. The docking iron is an instruiron. The docking iron is an instru-ment with a blunt blade which upon being heated to a dull red, burns its way thru the tail, and sears the wound so that there is no bleeding. The docking iron may be in the form of pincers, or simply a heavy broad chisel. When docking with the pincers it is a good plan to use an inch board with a hole plan to use an inch board with a hole in it. Put the lamb's tail thru the hole, thus keeping the board between the buttock and the hot iron, and ensuring a cut 1 inch from the body. When the docking iron is in the form of a saving every lamb born.

chisel, it should be heavy and about 3 inches broad. One man should hold the lamb, placing the buttock on a block and facing the lamb toward the man who operates the iron. Thus the op-erator may hold the tail in one hand and manipulate the docking iron with the other. As the iron sears and prevents bleeding, it insures against an occasional loss from bleeding to death. It is especially valuable for docking lambs as old or older than 3 or 4 weeks. Mature sheep also may be docked successfully by the use of the hot iron.

When castrating, the end of the scrotum should be cut off to insure drainage. The testicles should be gripped firmly between the thumb and forefingers and drawn out rather quickly. but not roughly. The wound should then be washed thoroly with an antiseptic solution. In fact, it is safest to use this solution freely on the hands and instruments before and after perand instruments before and after per-forming the operation. There are sev-eral good methods of castrating the lambs, but with sanitary conditions and thoro use of a good antiseptic, the method here mentioned has proved satisfactory.

A Kansas Boy's Flock

This little flock of ewes and the purebred Hampshire ram at the extreme right belong to a 14-year-old boy, Albert Dresher of Emporia. He paid \$15 each for the grade Hampshire ewes last fall and \$35 for the ram. He also has five Western ewes which he bought a year ago, selling their lambs to his father. The 14 ewes are bred for February and March lambs. Albert

More Poultry for Kansas

A Billion Dollar Proposition for Farmers

BY JOHN L PREHN

en every opportunity to gain rapidly, so that they may be sold when they are from 3 to 5 months old. Early spring lambs should be sold if possible before the very hot weather of summer, for this state to reach that place. Her clean is well watered and at the same time the before the very hot weather of summer, for this state to reach that place. Her clean is well drained. The rainfall is sufficiently supply of vegetation

kinds of feed to insure a liberal supply and a large variety at all times. acteristics of most of them. In exten-There is no more convenient and eco-sion poultry work during the past two nomical way to market grain than in the form of poultry, meat and eggs. been visited. A comparison between this state and other states familiar to of 151,001,000 bushels, according to

HERE is no good reason why poultry. There is no waste territory Kansas should not be the leading covered with swamps or mountains, poultry state in the Union. There large lakes or dense woods. Kansas

quite familiar with the various_char-

was in 1918 a billion dollar proposi-tion, considering poultry and eggs sold and used during the year, together with the value of poultry on hand at the end of the year. The estimated production for the year was 589 million head of poultry and 1,921, 000,000 dozens of eggs. The figures for 1919 will doubtless show a decided increase but the demand still continues to grow. According to the 21st biennial report

of the Kansas state board of agriculture, the value of poultry and eggs sold in this state during 1918 was approxi-mately \$14,792,000. The number of poultry on hand at the end of the year is estimated roughly at 20 million head. Adding to this the value of the poultry and eggs used by producers, at least 10 million dollars, it is readily seen that Kansas is holding up her end of poultry production. Six counties in Kansas each sold more than \$300,000 worth of poultry and eggs during the year mentioned. These are Marshall, Washington, Nemaha, Jewell, McPherson and Dickinson. The amount sold from 93 of the counties ranged from \$300,000 to \$10,000 with Grant, Stanton, Morton, Greeley, Haskell and Hamilton showing sales of less than \$10,000 each.

No Oversupply Possible

There are some who may become alarmed as to the future prospects of the poultry industry. It may seem that with continued increased production there may be an over supply, a flooding of the meabout a sweeping of the ing of the market, a swamping of the poultry ship. The same condition has been feared for the last 10 years but the fears did not suppress the demand for poultry and eggs. The price has continued to rise steadily in propor-tion to other similar products and still continues to raise. Eggs sold in Eastern towns and cities for \$1.20 a dozen during the recent holidays and poultry meat is retailing at from 50 to 60 cents a pound at the present time.

Factors That Govern Demand.

Three things tend to keep the demand ahead of the production and these factors will continue to be effective for some time. They are—the increasing population of the country, the growing popularity of the products and the export trade. There is every reason to believe that our population reason to believe that our population will continue to increase for a long period of time even if all of the Bolshevists and other undesirables decided to go where they belong. The popularity of poultry products is only beginning to be evidenced. No special advertising campaign has been developed in this direction as in the case of "Sunkist" oranges and other food products, but the increasing popularity products, but the increasing popularity of poultry and eggs has been gradual and steady. There are comparatively few city persons who can afford the luxury of fresh eggs for breakfast at any time but in the season of plentiful supply. As to poultry meat; show me a person not on the farm to whom a chicken dinner is other than a special If you indicate such a person I will place him in one of three classes. He is a dyspeptic, a millionaire or he still takes his food from a bottle. The export trade is a minor factor in increasing the demand for poultry products, but there is every indication that this source of demand will continue and even increase during the coming years.

Therefore, considering the factors which cause increased consumption of poultry and eggs, and which call for increased production, let the alarmists rest easily for a few years at least. There is no danger of over production

Wheat Honors to Kansas

after the second month.

Docking and Castrating

Docking and castrating lambs is an operation too often neglected. The sheep dealer who buys and sells very many lambs hesitates to pay the top of the market for lambs that have not been docked and castrated: for

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The Wonderful Queen Bee

Mother of Millions of Workers Born to Serve BY FRANK G. ODELL

among the lesser friends of hu-manity. It is her life mission to be sex. The majority of the children of She is typified maternity, raised to the "nth" power. Born from the worker class, ordained to royalty by deliberate choice of her subjects, she becomes slaughter of the unproductive drone.
the humble servant of the city she For, be it known, the drone bee it rules.

Like all living things, the queen bee comes from an egg. In the cells of the honey comb are thousands of eggs which to the eye of the microscope or the research of the biologist are no different. Even that from which comes the lordly drone looks to be identical.

But behold a miracle! The mass of workers within the hive, urged by some mysterious power beyond human ken, presently decide that the royal succession shall bring forth daughters to rule by right of lineage. Some few of these tiny larvae, reposing in peaceful innocence in their cradles, are elected by this "spirit of the hive" to bear the honors and duties of royalty in the republic of the bees.

For this is a monarchy in name only -a name given centuries ago, before bees were known as they are known now-and the only grant of privilege

Origin of the Queen

The queen is the mother of all the bees. "Whence came the first one?" From the exercise of that creative intelligence which made all things. The one dominant note of all life is the note of reproduction and nowhere in nature is this more strongly expressed than in the democracy of the hive. By virtue of this all pervading law it has been ordained that any egg, which, in due course, might bring forth a worker bee may, under other circumstances be transformed into a queen. Certain of these eggs are laid in small cells which form the greater part of the honey comb, and in the space of 21 days bring forth workers. The same egg, or the larva resulting therefrom, housed in a larger cell and fed the royal food by the bees, will in 16 days bring forth a queen.

sue her like young Romans after the and parallel to the main branch, fa-Sabine maidens. One, stronger of cilitates healing.
wing than all others, overtakes the royal maiden and they are wedded in the upper air. Alas, for the royal nuptials! The consort of the queenly daughter of democratic workers loses his life in one brief moment of eestacy and the widowed queen returns to the hive from which she came to take up her labors of maternity.

From this single union her tiny ovaries bear the germ of life for unborn millions. A young queen newly mated, is the most precocious thing in nature. She seems impelled by an irresistible impulse to bring forth her kind. Three thousand or more eggs in a single day is no extraordinary feat for her. The marvel of this fecundity may be better understood when it is said that the substance in this number Prices Below All Others of eggs exceeds twice the weight of Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return If not O. K.—money refunded.

Or leggs exceeds twice the weight of her entire body in 24 hours. To accomplish this miracle she is fed company of worker bees, who constantly bring her the choicest of predigested food. They Over 700 illustrations of vege-tables and flowers. Send yours and your neighbors' addresses. eyen when she is angaged in the act even when she is engaged in the act R. H. SRUMWAY, Rockford, III. of depositing an egg in a cell.

Bees True Eugenists

The citizen of the bee republic is your true eugenist. Here is neither race suicide nor the dominance of lust. Every queen and the millions which spring from her loins are children of love—born of the impulse to serve the common good. Here is found the apotheosis of the survival of the fittest, in a miniature civilization which may well serve as a model for the human publicist.

HOSE who know her say the Lodged somewhere within the multithe mother of millions of workers the queen are predestined to the spin-whose energies from birth to death are sterhood of labor—unsexed females— exercised for the good of the world, the worker bees. Others, as shown, are elected to royalty. Yet others hold the brief dignity of sons, royal until their day of opportunity is past and the

For, be it known, the drone bee is literally the son of his mother. An unwedded queen possesses the power to lay eggs which will bring forth drones with all their masculine powers. But it requires the union of the sexes to produce either workers or queens—a potent illustration of the unity and interdependence of sex.

This remarkable biological fact-"parthenogenesis," or the virgin birth, is found in a few species of the social hymenoptera—four-winged insects that live in communities. It should give pause to such as lift eyebrows at the biblical narrative of the birth of the

Savior of men.
Such are a few of the wonderful attributes of the queen bee.

Winter Pruning Good Practice

An old and accepted theory in years bestowed upon this royal mistress by gone by was that dormant pruning of her subjects is the divine right of ser-fruit trees should be done only in spring just before growth starts. The general impression was that winter pruning followed by freezing and drying out of the wounds was injurious to the trees. Slight injury probably does result, but the Nebraska College of Agriculture says danger can be avoided by the painting of wounds more than an inch in diameter with white lead and linseed oil. This saves the wound from drying out and keeps out moisture and disease. There is no good reason why pruning should not be done during the winter. In fact for the average orchard owner that is the best time. In spring, when other work is crowding, the orchard is likely to be forgotten. Because no two trees are alike, no definite and specific pruning rules can be laid down. It is considered proper to keep tree tops reasonably open in order to permit penetra-tion of sunlight. Dead and badly dis-eased limbs should be removed, as well This royal virgin presently goes as water sprouts and other limbs forth in flight seeking a mate among which are crowding into the center of the throng of lusty drones which purthe tree. Pruning smoothly, close up

Supplying the Fire

The Man of Law-"But, my dear madam, there is no insurance money for you to draw. Your late husband never insured his life; he only had a policy against fire."
The Wonderful Widow—"Precisely.

That is the very reason I had him cre







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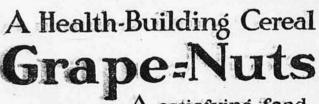
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Kansans Buy a Good Bull

Co-operative Company Plans to Get Purebred Livestock BY GEORGE C. WHEELER



These Calves are the Offspring of Company Cows. Heifer Calf in Center of Group Sired by \$15,000 Bull. Good Breeding Pays.

production. The Lyon County Holstein-Friesian association has 26 stockholders, part of them being farmers who have taken company cows on their farms and the remainder town men who have invested in the deal as a business proposition. These men regard the investment itself as a good safe one, and in addition feel that the general prosperity of the whole community can be advanced by making it possible to place more purebred stock on the farms of the county.

WNERSHIP of a \$10,000 bull has

become a reality to a group of Lyon county dairymen and busi-

ness men who have organized a livestock improvement company capitalized at \$15,000. This company has been

which has pushed the dairy industry a notch farther to the front and wid-ened the interest in this line of animal

The 10 farmer members of the company each have two or more associations county company in figuring their prosare the property of the company and are handled and cared for under contract by the "caretaker stockholders" as they are called. These men are required to buy at least 10 shares of stock at \$10 a share for each company cow placed in their charge. Their applications must be approved by a committee which will investigate the applicant's qualifications for properly handling highly bred dairy cows.

The contract entered into by the company and the caretaker is for a period of five years. The company agrees to provide well bred bulls and provide for their care, making them accessible to the members. It agrees to pay all registration fees, including fees for official advanced registry tests, to look after all correspondence in con-nection with selling bull calves and pay half of all veterinary expense. The caretaker is to keep the cows for the five-year period, receiving all the milk and butter produced and a half interest in the offspring. The bull calves are to be sold whenever they can be disposed of to the best advantage, it being agreed that the caretaker shall not be required to keep bull calves at his own expense after they are a year old. Proceeds from the sale of bull calves are to be divided at once. The caretaker was required to test all of his cattle for tuberculosis at least 90 days before he received the company cows and dispose of all reacters and disinfect the premises thoroly. He agrees to test once a year for the duration of the contract. He must also become a member of the Lyon county cow testing association.

Selling the Offspring

At the end of the five-year period the original cows, their female off-spring and any bull calves on hand are to be assembled in Emporia and sold at public auction, the company agree-ing to advertise the sale in the leading dairy papers of the country. The care-taker and the company may bid on any of the animals in the sale. After all expenses have been paid, including the cost of the original cows, the proceeds will be divided equally between the caretakers and the company.

This is the first company of the kind in Kansas. Several other dairy communities in the state are now organizing similar stock breeding com-panies. The plan has been tested in Pettis county, Missouri, where a com-pany known as the Pettis County Hol-\$30,000 was formed in 1917. This company, having no precedents to guide it, worked out the probable increase of a 2-year-old heifer in a five-year period, calling in Prof. C. H. Eckles to assist in checking the figures. They estimated that if the normal law of averages worked out, at the end of the years the owner of the original cow would have in addition three cows that have produced calves, one 2-year-old heifer, two yearlings, two heifer calves, and will have produced six bull the calves. They estimated that the bull calves. They estimated that the bull calves should bring \$84. They allowed \$75 a head or \$150 for the two heifer calves, \$125 a head or \$250 for the two yearlings, \$150 for the 2-year-old and \$200 each or \$600 for the three young This makes the original cow's total increase valued at \$1,234. In making these calculations the plan was to estimate them on the basis of two-

county company in figuring their prospective profits made still further deductions, allowing 20 per cent to offset loss of calves, failure of cows to breed and other losses. Then a further discount of 20 per cent was deducted to provide for unforeseen contingencies. This reduced the theoretical valuation of the increase to \$790.56. It was which cost \$300, would depreciate half in five years. With all these deductions the profit of the transaction figured out at the rate of about 16 per sent was described. This bull is not only bred "in the purple" from the production the product to standpoint, being a full brother to a cow breaking 20 world's records before she was 4 years old, but his heiffore she was 4 years old, but his heifford had just pro ured out at the rate of about 16 per cent a year, this being the amount that the stockholder in the company might safely expect. This company has 125 safely expect. This company has 125 stockholders and the results of its operations have more than equaled the expectations. About half the stockholders handle company cows and every one without exception has been pleased with the results. One man, who sold his farm, sold his \$290 worth of stock in the company, together with of stock in the company, together with his half interest in the increase of his cows, to the man who bought this farm

Emporia's Recent Achievement

The most recent achievement of the Emporia company was the purchase of the bull, Prince DeKol Beauty Girl Segis, from J. M. Hackney of St. Paul, Minn. As individual breeders the men of this company could probably never have looked forward to the owning of such a bull. They are all men of small capital just getting started with dairy cows, some of them even being on rented farms. Some of the best Hol-stein herds in the United States are headed by brothers or half brothers of this animal they have just purchased. Mr. Hackney sold him to W. W. Finney of Emporia as a yearling. Mr. Finney has built up one of the best bred Holstein herds in Kansas, but owing to the press of other business he has found himself unable to continue this dairy farm proposition on its present basis, and in a deal made recently he sold the bull and 59 cows, heifers and heifer calves to Mr. Hackney for \$30,200. The company owned a good bull which had mal, combined with good business pany, methods in handling his offspring, J.

which resulted in this bull becoming the property of the Lyon county breeding company. One of the important result of a co-operative project in the points to settle in getting such a valuintroduction of dairy cattle. This boy able animal was the selection of a suitisplaintly developing a real interest in able caretaker. Thomas Marks, whose farm is centrally located, was finally of pride he called our attention to a chosen as the best man to take charge of the company bull. Mr. Marks was purphased last fall of the company bull. Mr. Marks was selected because he had proved himself a real dairyman by the results he had selected because he had proved himself
on another rented farm M. E. Ruma real dairyman by the results he had
obtained in his own dairy herd and
He has four Holstein cows of his own. the directors of the company felt that they could count on this valuable anicalf only a few days old, sired by a mal receiving the best of care in his half-brother of the Finney bull just hands. A motor truck has been purpurchased, for which the owners in they could count on this valuable anichased for hauling stock and supplies.

The Lyon county company made its start in a rather small way. It now owns 31 cows. Twenty-two of these were purchased in one of the leading dairy sections in Minnesota and nine their breeding is such that their intrefrom a Kansas breeder of Holsteins. A duction into Lyon county will have a purchasing committee consisting of J. profound influence on the improvement C. Hoch, president of the farm bureau of the purebred dairy stock of the comof Lyon county, Prof. J. B. Fitch, head of the dairy department of the Kansas State Agricultural college, and Gaylord Hancock, county agent, the two latter in advisory capacity only, went to Minnesota to buy the cows.

A. H. Guffler, an Emporia business man connected with the Theo. Poehler wholesale grocery house, is treasurer of the Lyon County Purebred Holstein-Friesian association. The town men associated with this enterprise are giv-

Animals Selected Carefully

The animals were very carefully selected. Of the Minnesota purchases all but fliree are from A. R. O. dams and seven have A. R. O. records of their own. Six were bred to bulls whose dams had just finished a yearly test making 1305 pounds of butter. One was bred to a bull which the owner had refused \$15,000. The heifer calf been donated to it by Mr. Finney, but the directors felt that it would be a calamity to let this outstanding indical mity felt that the retention of such an ani- of the bull just purchased by the com-

J. L. Stevenson is president of the

company. He has a fertile farm which has made him a good return on alfalfa. In fact he told us as we were walking over the farm recently that he had made no more from his dairy cows the last year than he could have made by selling the hay they consumed. He has an ambition, however, to do something that will live after him. "There is no future to selling alfalfa hay," said Mr. Stevenson. "When you quit you have nothing in the way of achievement to pass on." Then he spoke of the possibility of eventually reducing the "When you quit you fertility by selling alfalfa year after year. Mr. Stevenson has five association cows, several of which have already produced calves. He has five purebred cows of his own and is gradually getting his equipment in shape for handling dairy cattle. At present he is putting up with an expensived dairy betting up with an expensived dairy beauty which is morely temporized dairy barn which is merely an old horse barn equipped with stanchions for the cows and facilities for cleaning by means of a home-made litter carrier. He milks with a machine and has just fitted up a milk room adjoining the stable. On the William Dresher farm, we

young grade Holstein heifers distributed in Emporia two years ago as the purchased last fall.

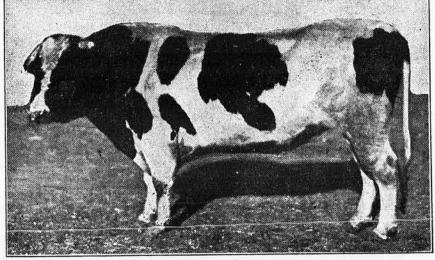
On this farm we saw a fine heifer Minnesota had refused a cash offer of \$35,000. One other company cow was bred to this same animal. While this company has not introduced a very large number of cows, the character of

of the Lyon County Purebred Holstein-Friesian association. The town men associated with this enterprise are giving it their heartiest support in every way possible. Mr. Guffler recently shipped in a car load of blackstrap feeding molasses and sold it out in small lots at the bare cost of handling.

This project has already gone far enough to give evidence of the great possibilities which may come to a community as a result of the pooling of capital for improving the dairy stock. Other communities will do well to watch the results of this company's

Kansas Steer Winners

Three loads of winning steers fed by A. E. Mac Gregor, Washington county, Kan., were shown and sold at the re-cent International Livestock show. These cattle were all purebreds, one lot being 2-year-old Shorthorns, and two lots being 2-year-old Herefords. The Shorthorn steers had previously first in the yearling Shorthorn feeder class at the 1919 Western Livestock show at Den-ver. They were bred by Weiss Bros., Elizabeth, Colo., and obtained by Mr. Mac Gregor at a purchase price of \$20.50 a hundredweight. Immediately upon receipt of them, he placed them upon feed, bringing them to full feed about June 15, 1919. The average weight of the Shorthorns at the beginning of feed was 820 pounds, and the daily ration consisted of 19 pounds of ground corn, 2 pounds of oilment, 21/2 pounds of Tarkio molasses, 2 pounds of ground oats and all the alfalfa hay they would eat. In general they were fed in open yards but had access to sheds for shelter in bad weather. In



County Holstein Breeding Company Takes Important Step Now in Purchasing This Highly Bred Bull for Use of Members.

the Chicago show, they received sec-ond as 2-year-olds in the special Short-horn classes, weighing an average of 1,420 pounds and bringing \$26.50 at

public auction.

His two lots of Herefords were particularly interesting, since the lot which won first in the South Central District contained cattle without a provious show record, while his lot which won first in the South Central District contained cattle without a previous show record, while his lot that was fifth had been grand champion feeders at the Denver show of last winter. His rations and methods of handling were the same for these, as for the Shorthorns, since both of the loads were 2-year-olds. His first prize load of Herefords were bought of Adams & Robert, Plains, Kan., at a purchase price of 17 cents a pound, while the fifth prize load was bought of Russell Bros., La Jara, Colo., at the purchase price of \$20.25 a hundredweight. The average weight of the first load at the beginning of feeding was 732 pounds a head and of the 5th prize load 750 pounds a head. At Chicago the first prize lot weighed 1,375 pounds and brought \$25 at public auction, and the second prize lot weighed 1,282 pounds and brought \$25.0. The first lot dressed 64.4 per cent; the fifth prize, 63.9 per cents.

Mr. MacGregor has followed this

first lot dressed 64.4 per cent; the fifth prize, 63.9 per cent.

Mr. MacGregor has followed this method of making high-class beef for years and considers his rations and method of handling as nearly perfect for his own conditions as is possible for him to obtain.

Selecting a Pulley

H. J. METCALF Ames, Ia.

Every time we buy a new piece of best machinery we have the question to answer: "How large a pulley-do I need?" We cannot use the same size pulley on the feed grinders, the wood saw and the threshing machine, when all of them must run at a different speed to work satisfactorily.

speed to work satisfactorily.

The manufacturers tell us that never before have they done so much business in small separators as they have this year. The farm tractor makes the

small machine a valuable asset to the individual or neighborhood.

Last year because of war emergency,

Last year because of war emergency, everything possible was done to save wheat. Many of the small machines investigated were wasting as much as 15 per cent of the grain. The speed of the cylinder was the cause for practically all of it. The rule is simple and we need only take a moment to be sure that we are right.

Multiply the number of revolutions a minute of the engine or driver pulley N by its own diameter in inches D, and divide the result by the number of revolutions a minute at which the driver pulley should travel. For example: We have a 10-20 tractor with an engine speed of 500 revolutions a minute, using a 20 inch pulley. Our separator is a 22-inch machine and the cylinder must run 1200 revolutions a minute for successful operation.

Applying the above rule:

N times D equals nd
500 times 20 equals 1200 times d
500 times 20 divided by 1200 equals d, equals 8½ inches.

We need a pulley with a diameter of

equals 81/3 inches.

We need a pulley with a diameter of Sty inches on the cylinder shaft. This rule is also used in figuring size of gears for similar reductions and for pulleys on line shafts in shop work.

Steer Feeding Shows Results

In a steer-feeding experiment conducted last year on the United States Experiment farm at Beltsville, Md., four lots of 2-year-old steers were fed. The purpose was to compare cotton-seed meal and soaked velvet beans when used with and without the addi-tion of shelled corn.

The addition of corn to a ration composed of corn silage, cottonseed meal, and wheat straw did not pay. The addition of corn to the ration of velvet beans and corn silage was profitable.

The lot receiving corn silage and soaked velvet beans with a small quantity of cottonseed meal as an appetizer produced the most economical gains and showed the greatest profit, even tho the daily gains and the selling price of the cattle were lower than those of any of the other lots.

Half the victories of life come from a confident belief that one is going to win. The world has little use for the man who is continually down at the

Results show at Harvest Time



IF your seed bed is not properly prepared, take an inventory of the clods—the rough stuff in the field and enter every single one of them in your ledger as a liability. They are just like so many pores letting out that precious subsoil moisture. You cannot spare that stored power

if you want bumper crops.

International Tillage Tools put your seed bed in prime condition. In this deservedly popular line of implements are disk harrows, spring- and peg-tooth and combination harrows, culti-packers, etc. The disk harrow, for instance, slices and destroys the clods until the close-knit covering guards every bit of subsoil moisture, while permitting the absorption of additional supplies from above.

The 1920 International line of implements for laying crop foundation is the most complete we have ever offered. You know your soil. Whatever its needs, we have the type of disk harrow suited to it. If a sandy, loose loam the two-lever type answers every requirement; if hard, stony

or trashy ground, the three-lever type with its center-depth regulator insures a firm, compact seed bed. If you use a tractor, see our leverless tractor disk. Whatever your power equipment, we have a size that utilizes it to the best advantage. Ask your dealer to point out to you the exclusive features of each type.

Let us mail you descriptive folders of these tillage implements so that you will know just a bit more about the preparing of Spring seed beds. With every implement goes an alert, responsive and intelli-gent service. The International dealer will serve you direct.



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OF AMERICA INC.



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sore muscles, lumbago, sciatica.
"We keep a large bottle of Sloan's Liniment in the house all the time to use when an attack comes on. You know Sloan's is one of the old timers. Doctor Earl S. Sloan put it on sale 38 years ago. "We get the biggest bottle because it's more economical. A little applied to the spot sendrates without rubbing and promptly eases up the pain and ache."

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says the Good Judge



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You'll find it keeps coming, too. The rich tobacco taste lasts and lasts. You don't have to take a fresh chew so often. Any man who uses the Real Tobacco Chew will tell you that.

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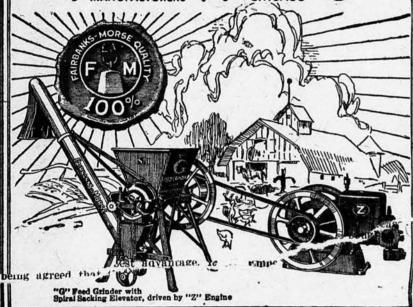
VITH a "G" Feed Grinder you can have fresh feed always on hand. Ground feed is hard to keep fresh, especially if not dry and well

¶ Fairbanks-Morse "G" Feed Grinders grind all grains—wet or frozen grains—handle cobs.

¶ Ground feed pays big dividends. You feed less of it—raise better cattle, horses, pigs, chickens—get more work from your horses—make more money.

"G" Feed Grinders are quality-built throughout-Fairbanks-Morse construction that you know is good. They embody every known valuable feed grinder feature. See the "G" Grinder at your local dealer today.

Fairbanks, Morse & @





It is EASY to BLAST stumps

Atlas Farm Powder is prepared especially for the use of inexperienced farmers who wish to do their own blasting. It is as easy to use as the ordinary 'gas' engine. Theodore Drake, Prattsburg, N. Y., writes regarding his first experience with it:

"After reading your book, Better Farming,' I am fully convinced of the value of explosives for farm work. I blew out some old apple tree stumps and smashed a rock with Atlas Farm Powder, though I had never shot any dynamite before."

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It tells how to remove stumps, blast ditches, smash boulders, plant trees and increase yields by subsoiling. Write for this book. It is free.

ATLAS POWDER COMPANY

Division F.M I, Philadelphia, Penna.



Kansas Farm News Notes

COUNTY farm agents, progressive of the United States Department of farmers, and all readers of the Kansas Farmer and Mail and Breeze are urged to send us items of farm news that they desire to have published in this department of the paper. It is our plan to make this a regular feature of the paper and we need your help to make it a success. Mail your material to us at the earliest date possible.

Of the United States Department of Agriculture in co-operation with the Kansas Agriculture in college, is now in its fifth year. It began September t date possible.

Grain in Motor Trucks

A truck owner in Pratt, Kan., hauled in 800 bushels of grain from a Pratt county farm in one forenoon recently. Another Pratt man took a truck load of hogs to the stock yards at Wichita, receiving \$104 more for them than he was offered on the local market.

Co-operative Insurance Successful

Reports made at the recent state conrention of the farmers' union show that the co-operative insurance business of the organization for the past year has been very successful. From the hail insurance business, besides putting \$20,000 into the treasury as reserve, 35 per cent of the premiums were paid back to the farmers, approximately \$60,000.

Vote Rural High School

By a vote of 411 to 53 residents of the Perry community in Jefferson county have decided to establish a rural high school. The district will include parts of four townships, A bond issue of \$60,000 has been authorized and plans are being pushed to have the building completed and ready for accurance by the country of the for accurance by the country of the company of the country of the for occupancy by the opening of the next-genocl- Fear

Wheat Growers' Convention

A wheat growers' convention is to be called in Kansas City some time in April by the National Farmers' Union. This was indorsed by the recent state convention of the Kansas farmers' union, and it was also suggested that the president of the Kansas union call a special conference of Kansas wheat growers at the same time to consider rates of payment for harvest hands, threshing grain and other wheat growers' problems.

Co-operative Threshing Advocated

Operation of co-operative threshing outfits was recommended by Maurice McAuliffe, president of the Kansas State Farmers' Union, in his annual address before the Hutchinson convention of the organization. Results of the past season demonstrated the advantages of this method of threshing. It was the testimony of many present at this meeting that the small thresher run with a farm tractor had saved large quantities of wheat.

For Collective Bargaining

J. B. Miller, counsel of the national board of farm organizations, appeared before a Senate sub-committee at a recent hearing to demand the right of farmers and dairymen to bargain col-lectively in the sale of their products. Mr. Miller testified before the committee that every big farm organization in the country had endorsed the Cap-per-Hersman Bill which has for its purpose the protection of farmers from prosecution under federal anti-thust

Build New Grandstand

to cost \$75,000 is to be built by the Kansas Free Fair association to replace the old, wooden structure which has stood on the Topeka fair grounds until it is no longer safe to be used by the large crowds attending this fair. The plans for this new grandstand provide that it be modern in every way, having ample facilities for filling and emptying it quickly and with complete fire protection. It is planned to have it ready for use by fair time next fall.

the male line of descent and to what extent this milk-giving function of the dam influences the beef character of the progeny. Several steers and bull calves produced by this herd have shown unusual merit and have become prize winners of importance.

Sudan for Pasture

Sudan grass pasture for milk cows equals a ration of silage, grain and alfalfa hay, according to a test made at the Kansas Experiment station last summer. Six grade Holstein cows were put on a 4-acre patch of Sudan grass put on a 4-acre patch of Sudam grass July 1 and were not taken off until October 10. These cows had been getting a ration of silage, grain and alfalfa. After they were put on pasture they were fed only a grain ration of corn, bran and linseed meal in proportion to their milk production. They held up in their milk thruout the summer period. This test would indicate the possibility of Sudan grass supplying pasture for milk cows during the hot summer months when other pastures fail. tures fail.

Co-operation and Cash

In true co-operative enterprises the cash method of doing business is an eash method of doing business is an important factor in the success of the enterprise. This point was strongly emphasized in the reports of co-operative business made at the farmers' union state convention. "Co-operation and cash go together," said President McAuliffe in his annual address, Co-operators who do not wish to do busi-ness on a cash basis have failed to appreciate to the fullest extent the principles of co-operative effort.

New Creamery Company

The Farmers' Creamery and Ice Company is the name of a new corporation just formed in North Topeka as a consolidation of two local companies. More than 200 farmers and city business men have taken stock in the new enterprise which is capitalized at steppise which is capitalized at \$50,000. Improvements costing approximately \$35,000 are planned for the building which is to be used. The new company will make ice-cream, ice and butter. It will have a daily capacity of 3,000 pounds of butter and about 20 tons of ice.

Barton County Bureau Drive

In a special membership drive made recently 730 new members were added to the Barton county farm bureau. Four townships were not covered at all. Thirteen farmers from other counties came in to help in presenting the farm bureau idea to their fellow farmers in Barton county. More than 90 per cent of the farmers interviewed signed membership cards in the local bureau and made donations to the special state bureau fund amounting to nearly \$1,000. The drive concluded with a banquet for all the organizers and officers of the organization who had taken an active part in the campaign. A musical program was given inter-spersed with short talks by the cam-paign workers. It was the opinion of those present that the farmers of this A new steel and concrete grandstand county have it in their power to bring about many changes which will be of great benefit to all of them and with proper understanding, team work, and organization can accomplish a great deal more than would be possible thru individual effort.

Armour Makes Big Profit

Gross sales of Armour and company for the year ending November 1, 1919 were in excess of 1 billion dollars, according to the annual financial re-Breeding Experiment Progress
The 20-year beef cattle breeding experiment being conducted at Manhatter of \$1.35 on each dollar of sales tan by the Bureau of Animal Industry and 6.74 per cent on the net capital invested. The directors point to this rate of profit on the capital as proof of the absurdity of the charges that packers are profiteering as a result of their control of the livestock and meat food markets of the country.

Accredited Herds Increase

Signs indicating support of the accredited herd plan for wiping out tu-berculosis were tacked up with a number of the herds on exhibition at the recent national livestock show held at recent national livestock show held at Wichita. Men who have gone into the accredited herd plan which provides for the periodic testing of herds by government veterinarians, are permitted to advertise the fact. As soon as a herd has been found clean of tuberculosis following two consecutive tests, it is put on the accredited herd list published by the government. list published by the government.

Doniphan County Breeders Organize

Doniphan County Breeders Organized Doniphan county breeders of pure-bred livestock met in Troy, January 31 and organized a county improved stock breeders' association. Breeders of all classes of livestock are eligible for membership. The objects of the association as set forth in the constitution and by-laws are to promote the breeding of purebred stock in the county to facilitate co-operative buying, ty to facilitate co-operative buying, selling and exchange of good breeding stock, to prevent the spread of infectious and contagious diseases of livestock, to hold livestock and agricultural shows and sales, to co-operate with the county agent in his work, and to eucourage in every way possible all projects which may assist in the development of the livestock and agricultural interests of the county. The organization plans to issue a classified directory of the breeders of purebred stock in the county in the near future, W. G. Denton of Denton, Kan., was elected president; P. F. Dubach of Wathena, vice-president and F. H. Dillenback of Troy, secretary-treasurer.

New Pasture Lease Plan

Paying for grass on the basis of gains made is a new plan being pro-posed by cattlemen of the grazing districts of Kansas for adoption the coming season. Last year the prices paid were extremely high and few leases have been made as yet this year. Under the old plan the pasture owner took no risk whatever. He received his money for the pasture no matter whether the cattle owner lost money or not. Under the proposed plan the responsibility and risk is to be more equalized. The cattlemen propose to put in scales and weigh the cattle when they enter the pastures and take tricts of Kansas for adoption the comwhen they enter the pastures and take the sale's weight on them when they are marketed, paying the pasture owner according to the gain they made while on the grass. If the season is good and the cattle do well, both will profit, while if the grass is poor and the cattle fail to make a good gain, both will lose alike. Cattlemen feel that the adoption of this plan would provide an incentive to the pasture owner to see that the cattle are well cared for, even tho the owner may said on the owner may seldom be around.

Ransas Holsteins to Minnesota

A notable sale of Kansas Holstein cattle was that made recently by W. W. Finney of Emporia, Kan., to J. M. Hackney of Saint Paul, Minn., in which was included what is probably the highest price Holstein bull ever sold In the state. Fifty-nine head of fe-males of which only 21 head were mature cows were included in the sale, the total consideration being \$30,200. Thirteen were heifers less than 1 year old and the remainder heifers that had not as yet produced calves. The bull, Prince Beauty Girl Pontiac Segis, a son of the world famous dairy bull, King Segis Pontiae Count, was purchased from Mr. Hackney as a yearling for \$1,500 and in this sale went back to his breeder at \$9,800. Mr. Finney, who is manager of the Em-Telephone company and a numher of other telephone companies and director in several banks, is selling these Holsteins because he finds it im-Possible to give sufficient attention in the rapidly growing herd. Mr. Hackney is vice president of the National Control of th tional Holstein-Friesian association and one of the prominent breeders of the



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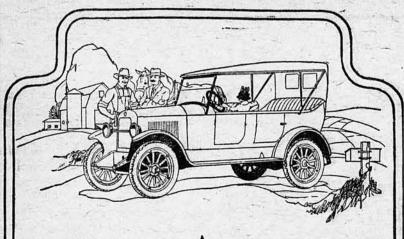


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Briscoe cars are made in Touring car, Sedan, and Thredor Coupe models. And one of the three is just the car you've been wanting, at the price you want to pay.

"The leader of light-weight cars" is the kind of car that's long been wanted on the farm. It is a car that meets every farm purpose. It is roomy, clean-cut, dependable. It is comfortable to ride in and has every convenience. It is a car that will travel any road—that will climb the steepest hills and stand the strain of rough travel. And in power performance, it has made wonderful records for owners—records that mean low cost of operation and maintenance.

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BRISCOE MOTOR CORPORATION JACKSON, MICHIGAN





Farming in Western Kansas

he has made thistle meal of his hay fed a limited quantity of this meal and did welt. Mr. Bigge says his cows gave as good a milk flow on this thistle meal as when previously fed on alfalfa. He says there is no waste in feeding in this way and thinks it pays to

in this way and thinks it pays to grind his hay.

Russian thistles usually are cut with a mowing machine, and raked and stacked while one-half cured. In this way they handle better and make a superior quality of hay. Some men rake them into cocks while others prefer to use the buck rake, putting them into larger heaps, while still others stack them in ricks. If well stacked, the hay keeps in better condition in ricks. keeps in better condition in ricks.

There are two general methods of feeding followed: One is to allow the stock to have free access to the heaps or stacks and the other is to haul out the desired feed every day and feed in racks or scatter on the ground. There is perhaps more wasted in permitting the cattle to run to the stacks, but there is not so much waste as one would think and some labor is saved. Owing to the nature of the thistle hay, cattle seem to eat it with a little more relish when allowed to run to the

C. F. Folkers of Wakeeney put up 10 large ricks of thistle hay in the summer of 1918, cutting it with a grain header. Mr. Folkers was much pleased with this method of putting up thistles. It is much faster than the mowing machine, saves at least one handling and keeps the hay free from dirt. On account of the large amount of juice in the thistles the header canvas becomes quite wet so it is necessary to remove it at night and dry it out.

Analysis shows that Russian thistles contain practically the same percentage of protein as alfalfa but it is higher in crude fiber and ash. Thistle hay has been fed to all kinds of cattle including breeding cows. This feed is quite laxative and is not so satisfactory for inside barn feeding as outside feeding. The best results have been obtained when some other feed such as straw or Buffalo grass is included in the ra-tion in the winter months.

What is Your Farm Worth?

The value of a farm is determined by its desirability as a home, and the ability of the soil to pay dividends on

the labor of tillage.

What makes a home? Is it the fine barns and buildings? Would a stranger driving by your farm in winter be attracted by it as a place he would like to buy and live on? Two thousand dollars in word and a stranger lars invested in a barn adds \$2,000 to the value of your farm. Two hundred dollars invested in an evergreen windbreak will add \$2,000 to the value of your farm in a few years, and a wind-break continues to increase in value

crops from cold winter winds. Accord- has a black tinted chaff. ing to thousands of owners of everin feed where stock have evergreen shelter belts, and the beneficial effects begin to be noticed within four years after planting and continue to increase in value.

thrudut the country recommend evergreens for shelter belt plantings. The United States Bureau of Forestry heartily endorses them. The Fort Hays Experiment station has been carrying on windbreak tests for 15 years. In both the upland and bottom fields are ity and yield.

FEW farmers in Western Kansas those composed of evergreens. The staare feeding Russian thistle meal. tion is growing a few selected varieties Ben Bigge of Stockton put up for distribution thruout the Western some thistle hay last summer and in half of the state. In the spring of the fall bought a grinder attachment 1919 more than 8.000 pine trees were to his silage cutter. With this machine set in nursery beds for use in 1921. Five thousand arbor vitae and 5,000 and it was the main ration fed to his Red cedars are now in the nursery rows stock last winter. The horses were ready for distribution. These are sold at the cost of production. Three species of pines are being grown for distribu-tion and are recommended highly for windbreak or ornamental plantings. The pines that have stood the test of Hays conditions are Austrian, Bull and Scotch. The first two are attractive in form and foliage. The Scotch does not carry its leaves very long, and presents a more ragged appearance and is less valuable as a windbreak. The Fort Hays Experiment station will not have any pines for distribution before 1922, but almost any reliable nursery

can supply them.

The great danger in planting evergreens is in allowing the roots to be-come exposed to the air for even a short time. Such exposure is fatal.

Anyone expecting a shipment of evergreens should watch the express office closely and get the trees the day they arrive. If it is impossible to plant the trees at once the roots should be mois-tened in the package. Do not wet the

Before starting to plant, a bucket or barrel of puddle should be prepared and the trees taken from the package and put in the puddle at once. Puddle is prepared by mixing water and clay to a creamy consistency. An excellent receptacle for the puddle is made by sawing a barrel across the middle. Take the trees to the field in the puddle and take them out when the freshly dug hole is ready for them.

The holes should be of proper size to easily accommodate all the roots without crowding, and the bottom of the hole should contain a spade's depth of loose soil. Extra care in arranging the roots in the hole and in covering them with loose, moist top soil will be paid for in a better stand of trees. After the roots are covered they should be transported they should be transported to the covered they should be transported to the transported to t

be tramped well to leave no air pockets to dry them out.

In the Western half of the state the best date for planting evergreens is from March 15 to April 15. An occasional soaking of the ground

is beneficial, but not essential except in unusually dry years. Better results are obtainable from continuous cultivation. This is imperative in Western

Developing a New Wheat

The process by which a new strain or variety of wheat is developed is to select a promising head and grow it in head rows, then the next year in rod rows as the amount of seed is in-creased. From the rod rows enough seed may be secured to plant a plat the next year. If the wheat at this stage of development shows superiority it is sown in the larger commercial fields from which distribution may in time be made to the farmers.

Some of the more prominent varieties break continues to increase in value of wheat which will be tried out at the Fort Hays Experiment station are Evergreens are recommended for windbreak plantings because of the low Blackhull. Kanred is considered the growing branches that carry their standard by which all other varieties leaves thruout the season. A group are measured. P1066 and P1068 are or a row of evergreens on the farm closely related to Kanred. They are adds a touch of life to the surround-good yielders, winter hardy and company to the surround-good yielders. ings the entire winter. But in addi- paratively free from rust. Clark's tion to that they are of economic value Blackhull has made a good showing. as a protection to livestock, houses and Its name comes from the fact that it

Six importations of wheat direct green plantings there is a great saving from Cape Town, South Africa, are being tried out for the first time in this country. These varieties probably will be only of passing interest as experience has shown that African wheats re value. are subject to winter killing and are The agricultural experiment stations inclined to rust heavily.

A number of varieties and strains of both Turkey and Kharkof are included in the experiments. Some of these strains were selected and de-veloped at the Fort Hays Experiment station and have been among the highthe shelter belt plantings on the sta- est yielders. However they have been tion the most efficient windbreaks on overshadowed by Kanred in both qual-

The Farmiscope

Readers of the Kansas Farmer and Mail and Breeze are invited to con-tribute freely to this column, Bright sayings of children, witticisms, and good jokes especially are desired. Ad-dress all communications intended for this page to the Feature Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

His Blunder

He resided in the suburbs, and when he accidentally met an old friend in the city who persuaded him to remain in town for the evening he went to the telegraph office and wired his wife as

"Missed the 5:30 train. Don't keep dinner waiting. Shall be home late."

It was very, very late when he did arrive home, and his wife met him at

the door. "Did you get my message?" he said,

beaming down at her.

"Yes," she said, very quietly, "but I would like you to explain why you sent a message at 4:28 telling me you had missed the 5:30 train.

Heartless Girl

He had been telling of his engage-ment to the beauty of the town, but no took his announcement seriously. One day he gave out that he had brok-

en his engagement.
"So you really broke the engagement, Henry?" he was asked.

"That's exactly what I did." "Dear me! Tell us why you were so

cruel," one of his hearers begged.
"Well, it's like this," explained
Henry. "Dolly told me she wouldn't
marry me and I don't intend to be engaged to any girl who won't marry me."—Pittsburg Chronicle Telegraph.

Those Inconsiderate Companies

A woman, wearing an anxious expression, called at an insurance office one morning.

"I understand," she said, "that for five dollars I can insure my house for a thousand dollars."

"Yes," replied the agent, "that is right."

right."

"And," continued the woman anxiously, "do you make any inquiries as to the origin of the fire?"

"Certainly," was the prompt reply.

"Oh!" and she turned to leave the office. "I thought there was a catch in it somewhere."—Lumberman.

Where Rank Availed Naught

A lieutenant-colonel attending a French class taught by a Frenchman who had not learned the American army insignia, said to the lieutenantcolonel:

"Et dites, Monsieur, quel age avez-vous?" (And say, mister, what is your (And say, mister, what is your

"Indiana." the colonel replied, making a stab at the answer. In the tor-nado of laughter that followed he escaped from the room to the primary class.-Stars and Stripes.

Their Prospects

"Propinquity is what brings about marriages," declared the father of three single daughters in didactic mood.

"Yes?" murmured his wife. "It works this way. From among the men who call most frequently at a house the daughters of the house naturally select husbands."

"In that case," said the mother sad-ly, ") fear our girls are doomed to marry bill collectors."

Chance to Shine

"She has no bump of order, no idea of system."
"She might do well in a pickle fac-

tory at that."

In what capacity?"

"Give her the job of mixing the pickles."

Too Small to Notice

"Your father objects to your bathing

suit," said Mrs. Cumrox.
"I don't see," protested Gwendolyn,
"how he could possibly object to a little
thing like that!"—Washington Star.

Looking Backward

"There's no danger," said the doctor. "It's only a carbuncle coming on the back of your neck. But you must keep your eye on it."-Christian Register.

SEEKING A MARKET FOR DAIRY BY-PRODUCTS

VERY dairyman will agree that if he could sell his skimmed milk for what it is worth as a human food, the profits on his dairy business would be substantially increased. But where is the market for skimmed milk as a human food?

Authorities say that the milk supply of the country is twenty-five percent below the domestic market requirements, if each man, woman and child of this country, to say nothing of foreign needs, is to receive the amount of dairy products necessary for proper nourishment. This, then, is the market-helping to make up the 25% shortage by diverting to human use a part of the large quantity of skimmed milk which is fed to stock. And here is one method by which this can be done:

Skimmed milk lacks only a fat content to make it desirable for cooking and baking. The lack of fat, too, makes it unpalatable. Hence, it is just plain common sense that, with the addition of a vegetable fat, skimmed milk can be made palatable and moré desirable as a human_food for culinary operations, releasing whole milk so used for other more needed pur-

Hebe Brings Skimmed Milk to Market as Human Food

TEBE was created to reach this additional market-to serve as an auxiliary to the daily milk supply for specific uses in the home. Hebe is labeled with the utmost frankness as to its contents and uses. It is advertised as it is labeled-honestly and frankly-"A Compound of Evaporated Skimmed Milk and Vegetable Fat," for cooking and baking. By the scientific emulsifying of refined cocoanut fat with the skimmed milk, Hebe\ makes it possible to market skimmed milk as a human food, and thus opens to the dairyman another and more profitable outlet for his by-product, without interfering with the markets already established for dairy products. In the production of every 100 pounds of Hebe 210

pounds of skimmed milk are used, and 7.8 pounds of cocoanut fat. Thus a small amount of vegetable fat serves as the vehicle for bringing a large amount of skimmed milk to market as human food.

Benefit to the Entire Industry

TOW is this new market to benefit the uairyman who is not near enough to a Hebe condensery to sell his product there? The Hebe industry is young, and Hebe plants few in number, but every can sold is helping to develop this new market, and every bit of advertising put out by the Hebe Company is helping to educate the people to the greater use of dairy products. This influence cannot help but be of great benefit to the entire industry, for every additional outlet for marketing a product puts a new value on the product, and skimmed milk, prepared and marketed for a human food, is bound to increase in value, thereby benefitting every dairyman.

Every By-Product Should be Utilized

BUSINESS has proved that no industry is completely successful until every by-product has been utilized in the most profitable way. To feed the skimmed milk to stock is not the most profitable method of utilizing this by-product, because only a very small percentage of the food value of the skimmed milk is recovered in the meat of the animal. The larger part is used up by the animal simply in living.

The dairy industry will reach a fuller measure of efficiency and economy when the skimmed milk is disposed of in the most profitable way - as human food. Hebe points the way. It is an ally to the dairy industry, offering one method of utilizing skimmed milk as human food and increasing the use of dairy products in the home.

You will be interested in reading our booklet, Missing Third." Ask us to send you a copy. There is no charge for this. Address 2263 Consumers Bldg., Chicago. The Hebe Company, Chicago and Seattle.



Hickory Cured Hams are Best
THAT'S why we use Sasoned Hickory Wood
in making WRIGHT'S CONDENSED SMOKE. If you want
some good old fashioped filekory Flavored Hams and Bacon
use WRIGHT'S HAM PICKLE and WRIGHT'S CONDENSED
SMOKE. The Ham Pickle is a scientifically prepared sugar
cure. A dollar jar and 27 pounds of salt prepares a barrel
of meat for smoking. A Dollar bottle of WRIGHT'S SMOKE,
thirty minutes and a small brush will thoroughly smoke your meat and give it a Delicious
Flavor. The "WRIGHT" Way of curing meat is easier, quicker, cheaper and gives better results.
No fooling with fires. No danger of meat spoiling. No drying out or shrinkage.

EMPLOYING ADM RHITCHERING STE (Nine secular, butchers' tools, including saw and

No fooling with fires. No danger of meat spoiling. No drying out or shrinkage.

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This is your opportunity to obtain good land for little money in a rapidly developing section that is perfectly suited climatically to profitable stock raising, dairying and general farming. Could you invest a week's time to better advantage **right now** than to **see** the Highlands District, talk with other Northern and Western men already making good there, and prove for yourself the land is just as represented?

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from Kansas City to the Highlands of Louisiana and return to Kansas City, including railroad fare, Pullman berths, meals en route, hotel at Ludington, La., and automobiles in which to tour our farm lands. Every convenience provided for your enjoyment. This Special Low Rate Subject to Recall After March 1.—ACT NOW!

A handsomely illustrated Book, descriptive of the Highlands of Louisiana, will be sent you FREE if you fill out and mail the coupon at once.

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Flag Pins are now being worn by all patriotic merican Citizens. Get in line and show your patriotism wegging one of our Gold Plated enameled pins which



Jayhawkers Farm Notes By Harley Hatch

such weather as the last has been made a yield of 40 bushels to the acre. at the time of this writing, January In other words, it made 176 bushels 31, wheat would have made a good on 4 2-5 acres. The rent share was growth. But this year wheat does not-sold right on the farm for \$1.50 a in fact I have seen none in this lo-owner of virtually \$20 an acre. It was callty which seemed to be dead, but the the best yielding grain crop, aside from plant looks weak. I cannot see at this oats, I know of on upland in this part 15 bushel crop and it will have to liven proportion. up some to reach that figure. The ground seems in good condition and there is plenty of moisture in the top soil so when spring comes wheat may surprise us by covering the fields with

Last Year's Poultry Profits

green in short order.

The gross receipts from poultry on this farm were greater in 1919 than in failure and it probably will make fair any other year since we have lived in poultry feed but, to tell the truth, it Kansas, the number of hens kept being looks too much like cane seed to me Kansas, the number of hens kept being considered. We did not keep the usual number of hens thru the winter of 1918-19 and February 15, 1919, found early in the season but I am told that us with but 135 hens on hand. We in the markets the seed is classed as made no attempt to raise chickens for cane and not as kafir. But as a the market, our only aim being to hatch yielder of bulk, both of grain and the market, our only aim being to hatch enough to keep the supply of laying hens up to normal. Because of this. we only sold poultry to the value of \$44 in 1919; we kept many of our old hens over as but few of them were more than 2 years old. The egg receipts were \$377 from the 135 hens and in addition two families had what they wanted to use. Home consumption accounted for nearly all the young roosters, the few that were sold went for breeding stock.

they really wish to work fewer hours but because they wish to have those hours count as overtime. For instance, if the working hours were cut down to six and the worker kept right on putting in eight hours, he would get pay for two hours overtime and handled their business with a wagon-overtime, as most of us know, counts box elevator. Because of this they for time and one-half. In this con-nection I would like to ask if anyone, anywhere or any place ever heard of a on wheat in store. farmer drawing overtime wages for overtime?

Spring Work is Coming

hay crop put up last summer. Some large holders have succeeded in getting off one car of hay while others have not moved any. I am told that car shortage is much worse here than on the main lines but even at that a very large portion of hay is still in first hands down here in the prairie hay section. This means that we will

Schrock Kafir

county on which was grown a small field of Schrock kafir last summer. It farm. was put in rather late, partly as an experiment and partly to assure a good Now is the time to order farm masupply of rough feed for the man who chinery. If you delay you may not be carries on the farm. This kafir was able to get what you wish.

F we had had last year a week of topped and threshed last week and it respond to open weather. It is alive; bushel, making a cash rent to the land writing a show for more than a 12 to of Kansas and the fodder yield was in

Not Always Satisfactory

We_do not think very highly of kafir as a main grain crop here. Schrock kafir will, no doubt, outyield common kafir, as it is not a true kafir but a mixture of cane and kafir. It has the hardiness of cane and it will make a good grain crop when kafir is a partial to make the best feed. No doubt the fodder would be first class to feed fodder, it has no equal.

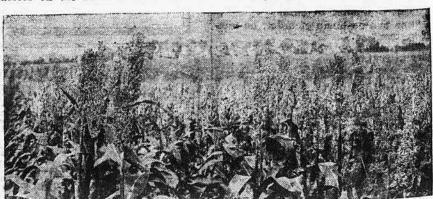
Rise in Wheat Prices

The continuous rise in the price of wheat from September until December 20 helped farmers' elevators to show a profit instead of the deficit which would otherwise have resulted from the fact that very little grain could be shipped. There are two elevators in Burlington owned principally by farmer stockholders, one of which has made a public report showing amount of Labor and Overtime Charges business and the per cent of profit.

I have seen the statement lately that From July 15 until the end of the city labor is so insistent regarding year this elevator shipped 124 cars of shorter hours of work, not because wheat which sold for \$341,000. The wheat which sold for \$341,000. The profit allowed an 8 per cent dividend to stockholders and a refund to stockholding patrons of 4 cents a bushel on the wheat they sold and a further stock dividend of 5 cents a bushel on wheat sold. This elevator has no building but could take in wheat only when cars were available and so made no profit

Marketing Eggs

We are going into the season of 1920 with 175 hens, about 75 of them farm work will be progressing down here in this part of Kansas and we still have on hand more than half the hay crop put up last summer. egg selling than in raising poultry for market. In this connection let me say that for several years I have noted a sharp increase in price of old hens directly after the holiday period and if I had old hens on hand after the heavy laying was over in the fall I would keep them until after Christmas before selling as the rise in price has for the last five years more than paid hay section. This means that we want be extremely fortunate if we get our hay moved off the farms in time for the expense of keeping them to say nothing of the eggs they often lay. Taking everything into consideration, I believe that farm poultry, well cared My brother has a farm in Lyon for, will pay a larger per cent of net bunty on which was grown a small profit than any other stock on the



Many Kansans Have Raised Kafir and Have Found It Satisfactory But Many Coffey County Farmers Do Not Like It As a Main Grain Crop.

Tom Meneal's Answers

Settlement of Estate

Settlement of Estate

Five years ago A died deaving a widow. They had no children but A had four children by a former wife who is also dead. A's only son lives at home and helps farm and improve the place and pay taxes and interest on a mortgage on the land. A has one brother interested in the land also.

Everything has been run with a mutual understanding and no attempt has been made to sell the land, but there is some desire to know how to proceed to sell the property and if an administrator is necessary in order to sell.

There is a mortgage of \$1,200 on the farm. The widow and A's son are going to pay this when due. Could A's brother and the widow have deed made to them by the mortgage holder and save expense to all, or would it be more satisfactory to have one of the family appointed administrator as the one selected would charge nothing for services rendered? What would be the probable cost?

The law requires that an administrator.

The law requires that an administrator be appointed. This might be either the widow or the son, or the brother if agreed upon. The widow however is first in line for the appointment pointment.

The holder of the mortgage cannot make a deed to the property unless there is a foreclosure and he buys the land at sheriff's sale. He does not hold any title, but only a lien. Let the widow and son pay the mortgage and get credit for the payment in the and get credit for the payment in the settlement of the estate.

I cannot tell you how much the entire expense of settling the estate will be, but if the administrator charges nothing for his or her services and you do not find it necessary to employ an attorney in settlement the expenses would be quite light.

Federal Land Bank

Please inform me about the Federal Land Bank. How can I get a loan? What security would I have to give? How much must I pay down and at what rate of interest and for how long a time may the loan be had?

It will be necessary for you to organize a local association of at least 10 land owners, unless there is already such an organization in your locality

which you can join. Your loan is secured thru this local association which sends application to the Federal Land Bank at Wichita, Kan., with the appraisement of the local appraiser. Then the Federal Land Bank sends appraisers to look at the land and pass upon it. The Federal Land Bank, if the application is approved, will lend up to 50 per cent of the appraised value of the land and to addition 20 per cent of the value of in addition 20 per cent of the value of the buildings and permanent improvements. The rate of interest will be not more than 6½ per cent. In addition you will pay an amortization fee which goes to reduce the principal. You may pay the loan at any time after five years or it may run for 35 years.

In order to get any further infor-mation desired write the Federal Land Bank at Wichita for blanks and full

Hog Fence ..

A wishes to let his hogs have the range of his farm and has all his place fenced with hog tight fence except one-half of the division fence between his land and that of B. C, who joins him on the other side fenced his half with hog tight fence without complaint but B refuses to fence his half in this way. B already has three barb wires along his half and refuses to put up hog wire. Can A compel him to do so and what could he do in order to let his hogs run out? B usos his land for pasturing cattle and horses but not hogs.

Unless the valors of your foundship.

Unless the voters of your township have voted to permit hogs to run at large B is not required to build a hog tight fence. A has the right of course to make the half of the fence belonging to B hog tight at his own expense. Of course if the township has voted to permit hogs to run at large B can in that case be compelled to make his fence hog tight.

Lien for Threshing

I threshed for a man last summer whose wheat was poor. It had been badly damaged by grasshoppers. I did not make much more than my expenses in threshing this grain. He could not sell any of his grain at that time on account of shortage of cars and so we offered to carry his account until he could sell his grain. Since then he has mortgaged his wheat. Can we collect the threshing bill ahead of the mortgage?

You can if you have taken the memory.

You can if you have taken the proper

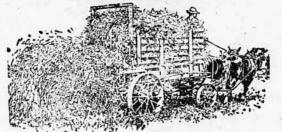
steps to protect your rights.

Chapter 231 of the session laws of 1917 provides that threshermen shall have a lien on the grain threshed for threshing bills, but in order to get the benefit of this law it is necessary that the thresherman file in the office of

(Continued on Page 35.)

A Worn-Out Spreader
If Not Replaced, Will Some Day Mean
A Worn-Out Farm





Straw Spreading Attachment

At small cost, you can get this one-man attachment for new or old machines. Handles a big load. Shreds the straw fine and spreads it wide. Gives you two machines in one. Easily set up or detached. Puts a new money value on your

No other implement ever paid you such handsome returns as that old, worn-out spreader of yours. Yet to continue its makeshift use is mighty poor economy. If it is time-worn to the point where frequent repairs are needed, scrap it--and get in its place the famous, combination manure-and-straw, wide spreading

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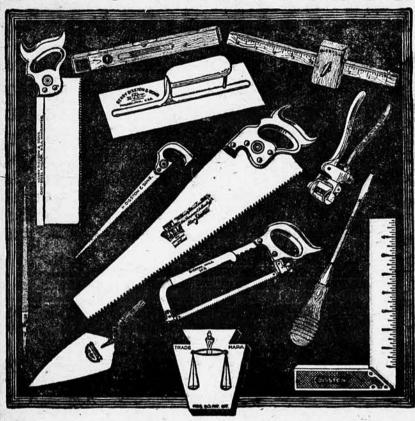
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Rural Engineering Hints

By C. E. Jablow -

for sale to farmers have been designed by men who are experienced in the operation and theory of internal combustion engines but the formula of the formula who have had no farm training whatever. This is as it should be for the best results, for it matters not whether the engine is pumping water for live-stock on the farm or supplying water from a well in the city for some industrial enterprise. The work it is called upon to do is similar in both cases.

What we wish to impress is that the so-called farm gas engine is not a product grown on the farm, but is a gas engine similar to engines found in the cities in varied classes of service. If we should attempt to make a classification of gas engines suitable for farm work, we would find included therein engines that are most dependable, engines with fewest parts, engines that are easy to start and operate by persons not skilled along technical lines.

It is becoming more and more a factor, in order to combat the almost prohibitive wage demanded by farm laborers and the general scarcity of farm workers, to do what work we can by engine power. However, should the troublesome labor conditions be re-lieved, it will still be found that manual labor cannot compete with power from a small gas engine. No account is here taken of lifting the burden of the back breaking, nerve-racking labor from a human soul, but even the financial saving will be sufficient argument for the gas engine.

Size to Purchase

The purchaser of an engine should not figure on too much allowance for reserve power and thereby adapt the engine for a wider variety of uses. If this is done you may be assured you are not getting your money's worth out of each gallon of gasoline. As much as it may seem desirable to get a somewhat larger engine with the knowledge that it will at times be called upon to work to its capacity and will always be able to pull the smaller loads, it is a mistake for several reasons:

The friction of the larger engine being larger than the small engine, the lost work at light loads becomes entirely too large a percentage of the work delivered. Again it is found from careful experiment that an engine operates most economically in the use of fuel when developing in the neighbor-hood of something like 15 per cent less than its maximum power. In other words, an engine properly rated can only be depended upon to carry an overload of about 15 per cent. It can be seen that from the above argument more than one engine should properly constitute the equipment on the modern farm. It is generally agreed that an engine of between 2 and 3 horse-power will be suitable for most of the smaller jobs, such as pumping water, running a small electric generator, sheep shearing, operating the washing machine, cream separator, churn or forage blower, spraying fruit trees, running the grindstone and numerous similar jobs.

Fuels Suitable

Of all the fuels used in gas engines, gasoline will undoubtedly prove the easiest to handle for the inexperienced person. It should be kept in mind, however, that other fuels may be more available and considerably less costly in certain localities, which is a strong argument for their use. Kerosene or heavier oils are used in some engines. In some localities natural gas will be available for use in an engine. Each of these different fuels ordinarily requires slight modifications in design and, where an engine is advertised as suitable for any and all fuels, it should not be accepted without question. For farm use the single cylinder en-

gine is the one recommended. It may be mounted upon trucks or skids, or if it is purchased for a single and definite purpose, it may be mounted upon a permanent foundation. Multiple cylinder engines, it is true will give smoother operation generally, but have the disadvantage of also multiplying the number of parts which are likely to give trouble. In the smaller sizes the engine for the farm may be of the vertical or the horizontal type. For the larger sizes the horizontal engine will usually be the one offered by the manufacturer.

Careful Attendance

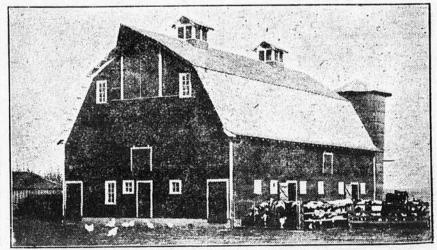
By careful attendance is not meant that one must stand over the engine and watch it during each revolution. If an engine is put into good running condition and all adjustments fixed so it cannot work loose readily; if proper quality as well as the proper quantity of oil is provided; if the cooling system is filled with sufficient soft water and excessive wear has not already taken place at certain points, it can safely be left for a considerable time.

The writer is a good friend of and a strong believer in the young men on the farms and wishes to propose that these engine duties be placed in their hands, not in addition to their regular chores, but to displace some of their other regular duties. If this is done, he believes that better results will be accomplished. This is said with all due respect to the older members of the farmstead.

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Now is the time to plan the garden.



Every Farm That is Well Equipped Should Have a Good Barn and Silo. The Gas Engine Also Should Have a Place of Honor in This Equipment.

Tom McNeal's Answers

· (Continued from Page 33%

the register of deeds of the county in the register of deeds of the county in which the threshing is done, a statement in writing duly verified setting forth the name of the owner or owners of the grain threshed, the kind of grain, the number of bushels threshed, the description of the land on which such grain was raised, the number of bushels threshed the contract price of bushels threshed, the contract price of the threshing, the amount due and the name of the claimant. This statement

name of the claimant. This statement must be filed within 15 days after the completion of the threshing.

If you have complied with this law your lien is superior to that of the chattel mortgage; otherwise it is not.

Sub Leasing Land

A leases land to B who subleases to C and D, each taking one-half of the land leased to B. C pays his half of the rent but D does not. What steps can A take to get the fease back from D? Can B hold it on the other half? Can A refuse the half of the rental paid by C? SUBSCRIBER.

B had no authority to sublease the land without A's consent, and unless A consented to substitute C and D as tenants for B he can hold B for all of the rent and let him settle with C and D. If A consented to the sub-leasing of the land and agreed to look to C and D for the rent in that event B has been released and A should give written notice to D to vacate the land on account of non-payment of rent. Ten days' notice is probably sufficient but as you do not state the length of time the lease was to run or the other conditions in it, it would be better to give 30 days' notice.

Legal Will

(1) A and B were husband and wife. A died and willed everything to B, leaving nothing to the children. Is such a will legsa?

(2) If B marries again will the second husband get half of what she owns at her death, if the second husband agrees to take a life estate before the marringe?

SUBSCRIBER

(1) The husband had a right to will all of his property to his wife. The will if properly executed and witnessed is a wild will nessed is a valid will.

(2) The second husband would be bound by any prenuptial agreement he might make. He might agree to take only a life estate or an interest in the estate, less than one-half, or he might agree to inherit nething of all. might agree to inherit nothing at all.

May Ship His Own Wheat

(1) Is there a law prohibiting a farmer from shipping his own grain, or requiring him to have a license to do so?
(2) Who is the head of the United States Grain Corporation and what is his address?

READER.

(1) There is no law prohibiting a

farmer from shipping his own grain.
He does not require a license.

(2) J. B. McClure, Hutchinson,
Kan., is president of the Kansas Grain
Dealers' association and E. J. Smiley,
Topeka, Kan., is the secretary

To Get Rid of an Agent

I placed my farm for sale in the hands
of an agent. What must I do to get it released?

L. A.

You have a right to revoke your agency contract at any time but if the land is sold thru the efforts of the agent before revocation you would be bound for the commission.

Moving Tank

I sold my farm but nothing was said or written on the contract concerning the large cast fron tank which sits on 6 or 8 large rocks not fastened to the ground in any way. Can I move the tank, or does it go with the farm?

It is a difficult question to answer

but I think you are entitled to remove

Land Agent's Commission

A owns a farm which he lists with B, a real estate agent. Their agreement was verbal. B brings C to see the farm, but tells A he cannot sell to C at the price at which he was authorized to sell it. Later A called at B's office and asked B to take it off the market, which B agreed to do. Later C came to A and bought the farm paying more than B asked. Has B a right to commission on the sale?

No.

School Attendance

We own a farm of 160 acres; one 80 in one township and district and the other 80 in the other district. Can we send our children to either school without paying tuition?

OLD SUBSCRIBER.

You can.

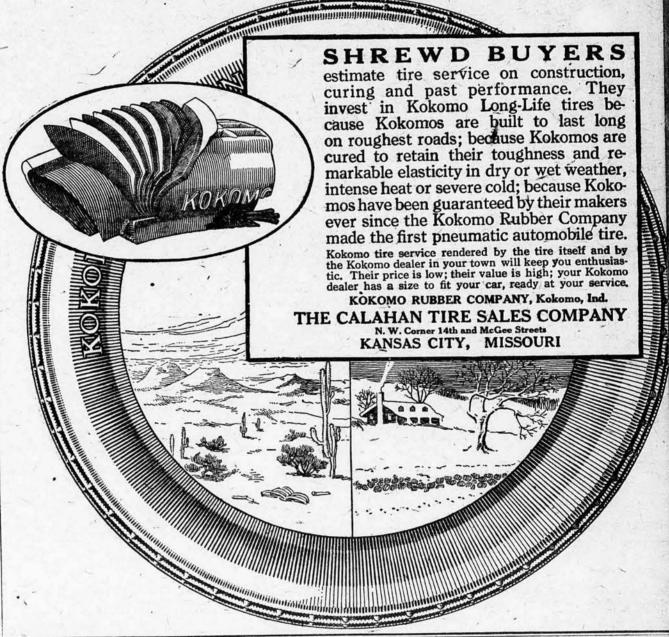
About Taxes

How much taxes will be levied on \$1,000 in the state of Kansas? D. A. D.

That depends on where the owner of the \$1,000 is located.

KANSAS FARMER AND MAIL AND BREEZE

ONG-LIFE RESANDTUB









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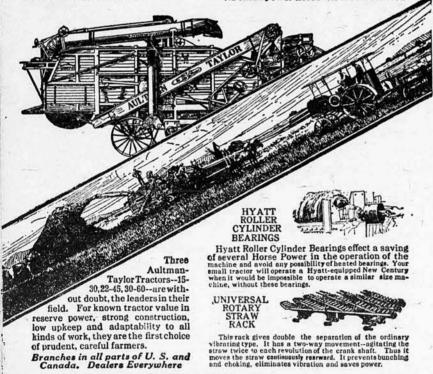
Go to your dealer and see the New Century now, in time for summer delivery. Bear in mind the fifty years' experience in building fine farm machinery that stands behind it. And question a New Century owner. Notice how remarkable is his appreciation for its work. From cylinder to stacker, this thresher is one hundred percent efficient.

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The four New Century Threshers vary only in size. There is no sacrifice in quality to make a low price. Every single detail of perfected construction is identical in each size.

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The smallest---23x36---is the ideal thresher for individual use. Every tractor owner should know its many big featuresits ability to save all your grainits small power needs--its moderate cost.





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w Ward Ha

Kansas State Agricultural College

tree in the lot? Bill's makin' a dandy and if I had a set we could talk when-ever we wanted to."

Imagine the boy of a decade or more

ago who came home Saturday evening after a brief visit with his cousin in town and made the foregoing plea to his father. What with the pigs to feed, the wood to get, the horses to bed down or turn to pasture, and a dozen her chores, his opportunities for in-structive play never bore fruit. The town cousin wound his coils and rigged up his aerials and learned the code. Time healed the disappointment and dulled the desire of the boy on the farm. For, a decade ago an amateur wireless set on the farm was regarded as a little less valuable than a prize woolly lap dog. It was a plaything for the idle rich of the city, or the children of the idle rich.

It was not so long ago that the motor car was similarly regarded on the farm, but like the motor car the wire-less "plaything" has become far more valuable to the country man than to

his city cousin.

The possible uses of a wireless station on a farm are many, and I will discuss a few of these. Before going into a detailed discussion, it might be well to add, that the ability to receive the wireless code is not an essential factor in procuring many of the results to be obtained. The ability to receive the code is necessary to secure the fullest benefit, and to obtain a license for a sending set, but anyone with a receiving set will soon learn the code, and reap many of the benefits during this learning process. I will state clearly that these benefits are not just educational, but of commercial value, as explained in the following para-

Indicates Weather Conditions The wireless receiving set may be used as a very reliable indicator of weather conditions, such as cloudy days and storms. Static electricity is charges, which produces lightning and thunder. These heavy static charges produce wireless waves, which are and the operator can hear the static discharges thru his set. As a matter of fact, this static disturbance is the one factor which hinders wireless communications more than all other fac-tors combined. The elimination of these static troubles has never been accomplished until just recently. These static discharges, however, indicate storm conditions. The static will be heard from 12 to 24 hours ahead of aclouded area. If the clouds are not large enough to produce a storm, the stati: will be weak and will be heard for only a short time preceding a storm. Within about 6 hours before a over the ears, and often the crackling and hissing can be heard without liftaerial connected to the ground.

cated a weak storm area or a very dis- radio set will go a long ways toward tant one. I was surprised to see a clear

AD, MAY I make a wireless set sky when I got up this morning, but in and string up some wires from a very short time the weather looked the barn roof to that cottonwood in the lot? Bill's makin' a daudy swiftly moving clouds overhead. I listened in on the wireless at 8 o'clock this morning, and the static was less than at 11 o'clock last evening. I made the remark, "These clouds can't mean much of anything." My prediction was borne out by a clearing up of the sky by noon, and a clear afternoon today.

The wireless as an indicator of cloudy conditions has already been used by one of the Central Electric Power stations in New York. They use these static discharges to inform them of the approach of a storm. They fire up the extra boilers when a storm is



Boys Like Electrical Machines.

approaching and have enough power to carry all the extra lights that are turned on in hundreds of offices and stores when a dark cloud covers the sun. Why shouldn't the farmer use this method to help decide when to cut his alfalfa? The saving in food value made from one crop not being eaught in a rain would pay a fine dividend on the cost of a wireless set.

May Receive Market Reports

present in the air at all times, but when clouds are present, the static charges are increased in the neighborhood of the clouds. It is the static electricity, usually referred to as static charges which produces lightning and college sent out weather reports by The receiving set has still other poscollege sent out weather reports by wireless before the war, and we shall do so again as soon as we receive a caught by the aerial and receiving set, permit to use the sending set. Other schools may perform this service. As soon as the number of farm wireless sets will warrant more service, the farmer might be able to secure market reports each day and current press news. The market reports would save the farming community thousands of dollars. There is another use to which the amateur wireless station has already been put that should be mentioned. If the operator has a sending station, it may be used in times of distress, such as snow-bound, fire or tornado troubles, to notify the outside world.

Besides these commercial values, real storm, the static is so bad that it there is a high educational value at-is very annoying to keep the receivers tached to installing and operating an tached to installing and operating an amateur station. The value of this training has shown itself in the producing the receivers from the table. For tion of men like Roy Weagent, Arman hour or two preceding a heavy strong, John Hays Hammond and Enthunderstorm, sparks may be seen to sign Rood. Weagent and Armstrong pass between the aerial and the ground, have improved wireless transmission in if the so-called ground switch is opened many ways, and are radio engineers of a small distance. The operator may first magnitude; Hammond has deget quite a spark from the aerial at these times if he does not keep the the small responsible for keeping NC-4 in her path across the Atlan-The last twenty-four hours of the tic. The type of training that a boy or time at which I am writing have shown a girl gets when learning to use a radio the reliability of the wireless as a set, is the type that makes self-made weather indicator. At 3 o'clock yes-men. Any education gotten in this manterday afternoon there was no static to ner is worth four times as much as the terday afternoon there was no static to her is worth four times as much as the be heard by use of the wireless set. I same things learned in school, under told someone that we could plan on a the push of a teacher. Nearly every good day for today. At 9 in the eveboy has a natural liking for electricity ning, there was a slight amount of and electrical machines, and this gives static noticeable, while by 11 it was present in such quantities as to prevent way of education that he desires to do, receiving a wireless message. The static role and the "desire to do" is the forerunstatic role and loyd consider and india new of any work that is done well. A static was not loud crashes, and indiner of any work that is done well. A

(Continued on Page 47.)

Farm Questions

All inquiries about farm matters will be answered free of charge thru the columns of this department. Those involving technical points will be referred to specialists for expert advice. Address all letters to John W. Wilkinson, Farm Question Department, Kansas Farmer and Mail and Breeze, To-

Ventilating Bins

What is the best way to ventilate grain in the bin to keep it from heating? Will grain heat as badly in Colorado as in Kansas? What is the cause of heating?

Springfield, Colo.

Springfield, Colo.

Some persons have recommended placing pieces of 2 by 4 timbers upright in the bin. However, I believe that the best precaution to observe is to avoid storing grain in a tight bin when it is not in proper condition to store, that is, when it contains excessive moisture.

If you should have grain that is damp when threshed and not in condition to store in tight bins, it should be placed in an elevator where it can be passed over cleaning machinery and also changed from bin to bin in order to air it, or what the elevator operator calls "running" it, so that it may be dried out and put in condition to keep in tight bins without heating.

There is no doubt but what grain will heat in Colorado but much of the grain will be dry enough when threshed so that there will be little or no danger of it heating, and in a good deal of the state the temperatures will not run so high and consequently grain will not heat so readily. The principal cause of grain heating is excess—moisture. of grain heating is excess—moisture. Contributory factors are high temperatures and immaturity, also fine dirt, broken grain and the action of weevil. If you have a bin which you wish to ventilate, will you send us a sketch of it? We will be glad to make suggestions to you in regard to its ventilation. L. A. Fitz.

Possibly Bad Teeth

Our heifer calf eats heartily but when she chews her cud the saliva runs out of hermouth. She is rather thin.

MRS. JENNIE HERWICK. Aspen, Colo.

Aspen, Colo.

There is a probability that the calf has some disease of the mouth or teeth. I would advise that you open the calf's mouth and examine the interior very carefully for sores, blisters, and yellow spots. If any blisters are found, they should be opened and then painted with today. should be opened and the particle indine. If raw sores are found, tincture of iodine should be applied to them, and if yellow spots are located, the yellow material should be removed by scraping and then the sore spots should be painted with iodine. If you cannot find anything on such an examination, then it probably will be best for you to consult a graduate veterinarian and I am satisfied that he will be able to handle the condition satisfactorily for you.

R. R. Dykstra.

Barren Cows

I would like to have information about how to treat cows that don't breed well. Will be thankful for any information you can give me. GEORGE A. WILSON. Salina, Kan.

Barrenness in cattle is usually due to some disease of the genital organs which may be located either in the vagina, neck of the uterus, the uterus, or the ovaries. A careful examination must be made of these different organs to determine the nature of the disease affecting them. Possibly the veterinarian examining your animals can prescribe treatment. This method of treatment is the only logical one and the only one that offers chances of again making your cattle breeders.

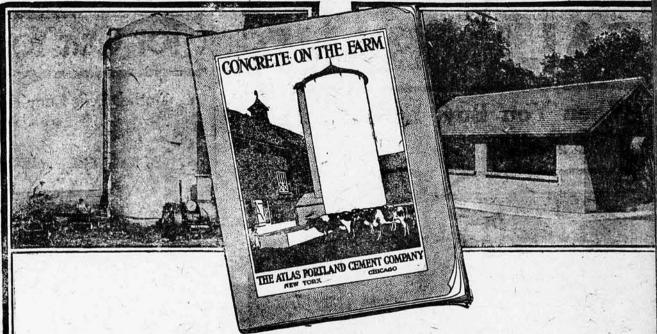
R. R. Dykstra.

Estimating Kafir

How do you estimate kafir weight in the head, that would be both fair to buyer and seller? My kafir was cut close to the head with very little stem.

LaCygne, Kan. ERNEST F. McNUTT.

On an average, about three-fourths of the total weight is grain and about one-fourth stem. In well filled heads the proportion of grain often reaches 80 per cent while in poor heads it may run below 70 per cent. I would consider 75 per cent would be a satisfactory figure to use in estimating the weight of grain where kafir is sold in L. E. Call. the head.



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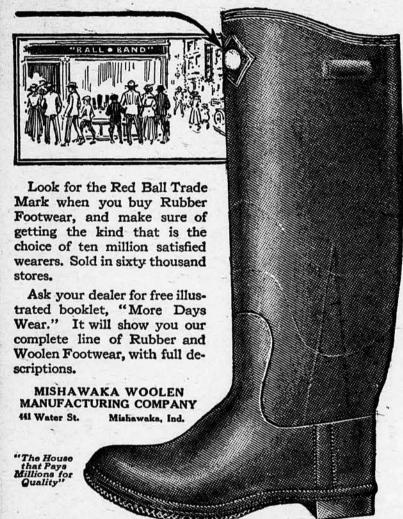
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For Our Young Readers

Mother Tells Lucy How to Go "A-valentining" BY KATHLEEN ROGAN



UCY was sitting at the window the two little children across the street, but really her mind was on something

"Mother," she asked irrelevantly, "what is a 'volentine'?"

Her mother explained that the word was valentine instead of "volentine," and then her little daughter went on to tell her that the girls at school had been talking about valentines. Lucy's mother narrated the story of Saint Valentine's Day. "In the old Roman days," she said,

"it was the custom at a certain feast for the boys and girls to draw one another's names from a box for partners for their games. But the good bishops did not like this way of honoring the gods, so they put the names of saints in the box. If one drew the name of Saint-Valentine, for example, he was supposed to try to be like that saint. This beginning of the day had no more connection with Saint Valentine than with any other saint, except that the celebration was made on February 14, which happened to be the day of the martyr's death.

As the centuries passed the young folks of England began to revive the old customs of the Roman boys and girls. At parties they drew names. When a boy drew a girl's name, that girl was thereafter his "Valentine." There were many superstitions about the day. The first boy a girl met on the street on Valentine's morn would be her valentine. When she put the four-leafed clover under her pillow at night and dreamed of someone, that person, so the superstition ran, would be her best beloved. She even ate hard-boiled eggs, the yolks of which were filled with salt, so that she might more surely dream. The day was given over to young folks for merrymaking.

"I can remember some old valentines of my grandmother's," said Lucy's mother, and then she told the little girl about them. They were just plain paper with a lace border and verses written on them. Grandmother used to go "valentining" when she was a little girl in England. A group of children would serenade their friends early on Valenting's morning singing songs on Valentine's morning, singing songs about the day. Sometimes they were given candy and sweet-meats for their songs. They used to say "Good morning, Valentine" when they met their friends on the street, and the one who said it first made the other her valen-

Loving One's Friends

Then Lucy's mother told how she celebrated the day when she was a little girl. At that time it was a day of remembrance of one's friends. Sometimes small gifts were presented, such as flowers or books or candy. "It was a day for just loving one's friends," the mother said.

"What fun we used to have making our valentines! What quantities of described her older sister's party where the place cards were imitations of was work he so little men. Aunt Edith had bought bully good time. candy and made tiny hats for these of success is industry. I know of no make-believe men. She had tied tiny man who has won success without it. ribbons around the "neck" for neck- Turn the pages of history and no mill ties and used toothnicks for arms.

"Oh, Mother," interrupted Lucy, "couldn't I make something-like that studying her lessons for the next "couldn't I make something-like that day. Suddenly she looked up from for a vol—valentine for poor little Joe her book. She seemed to be watching and Mary? They never have any fun and they're always looking out the window as if they would like to come out and play with mc."

February 14, 1920.

"Yes, dear, that is a lovely idea," her mother answered. "In the writing desk you'll find a box of pretty colored paper and some bright paints."

Never did Lucy enjoy an afternoon

more. Before evening she had several dainty valentines ready and could scarcely wait to take them to the children the next day. For little Joe she had cut an oblong piece of stiff white paper about 3 by 5 inches and pasted a scarlet heart in one corner. Thru this she painted a golden arrow and by the side of the heart wrote in gold paint "To My Valentine." Little Mary's valentine was a four-leafed clover which she made by pasting four red hearts together to make the clover shape and pierced them with a golden arrow. Across the clover she had painted in gold paint "Good Luck to My Valentine."

Surprise Baskets

For both of the little neighbors Lucy made a small basket by covering stiff cardboard with red paper and pasting gold hearts on the sides. This she filled with peppermint candy and a

few flowers from her mother's window.
"You see, I want to give them something like the gifts you gave when you were a little girl," she told her mother.

When her mother went to prepare supper, Lucy sat thinking about what fun her mother had given her that afternoon. "I wish I could make her a valentine," she thought.

Presently she gave a little cry of joy and began to gather together her bright paper. She cut a large heart from the white cardboard and covered it with red paper, leaving a small white heart-shaped space in the center. In this she painted "For My Lovely Mother's Picture." Then she pasted a holder on it and hid it until the next day.

On Saint Valentine's Day Lucy was very happy. Her mother was so pleased with the picture frame and the little poor children were happier than

they had been for a long time.
"Having a day to love people in,"
Lucy told her mother, "is almost as nice as Christmas."

Letters to a Farm Boy

(In this, the third of the series of letters of Mr. Case, it is shown that those who we worked hard either with hand or brain are the ones who have won success. However, Mr. Case points out that while to labor is a great virtue the boy who would win in the game of life must couple work with intelligence.)

Dear Robert :- Do you remember the day we were hunting and found the big oak down? Sam Brown had felled it to catch a 'coon but it had housed another family. Reddy Squirrel was busily at work carrying his stored nuts our valentines! What quantities of to another tree. He wasn't loafing on red paper and gold paint we used!" the job and scolding about the disaster exclaimed Lucy's mother. Then she but was up on his toes again getting ready for winter time. And altho it was work he seemed to be having a

find the names of great men who were

tireless work over the men and you will are most dese and respect a with hand or cannot bring plied intellige Reddy Squir just as hard a wheel as h his new hon anywhere. T make a tread labor life's g that mistake. Work is on

And what w day nature mystery befo farmer boy? what pride y porkers in y bred pigs? night that y in the farrov rooters migh contest game with stories rying slop an ing. Instead ownership, y were those p well they he care. There ert, in work thought you Industry s

One never s he forgets to "glad new d farm boy n time and tha fixed that i work better : and one-half in playing honesty and izes his dai over the yea was a boy a have becom "game," but But there

your father, to "fudge" he'd "cut se looking. In utation of be tion for sl within the friendship of With all

This does puzzle, does can solve it Puzzle Edi Mail and B will be pac first six bo rect solutio



Solution ners: Eli I Russell, Vo Edward St

One tim little broth met seve town. My about 3 y are you go out." Of Of. tried to town did

church do Miltonya tireless workers. This is equally true of the world's leaders of today. Look over the men in your own community and you will find that the ones who are most deserving of your admiration and respect are those who work hard with hand or brain. But industry alone cannot bring success; it must be applied intelligently. Penned in a cage, Reddy Squirrel would have worked just as hard running round and round a wheel as he did in carrying nuts to his new home. But he wouldn't get anywhere. Too many farmers, Robert, make a treadmill of life and consider labor life's greatest virtue. Don't make that mistake.

Work is only play if we love the task. And what work is so worth while as that of the open country where day by day nature unlocks the storehouse of mystery before the inquiring eye of the farmer boy? Do you remember with what pride you showed me the thrifty porkers in your contest litter of pure-bred pigs? You did not talk about the night that you and your father spent in the farrowing shed that those lusty rooters might have a fair start in the contest game. Nor did you weary me with stories of the hours spent in carrying slop and feed and in record keeping. Instead, with all the pride of ownership, you talked about how fine were those porcine aristocrats and how well they had responded to feed and care. There's a vast difference, Robert, in work and labor. Get that? thought you would.

Industry sometimes has its penalties.

One never should work so hard that he forgets to play. I hope that in the "glad new day" that is coming, every farm boy may have every Saturday afternoon off for some wholesome pastime and that the habit may become so fixed that it will last thru life. He'd work better for it during the other five and one-half days of the week. And in playing he should show the same honesty and integrity that characterizes his daily work. As I look back over the years that have passed since I was a how and picture the hove who was a boy and picture the boys who have become successful men, I recall that every man was a boy who was "game," but fair in play.

But there was Tom Tennant whom your father, too, knew well. Tom used to "fudge" in playing marbles. Later he'd "cut second" if the umpire wasn't looking. In football he gained the rep-utation of being "dirty." Farming was too slow for him. Now he's a shyster lawyer with some cash but a reputation for sharp practice that, while within the law, bars him from the

friendship of folks worth while.

With all good wishes, your friend,
John Francis Case.

Is This a Flower?

This doesn't look much like a flower puzzle, does it? But it is. See if you can solve it. Send your answer to the Puzzle Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan. There will be packages of postcards for the first six boys and girls who send correct solutions.

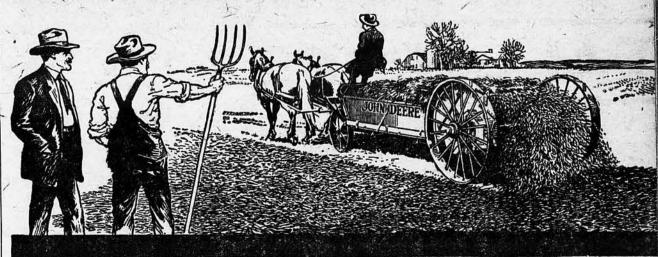


Solution January 31 puzzle-A poisonous key; whiskey. The prize winners: Eli Helmuth, Opal Williams, Ida Russell, Velma Mottes, John Krinhop, Edward Stoppel.

Too Late

One time as papa, mamma and my little brother were going to town, they met several teams coming from met several town. My little brother who was then about 3 years old, said, "Papa what are you going to town for now? Town's out." Of course papa and mamma tried to make him understand that town did not "let out," as school and Edith Horn. church do.

Miltonvale, Kan.



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Automobile or Work Gloves

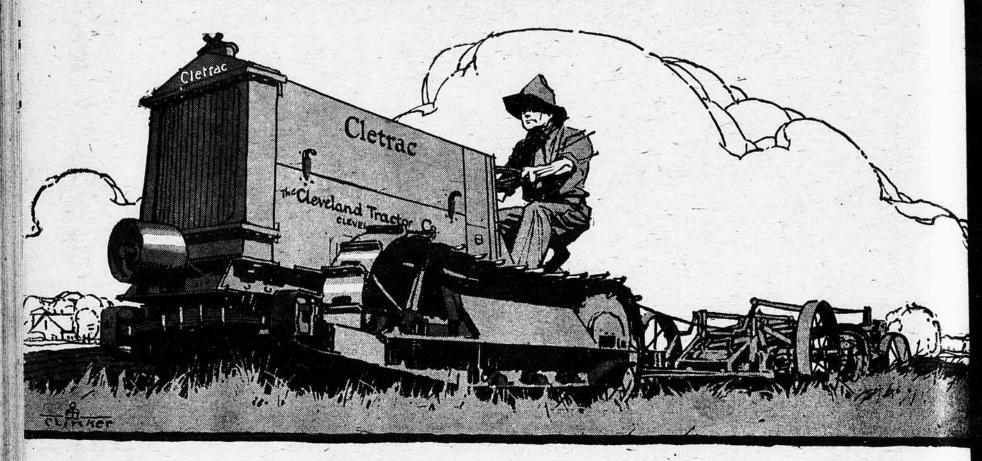
These Gloves are made Gauntlet style from Automobile top material and trimmings. They will outwear several pairs of ordinary cotton gloves. They will protect your hands and are exceedingly comfortable as they give plenty of finger freedom and they are waterproof.

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Here is a tractor, always a vote-getter, now more powerful, now better built, and costing you less. No wonder the best tractor dealer in your community wants to handle it. A tractor that makes friends for itself makes satisfied customers for him.

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With the Homemakers

Stella Gertrude Nash

Carefully Selected Curtains and Draperies Transform a House into a Home

HERE is no method so effective for dressing up a room as artistic window draperies. Beauty, moreover, may be achieved by good taste and careful buying, rather than by spending large sums of money. Brides and even old housekeepers whom experience should have taught better, often put a goodly amount of money into lace curtains without getting any adequate return in the beauty of the room where they

First of all. I would advise that window draperies be one of the last selections made in choosing a room's furnishings. You will be much more likely to make a desirable selection after you have had a little time at least to study your furniture, rug and wallpaper.

Consider Outside of House

The house should be considered from outside, for the window draperies make considerable difference in its attractiveness to passersby. For instance, an old-fashioned mansion, with a fine front calls for curtains of some pretension to richness. To hang plain curtains of scrim or worse yet, dotted mus-lin, all across such a front is to give the house an appearance of being draped in sheets. But it is in equally bad taste to put costly lace draperies in the parlor of a simple little bungalow, or at pantry and kitchen windows where I have known women to use the good parts left from expensive lace

Window shades should be alike all over the house and either match it or harmonize in color. Red brick houses look best fitted with shades of tan or white. Houses are of so many materials and colors that it would repay young people about to furnish a house to notice the window shades used in houses similar in color to their own and then choose the ones they like best.

Many times the material in the glass curtains is the same all over the house. There is a decided economy in this method for the material may usually be bought at a reduction in large quantities. Marquisette or scrim are excellent materials for these curtains. They are easily hemstitched and require no starch, which greatly sim-plifies doing them up. Curtains of plifies doing them up. Curtains of muslin, either plain or dotted, also are pretty and half their charm consists of starched freshness. Net. Russian crash, voile, tarletan and madras are other materials much in favor for glass curtains.

Avoid too many or too heavy curtains in bedrooms even in winter. There is need in these rooms especially for an abundance of fresh air. Let those you do have be of easily washed materials, such as linen or cotton. Chintzes and imported cretonnes are expensive, sometimes costing \$5 a yard or even more. But the same patterns frequently are copied in the cheaper materials. A half width is usually sufficient for each side of a window. The beauty of most high windows is nem. third of the width of the window extra for fulness.

The Hall Curtains Next

Hall curtains often present quite a problem to the inexperienced housekeeper. The hall is not a good place for economy as almost every one who en-ters your home stands in front of the door curtain with several moments leisure to inspect its quality and condition. If the panels are of irregular shape and size, it will be necessary to curtains match. Figured marquisette, net, sunfast material or figured madras are all pretty and appropriate and may be selected in accordance with the interior furnishings of the hall.

In making curtains of wash material be sure to allow 2 inches at least for shrinkage. The glass curtain should come to the bottom of the window casing and the side draperies be 4 or 5 ing and the side draperies be 4 or 5 in this verdict and some prefer having both end wiff the window casing.

In making curtains of wash material foot wide at 75 cents a strip up. These drawn themselves from the society of the register of the result of the clerk will cut off the number of charitable remarks passed heedlessly in this verdict and some prefer having the costs about 65 cents a yard.

Lace curtains of fair quality cost about the plain from one to another. Let us be kind the window casing the cut of the number of the plain from one to another. Let us be kind the window casing the cut of the number of the plain from one to another. Let us be kind the cut of the number of the plain from one to another. Let us be kind the cut of the number of the plain from one to another. Let us be kind the cut of the number of the number of the number of the plain from one to another. Let us be kind the cut of the number of the num both end with the window casing.

Get Guaranteed Colors

Few houses are pretentious enough for velvet draperies. For the ordinary living room, rep, chintz, terrycloth, cretonne or sunfast materials make better side curtains. As such draperies are in the class of permanent furnishings, I would advise the bride to wait until she can get those which are really good, of artistic design, and guaranteed fast colors.

Most of the large city stores will vice, study the matter of harmony and as costly as they are beautiful. color for yourself. If the wallpaper of your room is figured, select plain Turkish towelling. Being double faced, window draperies. If the paper is it is particularly good for front win-

\$10 a pair and from that up to prices far beyond the reach of an average purse. Zira cloth is really marquisette printed in colors. It costs 45 cents a yard and may be used against the glass or as light over-drapery in bedrooms. Silkoline costs from 14 to 25 cents a yard and is sometimes used in the same way. Curtain Swiss comes at from 19 to 30 cents a yard,

Over-draperies are more expensive and are luxuries, not necessities. Sunfast materials cost from 90 cents to \$1.50 a yard. They may be used in send a decorator to your home without some rooms without separate glass curextra charge to advise you in your tains. Cretonnes are priced commonly selection of draperies and curtains. If from 39 cents to \$1.50. Other creyou are not within reach of such ser-tonnes, chintzes and printed linens are

It is very appetizing and easily prepared. Wash and drain the lettuce put it into a mixing bowl, add salt pepper, a tablespoon of sugar and tablespoons of vinegar to a pint of let tuce leaves. Mix by tossing with a fork. Add ½ cup of rich sour cream and set in the ice box or a very cool place until ready to serve.

Squares of plain white terry with narrow edge crocheted in pink or blue fast color mercerized cotton make wash clothes for the bath room that have a dainty handmade appearance and require but little time to make.

Save cheese rinds for grating over macaroni or other scalloped dishes.

Good inside mittens may be made from the bottom cuffs of old union suits. Lay the pattern on the material upside down, so that the cuff of the underwear will be the cuff of the mit-ten. Cut around it, allowing for a seam. Then sew it up on the machine.

There is no better way to harden box-raised garden plants, previous to setting them out in the open ground, than to dig a pit deep enough to set the boxes in, so that the surface of the ground will be a little above the top of the plants. This protects the tender plants from the wind, at the same time allowing the sun and fresh air to com-plete the hardening process. When cold nights are expected, a covering of boards or straw and boards will serve as an additional protection.

For several years I have made a specialty of cabbage in my garden.
For early cabbage I prefer the Charleston Wakefield, because it is not much later than the Jersey variety and it makes larger and more solid heads One can raise quite a patch of cabbage with a small amount of hand labor having the ground well prepared, ther setting the plants corn-row width and using the cultivator to keep the middles clean.

Commercial chick feed is a boon to the busy housewife who has not the time or materials to give a balanced ration to her incubator chicks. It costs more than the feeds at hand, but since it need be given only a few weeks, th extra cost does not compare with the saving in time and increased growth of the chicks. Very often a scratch feed of just the right size is difficult to find on the ordinary farm.

Mrs. Clara Smith.

Chase Co., Kansas.



plain, the draperies should be of figured materials. Also remember the rule that plain side curtains should be used with plain glass drapery and that if the glass curtains are figured, the side draperies should be figured also.

As to colors: If your wallpaper is golden you may use for draperies, plain sage green of figured material in dull brown, green and rose color. If it is light tan, select curtains of plain golden yellow, sage green, or figured material in dull brown, rose and green. Gray walls will harmonize with plain increased by a valance. Make this of lum color, gray-green, fawn color, lengthwise strips of the material sewed together as for a dress ruffle, allowing in length for a heading and in wallpaper for a warm bright room, or curtains of plain-rose color, or plain or striped old blue or plain plum color, golden yellow or sage green. putty colored paper choose draperies in golden yellow, rose color, old blue or sage green.

Prices of Materials

Materials for glass curtains are priced about as follows: Curfain voile costs 25 cents and scrim from 11 to 65 cents. Madras sells for from \$1 to use material that may be gathered at a \$1.25 a yard. This is a very beautithe top and bottom in order to have the ful material and comes in both colors and white. It is effective in many rooms without over-draperies. Filet net curtains, at present very fashionable, cost from \$6 to \$8 a pair. This material also comes joined in strips a

tonne may look ugly if it shows, from the outside. This beautiful figured material comes in rich dark colors and costs \$1.50 a yard. It is said to wash without shrinkage or fading if carefully done. Georgene H. Wilder.

Girls Urged to Make Dresses

In a letter to Lorraine Wooster, State Superintendent of Public Instruction, Ed T. Hackney, Fair Price Commissioner, urges the starting of a campaign that will lead the girls of every high school class in the state to make their own graduation dresses, and to gray, which is always a good selection in wallpaper for a warm bright room, may have draperies in cretonne with tints of old blue, dull rose and black, respectively. The same them simple. Thousands of yolks to the first mixture. Chop I pound of dates and figs, and mixtures of pound of dates and figs, and mixtures of the cost of the commencement outfit is blanch and shred 1-6 pound of almonds. greater than ever this year. To some parents it will mean little, but to many it will mean denial of many things necessary for the comfort of the family. If the girls would make their own dresses, it would not only save many deserving parents the money they can so ill afford to spare, but would cause some girls to graduate hereafter who have been compelled to drop out because of this expense. The democracy of the school, too would be improved by such 'a practice.

From An Old Farm in the Hills

How many time we utter an unkind word, not realizing how far it may reach. There are those who have with-

An Inexpensive Fruit Cake

Cream % pound of butter with pound of sugar, and add 1/3 pound of sugar, and add separate of milk or fruit juice. Separate the yolks and whites of 3 eggs and beat the yolks until lemon colored and the whites until stiff and dry. Add the yolks to the first mixture. Chop 1 pound of dates and figs, and 2 pound of raising. Cut 1/2 pound and Sift together 1/3 pound of flour. spoon of mace, 3/3 teaspoon of mon and 1/3 teaspoon of soda, and thoroly mix with the fruit and nuts. Stir this mixture into the batter and fold in the batter. fold in the beaten whites of the Put into a deep, buttered pan-with oiled paper or a lid and slowly 3 or 4 hours, or bake slowly 2 hours. This makes a 3-pound cake Mrs. Ford Robinette.

Shawnee Co., Kansas. Renewing Clothes With Dyes

With clothing prices so high many persons are getting out their old clothes, dyeing or cleaning them and them making them into the guernents. then making them into new garments thus the art of dyeing is being revived

There was a time when slik required the kind or package of dye, cotton another and woolen, another. Now dyes are prepared so that the same package will dye any kind of material. All modes to be dyed must be thoroly clean sufferm shade is desired. Steins a uniform shade is desired. Stains any kind should be remeved. For his there is a government bulletin giv-ng definite directions. Many woolen arments may be dry cleaned. For this he best results are attained by mixing iry cleaning material with warm gasoine. Rubbing briskly with a cloth ipped in the mixture is usually sufand rinsing with clear gasoline removes t. Great care is needed in using this mixture to keep away from fires. The very little hot water. The warm gaso-ine is much more effective than cold

ary to strip or bleach it. Stripping materials preparatory to lycing them consists in boiling them in

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They're as Good as New Now.

strong soap suds or some washing compoind such as sal soda and rinsing until all the color is removed. This may require several boilings and rinsing and in the case of woolen fabrics is not often advisable as it makes the goods very tender. For most colors, ome attains the best results by using a dye of the same color as that of the material only a different shade. Printed cottons, however, might be very undesirable color combinations if the colored print were not removed.

Should mere boiling and rinsing fail

to remove color one may resort to bleaching. This is rather difficult to manage in the home but may be done by using plenty of water. To bleach cotton, linen and all vegetable fibers, first bail the goods to be bleached 1 hour in any good washing powder. This holl should be made slightly stronger than for ordinary washing purposes. After boiling rinse out thoroly and soak the goods from 1 to 2 hours in water to which has been added Warm to 1 ounce of chloride of lime for each gallon of water used. Remove the material and spread it on the grass 4 to 24 hours. Wash thoroly to re-4 to 24 hours. Move the lime after taking from the grass. For wool and silk, wash thoroly, thise well and hang on wooden pegs in a tight box or closet while damp; exthe fumes of burning sulfur andles from 4 to 6 hours.

All goods to be dyed should be clean thoroly dissolved before any entered as any undissolved will cause spots. It is well to that all colors look much while damp. The cooler the hen the goods are placed in the letter the coloring matter will up by the fibers of the cloth. If the success in dyeing a gardown in the bath, some parts from top to bottom and vice The appearance of the dyed will depend much upon a ressing while still damp from A cloth laid over the material space of the if needed, is a good way to bess heavy garments.

the art of dyeing is being revived the home and good results are obtained where directions are followed ically different shade. Blue over yellow, for example, would produce green. There was a time when silk required Red over yellow would produce scarlet,

Farm Home News

"When the hens begin to lay" is the refrain one neighbor says she sings when the young people name the many things they'd like to have this spring. She has 100 very nice looking Plymouth lipped in the mixture is usually suf-Rock hens but they have shirked the ficient to dislodge the dirt or mark laying business all thru January. The owner has not urged them very much as she prefers healthy chicks rather than many eggs. We think the reason pasoline may be made warm by setting our limited number of Reds have done the container in a basin containing a so well is that they have had only milk to drink. If we were planning a regular poultry farm, we'd plan that half

and the dry cleaning mixture added to the gasoline is like soap added to water. Most cottons may be washed in the dyeing bath. If one wishes to color a fabric a very different color from its present shade it may be necessary to strip or bleach it. shows the hens' returns in a few startling comparisons. It might be well for the average farmer who doubts his wife's need for more chicken equipment to think about such comparisons. Mr. Johnson says: "I find that nine hens, at present prices of eggs, laying 120 eggs a year will bring in as much money as a 40-bushel load of corn. It takes fairly good corn in Kansas and Nebraska to average 40 bushels an acre. The price of land ranges from \$125 to \$200. If nine hens valued at possibly \$18 can bring in as much money as \$125 worth of land, are not the hens the best investment?

"Another way of figuring-alfalfa is a good crop in these Western states. We find that 4½ hens will produce as much money as a ton of clover or alfalfa hay will bring. Figuring on the basis of present prices it is surprising

what profits poultry will show."

If we were to find any fault with
Mr. Johnson's figures—from the farm woman's standpoint-it would be that the average farm hen does not produce more than 60 eggs a year, we are told. For this poor record, we owners of chickens are to blame. There has been much written and said against the keeping of "boarder" cows. There should be more argument used to make us all see the folly of keeping an un-culled flock of chickens or one culled in a haphazard fashion.

We do not always make the best of what we have in many ways. We read the other day of the sale of 50 white roosters that averaged 6 pounds each and brought 2 cents a pound more than darker breeds would have brought. If the 50 cockerels had been caponized when 6 weeks old, they would have weighed at least 3 pounds more on the average and each pound would have brought 35 cents instead of the 21 cents received. May we not correctly say that as capons then they would have brought \$157.50 instead of \$63 or if sold at the same weight—an unusually light one—\$105 instead of \$63? Payment for the expense of caponizing would not have been more than \$5 or \$6.

I read recently that the United States is 100 million hens short of the usual number. This fact would inand damp when placed in the dye bath. It should be carefully weighted while dry and the proportions given in the dry and t dicate that many may be raised this by and the proportions given in rections on the dye package care-followed. The dye material the thoroly dissolved before The early hatched chicks, in these states where June heat is intensive, do much the best. The incubator solves the problem of getting the chicks early and of uniform size.

We have had many inquiries from prospective buyers of incubators as to the best kind to get or as to the wisdom of buying a certain kind. Our experience has all been with one large incubator of expensive make-so costly that we cannot well recommend it for general use. In order to make a com-parison that will enable us to answer inquiries more definitely, we are planning to use different machines.

Mrs. Dora L. Thompson.

Jefferson Co., Kansas.

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Cabinets Save Many Steps

A Handy Work Bench Makes Kitchen Duties Easier BY MRS. IDA MIGLIARIO

workman needs his The pastry compartment work bench," certainly is a much appreciated part of the case of the homemaker. If she has a work bench well arranged and to do with cakes and pas-equipped-with all the uten-tries to keep them fresh for equipped-with all the uten-sils and supplies needed for preparing meals, the work left of the pastry compart-is done much easier and with a big saving of time. with a big saving of time. sized shelves on which may The modern kitchen cabinet be kept large utensils, and with a big saving of time. fulfils these qualifications in every detail and those who use it think of it as a labor saver.

When trying to decide whether or not to invest in a kitchen cabinet the first thing the average housewife thinks of is durability and whether or not the cabinet can be easily and thoroly cleaned. There are types of cabinets made of electrically welded steel which are most certainly very durable and with them there is no trouble with glue drying, or screws loosening. There is also no chance for moisture to be absorbed and consequently no danger of the absorption of

There is naturally some difference in the price of these steel cabinets and those of wood and many times in these days of high cost of living housewives must buy the labor saver that will not put too much of a burden on their pocketbooks. The cabinet work in the average kitchen cabinet is most sub-stantial; it is very strong and made with well reinforced and mortised corners. And so it is not difficult for one to find a well-made cabinet that will be suitable in price.

Some cabinets are easier to clean than others. Every homemaker who has had the responsibility of cleaning the house, the pantry, and so on, knows how difficult it is to clean square corners. Square corners in kitchen cabinets are exceptionally difficult to clean and so the cabinets which have inside rounded corners assure cleanliness with a minimum amount of work.

Another point that often causes the homemaker to hesitate in deciding to invest in a kitchen cabinet is whether or not it is possible to remove the drawers and bins so they may be frequently scalded and placed out in the sunshine and air. Most cabinets on the market of today are so made and, with the general smooth finish both inside and out, they are not in the least diffi-cult to keep sanitary.

Every inch of space in these modern kitchen work benches is utilized. Racks on the inside of the doors provide a place to keep any and all sizes of utensil lids, as well as pastry and cake tins. The ever needed order blanks and pencil, the always useful time table, and the cloth holder for use in handling hot utensils have their place on the inside of the doors. There are shelves in the upper part of the cup-board where such china as is most needed in the kitchen may be kept. Homemakers so many times find it necessary to keep vegetable dishes, platters and so on in the dining room and when it comes time to serve it means a trip to the china cupboard or buffet. There are types of cabinets which save these steps by having a

shelf on which these things may be kept. Then the neat array of spice jars held out of the way of the worker by a small shelf or a rack placed just a few inches above the ledge gives ample space for taller jars of ingredients to stand underneath them.

The automatic sugar bin which is moist-proof and easily operated is an
Why Rice is a Cl

other advantage, as well as the flour bin which is usually fitted with a The fact that the ledge on which one works can be pushed back when not

in use conserves space in the small kitchens and at the same time when it is pulled out it gives a table of convenient width for work. ledges are so made that a food grinder can be securely fastened on them. Be-low the working ledge one finds drawers for the accommodation of knives, forks, spoons, egg beaters and in fact any of the cutlery needed in kitchen work. There is also a drawer in

HE old saying, "Every cloths and hand towels. workman needs his The pastry compartment

times a puzzle to know what just above these and under the cutlery drawer a bread

board is neatly tucked away. Certainly these cabinets save many miles of steps for the homemakers who are fortunate enough to own one, for with everything needed right at hand and a kitchen stool of suitable height for the worker, the housewife need take only the minimum number of steps when preparing her meals.

For the Home Dressmaker

9551-Ladies' and Misses' Corset Cover-This practical well-fitting corset cover can easily be made at home, The neckline is perforated for several outlines and the length may be to the

waist or hip. Sizes 34, 36, 38, 40, 42 and 44 inches bust measure.

9568—Ladies' Two-Piece Skirt. The lower edges of the narrow panels are turned up to form pockets. The skirt. fits smoothly across the front but is gathered at the back. Sizes 26, 28, 30 and 32 inches waist measure.

9558-Ladies' and Misses' dress. A blouse of georgette tops the draped



skirt of heavier material, emphasizing the fashionable long waistline as short sleeves. Sizes 16, 18 years a 36, 38, 40 and 42 inches bust met

These patterns may be ordered from the Pattern Department of the Kal Farmer and Mail and Breeze, Top Kan. Price 12 cents each. Give

Why Rice is a Cheap Food

One ounce of uncooked rice gives the same nourishment as 4 ounces of mile cooked potatoes, altho both have the same bulk when cooked. So if potatoes and rice were the same price a pound, potatoes would be four times more expensive than rice.

Mrs. Ford Robinette. Shawnee Co., Kansas.

Doctor-Did you open both windows in your sleeping room last night as I ordered?

Patient-No, doctor, not exactly work. There is also a drawer in There's only one window in my room, which may be kept dishtowels, dish- but I opened it twice,—Boys' Life.

Women's Service Corner

When you have a perplexing problem on cannot solve, send it to the fomen's Service Editor, Kansas Farmer and Mail and Breeze, Topeka, Kan.

Recipe for Apple Mince Meat

ager to get a recipe for mincemeat meat, but with apples, raisins and Mrs. A. T. N., Kansas.

very fine 34 pound of beef suet he kidney, and sprinkle with 2 of sour apples, and mix with each of chopped raisins and currants. Mix these with the sift together 2 pounds of sugar, natineg, and 1 tablespoon each dered cinnamon and allspice, see with the suet and fruit; add e and grated rind of 1 lemon, up of sweet cider. Candied peel or chopped citron may be about 4 ounces of either, or of the two mixed.

A Book on Toasts

you suggest some toasts for dinner one 7-Mrs. J. S. S., Kansas.

It would be difficult to suggest suitable toasts for dinners in general since much of the enjoyment of good toasts comes from clever local allusions. Lecal practices and happenings, covert Local practices and happenings, covered and complimentary allusions to the guest of honor, or to the business or profession of other prominent guests, will be in order. I suggest that you send to the H. W. Wilson Co., West Plains, N. Y., for a book published by them called "The Toaster's Handbook," by Peggy Edmond and Harold Workman Williams. This book deals with the subject very effectively.

Pineapple Filling for Cake

ou give me a recipe for pineapple for a layer cake?—Homemaker. Kan.

shredded pineapple, canned, from the sirup, and spread the layers, makes a very good The sirup may be used as a

or the frosting. shredded pineapple, sirup and y be thickened with beaten egg, a cup of pineapple, cooked to-

tablespoons of butter may be together with 2 tablespoons of and cooked with 1 cup of canned pineapple until thick to spread in a good, deep layer. ory case a little sugar may be if desired. The sliced canned should be chopped fine; and neapple should be grated when h to use it for cake filling.

To Sugar Cure Meat

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piense tell me how to sugar cure P., Brown Co., Kansas,

different formulas may be different formulas may be curing pork by the brine but this recipe, if followed will give very good results: 100 pounds of meat use 10 of salt, 2½ pounds of sugar or 2 ounces of saltpeter and 5 of water. In warm weather 9 of salt are preferable. or shoulder and three days and small pieces. For expire of bacon weighing 10 piece of bacon weighing 10 30 days.

rine should be made the day is used, so that it will be the ingredients are poured water and boiled until thoroly Place the ham on the bottom ers next, bacon smaller cuts on top. Pour rine, and be sure it covers the In five days pour off and change the meat, placing ment on the bottom and the meat on top, then pour back Repeat this operation again

tenth and eighteenth days. If the becomes ropy, take out all thand wash it and the container roly. Boil the ropy pickle, or, make new pickle. When each ment has received the proper he it out of the pickle and wash warm water, string and hang smokehouse. The temperature smokehouse should not exceed os F. Smoke the meat until good chestnut color.

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Your Gulbransen

Our new book containing more than 50 pages tells of the fun you can have with the Gulbransen Player-Piano.

Every kind of song you ever heard of, even songs in foreign languages, are listed. The best dance music of all kinds and ages is interestingly described.

Send us the coupon below with your name and address and get a free copy of this new book.

Gulbransen "Pedal-Touch"

GULBRANSEN "pedal-touch" is satisfyingly different from that of the ordinary player-piano. You will from that of the ordinary player-piano. notice it before you have made a dozen pedal strokes. The Gulbransen pedals feel firm yet move easily. You do not have to push hard or pedal fast.

The "pedal-touch" of a player-piano is important—as important as "key-touch" to a hand pianist. Because, to the player-pianist, the pedals are the "keys" through which he produces expression.

If the "pedal-touch" is stiff it resists too much; it forces you to push hard. The reverse—a mushy "pedal-touch"—resists too little; the pedals die away under your feet. You are forced to pedal fast just to keep the instrument playing.

So, either stiff or mushy "pedal-touch" will make you work hard - take the fun

To Gulbransen Owners

The right way to treat a fine player-pianois to have it tuned, regulated and the tubes cleaned out every six months, at least.

Are you keeping your fine in-strument fine?

out of playing and give you little opportunity for expression. That is why much player music sounds mechanical.

Gulbransen "pedal-touch" is easy, responsive, natural —well, just exquisite! You pedal as the music requires - gently or firmly - always leisurely, always relaxed, enjoying the music.

That is why Gulbransen owners play so well - with so much expression. They have the instrument which permits it invites it. And the rich, full, resonant tone of the Gulbransen helps give spirit to the music.

You would enjoy a Gulbransen. You could play it well. Just try one at our dealer's store. You can locate him by the "Baby at the Pedals"—actually playing the Gulbransen—in his window. And send coupon below for our free book "Good Times With Your Gulbransen." Tells all about the music available and the fun you can have.

Nationally Priced

Three models, all playable, bythand or by roll, sold at the same prices to everybody, every-where in the U.S., freight and war tax paid. Price branded in the back of each instrument at the factory. White House Model, \$725 Country Seat Model, \$625, Suburban Model, \$550

Gulbransen-Dickinson Co., 808 No. Sawyer Ave., Chicago

Coat or Blouse

Gulbransen Trade Mark

"Diamond Dyes" Make Old, Shabby, Faded Apparel Just Like New.

Don't worry about perfect results. Use "Diamond Dyes," guaranteed to give a new, rich, fadeless color to any fabric, whether wool, silk, linen, cotton or mixed goods,—dresses, blouses, stockings, skirts, children's coats, draperies,—everything!

A Direction Book is in package.

To match any material, have dealer show you "Diamond Dye" Color Card.

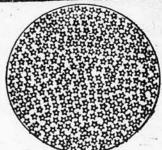


\$50000 IN GOLD GI How Many Stars in the Circle

How many stars in this circle? Count them. It is not hard either—just takes a little ingenuity and skill. The puzzle looks easy and so simple. Try it. Everyone who sends in their answer to this puzzle will be rewarded. As soon as you send in your solution to this puzzle we will send you a

Beautiful Picture FREE

We are going to give each one who answers this puzzle a beautiful colored picture, 12x16 ins. in size. We are the largest magazine publishers in the west, and are conducting this big, "EVERY CLUB MEMBER REWARDED" Star Puzzle Contest, in which everyone sending in their solution receives a prize. Everyone joining the club will have an opportunity to share in the \$500.00 in gold.



REMEMBER
All you have to do to join the club is, send in your answer to the puzzle, and we will immediately send you five beautiful pictures. Pick out the one you want to keep and distribute the other four on our fast-selling 25 cent offer. You will then be an honorable member of the Star Puzzle Club, and receive as a reward a gold-filled, five-year guaranteed Signet ring FREE and POSTPAID. Many do it in an hour's time. Count the stars and, send in your answer TODAY, A postcard will do. Don't miss this wonderful opportunity. We have a picture for you.

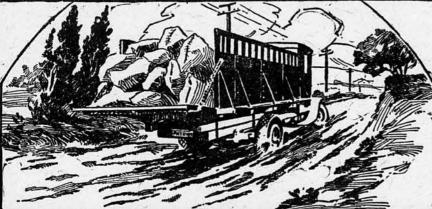
STAR PUZZLE CLUB, 72 Capper Bldg., Topeka, Kan.

February

Wirel

There

When It Comes to a Real "Show-Down



PATRIOT :

Farm Motor Trucks "Go Through"

On paved highways, no truck gives more satisfactory and economical service than the Patriot.

But if you want to see this unusual truck really perform—get right down and pull—send it charging through hub-deep mud, up slippery hills, through clogging sand, over newly plowed ground.

You will be astonished at the willing ease with which the Patriot answers

Built for the Farmer

Patriot Trucks were designed to stand up and deliver under the unusually difficult conditions that prevail on the farm. We expect the owner to use his Patriot every working day of the year, fine weather or foul, good roads or bad.

Patriots are easy to run and keep running. Few adjustments are necessary, little attention required.

Ask us to send you the new Patriot Catalog.

HEBB MOTORS COMPANY, Manufacturers 1349 P Street, Lincoln, Neb.

Revere Model 4300 to 2500 lbs. Capacity

Lincoln Model 3000 to 5000 lbs. Capacity

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Health in the Family

BY DR. CHARLES H. LERRIGO



N EVERY issue of this paper our selves of the services of Dr. Lerrigo thru the columns of his department. No charge is made for this, but when a personal answer is desired postage should be enclosed for reply to each and should not attempt to starve your-

Those "Interstitial Glands"

Can you give me any authentic information as to the planting of the gland of a goat into a human and what effect it has on the person. Is it used in certain diseases, or will it invigorate and strengthen the whole body? There is so much now in the papers and I would like to know what your opinion is on the use of such operations or is it only newspaper talk? E. F.

Some experiments have been made with gland implantation but no promising results have thus far been obtained. The matter is in an experi-mental stage with the chances against

Newspaper stories make the matter seem very simple. You take a gland from an animal and implant it in a man and there you have the whole secret. But physiologists know that it is very difficult to get transplanted tissue to live at all. If it does live there is then the question whether the gland will function properly under its new source of nutrition; and the chances are that if the new owner of the gland has been unable to nourish the glands he had before, he will do no better with those transplanted. The only logical subject for experiment would be a young, healthy man or woman whose glands had been de-stroyed by accidental means or removed for surgical reasons.

The mere fact that a thing has not been done before is not an argument against its possibility. I have little patience with any person who imagines that old men can be restored to youth by any kind of sorcery or surgery. But there are young men, wounded veterans of the late war, and young women who have been subjected to surgical operations, for whom such a thing as relief by implantation of animal tissue might well be considered.

For the sake of such I hope that the

experiments will prove successful, but I have seen no positive evidence yet.

Infantile Paralysis

Infantile Paralysis

I am a single person 34 years old; weigh 145 pounds and am 5 feet 2 inches tall. I had infantile paralysis when about 4 or 5 years old, but have outgrown it quite a bit so that I am able to do the house work for four or five grown people. I am a hard worker, also a hearty eater. For the last few years I have been bothered with weak spells. I can work all day but when I undertake to walk a little way sometimes I have these spells.

I wear heeliess slippers at home and as low as I can get them for other occasions. I fell some years ago and sprained my left ankle very badly so I have two weak ankles. Do you think these weak spells come, because I am so heavy? I have had a doctor for it but he could not tell what was the cause. He put me on a diet but it did no good even after I lost in flesh. Is there anything that could be done? Do you think I should put myself on a diet? I would be very glad to hear from you through the Kansas Farmer and Mail and Breeze.

Your weight is not sufficiently out

Your weight is not sufficiently out of the way to warrant any disturbance in the strength of your ankles. I think the weakness is a part of the old condition, which is quite possible even tho the affected leg was the right side.

I think there is no reason why it should get any worse. No doubt it is worse when you get tired and nervous. and better when you are well rested.

muscles once daily with cool salt water seaders are invited to avail them- followed by a brisk rub with a dry towel.

The better you keep up your general health the better you will be able to walk. You need to be well nourished

Treatment for Acne

I am a girl nearly 16 years old and have had a breaking out on my face for about three years. At times it is much worse and then again it is scarcely noticeable. I have been to our local physician and have taken several kinds of medicine, but none seems to have helped me. I would like to know what your opinion is. M. L.

I think that your trouble is acne, a very common skin complaint with girls of your age. You will be helped by anything that improves your general

Get plenty of sleep. Exercise regularly in the open air. Get your bowels to act freely and regularly every day. Eat plenty of nourishing food, but do not indulge much in sweetstuffs nor allow excess in meats.

This trouble is not helped much by applications to the face. A cool bath every day with a brisk rubbing is the best skin tonic.

A Bad Cough

A Bad Cough

I would like very much to know how to stop a bad cough. In 1908 I had the measles and I took cold and it settled in my throat or bronchial tubes. Since then every bit of cold I get goes to them. It seems that none of the cold medicines will do any good. I cough so hard and don't seem to raise any phlegm. I take spells of coughing that make me almost choke and can scarcely breathe. I am very careful about wearing heavy underclothing and I try to take care of myseif. Is there any cure for it?

Such a sortions gough as yours de-

Such a serious cough as yours demands serious treatment. It cannot be cured simply by taking a little med icine. You should take exactly the same treatment as if you had tubercle losis. That is, to say, you should live in the open air as much as possible avoid inhaling dust and other irritants take a great deal of rest, perhaps stay in bed until a fair improvement has been gained, eat plenty of nourishing food, drink milk, avoid overwork and all bad habits.

This is a severe prescription, but I think it will cure your cough and I doubt if anything less will. Once you succeed in allaying the irritation of the bronchial mucous membranes, you will have a chance to be well.

Probably Dropsy

I have been reading your answers in Kansas Farmer and Mail and Breaksome time and I am writing to ask about my case. I have kidney tradso heart trouble and now my ankled legs swell up to my knees thru the but all goes down at night. Also a cough. If you could advise what to would be very thankful.

You must move the dropsy away by increasing elimination thru bowels and kidneys. Restrict the amount of fluids that you drink, for a time. Eat small meals of nourishing food four or five times daily and rest in hed. If not times daily, and rest in bed. If no under a doctor's care you should be.

D. E. M.: A scar on the face made by a barb-wire cut can be very much improved by simple surgical methods. Possibly an expert, by the aid of a little skin grafting could relieve it so that it would reach the standard of the skin grafting could relieve it so that it would reach the skin grafting could relieve it so that it would reach the skin grafting could reach the skin grafting the that it would scarcely be noticeable. In such a cut, if severe, the muscles are severed and the muscles are severed and the muscles. are severed and the ends retract. skin heals over but the lumpy ends of Galvanic electricity may be of some the muscles are very disfiguring. By value. The chief thing that you can uniting these severed ends of muscle do at home is to rub the affected the sear is greatly improved.

Sout their their tors, been true Seve been per

esti busi tory

Wireless Valuable on a Farm

(Continued from Page 36.)

naking a boy contented and help to him on the farm.

are several reasons why we find more radio sets on farms. rs do not know that they are of lue. A little education along will bring about the use of circless sets among farm boys. that most farmers are very live and that they would be to spend enough money to get another important reason. have had a very hard time to enough money for a radio set was on the farm. Farm boys iom given as much money to town boys. I believe, howat the farmers and farm boys ind sufficient funds for a set knew more about wireless and apparatus.

Advertisements Educate

Right along the last mentioned line opportunity for newspapers, s and radio companies to an educational campaign that prove profitable to all conthe farmer included. Com-that manufacture radio appa-and companies that publish nd magazines dealing with rashould carry on an advertispaign in the papers and magaat the farmer and farm boy ess to. These advertisements educational in character, givalue of radio sets to the farmexplaining some of the simpler oncerning radio sets and their
The editors of farm magad papers can help to educate ing public along these lines by articles on wireless or even a lessons along this line in their

is another channel thru which m boy may be reached and inin wireless. If catalogs of goods and sample copies of gazines as "Wireless Age," "Q. and "Electrical Experimenter," ed in district school libraries, dents will know more about School boards and teachers

induced to buy books on wireubscribe for some of the magahave mentioned. Any money in these will be well spent. is still another reason that e kept some boys from using a set, and that is, some source of Of course, no electricity is for the simpler receiving there is need for electricity ding set, and for better types ing sets. Many farms are now with farm lighting plants, and we connections to commercial lines. Either of these sources used for radio work.

St. Valentine's Day

the distance of the distance o priest, tried to do what he help the Christian people.

y the emperor sent for Valen-

told him that he must stop the Christians. Valentine re-obey him. February 14 was set for his execution. On that good priest was beheaded on in rough to Rome. e roads to Rome.

ne was always kind to boys and did much to make them On February 14 his name is ged and we call the day St. s Day. On that day we send greetings of love to our We should think then of the \$90d St. Valentine did, and how he gave his life for others.

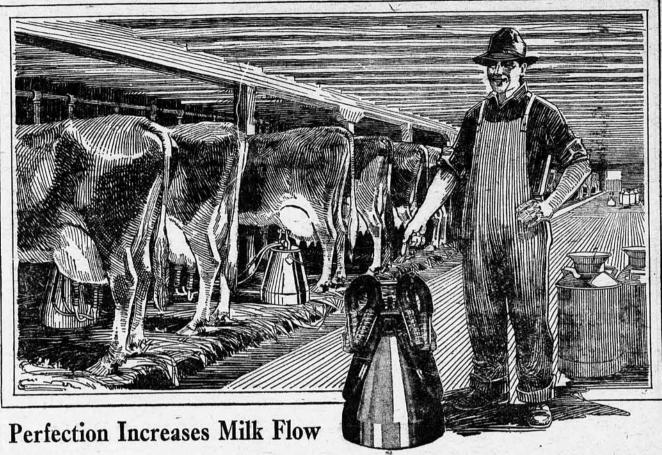
No Cars for Grain

There were 400 wagon loads of grain anding on the streets of Elkhart in Multiwest Kansas recently awaiting their turn to be unloaded at the elevabeen harded in from 40 to 65 miles. One tack load of wheat came 102 miles. Several thousand bushels of grain had been piled on the ground. On the day been piled on the ground. On the day been but one car at put. agerred to there had been but one car at Elkhart in a week. Grain shippers estimated that more than a million bushels of grain in the Elkhart territory is yet to be delivered and shipped.

This Bible is about the size of a postage stamp and is said to bring good luck to the owner. Sent postpal for only 10 cents in tory is yet to be delivered and shipped.

NOVELTY HOUSE, Dept. 10, Topeka, Kan,

of



WHEN asked what feature in the Perfection Milker he VV considered most valuable, Mr Charles M. Yarter, who who is a well known dairyman in his State, said recently: "With the use of the Perfection we milk and strip fifty-four cows in eighty minutes, and yet I consider the greatest profit derived from using the Perfection is not so much in the time it saves as in the increased milk flow. We surely get much more milk with the machine than we could if we depended on hired help to do all the milking by hand, and we are getting a much better quality of milk too."

The Most Profitable Machine on the Farm

I have gotten more benefit for each dollar put into my Perfection than from any other machine on my farm. We use the machine twice daily, Summer and Winter, while we only

use any of our other machines a few weeks during the year. The milker helps to make all our other machinery more valuable by giving us longer days to use it.
"I believe the Perfection Milking Machine is the simplest,

easiest to keep clean, less liable to get out of order and draws the milk more naturally and with more comfort to the cows than any other milking machine or hand milker I know of."

Send For Names, Addresses and Catalog

Mr. Yarter is only one of thousands of satisfied Perfection owners. What the Perfection has done on his farn, it will do on yours. Write us and we'll gladly send you names and addresses of owners to whom you can write yourself. We'll also send a free copy of "What a Dairyman Wants to Know" with the company of the compan the great book which answers every question about milking machines. Write today to Perfection Manufacturing Co., 2130 E. Hennepin Ave., Minneapolis, Minn.

Lieber's Farm Equipment Co.

Southwestern Distributer

Lincoln, Nebraska Why Milk by Hand? 216 North Eleventh Street

Don't Wear a Truss



BROOKS' Appliance, the modern scien-tific invention, the wonderful new discov-ery that relieves rup-ture will be sent on trial. No obnoxious springs or pads. Has automatic Air Cushions Binds and draws the Binds and draws the broken parts together as you would a broker limb. No salves. No lles. Durable, cheap Sent on trial to prove it. Projected by U. S. patents. Catalogue and measure blanks mailed free. Send name and address today.

C. E. BROOKS, 341A State Street, Marshall, Mich





Smallest Bible on Earth





More Milk and Easier Milking! -Care of the Udder Insures It.

It is impossible to obtain a maximum milk-flow from an udder that is not entirely healthy both inside and out. The slightest hurt or congestion will interefere with the delicate milk-secreting process, and at once reduce the production of an otherwise healthy cow.

Bag Balm has the soothing, healing, and penetrating qualities needed to make the tissues and surface of the udder soft, smooth and pliable—easy to milk and encouraging production to the last course.

A little care pays big returns; keep Bag Balm on hand and insure against milk losses and disagreeable milking. Especially valuable in treating Caked Bag, Cow Pox, Chaps, Bunches, Wounds and any inflammation.

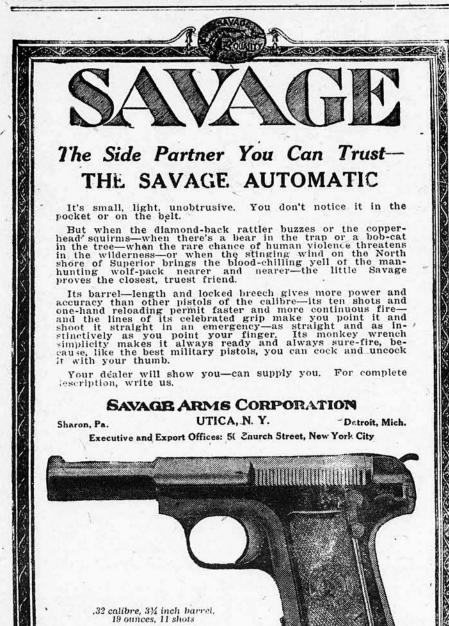
Sold by druggists, feed dealers and general stores, in liberal 60c packages. Be sure to obtain a package at the first opportunity. It's a little wonder-worker in any udder trouble. A great remedy at the calving period, when so many abnormal udder conditions arise.

DAIRY ASSOCIATION CO., Lyndonville, Vt.



Febru





380 calibre, 3¼ inch barrel, 21 ounces, 10 shots

Housing for Dairy Cattle

Contentment is the Very Essence of Profits

BY J. B. FITCH

be some time and steps saved at milkposes in Kansas, has come the
demand for better housing facilities for
this class of stock. This demand has
not come, however, until those who
have dairy cattle have come to realize
thru their own experience that a dairy
cow requires more protection from the
cold than animals kent for heef nurcold than animals kept for beef purposes. I have seen men pay high prices If we save time in cleaning the barn for good dairy animals and then limit when they head out, we save time in their possibilities by poor housing and insufficient feed.

Dairy cattle respond very promptly to good care and the old saying that "Contentment is the essence of profits," is a good rule to follow in caring for dairy cattle. The work incident to keeping a dairy barn in a fit condition to produce human food is a tedious task unless some provision is made to reduce the task to a minimum. The use of cement floors, the overhead litter carrier, and running water in the barn, are warranted from the standpoint of convenience alone. In addition, it means a clean sweet smelling barn and a good quality of dairy products.

Clean Products Essential

Frequently, in discussing the production of clean milk, the impression is left with dairymen that elaborate and expensive equipment is necessary. This is far from the facts of the case. I have seen dairy barns which were the height of perfection in equipment, produce a very inferior product due to poor methods of handling. On the other hand, it is quite common to find poorly constructed barns producing a good quality of product when good methods are, followed. The government score card for dairy barns gives 40 per cent to methods followed. The production of a good clean product is more a matto methods followed. The production of a good clean product is more a matter of good common sense than of expensive equipment. Gleanliness and cold are the important factors in the keeping quality of dairy products. Very few dairyman are forward out of few dairymen are forced out of business on account of poor equipment. Most of the trouble is caused by men who are ignorant of good methods or who do not follow instructions covering the production of milk.

A well arranged sanitary barn with cement floors and conveniences for cleaning the barn and feeding and watering the cows will cut the cost of production in saving labor and keeping the cows and help better contented.

The arrangement of the barn will vary with the ideas of the individual dairyman. By far the most common type of barn is the two story rectangular barn with two rows of stanch- of the cows a little higher than the ions, and with bull pens, calf pens and standing platform, and the manger maternity stails at one end. It is an made with the bottom of the manger open question whether the cows should on the level with the standing plat-head in or hear out. Any person who form. In this way, any feed thrown has used one wind very much is in out of the manger into the feed way favor of the type he is most familiar can be swept back into the manger, with. I believe a greater proportion of A cement floor is not the most the barns in the dairy districts are arranged with the cattle heading out. is cold and damp and may cause udder With this arrangement it permits of trouble, but it is cheaply constructed driving into the barn and loading the and for that reason widely used. Covernment of the cattle heading out is cold and damp and may cause udder trouble, but it is cheaply constructed and for that reason widely used. manure directly into the manure spreader. There is also less wall space exposed to the spleshing of manure when heading out. Vith the cows heading out they face the sunlight and per- brick, and creosoted wood blocks are haps get more fres: air than if they were heading in. It a well ventilated tection for the udder of cows. In finbarn, this point would be eliminated. ishing the cement floor of a dairy barn.

WITH THE increase in the num- With the cows heading out, there might ber of cattle kept for dairy pur- be some time and atoms. ber of cattle kept for dairy pur- be some time and steps saved at milk.

the cows will suffice when heading in, feeding when they head in. Since we feed at least twice daily and some-times more often, the advantages from these two differences equalize. is some advantage in having the rear-

of the cows exposed to the sunlight, With a barn 36 feet in width, with the cows facing out, the width is distributed as follows: Feed alley 4 feet 8 inches; manger 2 feet 9 inches; standing platform 4 feet 8 inches; gutter 16 inches; and a driveway of 8 feet and 6 inches. With the cows facing in, a 6-foot walk behind the cows is used, with a 6-foot feed alley between the rows of stanchions.

In keeping cows clean, it is essential that they be lined up so that their hind feet reach the edge of the gutter. In this way the droppings go into the gutter. When the cows are short the droppings fall on the standing platform and the cows lie down in the dirt. When the platform is too short the cows stand with their hind feet in the gutter. A standing platform 4 feet 6 inches in length is sufficient for small cows or for Jerseys and Guernseys; while Holsteins or Ayrshires will take a platform 5 feet in length, and the larger - Holsteins will take 5 feet 4 inches or as much as 5 feet 6 inches. This length can be regulated by making This length can be regulated by making the standing platform at one end of the barn wider than at the other end, and in this way the larger cows can be located on the widest platform. Some types of stanchions have alignment devices so that the short cows can be pushed back on the line of the gutter. The gutter should be at least 16

inches wide and 10 inches deep In many barns the walk behind the cows is 2 inches lower than the standing platform. This causes the cows to look larger and also shows them off to bet-

ter advantage.

Keep the Cows Clean

The stalls should be 3 feet wide for the small breeds and 3 feet and 6 inches wide for the larger breeds of cattle. The manger should be from 2 feet to 2 feet 6 inches in width. It is preferable to have the walk in front

A cement floor is not the most desirable material for cows to lie on. It ering the cement with boards in the region where the udders come in contact with the cement, is a wise precaution especially in cold climates.



-Concrete Floors and Troughs, Steel Plenty of Light and Ventilation Here-Stanchions, Carriers for Feed and Litter-All a Dairy Barn Should Have.

Dairy Farming at Lamar

side always to get hay at the growers cost. At the present time this
same hay is selling for from \$36 to
same hay is selling for from \$36 to
lind and on in eastern parts of Illinois,
Indiana and Ohio, and higher in
sections farther East.

The upland or dry land is being
settled rapidly and every year the
dry land crops are increasing, and
the local supply of corn, kafir, maize
the local supply of corn, kafir, maize
the ration for a dairy cow in that
it aids in getting the proper proportion of water with the other feeds
as well as the nutritive value it
adds to the ration.

The beet industry in itself is going to be a very interesting vocation
for the next few years, with the
prospects for \$12 a ton for beets,
and an average acre yield of about

and wheat greatly exceeds the home land. forerun present is \$2.50 a hundredweight for the procorn. This is thru the dealer, and it can be bought for less if purchased direct. Good mill-run bran cow can be bought at the Two Buttes T mill for \$1.75 a hundredweight.

Lamar is also a great beet growing community, producing thousands and wet pulp are used for feed. opens a great field for dairy men Each grower is sold back 48 per cent looking for a location.

HE Lamar community still has of the pulp from the number of tons an abundance of feed. There of beets sold to the company. The are thousands of tons of alfalfa cost of beet pulp laid down at the in the fields. Alfalfa hay at station ranges from \$1.35 to \$2 a present time is worth from \$18 are thousands of tons or aliana the present time is worth from \$18 ton, loose in the stack. Not only does this apply to this year, only does this apply to this year, only does the are many thousands of tons of the stack. The large per cent of the stack water it contains is beneficial to the station for a dairy cow in that

> The cow, however, is the forerunner to supply the soil with the proper fertility to insure the 15 to 20 ton an acre beet yield, and is a strong reason for staying with the

The Helvetia Milk Condensing Company's plant, which is located at Lamar, has a capacity for 150,000 pounds of milk daily. At present the receipts are hardly one-third of of ions of sugar annually. The feature in connection with the beet industry is the by-product for feed ance of paying the same price for dairy cows. Both the beet tops for dairy cows. Both the beet tops



lielstein Cows on the Farm of the American Beet Sugar Co. at Lamar Which Show the High Quality of the Animals in That Community.

The wood float finish will leave a surface that will clean easily and still be safe for animals to walk upon.

Types of Ties

The type of tie used can be made to suit the taste and pocketbook of the in-Home-made wood ties can be used but it will generally pay to get a steel lie that can be hung on either a 2 by 4 or a steel frame and can be made more flexible and also more dur-

A type of stall which can be made on the farm and is very successful in keeping the cows clean as well as comarching the cows clean as well as comfortable, is the Graves stall. We have one barn at the college with 14 of these Graves stalls, and they have proved very satisfactory. They resemble very much the Hoard stall. The ble very much the Hoard stall. The cows stand with their hind feet back of a split 4 by 4 and are tied to the sanctions by means of a chain to a strap about their necks. When they lie how they in front of the 4 by 4 down they step in front of the 4 by 4 and the with their heads under the manger. In this way they step away from any manure that they may have

air and outlets for impure air. A properly contilated barn will be sufficiently Warm for the comfort of the animals, there will be no condensation of moisbure on the walls, and the barn will have a clean smell. Good ventilation is essential not only to the health of the animals but for the quality of the as well. Companies selling barn equipment will supply specificafor ventilating barns and also Mans for dairy barns and prices on equipment.

With a cement manger and running Water in the barn, it can be easily arranged to water the cows in the barn by sweeping out the manger and fill-

it should be floated with a wood float ing it with water for the cows. Water tather than a steel float. The steel bowls where the cows can drink will float will leave a very smooth finish cause increased production of milk. which when wet will be very slippery. The more water we can get cows to The more water we can get cows to drink, the more milk they will produce. When cows are watered out of doors during the winter months, it will pay in milk produced and feed saved to warm the water given to the cows.

In addition to the dairy barn proper,

there should be a room conveniently located for cooling or separating the milk and washing the milk utensils. The milk sheet and scales can also be located in this room. Still another room can be used as a feed room.

Perhaps you cannot have every convenience that an up to date dairy barn has, but with very little expense you

National Shorthorn Congress

The program for the third National Shorthorn Congress at Chicago follows: Tuesday, February 17, 9 a. m. All entries will be in place, stalled according to ages, four classifications for bulls hanger. In this way they step away from any manure that they may have left. There is a very shallow gutter to this smill, with a slight fall to carry away the liquid manure.

When cows are confined closely it is becressary to provide some means of ventilation. The common method used is the King system of ventilation. This are bulls selected individuals represent the system of ventilation. This are bulls selected individuals represent the selected in th is the King system of ventilation. This are bulls, selected individuals repreconsists of a series of intakes for fresh senting in nearly all cases the best productions of the consignors.

Wednesday. February 18, 10 a. m., sharp, auction sale. One hour and a quarter will be set aside for lunch. The auction will close at 5 p. m. A complimentary dinner will be given at 6 p. m. The auction will convene at 8 o'clock

p. m. Field representatives of the associa tion will be on hand to advise or assist beginners or anyone attending the Congress in the matter of purchases or information.

The Bolshevik movement in America is assuming the guise of a Back Home Movement.-Columbia Record.

DE LAVAL

CREAM SEPARATORS

are the cheapest as well as the best

This is the unanswerable argument in favor of the purchase of a DE LAVAL Cream Separator. Everyone wants the best, provided its cost

is within his means. Fortunately a DE LAVAL costs but little more than an inferior cream separator and saves that difference every few weeks.

Moreover, an inferior separator wastes in time and labor, and in quantity and quality of product what a DE LAVAL saves, and goes on doing so every time it is used, twice a day every day in the year.

If you doubt this is so, try a new DE LAVAL alongside any old machine you may be using or other make of separator you may have thought of buying. Every DE LAVAL agent will be glad to afford you the opportunity to do so.

If you don't know the nearest De Laval agent, simply address the nearest De Laval main office, as below

The De Laval Separator Co.

165 Broadway NEW YORK 29 East Madison Street CHICAGO

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50,000 Branches and Local Agencies the World Over

95 Sent on Trial Upward American, Cream SEPARATOR

Thousands in Use infaction justifies investigating our wonderful offer: a brand new, well made, easy running, easily cleaned, perfect skimming separator only \$19.95. Skims warm or cold milk closely. Makes thick or thin cream. Different from picture, which illustrates our low priced, Bowl is a sanitary marvel and embodies all our latest improvements. Our Absolute Guarantee Protects You. Besides wonderfully low prices and generous trial terms, our offer includes our

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Whether dairy is large or small, do not fail to get our great offer. Our richly illustrated catalog, sent free on request, is a most complete, elaborate and interesting book on cream separators. Western orders filled from Western points. Write today for catalog and see our big money saving proposition.

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A BETTER SEPARATOR

saves your dollars— skims to a mere

runs easy— has larger capacity simple— durable-

Guaranteed for Five Years

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The Viking is
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Straight disc skimming device which
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DICKEY GLAZED TILE SILOS "The Fruit Jar of the Field" Save 10% by ordering now. Pay later when silo arrives. Send for Catalog No. 5. W. S. DICKEY CLAY MFG. CO. Kansas City, Mo. Macomb, Ill. Chattanooga, Tenn.

Fire clay glazed silos and hard burned unglazed silos last forever, solid con-struction, can't burn down, proven best and most economical. Write for Silo Facts and figures and Special Offer. The Farmers Silo Co., Dept.107, Kansas City, Mo.



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EFORE you buy a pipeless furnace be sure to write for our D new 1920 Furnace Book about the Homer Patented Pipeless Furnace. It will give you many facts you ought to know.



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HOMER

It Ventilates

The Homer Patented Pipeless Furnace, you know, is the Original Patented Pipeless Furnace. It has been a continuous and increasing success ever since 1909—years before any other pipeless furnace even came on the market.

The Homer has many advantages that are not to be found in the ordinary pipeless furnaces - and besides when you buy the Homer you eliminate all chance and guesswork, for the Homer Patented Pipeless Furnace is no experiment but an established National success.

There are thousands of satisfied Homer users all over America - and many are still using the same Homer Patented Pipeless Furnace that they bought ten years ago.

Talk to the Homer dealer in your town. You'll find him a high class merchant-and a man who knows why the Homer Patented Pipeless Furnace is your best buy.

The Homer Thermo-Seal Inner Lining Saves Heat and Keeps Your Cellar Cool

You want steady heat in the housenot in the basement where vegetables and fruit are stored.

The Famous Homer Thermo-Seal Inner Lining is made of two sheets of thick galvanized iron effectively insulated with heavy asbestos. This keeps the cold air passage cold—and the warm air passage warm. All the heat goes up into the house-none is wasted in the cellar.

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Clean Seed a Sure Success

Clean Seed a Sure Success

You can easily guarantee yourself from five to ten bushels more oats, barley, corn, and other grains per acre this year and make several hundred dollars extra by cleaning and grading your seed.

Home grown seed produces the best results because it is acclimated but the trouble is that it contains many shrivelled and imperfect grains, noxious weed seed and dirt. These objections are how easily and quickly overcome by the use of a simple and scientifically accurate Simplex Mill.

The Simplex Mill handles from 40 to 60 bushels per hour, so it is only a few hours work to clean and grade your seed and guarantee yourself successful crops.

Being sold direct by mail to you at factory prices the Simplex Mill costs from \$20 to \$25 less than others. In view of \$3 to \$4 wheat this next winter—an indicator of high prices for all grains—no farmer can afford to do without them. The Simplex Mill is sold on 30 days trial with nearly a year to pay and should easily last a life time. It performs over 50 different cleaning and grading operations, such as separating wheat mixed with oats or rye, cockle or mustard with oats or rye, cockle or mustard with oats, alfalfa and doddard, clover and buckhorn—in fact, all kinds of mixtures. Special corn grader included or letter to L. D. Rice Pres. Simplex

free.
My advice is for you to write a card
or letter to L. D. Rice, Pres., Simplex
Spreader Mig. Co., 1703 Traders Bldg.,
Kansas City, Mo., and ask for his interesting descriptive matter and prices will be sent free to any reader.

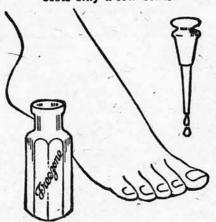


POULTRY SUPPLIES

Egg boxes and baskets, chick boxes, coops, incubators, hovers, fountains, feeders, home egg candlers, etc. Save 20%, Carg. Free, Western Box & Basket Co., Dept. F. Omaha. Nebr.

Lift off Corns with Fingers

Doesn't hurt a bit and "Freezone" costs only a few cents



You can lift off any hard corn, soft corn, or corn between the toes, and the hard skin calluses from bottom of feet.

Apply a few drops of "Freezone" upon the corn or callus. Instantly it stops hurting, then shortly you lift that bothersome corn or callus right off, root and all, without one bit of pain or soreness. Truly! No humbug!

Tiny bottle of "Freezone" costs few cents at any drug store

Capper Pig Club News

What Do You Read in the Mail and Breeze?

BY EARLE H. WHITMAN Club Manager

WELL, Earle," recently said Tom with plenty of prizes to compete for, McNeal, whom every boy and shouldn't wait another to compete for, editor of the Kansas Farmer and Mail and Breeze, "how's the pig club getting along?" "Fine, Mr. McNeal," I answered. "Every boy in the club's right up and coming." "I was just wondering," continued Mr. McNeal, "if your club members read our paper. Of course they read the club stories, but do they look at anything else?" "Why, sure thing they do," was my reply. "Of course, they may not read the entire paper, but I know they read your Truthful James' stories and articles on the care and feeding of hogs."
"Well, I'm glad they do," was Mr. Mc-Neal's comment as he went back to his office.

Now, fellows, was I right? Do Capper Pig club members rend our paper, or just the club story? From the fre-quent mention in club members' letters, I feel sure they read and profit from anything in the paper which applies to their work. I wonder how many boys follow the market report, usually in the back part of the paper. Keeping in touch with such matters is an excellent habit to form, and will make a more efficient farmer and livestock man out of our boys. Then, too, be sure to read the timely articles on feeding and caring for the sow before and at farrowing, and about feeding

and raising the pigs.
Club members for 1920 are busily engaged in getting their contest sows. A boy who really desires to find a good sow should have no difficulty doing so. Many excellent gilts and a few tried sows are for sale by members of the club for 1919, while the livestock advertising columns of the Kansas Farmer and Mail and Breeze always contain offerings of reliable breeders. You should decide what breed you want, and be sure to choose the kind of hogs you like. I shouldn't advise any boy, tho, to bring into his community a different breed from those already being raised, unless he is certain of a market for his breeding stock and knows where he will be able to rebreed his sow. Any of the standard breeds will do well, if given proper are and management. Don't put off buying your contest sow, for all club members must have a sow purchased or immediately in view by March 20. This warning doesn't apply to many of of course, as sows are being entered in it is:

"I enrolled for my second year of "I enrolled for my second year of the course, and a few conwarning doesn't apply to many boys, test litters have been farrowed.

Now, fellows, when you read this there will be only a couple of weeks more for enrollment in the Capper Pig club for 1920. Every year, a week or several weeks after enrollment closes, I get letters from boys who wish to join the club. But they're too late. Ambitious, hustling chaps who desire to get a start with hogs, or who already have sows but wish to line up five sows and five boars. tor an enjoyable year of club work

McNeal, whom every boy and shouldn't wait another day. All over girl in Kansas knows as the Kansas live-wire boys are taking advantage of their opportunity. As I write this, Anderson and Coffey have complete memberships. Pottawatomie lacks only one boy, while Wallace has two vacancies. Shawnee follows with room for three boys, and in Cloud, Jackson, Jefferson, Johnson, Linn, Ness, Osage, there's still a chance for four boys with pep. We have five members apiece in Atchison, Finney. Reno and Wilson. All counties unnamed have fewer than five members. Now, is there any excuse for holding back? The application coupon appears in the Capper Poultry club story this time. Look it up and send it in at

> Some boys in this year's club certainly deserve a hearty pat on the back for the fine showing they are making in getting new members. Way out in Ness county Clark Scott is just "workin" his head off. And he's getting results, for he has five teammates, and more on the way. "I have finally succeeded in getting a teammate," writes peppy Howard Scott of Morris county. "I think in a few days I shall be able to find a couple more boys. Seems like I've tried almost every boy in this county, and I'm surely going to keep after them." Go to it Howard, we're for you! And what's the matter with Morris county boys if they're not willing to line up with such a chap

as Howard?

By the way, do you recognize the peppy looking young hog raiser shown in the picture? Waldo McBurney of Rice county is one of the original hustlers in the Capper Pig ciub. the and his mother came to Topeka to it tend the pep meeting last fall, and Waldo assured me he had "the time of his young life." This boy can raise hogs, too, as you'll agree when you've looked at the two he's showing you.

For the second time. Kingman county got into the winning last year. Ted Folkers won a cash prize and a \$25 prize pig in 1918, while in 1919 Wayne Forney came out with third place in the open contest and a check for \$12 from Arthur Capper. Wayne did the finest kind of work the uout the contest, and altho he got a late start with his pigs he produced \$1,950 pounds of pork at a very reasonable cost. His story was short, but interesting. Here

club work, and got busy hunting for just the kind of a sow I wanted. Finally I found one which I bought on March 12. She was a registered Duras Jersey and I got her from J. H. Mc-Cormick for \$75. I brought her home in a few days and she began doing well. I entered her in the centest April 15 and May 25 she farrowed 14 dandy pigs. She raised 10 fine ones,

"I fed the pigs plenty of separated



Waldo McRurney of Rice County and Two of His Poland China Contest Pigs. "They Weighed 200 Pounds Each at 9 Months Old," Says Waldo.

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milk and shorts and they grew like real hogs. I wenned them August 1. real hogs. They kept on growing well until the the contest. The average weight 195 pounds on December 15 when

wis 195 pounds on December 15 when I have them out of the contest. Every one is the same in size and color.

"My total feed cost amounted to \$115.17 figured by contest prices. My total profit on my contest pigs and sow and fall litter amounts to \$141. I have enjoyed the club work very all and would like to be in it and much, and would like to be in it another year if I could. I am doing my ther year if I could. I am doing my best to get a full county membership in the two years I have been in the club. Here's wishing the club for 1920 a bager and better year. I certainly do appreciate what Mr. Capper has done for me."

Wool Consumption in December

A total of 64 million pounds of wool, grease equivalent, was used by manufacturers in December, 1919, or 26 million pounds more than in December, 1918, according to the Bureau of Markets' monthly report just issued by

the Department of Agriculture.
The continued demand for fabrics
made from the finer grades of wool is made from the finer grades of wool is reflected by the percentages given in the report. Of the total wool consumed in December, 34 per cent was fine: 18 per cent, ½ blood; 17 per cent, ½ blood; 16 per cent, ¼ blood; 3 per cent low; and 11 per cent, carpet wool. Massachusetts continued to hold the lead in the amount consumed with lead in the amount consumed with 23.120.247 pounds of all grades, classes, and conditions, followed by Pennsylvania with 8,804,337 pounds; Rhode Island, 6,548,116; New Jersey, 5,012,-955; and New York, 4,082,080. Connec-New Hampshire, Ohio, and used between 1 and 2 mil-pounds, while in the Pacific Coast 363,078 pounds were used.

total amounts consumed accord-to condition were grease, 46,165,-pounds; scoured, 7,681,642 pounds; pulled, 1,718,627 pounds,

detailed report of wool con-Market Reporter of January 31, a copy of which will be sent to anyone addresing a request to the Bureau of Markets, United States Department of Agriculture, Washington, D. C.

Income From Land Sales

become from selling land at an adwhere over the purchase price or its value in 1913 is taxable income under the federal income tax laws. This is an angle of the law which is perhaps new to many land owners. Land has advanced rapidly in value in the last few years and many high sales are being made. The government counts as the hand cost or in case it was owned the hand cost or in case it was owned by the seller prior to 1913, the value March 1, 1913. If land sold was inherited since March 1, 1913, the estate's appraised inventory value is used as the cost in calculating profit. In case permanent improvements have been added to the farm since 1913, they been added to the farm since 1913, they be considered in figuring the gain when sold.

States in "Better Sires" Drive.

14 40 States the Better Sires—Better Stock campaign of federal and state ized and in many of them it is in full swing. Of the few not yet enrolled swered have made plans for joining the movement which promises numerous benefits to the livestock interests of the country. Each of the enrolled states has filed with the Bureau of Animal Industry, United States Desirement of Agriculture, the name and partment of Agriculture, the name and address of an official directly in charge of the work. This list will be sent any inquirer on application. The states enrolled in the crusade on January 1, were the following: Alabama, Arkansas Arizona, California, Colorado, Con-llecticut. Delaware, District of Columbia Florida, Georgia, Idaho. Kansas. Louisiana, Maine, Maryland, Massadusetts, Minnesota, Mentana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Caro-North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Wash-heton, West Virginia, Wisconsin, WyA gain of 207 lbs. in less than 2 months



An average gain of 207 lbs. per head in 52 days is what Sugar Loaf Cattle Fattener did for two hundred 900-pound steers. They were fed an average of 19 pounds of Sugar Loaf and 20 pounds of Sorghum Ensilage per head per day with plenty of clean water and salt. Many feeders are doing this and so can you with Sugar Loaf Cattle Fattener.

Sugar Loaf needs no other mixture. Results not alone prove it most economical, but the most perfectly balanced ration possible to produce to build live stock. Sugar Loaf is composed of the right proportions of Corn Feed Meal, Cotton Seed Meal, Alfalfa Meal, Sorghum Leaves Meal, Molasses and ½% salt and analyzes: Protein, 15.75%; Fat, 3.00%; N. F. G., 45.00%; Fibre, 13.00%. It's a quick fattener and it finishes live stock rapidly for market.

If your dealer is out of Sugar Loaf Cattle Fattener, he will get it for you - put up in 100-lb. sacks.

Temtor Corn and Fruit Products Co. General Offices, St. Louis, Mo.

Temtor Corn and Fruit Products Co., Dept. F,	St. Louis, Mo.
Please send me complete information on feeds checked at	Jersey Queen Dairy Feed
I havemilk cows;hogs;horses;	Jenny Linn Horse and Mule Feed
mules;cattle.	Pork-O- Hog Meal
My Name	Sugar Loaf Cattle Fattener

BIG MONEY IN SHIPPING YOUR

100 LBS

SUGAR LOAF

EMTOR SENIS PRODUCTS CO

Send this Coupon

for Free Sample

FURS-WOOL-TALLOW

To JOHN NELSON & CO., Central Ave. and Water St., Kansas City, Kan.



O UR advertisements are considered part of our service to our readers. Familiarity with a reliable market in which to buy is as essential as knowing better farming methods. Read the advertisements in Kansas Farmer and Mail and Breeze.

s, Mo.

-Money Saving Order Blank-

RENEW THREE YEARS SAVE \$1.00

Watch the Label

If the date after your name on the label on the cover of this issue is Mar. '20 it means your subscription will run out March, 1920. Send in your renewal right away so as not to miss an issue of Kansas Farmer and Mail and Presse.

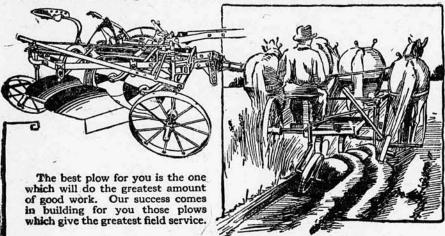
How To Save a Dollar

The regular subscription price of Kansas Farmer and Mail and Breeze is \$1.00 a year. You can save \$1.00 by sending us your order for a three-year subscription at \$2.00. Or you can send us two yearly subscriptions at \$1.00 anch and get your own subscription at \$1.00 each and get your own subscription free.

SAVES TIME **TROUBLE** AND **EXPENSE**

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A MOLINE PLOW MEANS SATISFACTION



MOLINE EFF SULKY & GANG

Better plows than these cannot be bought at any price. With them you can do good plowing at all times and under all conditions. The reason why you get so much field service out of these plows is because they possess every plow improvement that has shown its worth. In one particular feature they are the most improved of all the frame type plows. They have a perfected foot lift device that gives the operator two possibilities in raising the bottoms—

(1) The bottoms can be raised independently of the frame.

The Moline Line of Implements

(2) The frame can be leveled at the same time that the bottoms are raised.

These plows are made to run straight and true—the wheels do not crowd the furrow wall and the horses walk straight ahead without crowding or fretting. Side draft and landside friction are reduced to a minimum. These plows provide every advantage in springs and levers which give the operator full and easy control at all times.

Your Moline Dealer knows the worth of these plows—he will tell you all about them. Or write or nearest branch for information.

Moline Plow Company, Moline, III.

Nearest Branches at Kansas City, St. Louis, Denver and Oklahoma City

SINCE 1865, MOLINE"ON A FARM IMPLEMENT HAS BEEN A MARK OF QUALITY



We Need 100,000 More Skunk!

The world's biggest fur operators look to us to supply their demands. Funsten assures you the top prices and very highest grading at all times. We have \$8,000,000 to pay for furs—you get spot cash by return mail. No matter where you live, ship to the

Fur Headquarters for the World

Funsten handles more Skunk, Muskrat, Mink, Opossum, Raccoon, Wolf, Civet Cat, Fox, etc., than any other house in the world! As seanot only this season but next season other house in the world! As sea-son nears close, fur prices and qual-too. Ship today!

FUNSTEN BROS. & CO., St. Louis, Missouri 949 Funsten Building

FACE POWDER A box containing a generous supply of high grade face powder sent free and bostpaid to all who send us only 10 cente for a 3-month's subscription to the Household, a magazine of from 20 to 32 pages monthly, containing stories, fashions, fancy work and roetpee,

The Household, Dept. F.P.4. Topeka, Kan.



With the Capper Calf Club

Study Your Work Thru the Question Box

BY EARLE II. WHITMAN Club Manager

Tr WAS A QUARTER after 2 o'clock on a Friday afternoon. In the schoolroom, the pupils—and even the teacher—were tired and restless of the converse of the conv after a hard week's work. "Only 15 Holstein-Friesian cattle is the black minutes 'till recess," muttered Sammy and white color of their coats. The Brown to himself. "Wish that clock sharply defined and contrasting colors Brown to himself. "Wish that clock snarply userned and would hurry up." Then a sudden idea of jet black and pure white give them of jet black and pure white give them of jet black and pure white give them would hurry up." came to him and up shot a not over-clean hand. "Well, Sammy," asked the teacher, "what is it?" "Please, teach-er," enthusiastically burst forth from the boy's lips, "can't we have a question box after recess?" "Oh, yes, let's do," came in words and eager looks from Sammy's mates. "Perhaps we from Sammy's mates. "Perhaps we can, Sammy," was the teacher's encouraging reply, "I'll think about it between now and then."

When the bell ended recess time,

girls and boys poured into their seats and looked expectantly at their teacher. "Yes," she smiled, "we'll have the question box, so put away your books. Every one of you will write a question in regard to some of our school work, and after you have had 10 minutes to do this, Sammy may pass the box." What a rush for paper and pencils as there was. And when the questions were written and gathered up and 'teacher" began to open them, what a variety of questions had been asked.

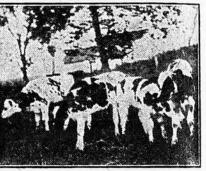
But why go ahead with this little story about a school question box? The Capper Calf club boys and girls are going to have a question box all their own. The box will stand open on the club manager's desk all the time, and it will be up to him to answer the questions. This calf club work is rather new and there will be many things to learn. Study your rules carefully, but as questions come up that you can't solve, write to me about them. I'll send you an answer, and if the question is one that will interest other club members it will be given in the club story, with the answer. Now, how do you like the plan? Will it be a success? It's up to you.

· How many Capper Calf club members know where the Holstein-Friesian breed of cattle was developed? thorities on the subject state that for more than a thousand years the people of Holland have raised black and white dairy cattle. The province of Friesland in Holland and the province of Holstein in the northwestern part of Germany are especially noted for large numbers of these cattle. When Holsteins first were imported into the United States a quarter of a century ago, they were brought under the names of Holstein and Dutch Friesian. They were sold as different breeds for some time, but in view of the fact that all the cattle imported to America are essentially the same, the breeders and importers finally agreed to, call the breed Holstein-Friesian.

dle Western and Pacific sections next ey in cream and milk than in beef in order. With the exception of the cattle. Papa has taken the Kansas

Postoffice

very striking appearance. Altho either color may predominate, black below the knees is objectionable. Pure-



Want a Holstein Like These?

bred animals with any red or gray in their coats are ineligible to registry.

In disposition Holsteins are eventempered and not excitable—in fact, they are rather lazy in their general habits. They are large consumers of feed, especially roughage, and do best when plenty is readily available. The Holstein is the largest of the dairy breeds. From the point of view of milk production they average higher than any other breed. The percentage of butterfat, however, which averages lower than that of any other dairy breed, tends to counter-balance the advantage of greater production.

That's about enough for the Holstein-Friesians. Next week we'll talk about the Ayrshires.

Membership in the Capper Calf club is open to any boy or girl in Kansas between 12 and 18 years old provided membership in some other Capper club is not already held. Only five mem-bers to a county will be accepted, and time for enrollment will end April 1. You may think there is plenty of time to join, but the thing to do is to line up at once, be sure of a place in the club, and be on the lookout for a good place to buy the two calves which you will enter in the contest. These calves must be not less than three-fourths purebred, of the same breed, and must not be valued at more than \$125. Contestants may enter two dairy calves or two beef calves, according to choice.

"Pep" certainly is going to be the password for Capper Calf club members. Both girls and boys are right up on their toes and working to complete membership in their counties. "I'm so glad I got into the club," writes Holsteins have grown greatly in numbers and popularity in recent years, due in a great degree fo the increased demands of large cities for market milk. Cattle of the breed are has no calves coming in the Eastern and Middle Atlantic states, with the Middle Western and Pacific sections next "I'm so glad I got into the club," writes Harriet Boyle of Osage county, "for there are lots of boys and girls who would like to join. I am going to be on the lookout for the calves. As papa will have to buy some. I think I'll get Jerseys, as I believe there is more mondale Western and Pacific sections next

The Capper Calf Club

Capper Building, Topeka, Kan.

Earle H. Whitman, Club Manager I hereby make application for selection as one of the representatives

care and reeding of my concess entry.	- 65		
Signed		Age	
Approved		Parent	or Guardia

Age Limit: 12 to 18

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Farmer and Mail and Breeze for about 15 years, and I read everything in the paper, and of course the club news."

There's going to be a lot of pleasure in getting acquainted and working with the most hustling, ambitious boys and girls in your county. The coupon is waiting to be clipped out, filled in and pailed to the club manager. Rules and instructions will be sent at once. pon't wait, for there may be no place for you when you do apply.

Desire Railroads Returned

Representatives of seven big national farm organizations met in Washington recently to prepare memorials for presentation to President Wilson asking for immediate return of the railroads to private control and the enactment of such legislation as is needed to meet the present conditions. Protests were made against representations that farmers favor continued government control. Adequate production was emphasized in the statement prepared, the assertion being made that the farmers are continuing their efforts to produce abundant foodstuffs but demand that hoth capital and labor do their share in keeping up the production. "We in keeping up the production. "We have reached the critical point in regard to shorter hours of labor and a gard to shorter hours of labor and a 44-hour week will neither clothe nor feed the world," it was asserted. The organizations represented were the International Farm Congress, The National Farm Congress. The National Grange, The American Farm Bureau Federation, The National Farmers' Union, The American Cotton Growers' association and the National Federation of Milk Producers. tion of Milk Producers.

Wool in Suit of Clothes

The wool in a \$60 suit of men's clothing now costs only \$5.25, says Dr. 8. W. McClure, secretary of the National Wool Growers' association. An tional Wool Growers' association. An average weight suit requires about 62 onces of wool. This amount of the very finest wool grown would not cost to exceed \$7. Doctor McClure characterizes as absurd the statement recently made before the National Retail Clothiers' association in Chicago that clothing prices would advance 25 to 40 per cent partly because of advance 10 per cent partly because of advancing wool prices. Whatever may be the wool prices. Whatever in clothing prices, it cannot be charged to the cost of the wool which even at present high prices does not represent more than 10 per cent of the total cost of the suit.

Milking Cows Paid

Fred Stalder of Meade county says that his purebred Jerseys are the bestbying investment on his farm. He has only six cows, but during December the cream sales amounted to \$113.56. During the last nine months the cream produced by these cows sold for \$750. In addition to the immediate return a valuable breeding herd is being devoloped thru the selection of the female offspring. The cows have been given only ordinary care, being fed silage, barley chop and alfalfa hay.

SOMETHING DIFFERENT

A Farm Paper Edited on a Farm

Capper's Farmer, published by piled States Senator Arthur Capper of Kansas, is a farm paper that is different. It is edited on the farm by a farmer and for the farmer. It is published in the heart of the greatest agricultural country in the world. It stands for a square deal for the consumer and profits for the producer thru elimmating grain gamblers, market jugglers, and other trusts and combines. For that great body of American Farmers who live with ideals, who want to be prothere is no such Capper's Farmer. There is a department for the women folks, boys and girls, marketing, livestock, poultry, dairy, field crops, farm machinery, horticulture, health, etc. In addition to the regular editorials, Senator Capper's Washington Comment is one of the most interesting and instructive.

In order to introduce this bright and breezy farm paper to readers of the Ransas Farmer and Mail and Breeze, the publisher agrees to send the paper six months for ten cents. This is a special offer, good for ten days only. You should send in your dime today. Address, Capper's Farmer, 507 Capper Bldg. Topeka, Kansas. You can't afford to miss a single copy.

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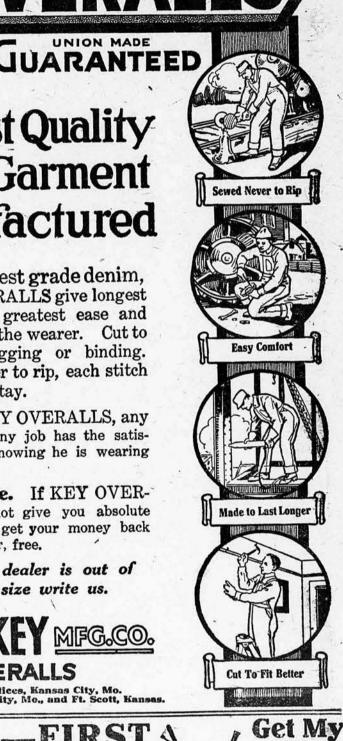
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want to tell you all about these plows and our other implements—Cultivators, Disc and Spike Tooth Harrows, orn Planters, Grain Drills, Mowers, Rakes and other farm tools—all sold at factory prices. Satisfaction uaranteed. Just write a postal for our complete catalog. It's free, Write to me, The Plow Man, with

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You don't have to pay for it—not even the freight. Positively no money required. The man shown in the car answered our ad. Now he's riding in the Buick we gave him. You can get one too. Don't send a cent—just your name and address—that's all. Do it now. A post card will do. I want to send you a dandy auto also.

"I Wasn't Getting An Egg—Now 10 a Day"



"I received your "More Eggs" Tonic and started giving it to my hens. I wasn't getting an egg, now I am-getting 10 a day." So writes Mrs. Ernest Campbell, of Mineral, Va. Any poultry raiser can easily double his profits by doubling the egg production of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents' worth of "More Eggs" and you will be amazed and delighted with results.

Now is the time to give "More Eggs" to your hens, while prices are high and profits big. Don't let your hens loaf; make them lay, "More Eggs" Tonic has done this for 400.000 chicken raisers all over the country. It will do the same for you.

\$1.00 Package

If you wish to try this great profit maker, simply write a postcard or letter to E. J. Reefer, the poultry expert, 5442 Reefer Bldg., Kansas City, Mo., and ask for his special free package \$1.00 offer. Don't send any money. Mr. Reefer will send you two \$1.00 packages of "More Eggs." You pay the postman upon delivery only \$1.00, the price of just one package, the other package being free. The Million Dollar Merchants Bank of Kansas City, Mo., guarantees if you are not absolutely satisfied, your dollar will be returned on request. So there is no risk. Write today for this special free package offer.

Poultry Raisers Everywhere Tell Wonderful Results of "More Eggs"

"More Eggs" a Godsend
I received your "More Eggs" Tonic and found it
was a great Godsend. I was only getting 12 eggs a
day, and now I am getting 50 per day.

"MYRTLE ICE, Boston, Ky.

"More Eggs" Paid the Pastor
I can't express in words how much I have been
benefited by "More Eggs." I have paid my debts,
clothed the children in new dresses, and that is not
all—I paid my pastor his dues. I sold 42½ dozen
eggs last week, set 4 dozen, ate some, and had 1½
dozen left. eggs last week, set a dozen.
dozen left.
MRS. LENA McBROON, Woodbury, Tenn.

The "More Eggs wom 29 Hens
The "More Eggs" Tonic did wonders for me, I
had 29 hens when I got the tonic and was getting
five or six eggs a day. April 1st I had over 1200 eggs.
I never saw the equal.
EDW. MEKKER, Pontiac, Mich.

160 Hens—1500 Eggs." to my hens and I think they have broken the egg record. I have 160 White Legiorns and in exactly 21 days I got 125 dozen eggs.

MRS. H. M. PATTON, Waverly, Mo.

MRS. H. M. PATTON, Waverly, Mo.

\$200 Worth of Eggs from 44 Hens
I never used "More Eggs" Tonic until last December: then I just used one \$1.00 package and have
sold over \$200.00 worth of eggs from forty-four hens.
"More Eggs" Tonic did it.
A. G. THODE, Sterling, Kan., R. No. 2, Box 47.

1368 Eggs After 1 Package
Last fall I bought a box of your "More Eggs"
Tonic and would like to have you know the result.
From January 1st to July 1st my hens laid 1368 eggs.
A. E. WHITE, Scranton, Pa.

Send No Money

Don't send any money; just fill in and mail coupon. You will be sent, immediately, two \$1.00 packages of "MORE EGGS." Pay the postman upon delivery only \$1.00, the extra package being FREE. Don't wait-take advantage of this free offer To-DAY! Reap the BIG profits "MORE EGGS" will make for you. Have plenty of eggs to sell when the price is highest. Send today!



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Dear Mr. Reefer:—I accept your offer. Send me
the two \$1.00 packages of Reefer's "More Eggs" for
which I agree to pay the postman \$1.00 when he
brings me the two packages. You agree to refund
me \$1.00 if both of these packages do not prove
satisfactory in every way.

Name Address

Capper Poultry Club

Fix Your Eye on Your Goal and Determine to Win

BY BERTHA G. SCHMIDT-Club Secretary

as a member of the Capper Poultry club. Imagination is the ability to see things now as you would like to have them in the future. You are beginning the new year's club work with a flock of 20 baby chicks or with a pen of eight hens or pullets and a cock or cockerel. In your imagination is the story:

"Last spring when Ella took off a big bunch of her pretty Rose Comb Rhode Island White contest baby chicks, they were such fine big, fluffy, active fellows that I just fell in love with them, and I said to myself, 'Well I'm going to be a many those see the story: cockerel. In your imagination you see those 20 chicks as 20 full-grown sturdy chickens, or if you are in the pen department you are looking forward to having a flock of 200 or 250 chickens.

Imagine big things for yourselves. But back the picture up with honest effort. It is what we want that we get, if we want it hard enough and are willing to work and to wait for it. Disappointments are bound to come and it requires determination to stick to our resolutions when things go



Nina Hosford of Crawford County.

wrong. But the girl with perseverance succeeds in the long run.

When Edwin Meredith was a boy on an Iowa farm his father gave him a runt pig and told him that with proper care the pig might be raised and sold at a profit. The boy grasped the opportunity and from that moment the runt pig was hand fed, watched over, sheltered and protected. Finally young Meredith sold the pig at a good profit. That was but one of many instances of determination which brought the farm youth from a penniless boy to the office of Secretary of the United States Department of Agriculture and mil-lionaire publisher.

Capper Poultry club girls have set high goals for their year's work. Many of those who won exceptional success last year are laying plans for a big poultry business in the future.

A Goal Reached

When Alma Bailey began work in she was going to make as big a success of her work as her sister, Ella, had made the previous year. Ella won the

MAGINATION spells the difference 1918 and Alma, her twin sister, won in small success and big success. the cup awarded in the club for 1919.

These words of Edwin T. Mere- Alma raised 240 chickens and made a

next year and have some of those fine Rose Comb Rhode Island White baby chicks for my very own.'
"Before long the Capper Poultry club

girls were calling for new members again. Here was my chance. One day when Ella was feeding her chickens I asked her if I could take my pick.

"I penned my birds in the new hen house. Then I got some boxes and an old heater from the cellar to put in the hen house for the nests. The next thing to do was to get some straw for the nests and to put on the hen house floor for a deep litter, so the chickens would have to scratch and exercise for their feed. I then got some good black loam and boxes about 3 inches deep in which I planted wheat for my chick-I got walnut slabs and made

The hen house faces the south and in good weather my birds got plenty of sunshine, but in cold, cloudy weather the hen house was cold. So I got a long piece of carpet and tacked it just above the opening and in cloudy weather I left the carpet down, but on bright, sunshiny days the carpet was

put up.
"I entered my chicks in the contest February 1, 1919. I got three eggs the first day and when mamma set the incubator two days later. I had eight eggs which I put into it.

"I fed my fowls three times a day, giving them a warm bran mash and sprouted wheat in the morning, and at noon corn, feterita, oats and meat. The meat ration consisted of rabbits. In the evening I gave a whole grain ration. Then after the chicks had gone to roost I scattered a light grain ration in the litter so they could have feed early in the morning. They had plenty of fresh water and milk before them all the time. I also kept grit and charcoal before them.

"I did not feed my baby chicks until after they were 24 hours old, for Mother Nature had provided for their first food by the absorption of the egg yolk into the chick's abdomen, just previously to hatching. For the first feed I gave my chicks hard boiled eggs, chopped fine, shells and all, mixed with three times the amount of stale bread. I also gave them angle worms which I dug daily for them. I gave the club last spring she announced that them a little millet seed, finely cracked wheat and corn, and sprouted wheat after they were about 10 days old. I fed my baby chicks five times silver trophy cup for having made the a day. After they were 2 weeks old I highest profit with her contest pen in began feeding them a mixed grain ra-



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Every unhatched egg and crippled chick is a dead loss. SAFETY HATCH positively gets a healthy chick from every fertile egg of normal vitality, if simple directions are followed. Provide your poultry income with

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Built solidly; vibration can't addle eggs. Four-ply walls nearly 2 inches thick have wool felt lining with vacuum air spaces between. Keeps heat at EVEN temperature. Similar in principle to the thermos bottle. Perfect moisture-laden ventilation. Economical heater. Metal bound. ABSOLUTELY FIRE-PROOF. Sanitary; most easily cleaned. Guaranteed.

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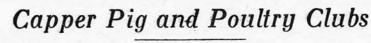
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Capper Building, Topeka, Kan,

Earle H. Whitman, Club Manager; Bertha G. Schmidt, Secretary. Send Pig Club applications to Mr. Whitman; Poultry Club to Miss Schmidt. I hereby make application for selection as one of the representatives

of......county in the Capper

(Write pig or poultry club)

I will try to get the required recommendations, and 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 articles concerning club work in the Kansas Farmer and Mall and Breeze and will make every effort to acquire information about care and feeding of my contest entry.

Signed	Age
Approved	. Parent or Guardian
Postoffice	

tion or prepared chick feed and small potatoes boiled. I gave them this feed until they could eat whole grain. By this time they were good, big birds able to help find their own living. "I want to sincerely thank Mr. Capper for being so kind and thoughtful in organizing the Capper clubs for the boys and girls in Kansas."

Another Prize Winner

In announcing the winners of breed-ers' prizes one which was awarded the first part of July was omitted from the list. Gladiola Bowman of Coffey counist. Gladiola Bowman of Coffey county won the \$10 Buff Orpington cockerel offered by her mother, Mrs. John Bowman, R. 2, Hartford, to the girl raising this breed of chickens whose hers made the best egg record during the penning period. Gladiola's pullets laid 554 eggs during the five months they were penned.

Here's the application blank waiting

Here's the application blank waiting for more girls to fill it out. Linn county now has complete membership of 10 active members and 10 associate members, but one more mother is needed to complete the membership of 10 for the mothers' division. Coffey county ranks second in number of members, having 10 active members, five associates and six in the mothers'

Isn't this cockerel of Nina Hosford's a proud looking fellow? Nina raised Rose Comb Rhode Island Reds for her contest work.

Motor Cars and Civilization

In the score of years which have elapsed since 1900 motor driven vehicles for passenger and freight transportation have passed permanently out of the classification of luxuries into that of necessaries. They have exerted a profound influence on the growth and development of industry and on social development of industry and on social conditions in every civilized country in the world.

It is difficult, for example, to imagine how the world food crisis of 1917, 1918 and 1919 would have been overcome without the use of the tractors which enabled farmers to increase the wheat acreage in this country at a time when farm labor was unobtainable in many sections, scarce in others and hefficient wherever it could be got. The use of tractors enabled the farmers to plow, plant and cultivate the land on which was grown the wheat the world needed.

The breakdown of railway transportation in this country, emphasized by the terrific conditions imposed on the roads by the requirements of a natiou at war and enforced on the understanding of all in the terrible winter of 1917-1918, brought the motor truck recognition as a practicable machine for long hauls with heavy loads and resulted in the establishing of a great number of permanent freight carrying lines. The experimental trains of trucks run by the army under all sorts of weather conditions and over all sorts of roads have shown what the advantages and disadvantages of this form of The breakdown of railway transportages and disadvantages of this form of transportation are, and their records are available for the guidance of private car owners and operators.

What engine driven trucks and pastenger cars have meant in the develop-ment of property in the neighborhood of large towns, but once inaccessible because of a lack of transportation, is a matter of common knowledge to every edizen of the country. Market gardeners can carry their produce to town in any weather and in a short time; city there are a state of the country there are the country than the country there are the country to the country the country the country the country that the country that the country thops can deliver goods expeditiously; manufacturers can obtain supplies and fill orders; the affairs of business and focial life alike can be expedited by means of the modern automobile.

New Chief of Markets

George Livingston, a native of Ohio, succeeds Charles J. Brand as Chief of the Eureau of Markets of the United States Department of Agriculture. Mr. Livingston has been Acting Chief of the Bureau since July 1, when Mr. Brand resigned. He was educated at Ohio State University, Cornell and the University of Halle. He was farm Peared and has been connected with a hamber of agricultural colleges and ex-Periment stations. For a number of lears he has had immediate charge of federal grain supervision under the United States Grain Standards Act and has had general supervision over all of the grain and hay marketing aclivities of the bureau.

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KANSAS FARMER AND MAIL AND BREEZE

Averys Are the Tractors with the "Draft-Horse" Motor and "Direct-Drive" Transmission

HEN you get an Avery, you get a tractor with a motor especially built for tractor work, and exclusively for Avery Tractors. It is built like a draft-horse for the kind of work a tractor must do. Powerful, heavy duty, low speed—does not race under light loads or stall under heavy pulls.

It is a horizontal opposed motor improved and perfected with many exclusive Avery features. Its length distributes the weight properly between the front and rear wheels. Its narrow width makes possible a narrower tractor with less side draft. Also a short, heavy, practically unbreakable crankshaft—requires only two main bearings—always in perfect alignment—quickly adjustable with an ordinary socket wrench.

It is built with five-ring pistons, thermo-siphon cooling system, valves-in-the-head, renewable inner cylinder walls, and gasifiers that turn the kerosene or distillate into gas and burn it all.

Because of its low speed the power of the Avery "Draft-Horse" Motor is delivered through

The Avery Patented
Sliding Frame Transmission
giving "Direct-Drive" in high, low, reverse, or in the belt.
The belt pulley is mounted right on the motor crankshaft.
You get a larger percentage of the power developed by
the Avery "Draft-Horse" Motor at the drawbar, and all
the power in the belt.

These and other big features make Avery Tractors run steady, economically and last a long time. These are some of the reasons why Avery owners are buying their second, third, fourth and even sixth Avery Tractors. They are easy to operate, even by the inexperienced. Avery prices are based upon the big output of three large Avery factories and the low selling cost of the complete Avery Line.

The Avery Line

includes tractors for every size farm. Six sizes, 8-16 to 40-80 H. P., with "Draft-Horse" Motors and "Direct-Drive" Transmissions. Two small tractors, Six-Cylinder Model "C" and 5-10 H. P. Model "B." One and two row Motor Cultivators, "Self-Lift" Moldboard and Disc Plows, Listers and Grain Drills, "Self-Adjusting" Tractor Disc Harrows. Also roller bearing Threshers, Silo Eillers etc. Fillers, etc.

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13 pans headed by cockerels
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hatching, rearing, feeding and disease information.
Describes busy Poultry Farm handling 53 pure-bred
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Conservatively rated at 22-40 h.p., with a substantial margin of excess power in reserve; a characteristic of all CASE tractors. Standardized in design along the same lines as the familiar Case 15-27 and 10-18 Kerosene Tractors, with such modifications as are necessitated by its greater dimensions and power.

The new 22-40, with all the simplicity of operation and adjustment of the smaller sizes, is offered as the ideal tractor for big capacity, where the utmost dependability is equally essential with power.

Will drive a Case 32x54 Thresher, with windstacker, feeder and grain handler; will handle a No. 20 Case Ensilage Cutter with 40 feet of blower pipe attached; will pull four 14 in. plows in hard ground, or five plows under favorable conditions; will pull a battery of grain drills, or a pair of 8 ft. road graders, or other loads requiring similar power.

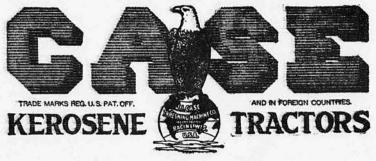
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NOTE: — We want the public to know that our plows and harrows are NOT the Case plows and harrows made by the J. I. Case Plow Works Co.

Weeks Financial News

ousness of the tight money situation, and Mail and Breeze, Topeka, Kan. Now, all markets are showing great appreciation of these serious factors. To some producers and dealers they are a surprise, but they should not be to the readers who have followed the discussions in this department. Foreign exchange and money market events loom high in the business of America. They are affecting and promise to continue to affect the revenues of farmers and stockmen. And they are going to be felt by the consumers in cities. No class will es-Prices of stocks have been declining

because there is strong evidence of the beginning of a sharp decline in buying of food, manufactures and other products by Europe in the United States. There is also evidence of larger selling here by Europe. Wall Street has scented this change. It is bearish because this change means lower prices for American products, less competi-

Changes in Business

Financial markets point to new conditions in American business. A slump in stocks means discounting of changes to a period of less prosperity and lower prices. These changes are being brought about by depression in foreign exchange and tight mon-The pocketbooks of all, including farmers, stockmen, laborers and merchants in cities, are affected. The influences emphasized in the financial department of the Kansas Farmer and Mail and Breeze for many weeks as pointing to present vital changes are now receiving general attention in the United States.

tion for our goods and more offerings to compete in our own markets from

Europe. Look at the latest rates on foreign exchange: The German mark is worth only a cent, the English pound only \$3.20, the Italian fira only 5 cents and the French franc only 6 cents. Before the war the mark was worth 23.8 cents, the pound \$4.865%, the lira 19.3 cents and the franc 19.3 cents. Now, bear in mind that the reserves of the twelve Federal Reserve Banks were only slightly above the minimum of 40 per cent which the Federal Reserve Board plans to maintain against the deposits and the Federal Reserve notes of these institutions. With lessened buying by Europe and with money tight, it is extremely difficult to put prices up in livestock, grain, copper, cotton, steel and other markets. This makes the position of stocks bearish. And it will in the end make bonds which are strongly secured the best possible investments.

Financial Markets React

The Fourth 41/4 per cent Liberty New York stock exchange. Karange Bonds have sold below \$90. Many busi- City has two houses with members ness men and others unable to obtain on the New York stock exchange funds on money markets are selling will buy these shares for you at a the bonds. This is the reason for the mission of 15 cents a share. A declines. So long as money is tight, mon stock is a share in a company the prices probably will remain weak. But when money conditions improve, the bonds will advance. Think of get-ting \$4.25 a year on a United States government Bond which costs \$90 and which is tax exempt! What a bargain! But prices may go lower. Some day, however, they will advance sharp-Other bonds are also at bargain levels. There is not yet, however, in sight a turn for the better in money markets.

Questions and Answers

nancial investments are urged to send can buy Fourth 41/4 per cent Liberty Farmers who desire information in

OR WEEKS it has been pointed in their inquiries to this departmen out in this department of the Kansas Farmer and Mail and Breeze charge. The editor in charge of this that depression in foreign exchange was a serious matter to perts in the United States. Addres all farmers. Recently, too, this all communications to Sanders Sos department has emphasized the seriland, Financial Editor, Kansas Farme and Mail and Breeze. Toroka Kansan Mail and Breeze. Toroka Kansan Mail and Breeze.

Canadian Bonds

Canadian Bonds

I contemplate the purchase of a new of Canadian Provincial Bonds. Door of Canadian Provincial Bonds. Door funding of a previous issue mean the previous issue has come due and the ince wishes to extend the time of particular of the principal and put out a refund practically a new issue? Why are bonds quoted at 97 in Canada and New York? I can't see why United money is worth more than Canadian Canadian seliers tell me they expect able to deliver me interim bonds son then the definitive bonds. What meaning of definitive and interim bor meaning of definitive and interim bor

A volume might be written in swer to the foregoing questions. The are interesting questions, and desergoing serious study. First, your idea as the refunding issue is correct. Canadian province wants to refun pay off the old loan by putting of new one, called a refunding issue the day this question was received February 5, Canadian exchange at a discount of 18 per cent in York, a new low. This means a Canadian dollar is worth 82 cents in American money in York, Why? Inflated condition Canadian currency along with flation in England. On the same the English pound was at a dis-27 per cent in New York. This plains why the New York priquoted lower. If the Canadian makes allowance for the premiuthe American dollar in Canada. you could buy at equal figurethe benefit of other readers, pern to say here that this situation reason why Canada has been shi an unusual number of cattle United States. An interim bond temporary bond or certificate issue the buyer pending the printing of permanent or definitive bond. bonds are brought out quickly when the money market is most couraging for their sale. To print permanent bonds requires much especially with enormous issuenew securities put out the last So, interim bonds are issued, which simple, until the definitive or penent bonds are printed. The interest of the bonds entitle the buyer to the tive issue and bear the same in and are also transferante. Make that these bonds are payable in cipal and interest in American for, if not, every Canadian interest you get will be worth 82 cents on the present basis in A can money. I will be glad to an other questions as to your proinvestment. I wish to be helpful the readers of The Kansas Farm Mail and Breeze.

Santa Fe Stock

Kindly advise me where I can get of Atchison, Topeka & Santa Fe on What is the meaning of common as in relation to shares? Do you know other safe investments for a widow lending on notes, I find that the landing that it leaves me only 4 per central MRS.

The shares of Atchison, Topel Santa Fe common are bought New York stock exchange. a given par or fractional partner interest with no limit as to its re as a rule. The common stock re dividends after the preferred, the P ferred also being preferred as to asst The Atchison has outstanding Section 1 138,000 of common stock of a par \$100 and \$124,173,700 of 5 per cent preferred stock. The common is paying 6 per cent. The preferred receive dividends before the common after the interest is paid on the be indebtedness, while the dividend For a widow no investment excels i erty Bonds and the strongest KansaBonds at \$90 for the \$100 denominations. This means \$8.50 from an investment of \$180 which in your instance would be tax exempt under the state and federal tax laws. Some day the Liberty Bonds will again sell at par, or \$100. You can get Kansas municipal bonds close to a 5 per cent basis that are tax exempt in Kansas and under the federal income tax law. and under the federal income tax law.

Foreign Exchange

I wish your opinion about the possibilities of making money in buying foreign exchange. French francs or Italian lira and German marks. W. C. S.

Purchases of foreign exchange are so Purchases of foreign exchange are so highly speculative that I would not favor making them at this time. Foreign exchange is still weak. If you decide to speculate, buy French city or Italian city bonds, as these are considered safer than the internal government bonds of these countries. We have started on a reaction in business. have started on a reaction in business, with a downgrade of prices, and I think this an inopportune time to speculate on the buying side at least. Follow this department, and you will be advised when the foreign exchange situation begins to look better.

Select Good Garden Seed

It is time to do garden-seed shopping. The seed catalogs are out and the prospective gardener now has time to make his plans for next spring's work. For the market gardener the market will decide what vegetables to grow. The home gardener has the mastes of the members of his family to meet. Home gardeners seek to supply the table the year 'round with freeh meet. Home gardeners seek to supply the table the year 'round with fresh, stored or preserved vegetables. To do this they must first make a forecast of a year's vegetable demands, taking into account the seasons of those veg-ciables that may be served fresh and chables that may be served fresh and those that will bear storing and preserving. Then they must secure data from which to estimate how much may reasonably be expected a foot of garden row or a square foot of garden of any yegetable. Having this information the gardener will know how much seed to buy when he makes up his order.

The next step in spring garden

The next step in spring garden plans is putting the rows into the garden. This is as fascinating as a game, den. This is as tascinating as a game, and as frequently disappointing, for garden area cannot be stretched indefinitely, although even a small garden may become surprisingly elastic in the hands of one adroit in arranging "companion" crops properly, and in utilizing "succession" crops correctly

Where to go for seed and what varicies to use will give some concern. There are good seedsmen and others not so good, and there is cheap seed and some that is quite expensive. Extravagant claims for novelties and prize packages may be taken with a grain of salt. However, new varieties of exceptional value are sometimes found by trying out on a small scale those comparatively unknown. This may be done without risk if known strains are depended upon for the bulk of the crop. of the crop.

Paint Pays for Itself

It is false economy to be too sparing with paint, says H. B. White, of the arcicultural engineering division of the Minnesota University. Lumber is expensive. Paint improves the appearance of buildings, but more than that, it adds materially to their permanency. Once the building is neglected it is much more difficult to stop the deteri-

Mr. White says the surface to be Balmed should be dry, clean, smooth, and free from frost. It should be dry and clean, for oil will not penetrate there is moisture or grease. It should be smooth in order that an even coat may be easily applied. It should be warm enough to permit the oil to penetrate and bind the pigment to the surface painted. In considering the cost of painting it is often estimated that a gallon of paint will give two to 250 square feet.

machinery, too, looks better painted and it lasts much longer and sives more satisfactory service if bainted before the wood has checked or decayed.

Cabbage keep well wrapped in newshaper and turned bottom side up on shelves in a cool cellar.

The country's biggest rancher what he thinks about the packers

Robert J. Kleburg is manager of the "Million Acre Ranch" in Texas. He keeps about 40,000 breeding cattle. The following is from his remarks made recently before a committee:

"Their (the packers') business prospers most when they have an ample and regular supply of live stock from which to draw.

"It therefore follows, as a matter of course, that it is to the interests of the packers to foster, not to hamper, live stock production. In order to do this they must pay the producer of live stock a fair price for his products, so that he, the producer, may be enabled to stay in business.

"I therefore contend and believe that the producer of live stock who conducts his business properly has nothing whatever to fear from the packers. He needs the packers to prepare his product for the market and to distribute it.

"Without the aid of the packers the production of live stock could not exist as an industry.

"I can well remember when there was no real market for live stock in the part of the country in which I lived -southwest Texas.

"In those days we drove the steer to the butcher's The butcher would slaughter him, throw away the head, horns, hoofs and other offal, and give the producer credit for so much meat at his shop. All of this waste is now saved and marketed. * * * *

"I believe that when a business is as big as the packers' business, that business has to be conducted properly and on business lines and on principles of fairness to the public.

"I do not believe they can afford in their own interests to conduct their business in such a way that it injures the great mass of people with whom they do business. * * * *

"Nor do I believe that the packer can control the law . of supply and demand."

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rant. Carnation—Perpetual bloomers. Sweet William—Varied Colored bloom. Marigold—Flowers of gay colors. Cosmos—Daisy-like flowers.

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to drill—all you need is a wreather.

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A-C BRAKES Money in Small Orchards The Best Means

The Midwest Faces a Great Fruit Shortage

BY GUY V. HOLSINGER

the present time. The production show how this work was put into effort in most sections of this terrifect a farmer living southeast of Destory is way below what it should be. Moines, had a 10-acre orchard that Practically no orchards have been set never had produced enough apples to out during the past 10 years. As late make it profitable. The owner had as the winter of 1909-10 thousands just about decided to get rid of it by of acres of fine orchards and of the best varieties were cut out. In addi- land to other farm crops. Hearing tion to this thousands of acres of orchards have died from disease and neglect, and have since been removed. At the present time it is doubtful whether the Middle West has 50 per whether the Middle West has 50 per he decided to go home and put into cent of the trees that it had 15 years practice some of the things that he ago. One has only to note the present saw demonstrated. This was in the condition of most farm orchards to be spring of 1913. Since that time the convinced that it is high time that a lot of planting be done.

Trees Need Good Care

Many of the college extension horticultural men have felt heretofore that it was quite important to show farmers and fruit growers that the orchards that they now have are valuable and worthy of the necessary care to make them profitable. Because of the lesser importance of the orchard as measured by the other farm activities the average farmer has been disposed to neglect his trees. Too many farmers have been inclined to use the orchard as a sheep or hog pasture, and if in addition to pasturing thus obtained some fruit was produced, it was that much clear gain.

Professor R. S. Herrick came to Iowa a few years ago from Colorado. He the orchard the net returns would have realized that if the apples were pruned, been considerably more. sprayed and given such other cultural methods as might be required the orchard would be the most vatuable part of the farm. It was at first difficult to convince the farmer that such was the case. Here and there in various parts of the state owners of small orchards were persuaded to buy small spraying outfits and spray their trees. Professor Herrick's idea was not so much the telling of people how the work should be done, but actually going into the orchard and spraying a definite number of trees from 50 to 100 in the way that he felt that the work should be done.

It is well to state here that practic-

ally all the orchards sprayed are farm orchards varying from 30 trees or 1 acre, and up to 4 or 5 acres in extent. Nearly all the commercial orchardists already knew that they must spray in order to make a profit, therefore, little time was given to them.

Co-operation Brings Results

The average farmer knows little about entomology or botany, and therefore, does not realize the importance of applying the spray mixture at the proper time. Furthermore the farm orchard had been anything else but a profitable venture. It required from \$25 to \$50 to buy a hand outfit large enough to spray a farm orchard of 30 to 100 trees. Spray material costs ran from 20 cents to 30 cents a tree plus the cost of labor for applying the same. Because of past experiences the average farmer was not very enthusiastic in putting \$100 into something that heretofore had been a failure so far as financial returns were concerned.

Professor Herrick found here and

there in every community some of the

THE MIDDLE WEST is facing a results were so satisfactory that the removing the trees and devoting the that a spraying demonstration was to be held in an adjoining county he traveled 30 miles to see it. He was so impressed with the possibilities that orchard has netted more than \$100 an acre each year. In 1918 the gross sales were \$6,000, of which \$4,000 was above cost of production. The crop of apples in 1918 made more clear profit than the rest of the 240-acre farm. The owner is now increasing his planting instead of cutting out the trees

> At Clear Lake a renter of a farm found that the orchard of 4 acres was an incumbrance. He therefore re-rented the orchard back to the owner of the farm for \$7 per acre. A small power outfit was obtained and the orchard sprayed four times. In the fall of 1918 the crop netted over \$1,600, and with equally good results in 1919. Had the owner been living on the farm where he could have given a little closer attention to the management of

Farm Bureau Helps

great factor in making the spraying of the farm orchard such a success in Town has been thru the influence of the Farm Bureau. As near as we can find out less than 400 men were spraying in Iowa prior to 1915. In 1919, 2,342 orchards were sprayed and we are reasonably sure that more than 4,000 will be sprayed in 1920. It is estimated that there are 25,000 farms in the state with orchards ranging from one half acre in size upward. One can readily see that it is no small job to educate the public up to the point where all of these will oe given proper care and attention.

That it will pay to do so there can be no question, for the trees sprayed during the past four years made a net average gain of \$7.83 a tree over those that were not sprayed. The actual cost for spraying—including spray material, labor and depreciation on machin-ery, was less than 60 cents a tree. The whole thing resolves itself into this, the man who has an orchard and takes care of it has apples to cat from August to April, and with a surplus to supply the neighbors. Many persons contend that they would rather buy their supply than raise them, but the fellow who has to buy at \$2 to \$3 a bushel is not going to consume anything like the quantity that he would if he had a supply available.

So far it has been Professor Herrick's

policy to get farmers and orchardists to care for the orchard that they already have, rather than encourage the planting out of more trees. He does feel that no farm is complete that does not contain enough fruit trees suitable to the country in which the farm is lofarmers who were willing to co-operate cated and in quantities sufficient for and with practically no exceptions the home use. This will require from 25

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With an orchard of this size a small hand power sprayer can be used. One should hesitate in planting an orchard should hesitate in planting an orchard of 2 or 3 acres for the reason that it does not fit into the general scheme of things as managed on the farm. If one is interested in planting a commercial orchard it should be large enough to become one of the major activities of the farm. This will mean that the farmer should plant 5 or more that the farmer should plant 5 or more acres and will thus enable him to use a power sprayer rather than a small hand pump when the trees are ready

succession so as to make the producing season last over as long a period as possible. The following suggestive list will convey what the writer has in mind. Most of these varieties do well in the northern half of Missouri and Kansas and the southern one third of

This list should include two trees each of the following apple varie-ties: Oldenburg, Yellow Transparent, wealthy, Delicious, Grimes, Jonathan, Taliman. To these should be added six Winesap and six York apple trees. The orchard also should contain two trees each of Richmond, Montgomery and English Morello cherries; and two and English Morello cherries; and two trees each of Dawson, Wild Goose, Burbank, and Hanson Hybrids. The Waneta and Hanska are especially recommended of the Hanson Hybrids. Two trees each of the following kinds of pears will be found desirable: Kieffer, Berkett Seedling, Garber. In the pener lettings 12 to 20 neach trees the proper latitude 12 to 20 peach trees should be added.

This list of fruit includes some of the best varieties of apples, plums, cherries, and pears that do well in this section of the Middle West. The list is by no means complete for there many other good varieties. Individual preference should guide one in selecting his list of trees and small fruit, but at the same time he should thoose from those sorts that have done well in the community, or else those that have been approved by the state horticultural society or the experiment station of his state.

On the other hand if one chooses to plant a small commercial orchard, he pant a small commercial orchard, he should not plant too many varieties. Probably four to five of the proved and established sorts are all that should be planted.

There is no question but what the Middle West is in great need of men

Middle West is in great need of men who are willing to plant more orchards. If given proper care and attention there are few phases of agriculture that offer financial reward as will a well kept orchard.

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A Real Farm Home

home Mr. and Mrs. Hays decided to If you do not produce what you need lave it wired for electricity and stacked for furnace heat so that when they were ready to install these two farm home conveniences it would not be necessary to do any remodeling of have or suffer.

llays home are most attractive with can to care for themselves and their their hardwood floors and tinted walls. own.

The color scheme used is that of the tans and browns. The draperies in the with an orchard of this size a small as do the rugs; this color blends nicely with the brown and tan background.
The fumed oak, brown wicker and
brown leather upholstered furniture
give a most restful atmosphere to the

Mrs. Hays and the neighboring ladies are just now in the first steps of the organization of a Community Homemakers' club. In planning the type of club that would be most beneficial to them, they decided that they wished to study all of the subjects that have to do with successful homemaking. to be sprayed.

For the home orchard the grower should include varieties of apples, peach plum and cherry that ripen in succession so as to make the producing feel that to be 100 per cent efficient in the art of homemaking they need to have a complete knowledge of every-thing that in any way touches home life. And so they intend to include in their course of study along with cooking, sewing and home nursing, the balancing of meals, some work in cos-tume and design; and the study of good pictures, books and magazines.
They desire also to study good music.
In taking up these subjects they wish to study the lives of the authors, composers and artists so that when they buy music, books or pictures they will know by the name of the producer whether the one in question is classed with the best that can be obtained.

Plan to Produce a Living

Much is to be said against farmers scattering their efforts over a whole lot of things while trying to make the land produce all of the living for the family. When all of the land is in wheat, for instance, cows and pigs and chickens and a garden may not be worth the effort when conditions are normal. It depends upon individual temperament.

But conditions are not normal now. They may get much worse before they get much better. A reasonable return to the ancient ways of agricultural self-reliance and independence will at least not be unsafe. Old-timers who homesteaded their claims know how it is done. Some of them still do it. All of them can do it again and show others the way.

The family which has milk and butter, poultry and eggs, and some hams, shoulders, bacon, and lard stored away, can stick it out a long while. There is not a farm in Kansas on which all of these things are not possible. Potatoes, sweet potatoes, beets, turnips, carrots, parsnips, cabbage, and tomatoes may be grown on nearly every farm in Kansas every year. A little irrigation may be needed to get by with them sometimes, but not much.

Time spent in the production of these

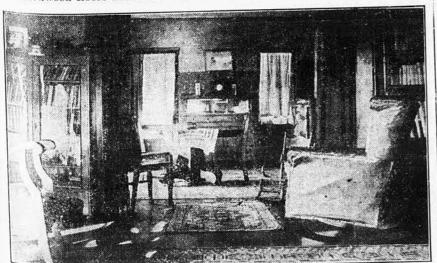
BY MRS. IDA MIGLIARIO

One of the attractive farm homes of Meade county is that of Mr. and Mrs. C. J. Hays. When building the new home Mr and Mrs. The state of Mr. and Mrs. The state of Mrs. The state of

be necessary to do any remodeling of have or suffer.

The house.

The living and dining rooms of the pliffed if farmers will do all that they place the place of the place of



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A Good Rotation Pays

WHEN A man uses a good rotation he can increase his crop yields and the farm profits easier than in perhaps any other way. the farm profits easier than in perhaps any other way. This fact is recognized generally by most of the leading farmers in Kansas, and it has been well shown by the experiment station work. It is especially important to get a rotation that includes a considerable place for the legumes such as alfalfa, clover or cowpeas.

At the Kansas Experiment station at Manhattan, where corn has been grown continuously for eight years, the yield of corn in 1917 was 17½ bushels an acre. In a simple rotation of two crops of corn and one of wheat the yield of corn was 22½ bushels, an increase of 5 bushels an acre. In the same rotation where cowpeas were sown after harvesting the wheat and plowed under in the fall before frost, the yield was increased to any bushels an acre. On a field that grew alfalfa four years, corn two years, wheat one year, and then corn again, the yield was 45 bushels, an increase over the ground on which corn had been grown continuously of 271/2 bushels an acre. This great increase in yield was due in a great measure to the beneficial effects of alfalfa.

Quite naturally a rotation is easier to work out in Eastern Kansas than in the Western half of the state for one does not have to contend with so great a moisture limitation—and it is bad enough some seasons in Eastern Kansas. But one can follow the principles of crop rotation as closely as his local conditions will permit. He should try to include a legume, a cultivated crop such as corn, potatoes or kafir and a grain crop such as wheat or oats. Just the way these crops are combined will of course ever be the problem of the individual farmer. Certainly the most used rotation in the United States of corn, oats, wheat and clover is a good one where the local

conditions are adapted to its use.

Fortunately the Kansas State Agricultural college has obtained a siderable fund of information in the co-operative work in crop production has been done over the state. You can obtain complete information in the co-operative work in crop production which has been done over the state. in regard to the results with rotations in your section if you will write to L. E. Call, professor of agronomy, Kansas State Agricultural college, Manhattan. In every case a good rotation has produced a large increase in re-

Farmers Busy Planting Crops

BY JOHN W. WILKINSON

Farmers in every part of Kansas are busy planting and making preparations for their spring crops. Ground that has not been prepared previously is being plowed in many localities when weather and soil conditions will per-mit this work to be undertaken. This year farmers are studying market conditions and demands more closely than heretofore and these things will influence them greatly in making up their minds about the kinds of crops and livestock that will be handled.

Price Situation in Nutshell

The level of prices paid producers of the United States for the principal crops increased about 4.5 per cent during December; in the last 10 years the price level increased in like period about 2.2 per cent. On January 1, 1920, the index figure of prices was about 18.9 per cent higher than a year ago, 12.3 per cent higher than two years ago, and 84.7 per cent higher than the average of the last 10 years on January 1.

The prices of meat animals-hogs, cattle, sheep, and chickens—to producers of the United States decreased 2.9 per cent from November 15 to De-

Food Products Advance

From December, 1918, to December, 1919, 19 foods increased in price, as follows: Onlons, 108 per cent; prunes, 53; coffee, 51; raisins, 48; potatoes and granulated sugar, 34 each; rice, 27; canned salmon, 16; flour, 15; strictly fresh eggs, 11; storage eggs, 9; butter, 7; fresh milk, 6; bread, 4; cornmeal and cheese, 1. Ten articles decreased in price, as follows: navy beans, 21 per cent; plate beef, 18; bacon, 14; chromatic points of the control of the contr

From December, 1913, to December, 1919, six foods increased over 100 per cent, as follows: Rice, 103 per cent; cornmeal, 113; lard, 121; potatoes, 126; flour, 141; granulated sugar, 169. Eighteen other foods increased 50 per cent or over, with the exception of tea,

Increases ranged from less than tenths of 1 per cent to 5 per cent

From December, 1918, to December, 1918, the increases included: Minolis, 14 per cent; Omaha, 12, ambile, 10. Baltimore decreased Since 1913 increases were in Richmond and Providence, 10 cent each; Buffalo, 101; Atlanta Charleston, Memphis and Minner 105 each; Detroit, 106; Omaha and Birmingham, 109.

Reports from various parts of state show some improvement of condition of winter wheat who other sections there has been but change. All agree that a good snow at this time would improwheat situation very materially good acreage of oats and also of wheat will be sown in those or adapted to the growing of wheat. Local conditions over the are shown in the following count ports:

Atchison—The past week has been and cloudy with frequent rains. Rovery muddy and bad, as frost is out of the ground. Early sowing of is satisfactory, but late sowing does it very well. Hay is plentiful, and good deal of shock fodder still is field.—Alfred Cole, Feb. 7.

Barton-Wheat needs moisture, is pleasant, and farmers are doine odd jobs.-Elmer Bird, Jan. 31.

odd jobs.—Elmer Blyd, Jan, 31.

Brown—Weather is damp and dable. We have plenty of feed for it Corn is high and scarce and not made being fed. Cattle self well at sa horses bring better prices. When in excellent condition. The amount ture thus far for the winter is below Wheat is \$2.30; corn, \$1.38; oats, 90, 40c; cream, 56c; hogs, \$14.—A. C. berg, Feb. 6.

Chevenne—Three and one-half to

Gray—Weather is pleasant with a cloudy and foggy days. It is good on wheat pasture. Moisture for who be very beneficial. Nearly all threshing has been done, and the very good. Influenza is prevalenced and the series of \$2; barley, \$1.—A. E. Al Feb. 7.

cent or over, with the exception of tea, 27 per cent, and plate beef, 43.

In all but four of fifty cities the average family expenditure for 22 foods increased between November 15 to December 15. The decrease, in Fall River, Boston, Norfolk and Richmond, was less than five-tenths of 1 per cent.

ewi.; hens, 26c; kafir and malze, ewi.; hens, 26c; good beef by the 15 to 18c.—W. H. Brown, Feb. 7.

—Weather is cloudy and foggy, have plenty of moisture for wheat, rebeing held daily and livestock and prices. Pigs and brood sows are aree and high priced. Nearly all are going out of hog business, rices are lower. Butter is worth 4. 42c; potatoes, 90c a peck; apples, \$3.—H. W. Prouty, Feb. 6.

\$3.—H. W. Prouty, Feb. 6.

ell—Wheat is in good condition, but
would be beneficial. We had a
hower this week. Livestock is doing
there is plenty of feed, and some
asture. Farmers are plowing and
their spring work. We are getting
of grain cars now. Wheat is \$2;
17.70; kafir, \$1.70; butterfat, 54c.—
Tegarden, Feb. 7.

on-Weather has been cloudy and he last week, and frost is nearly out and. Many public farm sales have eld. Stock looks well, and feed is Corn is worth \$1.50; wheat, \$2.30; c; hogs, \$13.50 and \$14.—F. O.

see; hogs, \$13.50 and \$14.—F. O. Feb. 7.

Feb. 8.

Feb. 8.

Feb. 8.

Feb. 8.

Feb. 8.

Feb. 8.

Feb. 9.

Feb. 10.

Feb. 10

Lincoln—We had a good rain February 3 and 4, but weather cleared up warm. Wheat hould show up soon. Farmers are getting kady for oats and barley sowing. Public also are getting more numerous. Mules sell igh, and prices for horses are improving. Ko cattle are on feed. Eggs are 42c.—E. J. Walker, Feb. 7.

alker, Feb. 7.

Linn—Weather is warm and damp, and round is in good condition for plowing but from it is in good condition for plowing but we farmers have begun the work. A few less have been held, and everything sells the specially cows and mules. Stock is intering well. A light form of influenza is prevalent here and some schools are lessed. There also is some diptheria and samps in the county. Farmers are getting p wood and cutting hedge. Some oil drills p wood and cutting hedge. Some oil drills to being worked, with no great success as et.—J. W. Clinesmith, Feb. 7.

tc.—J. W. Chinesmith, Feb. 1.
Logan—Weather is pleasant and there is being of moisture in the ground. Livestock in good condition. Wheat is satisfactory. Cream is worth 52c; eggs. 45c; corn. \$1.15; barley \$1; oats, 80c; cane seed. \$1.—T. J. Daw, Feb. 6.

Marshall—We are having excellent weather having early spring is predicted. Not much leaving for oats was done last fall, as it therety is disked in corn ground. Wheat had showing up as it should. Sales are since held every day, and everything sells got had not as high as last year. Not such had is changing hands. Corn is \$1.45; deal 2.50-to \$2.65; milet, \$2.10 to \$2.30; ets he; butterfat, 56c; eggs. 42c; hens. \$2.50 ings. 22c; shorts, \$3; bran, \$2.25.—A. highliberg, Feb. 2.

wateries, zac; snorts, \$3; bran, \$2.25.—
peliberg, Feb. 2.

waterie—Wheat has begun to show
he last few days. Weather is cold
y, and frost is nearly out of ground.

etock wintered well, and we have
feed. Some land is changing hands
heed prices. Corn is up, and hogs
yellow the state of the state of the state
high. We have been held every
defined by the state of the state
high. We have a great many inlasses.—F. E. Austin, Feb. 7.

We have had a good rain, and
greening well. Grass has started
Many farmers are disappointed
outlook for wheat, however it is
to tell how it will turn out. We
for the warm weather as it saves
here still is some corn in the field.
he wheat is being hauled to market.

The state of the st

chart, Feb. 7.

"c—Weather had been pleasant, and re getting better again when the region of the severything with ice. The ice is ow, and roads and fields are very firewing wheat does not seem to ted. Many farm sales have been high prices have been received. are shipping much alfalfa hay to lity. It brings \$20 to \$28 a ton; \$1.25; corn, \$1.35; oats, \$0c; eggs, orfat, 60c; hogs, \$13.—E. L. Shep-7.

We had a good rain this week, ther has been cloudy, foggy and ce. It is very beneficial to wheat, doing well. Farmers complain of the of cars to move wheat. Much and influenza is prevalent here, and one case of smallpox.— Mrs. M. Feb. 5.

Weather has been changeable, with Prospects for wheat are good. Some wheat to be threshed yet plentiful. We have a great deal of the but there is not much demand theat is \$1.60 to \$2.30; corn, \$1.25 oats, 90c; kafir and feterita, \$1.25 -C. C. Cross, Feb. 2.

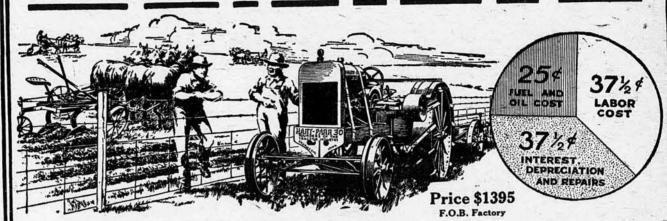
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Three items enter into the cost of farming with a tractor-(1) labor, (2) interest, depreciation and repairs, (3) fuel and oil. If you have a tractor that plows only seven acres a day, and the operator's wages are \$5.00, then that's 71 cents an acre. If your tractor will plow eleven acres a day, the operators hire is but 45 cents an acre. The tractor that cuts labor cost to the minimum is a big advantage particularly in these days of high wages.

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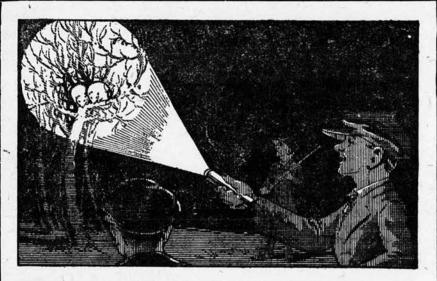
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BOYS! BOYS! Here's Your Chance

Use Your Flashlight Whenever You Want To

What would be nicer these cold winter evenings when you are out what would be incer these cold winter evenings when you are out setting your traps, skating, or coasting down some big long hill than to have a reliable flashlight that you can call your own? Wouldn't it be more enjoyable when you go out for an evening's outing, skating, coasting, etc., with your boy and girl friends to reach up on the shelf and get your own flashlight instead of borrowing your mother's or father's? How often have you been out in the evenings enjoying yourself when some little thing went wrong that spoiled your evening, and which could have easily been fixed in the dark if you only had a flashlight?

Make Your Batteries When You Need Them

The beauty of our Flashlight Outfit is, if some night you have had a little hard luck, and have had to burn your flashlight until the battery was exhausted, you can immediately make a new battery in just a few minutes' time. You won't have to wait until the next day to go to the store for a new battery—you make your own. It is so simple that a boy or girl 10 or 12 years old can make these batteries by following the instructions. It's great fun to make these batteries, and when you get one of the outfits, invite your neighbor boys and girls over some evening and surprise them

by showing what you can do. You can make a battery absolutely fresh, full of life and power which will give a brighter light, and a longer lasting light than the battery you buy at the store. Be the first one in your neighborhood to get one of these outfits, and you will always have a crowd of your friends watching you make these batteries. They will think you are a genius—you will be envied by all of them. It's so simple they will all be wanting you to show them how it is done. You will be considered a wonder when it comes to making your own battery with our outfit.

Why You Should Make Your Batteries Here Are the Reasons:

The life of a battery depends upon its age. The minute a battery is made, chemical action caused by the combining of different elements, starts. Deterioration begins, and the term of the battery life is definitely fixed. With ordinary batteries, if you are fortunate enough to secure one fresh from the store, you secure a battery of usefulness—but never 100 per cent—some deterioration is sure. Our MAKE-

UR-OWN outfit comes "knocked down," ready to assemble in a jiffy, and here is the big point. Until you assemble the parts—at the time you need a fresh battery, the MAKE-UR-OWN principle keeps all the life intact. There's no life lost in deterioration before you get the battery. The battery reaches you all complete and packed in a nice carton, consisting of six zinc receptacles, six electrodes, one stirring stick and COMPLETE INSTRUCTIONS.

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We want every reader of this paper to take wonderful offer, especially the boys. Never before has such an opportunity confronted you. Either one of our wonderful outfits will be sent you FREE and POSTPAID for just a little easy work which you can do in an hour's time. All we ask is that you distribute a few big, colored pictures among your friends on our fast selling 25 cent offer. The pictures are wonderful, and go like wildfire.

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Dear Sir-I am very much interested send me enough pictures to get Outfit N	in your	Offer.	Pleas

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Town..... State.....

Larger Yields With Onions

BY C. E. DOWNING

Onions should stand from six to nine plants to the foot, depending on the most of them have lost their color we variety of onions. Three or four days pull the onions and place the crop in after seeding I drag the field with a small drag pulled by hand, the teeth being made of 20-penny spikes and arranged so they can be set at a desired slant. One man can easily drag 4 acres a day. By going over the field both ways with this drag before the sprouts get started on the onion seed, the weeds that would appear at the time the onions get above ground will be destroyed.

As soon as the rows of onions can be followed, cultivate with a wheel hoe, with knives set as close as possible without damaging the young plants. Follow this with a drag crossways with the teeth set at an angle that won't drag out the plants. This will remove the crust in the row and destroy the small germinating weeds. This should be repeated in a few days before the onions get so large that they would be broken down. Aim to stir the ground often to destroy weeds before they become noticeable. This is the cheapest and the only way.

Suspend a sack between the handles

and sew it up in order that it will not swing with the motion of the cultivator. Compel the operator, even if it is yourself, to pull all the weeds the cultivator misses. These can be put into the sack and dumped at the end of the field. It will surprise you how soon the operator learns to catch most of the weeds with the cultivator. If the culture is carried on properly, ing to general hand-weeding. Fighting weeds is like fighting fire—it must be done quickly. There are men who cannot learn to cultivate until the catter of t able to see weeds to kill. Such persons will always have weeds and have trou-

About the time the bulbs begin to form we shove dirt to them. It seems to keep the plants growing longer, and we get larger bulbs. It protects them from the sun, thereby preserving their quality and color. Onions exposed to the sun become changed in texture similarly to the way a potato changes when it is exposed to the sun. Consumption is lessened with inferior quality, and since demand and con-sumption go hand in hand, the demand for inferior quality is decreased. An increased demand causes better prices. It is the rubbish thrown on the market that takes the profit out of the business.

Keep up cultivation as long as possible. If bulbing properly the leaves will alternately and freely break away from the main neck and form layers on the bulb. When the lower leaves die without parting at the base it signifies that corresponding layers are not being formed on the bulb, and the tendency is for the bulb to become a scullion or bottle-neck. This may be caused by the lack of available plant

This is the critical period. I sow 75 to 100 pounds of nitrate of soda to the acre and work up a good dust malch even if it is necessary to do it with a narrow, straight-toothed garden rake cut off so it can be used conveniently between the rows. Vigor can

be attained in this way and a good crop produced. Neglect at this period would cause the crop to be a failure,

These are stacked five high crates. in a single row and covered with boards. After two or three days, we run them over a 1%-inch screen and place them in the storage bins with the tops on. Onions will not keep well if topped before the neck is thorsy shriveled; this action closes out the air and keeps fungus molds from getting in. They should not be left on the ground to cure any length of time, because dampness causes the bulbs that are ripe to start a second growth. This will not be noticeable for some time. By cutting onions that have been allowed to remain on the ground a small green second growth can be detected. Bulbs may appear sound and sell well, but if they are allowed to remain on the ground they are sure to sprout within a few weeks. No process of storing except solid freezing will keep these onions, and even then when the frost comes out the spronts will start.

Onions must be handled with care. A bruised one will always try to re-produce itself and send out a second growth. The chief cause of the unsightly onions seen in a grocery store is poor handling.

Farmers Desire Better Teachers

Farmers of Kansas attending the state farmers' union in Hutchinson recation of work of the state schools, declaring for more development of rural high schools, the giving of more practical instruction in agriculture, favored fewer instructors and supervisors and better salaries for those actually engaged in the teaching work and declared that only citizens of the United States should be employed in any school.

Registration Ages

A news item in a recent issue of an English livestock paper is as follows: "Fines were imposed on members who had neglected to observe the rule that births of calves must be properly notified to the society before such calves are 30 days old." Some difference between that and the two years which some Americans wish to take.

Our Best Three Offers

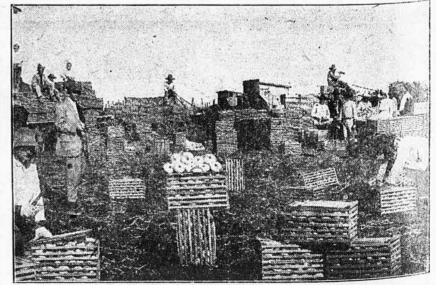
One old subscriber and one new subscriber, if sent together, can get The Kansas Farmer and Mail and Breeze one year for \$1.50. A club of three yearly subscriptions, if sent together, all for \$2; or one three-year subscription \$2.

"The Man Who Wins"

The man who wins is the average man,

Not built on any peculiar plan;
Not blessed with any peculiar luck. But steady and earnest and full of Pluck.

A woman's tears are the greatest water-power known to man .- Atchison County Mail.



Onions May be Grown Profitably by Truck Farmers in Kansas if Attention is Paid to Getting Good Yields of High Quality Bulbs.

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Ity products by city people. A small
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Substitute of parties having sweet clover seed
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WHOLESALE PRICES ON BALE TIES, humber delivered to any town in the state, stall-McKee, Emporia, Kan.

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WANTED-40-80 AVERY TRACTOR, CASH or trade. Crow Bros., Haxtum, Colo.

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MOLINE UNIVERSAL TRACTOR FOR sale. Latest model, Used one month, Jacob E. Loewen, Meade, Kan.

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STOP AND READ—LITTLE "TWISTER"

tor, 25-50 H. P. Run about 35 days. Write for information. H. E. Mueller, Macksville, Kan.

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In looking over the pump, make sure that the bearings of the pistons are tight and that the packing will last well thru the summer. Perhaps it will need to be replaced now. Look over the suction hose and strainer; the wire the suction hose and strainer; the wire of the strainer may need replacing. Open each valve and see the condition of the valve seats. It is best to take the relief, or safety valve completely apart; trouble may be given by sticking. Start the engine and make sure the valves of the pump are holding well by watching the steadiness of the needle on the pressure gauge. Place

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Food purchases of 500 families, representing different standards of American life, were carefully analyzed. Comparison with former years was made possible by the fact that the government had similar figures covering a survey made 20 years ago of 400 families.

The decrease in meat consumption amounted to 8 per cent and that of grain products 11 per cent. The amount of dairy products consumed has increased about 6 per cent. Vegetables show an increase of 4 per cent and fruit 8 per cent.

The average cost of food a man in these 500 families was found to be 46 cents a day. This, of course, represents only actual market costs and does not include costs of preparation and serving. Unfortunately, no com-parison with 20 years ago is shown.

Make Mother's Work Easy

Women have some big problems to solve. A little arithmetic, for example, has shown that one woman took 256,000 needless steps every year, all

Do You Wish Better Harness?

Have you ever taken time to estimate how many horses are injured and maimed every year thru the use of poor and improper harness? Have you ever thought what it would mean to have harness with no buckles, no holes in the straps, no loops, no snaps, no billets, and no friction on the straps? Often a set of ordinary harness may have as many as 68 buckles, 275 holes in the straps, 10 to 14 snaps, 100 loops, 76 billets, and about 275 places where the straps wear thru by friction against metal rings and other metal bearings. Look your harness over carefully and make an inventory of these things and then write us what you observe. Tell us what kind of harness you are using and how you think it can be improved. Do you want something better? Do you want us to suggest something to you? If we get suggestions from every one, it will be an easy matter to determine what would be the best kind of harness to have. Send us your suggestion by return mail. We wish to Have you ever taken time to estimate how many horses are injured harness to have. Send us your suggestion by return mail. We wish to hear from all of our subscribers. Prizes will be given for the best letters and we will pay for all the other letters we publish at regular rates. Address all letters to John W. Wilkinson, Farm Letter Department, Kansas Farmer and Mail and Breeze, Topeka, Kan.

the hand over the end of the suction because of the inconvenient arrange-hose to see if there is a backward flow, ment of her kitchen appliances. Probwhich indicates a leak in the valve. The stuffing box where the agitator enters the tank may need new packing.

Grease the wheels. In the spring when the ground is soft the team will need all the assistance one can give them. One or two good-strainers for putting the material in the tank should be on hand. These can be made by nailing wire netting over the end of a proper size box. A tower is a good thing on a sprayer to reach the tops of large trees. Now is a good time to make it. Note the condition of the spray hose, and order extra disks and nozzles, hose gaskets, extra links for agitator, and drive chains, if needed.

On the Milk Wagon

Comparison of food purchases the present with those of 20 years ago, show that the people of the United States are using less meat and less grain but we have increased our consumption of dairy products, vegetables and fruits. These facts were estab-lished by checking a recent govern-

POULTRY WANTED

POULTRY—WE ARE BUYERS FOR ALL kinds of poultry and eggs. Get our quotations before seiling. Highest references furnished. Witchey Poultry and Egg Co., Topeka, Kan.

POULTRY SUPPLIES.

COUNTY POULTRY AND PET Stock association, all breeds and varieties. Directory free. Sec'y H. L. Boge, Harvard, Neb.

Neb.

YOU CAN RAISE EVERY CHICK YOU hatch if you start them on Brooks' Best chick-starter. This is a pure baby chick food that contains dried milk, meat scraps, kiln dried meals, and etc. It does not contain weed seeds, grain screenings, etc., like are used in many grain feeds. Ask your dealer, if he won't supply you, will ship direct. 100 pound sacks \$5.50 or 500 pounds \$26.25 on cars here. We do not ship less than 100 pounds. The Brooks Mfgrs., Fort Scott, Kansas.

STRAY LIST.

TAKEN UP BY W. J. SCOTT, WHO RE-sides in Hampden township, Coffey county, Kan., on the 16th day of December, 1919, one brown mare mule, about 3 years old, weight about 1100 pounds, about 1514 hands high. No marks nor brands, Ed A. Gill-man, county clerk of Coffey county, Kan.

ment of her kitchen appliances. Probably the rest of her house was as poorly arranged as her kitchen, giving her at least an additional 256,000 needless steps. This meant 512,000 steps, or approximately 200 miles, tramped off annually in the daily round. Perhaps this was an exceptional case, but proper arrangement is one of the big problems to be solved in each individual home. in each individual home.

Farm Wages Highest Known

For labor hired on the farm by the month with board the average rate for the United States during 1919 was \$39.82, according to the figures given out by the Bureau of Crop Estimates of the United States Department of Agriculture. The lowest average wage was \$30.54 in the South Atlantic states and the highest \$62.96 in the states and the highest \$62.96 in the Western states including the Mountain and Pacific states. Without board the average wage for the United States was \$56.29, the lowest being \$44.03 in the South Atlantic states and the highest \$87.12 in the Western. Average harvest wages by the day with board reached the top figure of \$4.48 in the North Central states west of the Mississippi River and the lowest figure \$2.28 in the South Atlantic states. At no time have the wage rates of farm no time have the wage rates of farm labor been as high as they were in 1916 or at least as far back as 1866, which is as far as the records of the bureau of crop estimates go.

A Compromise

A little colored girl, newcomer in Sunday school, gave her name to the teacher as "Fertilizer Johnson." Later the teacher asked the child's mother if that was right.

"Yes, ma'am, dat's her name," said the fond parent. "You see, she was named for me and her father. Her father's name am Ferdinand and my name is Liza. So we named her Fer-tilizer."—Plow and Tractor.

The ultimate consumer hopes that at least he is now paying the ultimate high prices.—Little Rock (Arkansas),

Real Estate Market Place

Real estate advertisements on this page (in the small type, set solid and classified by states) cost 65 cents per line per issue. Send check, money order or draft with your advertisement. After studying the other advertisements you can write a good one and figure the cost. About six and a half words make an agate line. Count initials and numbers as words. There are 7 Capper Publications totaling over a million and a quarter circulation and widely used in this advertising. Ask us about them.

Special Notice All advertising copy discontinuance or ders and change of copy intended for the Real Estate Department must reach this office by 10 o'clock Saturdag morning, one neek in advance of publication.

KANSAS

WESTERN LANDS FOR SALE OR TRADE. J. E. Stohr, Ensign, Kansas.

34 SEC., in Gove Co. Price \$1,600. Would accept car on deal. F. Buhrle, Russell, Kan.

50 Southeastern Kan. farms for sale. Posses-sion March 1. Robbins & Craig Thayer, Kan.

FOR SALE. All kind of farms. Write for list. Carl Johnsmeyer, Clay Center, Kan. BEST FARM BARGAINS for sale in S. E. Kansas by G. W. Meyer, Fredonia, Kan.

WELL IMPROVED FARMS, \$85 to \$125 per acre. I. N. Compton, Valley Falls, Kan.

203 ACRES, imp., 40 wheat goes, \$112.50 a. Terms. Bert W. Booth, Valley Falls, Kan.

WANTED TO RENT—Farm, Aug. 1, 1920. References furnished. F. E. Cochran, Conway, Kansas.

BARGAINS. Bargains in wheat farms and stock ranches. Write for list.
W. R. McAdams, Browster, Kansas.

FOR SALE—Good farms from \$80 to \$125 per acre. Call on, or address,
O. C. Paxson, Meriden, Kansas.

89 ACRES, 1 mile of Westphalia, highly improved, \$70 acre. W. J. Poire, Westphalia, Kansas.

500 ACRES, 3 miles from Ford, Kan. Farm land, meadow-and pasture, \$40 acre.

Box 176, Offerle, Kansas.

80 ACRES, well imp., 65 cult., bal. pasture, 2 miles Humboldt, macadam road. \$9,200. Box 235, Humboldt, Kansas.

160 ACRES, improved, half pasture. Well watered, good soil. \$40 acre. \$2,000 will handle. Chase Agency, Severy, Kansas.

320 OR 640 ACRES fine unimproved Kansas farm land, \$10.00 acre.
Claude Chandler, Syracuse, Kansas.

WESTERN KANSAS LAND
weill buy your land if price right.
W. A. Layton, Salina, Kansas.

WE *CAN SUIT YOU in stock and dairy farms in Leavenworth county, any size. Will Newby, Tonganoxie, Kansas.

EASTERN KANSAS FARMS. Large list Lyon and Coffey countles, for sale by Ed. F. Milner, Hartford, Kan.

WE DON'T OWN THE WORLD, we sell it.
Write for farm list and pictures.
Kansas Land Company, Ottawa, Kansas.

CARY & HOARD, Real Estate Exchange and Loan Agent. Ranches a specialty, sold commission. Phone 13, Anthony, Kansas.

FOR SALE—All kinds of farms in N. E Kan. Send for printed list. Silas D. War-ner, 727½ Commercial St., Atchison, Kan.

WRITE for our free list of eastern Kansas farms and ranches for sale. The Eastern Kansas Land Co., Quenemo, Kan.

HAMILTON AND STANTON county lands, \$8 up. Write me your wants. Tomson, Syracuse, Kansas.

160 ACRES, 4 miles Culver, 1 mile school; 80 a. wheat, ½ goes; spring crop and pas-ture; good house and other buildings, \$70 a. Terms. Art Miller, R. 6, Minneapolis, Kan.

WANT 10 TO 30 ACEES, adjoining good R/R, town, good water and improvements. Description and price given.
T. J. Meadows, Walnut, Kansas.

240 ACRES, 6 miles town, 70 a. in cultivation, balance grass, good imp., \$42.50 per acre, close to school and church, 1 mi, good gas field. C. H. Wilson, Moline, Kansas.

BARGAINS—Wheat, corn, alfalfa and grass lands in Virdigris or Fall River bottom. Any size tract you want. L. S. Hoover, Eureka, Kansas.

TWO SQUARE SECTIONS water; 6 miles to county seat. Living water; 6 miles to county sea Price \$22.50 per acre. Terms. D. F. Carter, Leoti, (Wichita Co.) Kan.

FARMS ranging from 80 to 600 acres, well improved, for sale. Black loam soil from \$75 to \$100 per acre.

Jake Brown. Olpe, Kansas.

I WISH TO RENT an improved farm for 1920. Have cattle, horses, good equipment. Can giva, references. Would like western Kansas. Harry Shepard, Lyndon, Kansas.

640 ACRE WHEAT FARM, Pawnee county, 500 acres in wheat, ½ delivered to owner; good water; all good land, \$50 acre, terms. H. L. Baker, LaCrosse, Kansas.

280 ACRES, well imp., 90 cult., 50 bottom. Balance pasture. Plenty water. Gas ter-ritory. 1½ miles good town. \$75 acre. Parsons & Stewart, Fredonia, Kansas,

80 WOODSON CO., all plow land, near country school and church. Possession March 1 \$2,500 will handle for immediate sale.
W. H. McCiure, Owner, Republic, Kansas.

WE HAVE several choice Kaw valley alfalfa and potato farms. Some fine upland farms, good black rich soil, well improved. Close to Lawrence and university. Write Wilson & Clevenger, Merchants Bank Bidg., Lawrence, Kan.

KANSAS

LYON COUNTY—240 acres, 120 in cultiva-tion, 70 acres wheat goes, balance grass, fair imp. Quick sale, \$1,500. Jas. C. Dwelle, Emporia, Kansas.

GOOD SOUTHEASTERN KANSAS FARMS
For sale on payments of \$1,000 to \$2,000
down. Also to exchange for clear city property. Address
The Allen County Investment Co., Ioh, Kan.

I WOULD rather invest in Wallace county, Kansas, land right now than anywhere I know of. Come and see for yourselves. Live agents bring your men. I show good stuff. A. H. Wilson, Sharon Springs, Kan.

240 ACRES, well improved, price \$100, 145 acres, 60 in wheat, price \$75, 316 acres, price \$125 per acre. Write for description, Triplett Land Co., Garnett, Kansas.

WE HAVE A FARM in the oil belt and have an oil man ready to drill if buyer will lease. Price \$15,000 which is its value as a farm. Other farms.

Holcomb Realty Co., Garnett, Kansas.

WE HAVE some splendid 40's, 80's, 160's close Ottawa, well improved, good corn, wheat land. Priced worth the money, at your service. Write us.

Bridwell-Gilley, Ottawa, Kansas.

NESS CO. LAND—320 a., well improved, price \$45; 480 a., 300 a. in wheat, \$37.50 crop plan; 160 a., all smooth, \$20: 640 a., price \$17.50. All close in. Several good ranches. Chas. E. Rutherford, Utica, Kan.

FOR RENT—Eight hundred acre farm, four miles from Fort Scott and Borden's milk condensary, suitable for combined grain, stock and dairying.

Martin Miller, Ft. Scott, Kansas,

IMP. EIGHTY, Linn Co., Kan. Good 7 room house, barn 30x40, 3 ml. to town, on R. F. D. and phone, 40 in cult., balance pasture Everlasting water. Price \$5,000. Walter J. Wolfe, Owner, R. F. D. 3, Blue Mound, Kan.

120 ACRES, % mile from depot LeRoy, Kan.
Good house, nearly new barn, smoke house, other outbidgs. Land all lays fine, good soil and well watered. Price \$125 per acre.
Will give possession March 1st if sold soon.
LeRoy Realty Co., LeRoy, Kansas.

FOR SALE-160 acre farm in Allen county, Kansas; 4 miles from Moran. Well im-proved, 30 acres in pasture, the rest in cul-tivation; 2 good wells. Good level farm free of rocks. Write. Mrs. Florence Whitlow, R. 3, Moran, Kan.

160 ACRES, \$2,000. \$687.50 cash, balance \$187.50 yearly, 6%. 40 miles from town. Half choice, tillable land, balance fine pasture, 60 acres cult, Immediate possession. No improvements. No trades.

Griffith & Baughman, Liberal, Kan.

BUY FROM OWNER

80 acres, 1% miles from Westphalia, Kan.
Good 6 room house, good barn 40x60, wagon
shed, hen house, other outbuildings, ½ mow
land. Price \$80 a. Good terms. Plenty water.
W. G. Beissel, Westphalia, Kansas.

BEST BUY IN JEFFERSON COUNTY
320 acres, 8 room modern house, large
barn, garage, double granary, etc. 140 acres
clover and bluegrass, 12 acres alfalfa, 40
acres in corn, balance in small grain,
Watered by springs, 4 miles from town on
R. F. D. 40 miles from Kansas City. Price
is only \$150 per agre. If you want to buy a
farm of any size come and see me. farm of any size come and see me. Benj. J. Griffin, Valley Falls, Kan. Phone 34,

KANSAS

240 ACRES LYON COUNTY
Part creek bottom, priced to sell \$85. 61
acres bottom, \$185.
JAS. C. DWELLE,
Emporia, Kan.

NESS COUNTY, KANSAS, LANDS
Good wheat, alfalfa and ranch lands at
bargain prices. Several excellent ranches.
Write for price list, county map and literature.

FLOYD & FLOYD, Ness City, Kan.

BEAUTIFUL FARM HOME Located 4 miles town, Lane County, Kan-sas, all smooth land, 160 pasture, 160 farm land, only \$10,500. Terms. Write for bar-gain list and Kansas map. Mansfield Investment & Realty &co., Healy, Lane Co., Kansas.

A FINE FARM—200 acres, 3 miles town, 100 bottom, 20 alfalfa, 40 bluegrass and clover, balance for spring crop and about 40 in pasture. New 9 room house, 2 large barns. Improvements worth \$10,000. Price \$125 an acre. T. B. Godsey, Emporia, Kansas.

FOR SALE—160 acres of land; 35 acres fenced and watered pasture and hay; balance in fine crop of wheat; two miles from Lindsay, Ottawa Co., Kansas, four miles from Minacoulis county seet. For price and terms Minneapolis, county seat. For price and te address, M. E. Richard, Gettysburg, Pa.

FINE 160 ACRE FARM
Franklin County, Kansas
Good improvements, 1 mile town; 30 acres
wheat; 30 acres pasture; all good land.
Price \$110 per acre.
Casida & Clark, Ottawa, Kansas.

222 ACRES, 1 mile town, large improvements, some alfalfa, all creek bottom land, 25 acres wheat, 25 acres blue grass pasture, balance for spring crops, fine water, big bargain. Price \$150 per acre. Write W. T. Porter, of Kansas Land Co., Ottawa, Kan.

KANSAS—3,120 acres, 2,000 under plow, 7 sets imps., 35 miles fence stone posts, good water. Sold with crops, livestock, machinery or without. Syndicate proposition and a good one. Look it over. No trade. Cut into tracts, if too large.

L. C. Walbridge, Russell, Kansas.

FOR SALE—160 a., imp., all kinds of fruit all tillable. 4 mi. to town, 25 a. alfalfa part hog tight, best of never failing water Sell for, cash or trade for stock of shoes ir any good town in Kansas. Ask for full de-scription.

I. J. Peckinpaugh, R. F. D. No. 1, Lyons, Kan.

POSSESSION MARCH FIRST cres, well improved. Close town per acres, well improved.

per acres, 3½ miles town. Well improved.

Bargain. \$9,500. 155 acres, 4½ miles town.

Well improved. 100 hog tight. 25 wheat.

\$137.50. Terms on any above if wanted.

Write for booklet: list No. 456.

Mansfield Land & Loan Co., Ottawa, Kan.

115 ACRES, 3 miles Ottawa. Well improved. Large silo, etc. 35 wheat, 12 alfalfa. Nice home. Possession at once. 155 acres, 4½ miles Ottawa. Well im-proved. 25 wheat. 100 hog tight. Beauti-ful piece of land. Immediate possession. Write for full descriptions, booklet and list No. 456.

Mansfield Land & Loan Co., Ottawa. Kan.

POSSESSION NOW—Several good farms, share crops to go, one-half section, living water, 60 bottom, 4 miles out, horses, cows, implements, etc., only \$36.25 an acre. If wanting home, get illustrated list 33 real snaps before locating.

Buxton Whitmer Co., Ransom, Kansas.

320 ACRES WHEAT LAND
Near Spearville, small improvements, all
fenced, 110 acres pasture, 210 acres wheat,
all goes, good road to town, telephone and
dally mail, plenty of water, possession any
time, \$65 per acre.
Chas. E. Stapleton, Owner, Spearville, Kan.

STOCK FARM BARGAIN
560 acres, 5 miles out, 100 a. valley land
in cult., 460 a. all fine prairie meadow and
pasture; 60 a. wheat goes, Fine stock ranch.
5 room house, barn 40x60. Bargain for
quick sale, \$42.50 per a. Possession now.
M. T. Spong, Fredonia, Kansas.

KANSAS

FOR SALE—80 acres, improved, 5 miles Ottawa; price, \$8,000, \$2,000 down. iong time on balance.

320 acres, 7 miles Franklin Co. town, all good bottom, good improvements. Price \$100 per a. Inc., \$14,000, 4 yrs. 6%. If You have anything to exchange write, J. T. Printy, with Kansas Land Company, Ottawa, Kan,

240 ACRES, 8 miles from Anthony, 1½ miles from elevator; tenant improvements, 25 acres in pasture, balance first class productive crop land, laying in fine neighborhood, Price \$67,50 per acre. Landlord's share of

crop goes, Couch Land Company, Anthony, Kan,

FOR SALE—330 acres, 4½ miles of Franklin county town, 12 miles Ottawa, 250 acres in cultivation, balance pasture and mow land, spring water, 8 room house, fair barn, sito and other buildings. Price for quiet sale, \$100 per acre, or might take smaller farm 80 to 100 acres. Write R. R. Tucker, of Kansas Land Company, Ottawa, Kansas,

A DANDY BARGAIN—160 acres, Ness county, Kansas; 4 miles from market; about 86 acres in wheat, share with place; light im-provements; close to school; possession of improvements and pasture land at once; offered for quick sale for \$35 an acre. This is a bargain. Jas. H. Little, The Land Man, LaCrosse, Kansas.

WHEAT SPECIAL

Half section 4 miles from town, very good improvements, handy school, one-half of 220 acres of fine wheat, and possession March first, will go to buyer. Price forty dollars per acre, very easy terms. Write for new level list free. land list free. Justin T. Avery, Traer, Decatur County, Kan.

The

A section has 480 in cultivation; 300 in wheat, ¼ to purchaser; balance for spring crops; all level; some improvements; possession March 1st. Price \$25 per acre. 1,600 acres grass land, shallow water about 200 acres bottom land; price \$17.50 per acre. Level quarter grass land, \$2,400. Other bargains. See, C. N. Owen, Dighton, Kansas,

FOR SALE—Brick business building in Raiss, Donald, 30x75 feet basement and storeroom. Eleven office and living rooms in second story. Fine club room in basement, wired for electric lights, steam heat, tollets baths, hot and cold water. Fully rented, built two years. Priced about half what would cost to build now.

Box 137, McDonald, Kansas.

GOOD FARMING, 'gas and oil land. 480 acres, 240 under cultivation, bal. in pasture and meadow, 6 ml. from Fredonia, on gravel road, fair improvements, with 3 gas wells paying nice royalty. A drill working on farm and good prospects for more production. Owned by non-resident. Must be sold soon. \$125 per acre. Address,

T. D. Hampson, Fredonia, Kansas.

FOR SALE—640 acres, one of the best stock farms in Eastern Kansas, 175 acres cultivation, 30 acres prairie meadow, 25 acres alafa, balance good pasture with abundance of good water, all fenced. Improvements: 4 room house, good bara, other outbuildings, just fair. This farm is priced worth the money at \$75 per acre, being an estate must be sold. Write for full description and pictures. R. R. Tucker, with Kansas Land Company, Ottawa, Kansas.

CREEK AND RIVER FARM-200 acres. 4% CREEK AND RIVER FARM—200 acres, 4½ miles from here, 4 miles from Straw, good 8 room house, basement under it all. Barn and sheds and fine chicken house, Young orchard. 20 acres alfalfa, 130 acres fine alfalfa land, 25 a. in wheat, 40 acres native prairie pasture, pienty of timber on creek. This is as good a farm as you can find anywhere. Price only \$150 per acre till February 1, 1920.

R. R. Johnson, Hartford, Kan.

160 ACRES, 4½ MILES LAWRENCE
Two miles R. R., elevator and store, %
mile school, 1½ miles church, 157 acres tilt,
able, 85 acres wheat goes, 15 pasture, balance spring crop. House 6 rooms, barn
38x40, 100 ton silo, Granary 40x40, chicken
house, garage. Never failing water. Land
mooth. A real farm home in splendid
neighborhood: Price \$155 per acre. Possession March 1, 1920.
Hesford Investment & Mortgage Company,
Lawrence, Kansas.

620 ACRES RENO COUNTY LAND 10 miles from town on county road: a house on land; has two sets improved consisting of one six and one seven house, both new; and other improved alfalfa land; a big per cent of this sis in grass and it is one of the best sections in the county. Price \$45,000, make terms on \$25,000. make terms on \$25,000. V. E. West, Hutchinson, Kansas.

KINGMAN CO. FARMS AND RANCHES Kingman county offers one of the opportunities for buying land of any on Kansas, quality of soil and price

In Kansas, quality of soil and yeldered.

We have two 640 acre ranches at \$35 per acre, one 800 acre ranch at \$42.50 per acre.

60 other mostly improved farms, containing from 80 to 640 acres at \$50 to \$10 per acre. These are stock farms, wheat farms or corn or alfalfa land. Write for particulars.

FIESER & RILEY,

Kingman, Kan.

320 ACRES, 1½ miles good town, new rural high school, fine improvements, 8 room house, large barn site at a Plenty good house, large barn, silo, etc. Plenty water. Land lays well; 160 acres grass, balance plow. About 100 acres wheat goes, \$127.50.

\$127.50.

480 acres, Anderson county; 6 miles to two good towns; 10 room house, full basement, good barn. Good water, land all lay well, no breaks, rock nor gravel. 300 acres good grass, balance in plow, about 50 acres wheat. Sacrifice price for quick sale sale acre. Possession at once. School at corner of farm. Write today for list of other good farms. Dickey Land Co., Ottawa, Kan.

FOR SALE FOR NEWS 40 DAYS.

At 25 dollars per acre, 1,364 acres Wallace At 25 dollars per acre, 1,364 acres knyland, 50 acres growing alfalfa, balance fine grazing land. One mile running water never failing. Fenced and cross fenced, room house, good outbuildings. Two windmills. A fine ranch or farm.

Also 5,600 acres in Wallace and Greeley counties. Kansas, in one tract.

I and. Water on any quarter at from 30 to land. Water on any quarter at from 30 to looked. Two winds one of the counties for the counties for the counties for the counties. Two sets improvements. 160 acres broke, all fenced, 7 wells fine water.

Nelson Bros., Sharon Springs, Kansas.

THE COOK-REYNOLDS CO. **BOX G. 1405, LEWISTOWN, MONTANA**

independence of the farmer and ranchman,-we say that we know of no locality which offers greater opportunity than does

this Judith Basin. We know of no country which has a better record during its history of crop production. We know of no

place where labor and thrift and industry will reap a larger

reward-where land values are more certain to make a ma-

terial increase in a shorter time. Let us tell you the records, resources and advantages of this Judith Basin and about the

farms and ranches we own and offer for sale on easy terms.

PAYING BUSINESS FOR SALE

M. W. PETERSON, JETMORE, KANSAS

TANA — Judith Basin Land

To you who want the pride of owning good produc-

tive farm land; to you who want the satisfaction of the producer; to you who want prosperity and the

FOR SALE FOR NEXT 60 DAYS

KANSAS

ACRES, 230 acres of which is good atom land, 2 miles from Medicine Lodge, Elm creek. 200 acres in cultivation; acres in alfalfa. Good improvements, att of pasture and plenty of good rungrayer. Price \$50 per acre. Terms on

acres of fine grass land, Ochiltree xas. On Wolf creek, 300 to 400 acres land, plenty of running water, large at can be cultivated. This is an A ranch. Price \$12.50 per acre.
John Ferriter, Wichita, Kansas.

Only \$2,900 only

LYON and CHASE CO.

money to be had anywhere. Farms to 1,440 acres. Plenty of creek and ater, and bluestem grass. Alfalfa, ad corn land. will Albin, Saffordville, Kan.

The Bargain Counter

here at Winona is the high spot in d the low spot in price. Come and proved farms and ranches, grain, and grass lands. We own or con-THE BROOKE LAND & TRUST COMPANY, Winona, Kansas.

Choice Farm Near Topeka At A Bargain

Nearly all valley land; black loam soil. 8 pom modern house; both house and barn electronity lighted; double corn crib; cattle shels, marage and other buildings. This is one of the high class farms near Topeka, never last been rented and is a money maker. Price only \$175 per acre, Address the owner, L. L. VROOMAN, R. F. D. No. 7,

Coffey County Bargains

180 a. 3 ml. of Waverly, on main road, lays smooth. 40 a. wheat. ½ goes. 40 a. native grass, bal. for spring crops; 5-room house, new barn 38x44 ft. Plenty of water. 1 ml. to school. Price \$90 per acre. Good terms. \$6 a. 5½ ml. of town, 20 rods to school, lays good; 30 a. for spring crops, 30 a. goed teasture. 20 a. tame grass meadow. Good house of 7 rooms, new barn 30x30 ft. Abundance of everlasting water, on main traveled road; price \$6,500. Good terms. Many other good bargains in any size tract. Write for list.

(6co. M. Reynolds, Waverly, Kansas.

ARKANSAS

WRITE TOM TETER, SHERIDAN, ABK. for hargains in good farms.

DOWELL LAND CO., Walnut Ridge, Ark. Fine corn lands, easy terms, plenty rainfall

WRITE TOM BLODGETT, Pine Bluff, Ark. for land bargains that will double in value

160 ACRES, very fine farm, to be sold cheap at one. Very rich land. R. S. Young, R. 1, Box 2, Mayflower, Ark.

OZARK Cream-Stock Farms, Fruit Farms, Borr and Vegetable Tracts, Hunsaker, Decatur, Ark.

W. ARK.—Bargains in fruit, stock and entile farms; good soil, water and climate. Fredricks Realty Co., Springdale, Ark.

FOSTER REAL ESTATE COMPANY, Gravette, Arkansas.

rs in farm and town property. FARM in the great fruit and farm-marry of northwest Arkansas where cleap and terms are reasonable. For increase and list of farms, write-M. Doyel, Mountainburg, Ark.

Acres for \$1,200

Will. BE ON NEW HIGHWAY

s. only 14 to railroad station, 40
der cultivation, all under good fence,
house and outbuildings, family or
lood well and spring. Price only
sond at once for copy of large farm
with complete descriptions of farm

URT LAND CO., DE QUEEN, ARK.

CALIFORNIA

40 ACRES of free land in U.S. "The lomesecker," a 100 page book deadlions of acres of vacant public its, timber mines and grazing lands, township plats and fillustrations, on historical facts. Does not missed official warnings, eliminates and agents. Tells whereabouts of the land in Arizona, New Mexico, California, Idaho, Oregon, Montana, Outland and Old Mexico. Describes and climatic conditions, all the U.S. land laws. A marvelous public of the press, Mailed anywhere, differs, The Homesecker, Dept. 104, Grant Bldg., Los Angeles, Calif.

California Farm Land For Farming or Investment

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AND get in on this wave of prosperity now coming to the Eastern Colorado Farmer.

Send for folder and lists.

Send for folder and lists.

Wolf Land Company

18; MERICAN LAND SECURITY CO., 18; N. Dearborn St., Chicago, Ill.

COLORADO

20 IMPROVED eastern Colorado farms for sale at bargain prices; terms; information and literature on request.
Frank Sutton, Akron, Colo.

EASTEEN COLORADO.
Irrigated farms. Any size, ranches and upland farms. Write for list.
C. A. Quimby, Granada, Colorado.

FOR SALE—Improved farms in eastern Colorado. Close to town and school. If interested write, or see, J. Youngberg, Stoneham, Colorado.

IRRIGATED small tracts and farms produce sure and paying crops. We have them at Rocky Ford, Colo. Write.
Wm. C. Steele, Rocky Ford, Colorado.

SOUTHEASTERN COLORADO farms and ranches, any size, lowest prices, best terms, good crops, excellent climate. Send for free descriptive booklet and list.

The Gregg Realty Company, Lamar, Colo.

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When You Prune Trees

In response to many inquiries as to advice in pruning fruit trees, we suggest a number of points to be kept in mind in pruning operations. They are:

1. To form properly the tops and keep them well balanced.

2. To let the resultite amount of

2. To let the requisite amount of sunlight into all parts of the tree tops. 3. To remove branches which are

in poor condition and to prevent serious damage by crowding of branches.

4. To make picking easier and spraying more effective.

5. To thin the fruit.6. To lower and to renew the tops of trees.

In young orchards it is necessary to train the apple trees so that they will grow into proper shape, while with older orchards, to prune with the idea to encourage fruit production.

A saw with a narrow blade about 16 inches long, a hand shearer, and a heavy pocket knife are practically the only tools required for pruning.

And She Didn't Know

Little Girl (looking over newspaper advertisement)—Mamma, why do all these boarding houses object to children?

Fond Mother-I'm sure I don't know. Go and see what the baby is howling about, and tell Johnny to stop throwing things at people in the street, and make George and Kate stop fighting, and tell Dick if he doesn't stop banging that drum so hard I'll take it away from him.

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AT ONCE Will sell to first party cheron stallion. coming 4 years old, price \$390; 1 registered black Percheron stallion, coming 2 years old, price \$190; 8 registered Red Polled bulls, \$75 to \$150; 10 registered Durocs at ½ price. All the above are bred right, sound and good ones.

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HOLSTEIN CATTLE,

Valley Breeze Korndyke Winona

28-lb. dam, 42-lb. stre whose dam (Korndyke Winona) was tested at Cabana's, Valley Breeze Dutchiand Korndyke from A. R. O. helfer whose dam (Capary Inka) made 28-lbs. His stre N. C. Dutchiand Korndyke is from the world's record 2-year-old twin, 31-lbs. These two bulls are ready for service—priced right and will go quick. ORIN R. BALES, R. 4, LAWRENCE, KANSAS.

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Is one of the most desirable qualities a dairy animal can have. Vanderkamp Segis Pontine is our herd sire. Bis dam is one of less than 20 cows in the world to produce over 30 pounds of butter in 4 consecutive lactation periods. Twenty-three of his mearest dams average over 27 pounds of butter in 7 days. We have several young buils to offer sired by this remarkable buil. Prices \$100 and up.

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Registered Holstein-Friesians. One of the first government accredited herds in Kansas and one of the largest in the list. Young bulls for sale by Pontiac Beauty de Kol Segis 139642. His dam, as a 3 year old, made nearly 29 lbs. in 7 days and 114.63 lbs. butter and 2587.9 lbs. milk in one month. His grandstres are King Segis and King of the Pontiacs. Address H. D. Burger, Proprietor, Seneca, Kansas

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REGISTERED HOLSTEIN BULL FOR SALE J. W. Edgecomb, Overbrook, Kausas

Less Competition For Grain trade is to buy current needs.

Bears in Market Stimulated by World Conditions

BY SANDERS SOSLAND

HE bear element in grain and brought much wheat upon the market, weeks ago, questioning the correctness of their views, were preparing to "get on the fence" or even climb over into the "bull" territory, feel more secure than in months. While not entirely disregarding domestic conditions, market operators have been influenced to a very great extent by the depreciated value of the moneys of European nations, or the appreciated value of the American dollar. They see in such a development influences which over-shadow current factors in domestic trade channels, such as the day-to-day

Wheat occupied an extraordinary po sition in the fluctuations, having suf-fered the most severe break among the cereal list and the sharpest on the bread grain thus far on the crop year. Values on hard winter and dark hard wheat were carried down to a level prevailing early in November, practically four months ago. the high point reached on carlots of wheat in Kansas City, \$3.08 a bushel, the market was about 60 cents lower, and about half of that decline oc-curred in the past week. The declines on hard wheat ranged from 20 to as much as 35 cents a bushel, and on red winter wheat the net losses amounted to 17 to 21 cents, the two varieties selling near a parity.

Cause of Wheat Decline

The sharp break in wheat was not the result of an enormous movement to market or clogged condition of consuming channels, for almost the opposite is true at the present time. important factor governing the price fluctuations, which the daily market reports apparently have overlooked, is the growing pressure from banks to force the grain upon the market. Banks have called for increased margins on wheat loans, and in instances have required that loans on wheat be made at a figure not above the government price, this necessitating a burden of as much as 50 cents a bushel on the holder. This naturally has

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calves, six to eight months, 60 females to select

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GUERNSEY CATTLE.

For Sale Reg. Guernsey Cow

rs. old, in milk and rebred; a heavy producer and ellent type; price \$359. Reg. helfer, coming 3 yrs. bred; this helfer is from above cow, price \$250, hare extra well bred. Four high grade Guernsey s, just fresh; 2 extra heavy producing Jersey, 6ws 7 high grade Guernsey helfers. One registered one high grade Guernsey bull yearlings. For tos and descriptions write.

E. G. L. HARBOUR, Box 113, Lawrence, Kan.

feed markets who, not many and, at the same time, resulted in a more cautious policy on the part of millers.

The use of all grain cars available in Chicago by the United States Grain Corporation to move out its wheat, about 8 million bushels being held there, has had a depressing influence on prices, also. With mills receiving more freely wheat purchased from the government several months ago, the tendency is to reduce purchases on the open market. This has been further aided by serious shortage of cars at milling plants. Many mills in Kansas demand and supply.

All varieties of grain and many down because of their inability to obfeedstuffs were included in the downward trend of prices the past week.

have been forced temporarily to shut down because of their inability to obfeedstuffs were included in the downward trend of prices the past week. possibly more serious condition prevailed in other sections, including the Northwest. Extremely quiet domestic demand for flour is still another The acute position thus

Expect Rebound in Wheat

Though wheat values have declined about 50 cents a bushel from the top mark, a rebound to \$3 a bushel is generally ex-pected on the Kansas City Board of Trade. Only further serious depreciation of exchange rates will affect the market bearishly. Domestic demand and supply conditions are favorable to an upturn. The movement to market is falling off.

brought about has been further unset- . tled by depreciation in foreign exchange to new low levels.

Prices Will Advance Again

Were it not for the acute exchange situation, the writer would urge strongly upon wheat growers the need for holding their wheat for a \$3 market. Demand and supply conditions favor a return to the \$3-level on the Kansas City Board of Trade, and market interests quite generally hold to the belief that \$3 will again be paid for wheat of the 1919-20 crop, and before May 1. Growers who still hold top at the present time, an advance as sharp as the decline of the past week would bring values to practically this basis. Some even believe it would not be surprising to witness this figure before the close of February. however, appears improbable, at the moment at least. Before many weeks pass, markets are expected to yield violently to reports of wheat crop conditions, and the effect should be bullish.

Aside from The declines in foreign exchange rates, which naturally make the outlook for foreign sales discouraging, corn has been depressed by the order of the United States Railroad Administration giving the coarse grain priority in loadings, this priority now being in force. The movement of corn to market is slowly increasing, but the amount reaching terminals is far below the expectations of the trade. In giving grain-loading preference over all other commodities, a heavy movement might result the latter half of the month. There is sufficient corn in country elevators to permit a heavy movement, but the trade is seriously asking whether there are sufficient cars available, irrespective of the priority order, to allow unrestricted loadings. Despite the small movement thus far, buyers have not absorbed offerings in a manner which reflects concern over the available supplies, and for this reason there has been an absence of bullishness,

Corn Shows a Decline

In the past week carlots of corn declined 6 to 9 cents a bushel, the sales a pound and cottage cheese is ranging from \$1.34 to \$1.48 a bushel, equal value: this would then and ear corn around \$1.36. Feeders in Kansas are buying corn in small quan- 6.12 cents. At this rate, start

trade is to buy merely sufficient $_{\rm for}$ current needs. "They're awaiting $_{\rm a}$ movement," is a common remark heard among dealers. This is significant, of course, the long delay in marketing corn causing no tight situation among feeders. In the Southwest the sorghum-grains are being used as a sub stitute on a comparatively large scale, Another depressing influence in corn was the sharp decline in hogs and other ment animals, also the weakness in feedstuffs. The February option in Kansas City fell 11 cents a bushel, and the May delivery was quoted off about cents, around \$1.31.

While more or less independent strength has been witnessed in the oats market, the minor cereal yielded to pressure from low exchange rates, the downturn in corn and other grains Considerable quantities of oats held by exporters at the seaboard have been offered for resale to domestic buyers, owing to losses resulting from depreciation of foreign amoney. The cash market in Kansas City declined 4 to 5 cents a bushel, feeding grades selling at 82 to 88 cents a bushel. To the feeder who soon must enter the market for a supply of oats, the current market offers an excellent opportunity for purchases. Seed outs eased off slightly, but the best grades still command about \$1 a bushel. In the speculative market values were depressed about 6 cents a bushel, below 77 cents a bushel for the May delivery, the lowest figure in more than three

Being influenced by the pressure on wheat, corn and oats, extreme weakness naturally has prevailed in other grains. In the past week rye declined 25 cents a bushel, barley lost 11 to 13 cents, and the sorghum grains have fallen as much as 25 cents a hun-dredweight. Further recessions in kafir and mile are generally predicted, owing to the free movement from Kausas, Oklahoma and Texas to the Kansas City market.

Mill Offals Irregular

A very irregular course was followed by the mill offals. In the shorts market a tight condition developed as a result of efforts of speculative operators to accumulate the product. This element succeeded in obtaining supplies, and at the same time succeeded in forcing values up as much as \$5 a ton from the recent low level. The trade for some time has been anticipating an enormous demand for spring farrowing the latter part of February and March. However, from a top of \$51 a ton in Kansas City for gray shorts, the market receded \$2 to wheat should not be concerned over \$3, and there is doubt as to whether a the break in prices. Tho the market broad feeding demand will reis about 40 cents a bushel from a \$3- ally develop. Brown shorts are quoted around \$44 to \$45 followed Kansas City. Bran shorts, rising to \$42 a ton, sacked, basis Kansas City, but later receding to around \$40 to \$41, these figures being paid for March and April delivery as well as for spot offers.

Pressure on hay, particularly the cheaper grades, was relieved to an extent by the slightly reduced movement to market. Whether the falling off in arrivals means that the peak of the movement has been witnessed is doubtful, though more numerous complaints of car shortage, poor condition of country roads and approach of spring work strengthen the belief that receipts will continue to decrease Some prairie sold as low as \$11 a ton, with the best grades at double this figure. Alfalfa ranger from 820 to \$38, and tame hay sold at \$23 to 830.

Feeding Skimmilk to Hogs

Skimmilk for hog/feed will soot a thing of the past, in the opinion of E. O. Hanson, member of the staff of the dairy division at University Faran-

"Skimmilk," Mr. Hanson says, already being sold in various forms such as milk powder, casein, and coltage cheese. Demand for it is increasing rapidly because of its food value although it contains no fats.
17 pounds of cottage cheese made-from 100 pounds of skin An analysis will show that co cheese is as nourishing, point pound, as lean beef.

"Suppose beef to be worth 18 the value of one quart of tities, but the tendency among this too valuable to be used for hog took

CLEARANCE SALE of EXTRA HIGH GRADE HOLSTEINS and JERSEYS FEBRUARY 24-PUBLIC AUCTION-FEBRUARY 24

We will sell at our farm, 4½ miles east and 2 miles south of the Kansas Westeyan University, Salina, Kansas; or 4 miles west of Kipp, Kansas; one of the finest dairy herds in Saline Co., headed by our herd bull Sir Korndyke Lurkin Virgo, 184649 H. F. H. B.; whose SIRE is Sir Korndyke Virgo Canary 3rd 196491 H. F. H. B.; DAM, Mills Nellie Larkin 84433 H. F. H. B. These cows just in their primenot an old cow in the lot—majority of cows, fresh or heavy springers about date of sale. This offering herd bull. Address inquiries to

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He is 75 white, a perfect individual, just past a year old and ready for service. He has a 23-pound m, a 32-pound sister, a 35-pound granddam, 49 Å, R. O. sisters, a brother that was grand champion the 1919 National Dairy Show, a brother that sired the youngest cow in the world to make 1.000 nunds of butter in a year. He is just the kind of a bull you need. Price and pedigree upon application,

STUBBS FARM CO., Mark Abildgaard, Mgr., Mulvane, Kan.

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Stockmen Look to Europe

Talk of Lessened Foreign Demand Affects Prices

BY SAMUEL SOSLAND

with depression in foreign exchange more serious than at any other time ported as 51,482,000. In the case of in history and with assertions that cattle and hogs there is no room for the color with the consumers power that the consumers parative figures together with the lessence of the foreign exchange problem has assumed greater prominence. The trade in cattle and hogs and other livestock, particularly the hog market, in wrestling with it, is uncertain as to in wrestling with it, is uncertain as to the outcome. But the trade is cautious. What are the facts which are at hand and on which some judgment may

be formed? There is a lot of talk about less buy-ng by Europe, especially in the hog market. And there is also talk about the purchasing power of American consumers being-affected adversely by lessened buying of all classes of American goods by Europe. This, briefly, is the reason for the sharp declines which were recorded in livestock prices last week and for the growing conservatism of commission houses as to the outlook for the market.

To understand the meaning of European buying and its effect on American a glance at a few figures is desirable. Official figures announced a few days ago by Washington show that the United States exported 2,625,000,-000 pounds of pork products in 1919, compared with 2,250,698,000 in 1918 and 1.020,778,000 pounds in 1913. The exports last year were equal to the product of between 14 million and 15 million live hogs. In the case of beef exports, the outgo as officially reported with a year ago. for 1919 amounted to 346 million For weeks this department has pounds, against 749 million pounds in pointed out that it was time to be very 1918 and about 40 million in 1913. The conservative in handling cattle and were equal to about 577,000 live cattle, compared with around 1,248,000 head of live cattle for 1918.

Extent of Competition

tiv have had the past two years from

here is more concern over prices. has too high, then the competition for live hogs will wane. Europe is our principal foreign customer.

Meat markets are in the same position as other markets depending partly It is said that if the other markets have a reduced demand and lower prices, the labor they emlower earnings in the end it is held that the domestic demand for meat may be affected.

Commission men, bankers and others maneted with the livestock marketing lasing s are studying these problems. They say they are dominant. These influences are so important that they dominant. denoted the careful consideration of trery producer.

Decrease in Livestock

One helpful inflence is the fact that initial report of the United States ment of Agriculture on the numcattle and hogs on farms and hangen shows a decrease for the past

ivestock markets have begun to against 74,584,000 at the opening of wrestle more generally than at 1919. The number of sheep is given as other time since the armistice of 48,615,000 head, against 48,866,000 a with the problem of Europe's report of purchasing power. Surprising decreases. The hog supply is the second largest in history. In 1913, the attention on this problem. The united States Department of Agriculture reported the number of cattle in in hogs in the fall of the past ture reported the number of cattle in also revived interest in the forthe country as only 36,030,000 head and exchange problem. Now, however, the number of hogs as 61,178,000 head.

How Much Meat for Export?

All foreign lands bought pork equal to the product of over 14 million live hogs last year from the United States. The foreign countries bought in the same year the product of about 577,000 live cattle. Europe was the main

If Europe buys less meat, com-petition will be reduced and prices adversely affected. There is nervousness in markets for meat animals over the extent of

European buying.
International trade conditions also influence domestic demand, so the position of Europe is one of the big factors in the trade in

The horse report shows 21,109,000 head, a decrease of 1.4 per cent as com-

1918 and about 40 million in 1913. The conservative in handling cattle and beef and beef product exports last year that, while stockers and feeders have been available at lower prices, the level of the market was not cheap for the buyer. The market has been on the downgrade, and last week cattle declined again severely. Some buyers came into the stocker and feeder mar-A study of the foregoing figures shows the extent of the competition which our markets, including Kansas of the European war. Here and there these buyers were heard to express the five have had the past two years from foreign buying of pork and beef. The foreign buying of pork and beef. The point of the prices they paid were cheap. This applied all right in compared with 1918 was one of the big factors in the drop in prices.

Now, with talk of a further reduction in buying by Europe, especially of look, there is more concern over prices.

Cattle prices lost 25 cents to \$1 last. liog salesmen have explained this sitlation to many of their customers, larger shave been putting emphasis on instances the declines on beef steers were placed at \$1.50. And there was again a better demand for stockers and feeders than for fed cattle. The bulk lighted her purchases because her of the sales of fed stocks were not Must reduce her purchases because her of the sales of fed steers were at money is worth so little that the cost \$10.50 to \$12.50—less than these cattle cost some months ago as feeders. One feeder who sold two loads of steers told me he lost \$1,800 on the lot. But some of the best feeding cattle sold at \$12.50 and \$12.75 in the same week. Many stocker steers sold at \$9 to \$10.50. These stockers sold up to \$15 a year ago, but the manner in which the fat cattle market is acting does not so indicate that they are cheap by any means. The top sale on fed cattle the past week in Kansas City was only \$14.50, but even this is no criterion of the market. The criterion is the bulk of sales of short-fed steers. A few fat cows sold up to \$11, but the bulk brought \$8 to \$9. Yet sales of stock cows were quoted largely at \$7.50 to \$9. After selling at a top of \$17 early yeal calves closed last week at a top of

Moderate bullishness in the hog market has temporarily given way to un-certainty. Europe needs pork badly and has been buying in quantities sufficient to hold the market quite firm. The total number of beef cattle But the scare which has developed as $\frac{1}{100} = \frac{1}{100} = \frac{1}{10$

First Annual Tri-State **Holstein Show and Sale**

At the Union Stock Yards Sale Pavilion South Omaha, Neb., Feb. 24, 25 & 26

100 HEAD, 85 Cows and Heifers and 15 Bulls

Every One a Show Animal

And a Producer that has been specially selected by the Tri-State committee as qualified to enter this great show and sale.

Every Cow Has a Creditable A. R. O. Record

The heifers are by 30-lb. sires and out of dams eligible to the sale.

The bulls are mostly by 30-lb. sires, several out of 30-lb. dams, one of them is a

Son of Niva Kalmuck Nebraska's Champion 45-lb. Cow

Five cows have A. R. O. records above 30 lbs. in 7 days. Two cows have 7-day records above 29 lbs.

Twenty cows have 7-day records above 25 lbs.

One heifer Nebrocke's 2 year old champion has a record of

One heifer, Nebraska's 2-year-old champion, has a record above 28 lbs. Eight heifers have 2-year records above 20 lbs. Twenty cows and heifers are bred to

The World's Champion Long Distance Sire, Sir Ormsby Ak-

krummer Hengerveld

His sire is a son of the world's Champion yearly record cow

Duchess Skylark Ormsby His dam has a 7-day record of 39.56 lbs. of butter and 620.6 lbs. milk. She is about to complete her yearly record which will undoubtedly exceed 1200 lbs. of butter.

40 Head are from the Noted Friesland Farm Herd Owned by

B. B. Davis, Omaha

He has consigned many of his choicest animals which include

Three 30-lb. Cows, a Son of the 45-lb. Cow, Niva Kalmuck and one of his herd sires, Alcartra Hengerveld Segis De Kol, son of the \$50,000 bull, King Segis Pontiac Alcartra.

His dam is Meta Hengerveld, a 30-lb. daughter of Hengerveld De Kol; he is a proven sire suitable for service in any herd in the country.

Some are bred to

King Echo Sylvia Waldorf

whose two nearest dams average 889 lbs. milk and 38.68 butter in 7 days. His sire is a son of May Echo Sylvia the only cow in the world to produce over 1,000 lbs. of milk in 7 days.

Some are bred to King Pontiac Konigen a son of King Segis and the

sire of the 43.59-lb. 4-year-old Lady Netherland Pontiac.

Three are bred to a son of the 37-lb. cow Erma Pietertje De Kol Beets.

Two are bred to King Segis Lyons a son of King Segis and the sire of ten 30-lb. daughters; one of them above 38 lbs.

Twenty prominent breeders of Nebraska, Kansas and Wisconsin have entered the contest for highest honors in show and sale ring.

Prof. H. H. Kildee of Ames, Iowa, will judge the cattle Tuesday. February 24th and they will be sold with their ribbons Wednesday and Thursday, February 25th and 26th.

All lovers of purelyed cattle are invited to come to the show and sale.

All lovers of purebred cattle are invited to come to the show and sale

Banquet at the Castle Hotel, 6:30 P. M., February 24th The annual meeting of the Nebraska Holstein-Friesian Club will be held immediately following the banquet. Everybody is welcome. Write

DWIGHT WILLIAMS, Sale Manager, Stock Yards Sta., OMAHA, NEB. A. W. Thompson, J. E. Mack, R. E. Haeger, E. M. Little, Auctioneers. S. T. Wood in the Box.

Sunflower Herd's Seventh Annual Sale of Registered Holsteins

Topeka, Kansas, Friday, March 5 Sale at Fair Grounds

70 Head Registered Cattle

We invite you, so does LORD KAY HENGERVELD FAYNE 217511 (for he will be there to make your acquaintance, and to demonstrate what a fine "Daddy" he is, for there will be over 30 head fine cows and heifers to bring calves by him), however, he won't be sold. You can't find a better place to buy immense big, extra well bred heifers to calve this spring. A lot of heifers from 30 to 34-lb. sires, some bred to a 30-lb. bull. Three heifer calves from a 34-lb. sire. A young cow sired by a 31-lb. sire and from a 30-lb. dam. A two-year-old heifer that is sister to the World's Record twins (one twice over 30-lbs. at 3 years., the other 31-lbs. at 4 years) a show heifer, too. 25 head of big fine individual well bred cows, either fresh, springing or milking heavily now. A few good young bulls. SIZE, QUALITY and BREED-ING in this sale. 60 Day Tuberculin Retest Privilege. Don't fail to be on hand. Write for catalog to

F. J. Searle, Owner and Manager Oskaloosa, Kansas

Auctioneers—Haeger, Crews, O'Brien.
N. B. 20 head high grade springers will be sold also.

A Live Wire County

Holds its First Breeders' Association Hog Sale at

Stafford, Kan., STAFFORD February 21

32 Polands

31 Durocs

Consigned from the following Stafford County herds:

DUROCS Floyd Chadd U A. Gore
M. F. Rickert P. L. Keenan
A. H. Alpers Phillip Schrader
Geo. M. Long Robt Chadd
Herman Dorkman

Dorkman

Herman Dorkman

Dorkman

Dorkman

Dorkman

Dorkman

Dorkman

A. B. Simpson Grant Goble
W. W. Zink Geo. W. Mueller
W. I. Lowery I. L. De Selmo
Jenkins Bros. J. R. Chiles
Zink Stock Farm

Tried sows, sping and fall gilts, and a few boars of each breed These are good hogs, the kind that have put Stafford County on the hog map. Get your catalog today and plan to attend this sale. Address, mentioning this paper,

Stafford Co. Purebred Livestock Assn.

S. N. Myers, Secretary, Stafford, Kansas. : Cols. Snyder. Waggner and Keenen. J. T. Hunter represents the Kansas Farmer and Mail and Breeze.

Bargains In DRAFT STALLIONS

Our horse barns have been corn down to make way for city residences, We nave a few high-class Belgian, Percheron and Shire stallions for sale We offer special inducements to dealers who can handle them all. Now is the time to push the draft stallion business. Horses were never

Woods Bros. Co., Lincoln, Neb. A. P. Coon, Manager

20 BIG, REGISTERED BLACK JACKS

Ages from 2 to 8 years. Height from 15 to 16 hands. Can show more bone and weight than anybody. In October we shipped a carload of the finest big registered jacks we could find in Tennessee to our farms. They are acclimated now and ready to make good.

We also have several 15 and 16-hand that have made stands here on our farms. We can show colts or mares in foal. Must sell this stock this season. We can ship on the Santa Fe, Missouri Pacific or Frisco. Address, J. P. Malone, Lyons, Kan., (new Jocation) or M. H. Malone, Chuse, Kan.

Will meet trains at Lyons or Chase.



JACK, JENNET, PERCHERON DISPERSION

Determined to discontinue the breeding business I will sell at PUBLIC AUCTION, ATTICA, HARPER CO., KANSAS. FEBRUARY 23, at my farm my entire breeding herd. 1 registered lercheron stallion: 10 jennets and 12 jacks ranging from 1 to 3 years old. At the head of this herd is Jumbo King, a registered mammoth jack. 6 years old. 16 hands, 1,200 pounds, broke to either mares or jennets To those wishing it 6 months time will be given. Strangers bring bank references. Out of town buyers will be met at 11:59 a. m. train. Cols. Snyder and Bowman, auctioneers. D. E. Gill. owner. Attica, Kansas.



BELGIANS

From the Home of Farceur, the undefeated grand champion. A choice selection of stallions from rising 2 to 5 years old. A few good mares sufe in foal to Farceur. Youngsters of both sexes by the grand champion. Our community has more good Belgians than any other like area in the world. Make us a visit.



EWING BROS.' PERCHERONS AND SHORTHORNS

Some extra good stallions and mares. Meknes 106640 (106084) in service. Village Knight 1398231 herd header. Stock

EWING BROS. 1438 12th St., Great Bend, Kansas R. 1, Pawnee Rock, Kansas

Mammoth Jacks, Percheron Stallions and Mares

A lot of big boned jacks, 3 to 5 years old, weight up to 1200 pounds, 15 to 16 hands. Also a fine lot of Percheron stallions, blacks and greys, weight up to 2400 pounds. A hot of large mares, 3 and 4 year olds, showing colts, Will sell one or a carload. All stock guaranteed.

Al. E. Smith, R. I., Lawrence, Kansas.

40 miles west of Kansas City.



Jacks and Jennets

15 large mammoth black jacks for sale, ages from 2 to 6 years; large, heavy boned. Spe-cial prices for early sales. Twenty good jennets for sale. Come and see me. Phil Walker, Moline, Elk County, Kansas

For Sale Registered Percheron Mares

and fillies, 2 coming 4 years old, 2 coming 3 years old; well broke; sound; all black. Also a few choice stallions coming 2-year-olds and yearling; all registered; blacks; sound; size and quality. Large black jack, 8 years old, 1050 pounds, prompt and start will buy an extra good herd horse. A. J. WEMPE, FRANKFORT. AANSAS.

3 REGISTERED PERCHERON STALLIONS c. E. WHITTLESEY, Mound Valley, Kans: 3

Stallion and Jack for Sale

Imported Percheron, dark dapple gray, 7 years old, weighs 1960, plenty of action, gentle. Knox Napoleon, dark brown jack with mealy points, 15 hands, weighs 950. Will prove both these animals fertile under the miscrepart. For particulars write. the microscope. For particulars write, HENRY MOORMAN, SOLOMON, KANSAS

For Sale, Reg. Percheron Stallion

Perfection 122699, coming 4 years old. Strong in the blood of Brilliant with several noted sires in pedigree, A good individual and gentle. Broke to work. C. Walter Sander, R. 2, Stockton, Kansas

State Fair prize-winning stallions and registered mares breit to Champion stallion for sale. Also extra heavy hack Mammoth Jacks.
Fred Chandler, Rt. 7, Chariton, Ia. Percherons - Belgians - Shires



Coburn Farm Percherons Percheron Mares and Stallions—all blacks, Mares, yearlings up to mature ages. Stallions, yearlings, two-year-olds and one extra 6-year-old, a ton horse. Two-year-olds weighing 1,800. Mahlon Groenmiller, Pomona, Kansas, (Franklin Co.)

Five Registered Percheron Stallions for sale, 1 coming 5 years; 2 coming 4 years; 2 weanlings. All blacks. F. J. Bruns, Nortonville, Kan.

REGISTERED SUFFOLK STALLION
22-months-old, out of an imported dam and by a son
of Ashmoor 3447. For sale at farm price. For pedigree and price write
Dan D. Casement, Juniata Farm, Manhattan, Kansas.

Imported Percheron Stallion for Sale Weighs 2000 pounds; black with star, Will sell of trade for land, city property, cattle or mules. P. B. DAVIS, SCOTTSVILLE, KANSAS

For Sale or Trade good, Iarge, black jacks; one purebred 2000-lb. Per-theron stallion. JOHN TUTCHER, PARSONS, KAN.

DARK GREY PERCHERON STALLION oming 3, will weigh over a ton at maturity, from mported sire and dam, well broke to work, price \$400.

J. T. Mowrer, Lost Springs, Kansas

bulls wary. They are waiting for more \$14.50 at the close. light on what Europe is going to do in sold as high as \$16 this year, also fat the matter of buying. If one could hogs. answer this question, one could easily forecast whether hogs will advance or was only natural for lambs and sheep decline. Pending the answer to this to recede last week. This they did. A question, stock hogs should be purbreak of as much as \$2 was recorded. chased very conservatively. The writer but about 50 cents of this was recoven has been moderately bullish on hogs. ered. There was a sharp break in feed. There is still hope of a better market ing lambs in line with the action of fed in the spring, but the sudden severe offerings, the close being \$1 lower, to break which has been recorded in the \$18 on fleshy feeding lambs. They are value of European money makes for too high for a conservative investment, more caution on the part of feeders. Lambs closed with a top of \$19.50 last On the basis of European buying before week. last week, the outlook was bullish on hogs. There is still a big domestic demand. So, if Europe shows signs of not cutting off her buying too sharply, then hogs will go up in price moderately. On the Kansas City market last to the market, altho the South still has a great nurshesing, nower for the south still has a great nurshesing, nower for the week hog prices broke about \$1, to a a great purchasing power for the top of \$14.25, but stock hogs sold up to present.

After having advanced so sharply, it break of as much as \$2 was recorded,

Horses and mules are quoted mostly

Farmers Oppose Class War

Year's Co-operative Business 150 Million Dollars

BY GEORGE C. WHEELER

form was an outstanding feature of the by farmers' union local business as-annual convention of the state farmers' sociations, and a milling committee educational and co-operative union held recommended that steps be taken to in Hutchinson recently. Delegates and members of the 1800 locals of the barrel daily capacity. Caution was organization from every section of the urged in putting in more "midget state were present at this meeting, repmills," as they are called. Definite resenting a total membership of more plans on the milling project were dethan 100,000. An increase of 10,000 in ferred until some time in April when membership was reported for the last the committee is expected to bring in

All thru the program, both in the closed and open sessions, appeared evidences of the saneness of American farmers. Farmers see the dangers of

Farmers Will Stand True

"The farmers of America have always stood true to the cause of their country in battle," 'said President McAuliffe. "But this new contest is not a contest of arms, but a contest of judgment against irrational-ism; a contest of order against disorder; but in this, as in all other contests, wherein the principles of democracy are at stake, the American farmer can be counted upon to be lined up on

Disrupting influences at work in the Kansas farmers' union came to a show-credit for possessing unusual nerve in down when nominations for president daring to demand such a tribunal. He were made. In nominating Maurice McAuliffe to succeed himself, Alfred Docking of Manhattan pointed out his great value as a leader in these trying times thru the close touch he has established with governmental agencies in Washington where he has frequently been called for conferences. When the votes were counted Mr. McAuliffe was found to have received a two-to-one majority.

Locals Make Big Profits

Self help, thru a pooling of individual effort in handling the business of buying and selling the raw materials of agriculture, is the big job which the farmers' union is working out, and it is making remarkable progress along this line. A conservative report of the busi-Pleasant View Stock Farm ness transactions of the many co-opera-2 good big jacks that get good mules and my French Dreft stallion. Investigate if you want profitable jacks and stallion. M. R. Peterson, Troy, Kam., Doniphan Co. of business done in the last year exceeded 150 million dollars. Practically elevators and in sight on farms. The

In listening to the many reports that were made and hearing the discussions, we were impressed with the businesslike methods being adopted. Local co-operative enterprises were urged to stick to the cash method. A thoroly modern auditing association has been created, which periodically sudits accounts of all associations desiring the service. It provides uniform systems of accounting and other help. It would seem practically impossible for a co-operative business association to fail if it but uses the means available, employs a competent manager and sticks to true co-operative principles at all

DETERMINATION on the part Greater co-operative enterprises are of the organized farmers of Kan-being planned. Already there are sevsas to fight radicalism in every eral co-operative flour mills operated establish several regional mills of 1,000 plans on the milling project were dea complete report to a directors' meeting to be called at that time.

who

Another new business development is co-operation in shipping and handling class warfare and the efforts of radicals to sweep organized farmer movements into the one big union of the I. W. W.'s of any other similar group. As one speaker said, "There is only one big union in this country, and that is the 100 million strong over which floats the stars and stripes."

Investock. A number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only a small number of local shipping associations are doing business successfully, and insuring fair prices to men who have only livestock. A number of local shipping the strongest at the Kansas City yards, handling during 1919 2,263 cars of cattle and a total of 2,665 cars of all classes of stock, valued at 5½ million dollars. About 25 per cent of the commissions collected will be pro-rated back to its member patrons, or used for the creation of a reserve to their credit.

Governor Applauded Loudly

The evening meetings were open and large audiences were in attendance. Governor Allen told of the industrial court bill and disclaimed any great said he knew he had the people of Kansas standing back of him and particularly the farmers, and felt sure even the miners would soon find the court a far superior weapon to the strike.

In the report of the legislative committee a graduated land tax was favored as the only means of checking speculative increases in land values. The county unit system of taxation for school purposes was favored, opposition to all price-fixing power expressed, but a demand made that enforceable laws be passed to prevent and punish profiteering in the necessities of life. The legislature was asked to pass an antidiscrimination law and a law embodying the principles of the Torrens land title system. A demand was also made for some just means of enforcing distribution of cars for shipping grain in every co-operative enterprise made convention pronounced itself in form of a law permitting the formation of cooperative banks,

In national legislation the convention indorsed the principles of the Kenyon-Kendricks bill and the Capper-Hersman bill, clearly giving farm co-operative associations the right of collective bargaining, asked for enlargement of federal loan act, extending more privileges to the control of the control ileges to the man without land, colltinuation of high taxes on excess profits of corporations until war expenses are paid, and declared sympathy with the movement to prevent undesirable aliens getting into this country, urging deportation of all resident aliens plotting against our government. Opposition was expressed to the Cummins Railsolution to all parties.

move of special significance was beef-cattle industry is practically new. tarting of plans for a state buildone of the purposes of beef-cattle
to house the offices and records of extension activities is to eliminate

special fund and every local urged to at once a campaign for voluntary riptions to the fund.

The directors were also authorized to appropriate whatever seemed to be the just proportion of Kansas to the temple griculture, a building to stand in lington as the home of agriculture. move is being promoted by the a federation of farm organizations with which the national farmers' union is affiliated. Charles A. Lyman, its secretary, spoke on the work the national board is doing in representing farmers in Congress and before governmental agencies. He said that it now represents 2 million organized farmers. Other speakers at the open meetings were J. C. Mohler, secretary of the state board of agriculture, who spoke on the cost of producing wheat, Senator Delaney, speaking on hard roads, Miss Loraine Wooster, state superin-tendent of public instruction, W. P. Lambertson, speaker of the Kansas house of representatives, Ben Hagler, member of the legislature from Sedgwick county, and Eustace Smith, formerly an officer of the 140th infantry, who spoke in behalf of the American

John Tromble of Beloit was unanimously reelected vice-president. Dan Thurston Delphos, secretary: Grant Thurston, Delphos, secretary; Grant Bliss, Stockton, treasurer, William G. Svanson, Vliets, state lecturer, John Sheel, Emporia, conductor, M. V. Gates, Lorun, door-keeper and V. C. Anderson of Wellington and O. M. Lippert to the board of directors. The next meeting will be in Topeka where the convention what he held according to the consti-Thurston, Delphos, secretary; must be held according to the constilature is in session.

Livestock Associations Formed

lifty-nine livestock breeders' assoclations, with a reported membership 1.524, were organized during the last fiscal year with the help of United States Department of Agriculture ex-

HEREFORD CATTLE.

Anxiety and Fairfax HEREFORDS

Perfection Fairfax. Herd header ready for service. Open heifers. R. GOODMAN, WHITE CITY, KAN.

HEREFORD COW BARGAINS

Printy 5-year-old bred cows at \$200 per that A few young bulls at \$85 to \$125 per head. All registered. Prices for immediate sale.

Fred O. Peterson, R. 5, Lawrence, Kan.

Discriminating Hereford Buyers We Offer NOW

coming yearling bulls, Columbus, Anxiety
s. Breedy character and proper conforma-Unpampered but in better than pasture
lion. 7 registered, 5 unregistered, but equaledibred. All high class farm bulls.
Soil want one or more of the 12 yearling
write now to W. C. Cummings, Hesston, Kan.

What's in a Name?

\$50, \$30, \$20 for the best four names for one of Monarch. Think it over and suggest the to me by mail at once. for my new mail order plan and public

4. 9. Southard, Comiskey, Kan.

H

ro

Registered Herefords

A roung cows out of a daughter and a grand-qualifier of Caldo 2nd, bred to a son of Beau blooked 46th. A 4-year-old herd bull. For sale starm prices. For pedigrees and prices write DAN D. CASEMENT. Manhattan, Kan.

EREFORD BULL

RAY E. HANNA, CLAY CENTER, KANSAS

road Bill, and it was declared that the tension specialists. In addition numerpresent status of the railroads should ous calf clubs were organized among continue until Congress worked out a the boys and girls. Much of the work is being done in regions where the

organization and stand as a symor what agriculture means to the
Already several thousand dolhave been sent in by the various
This money was placed in a county agents.

Care of the Foals

A strong foal will be on its feet and trying to nurse in less than an hour from birth. Such a foal needs no help, but a weak one will have to be held up to suck until strong enough to do so without help. Wash the udder of the mare with a lukewarm 2 per cent solation of coal tar disinfectant and then rinse off with warm water before the foal is allowed to suck for the first time. The external organs, tail and hind parts of the mare should be washed with a similar solution once a day for the first week or so after the

birth of the foal.

Keeping the udder free from infective matter in this way tends to prevent the foal from scouring, for that condition of the bowels often is due to germ infection of the intestinal tract by way of the mouth. Disinfection of the navel cord also tends to prevent scouring. At birth the intestine of the foal contains a sticky mass of fecal matter. This should come away promptly and usually this is accomplished by the first milk (colostrum) which possesses purgative properties.

To assist nature, either insert a small tallow dip candle (made for this purpose) in the foal's rectum, or within an hour from birth, give an injection of either warm water, warm slippery elm bark tea, flaxseed tea, sweet oil, or a mixture of equal parts of cream, molasses and warm water, and repeat in 12 hours if required. Harm may be done by injecting a large quantity of strong, soapy warm water with an ordinary "horse syringe." A fountain syringe is to be preferred and it should have a small, hard rubber nozzle, or a small, clean rubber hose and funnel. Smear vaseline or lard on the nozzle and in the rectum before giving the injection. If the bowels do not move within 24 hours from birth and the foal seems sick, shake up 2 to 4 tablespoonfuls of pure castor oil in milk, or a mixture of equal quantities of castor oil and sweet oil, according to size of foal, and give as one dose. Then continue the injections at intervals of 6 hours.

In case the mare dies or has no milk the foal may be raised on cows' milk, if the attendant conducts the work patiently and intelligently. Choose the milk of a cow that has recently calved, preferably one which gives milk low in butterfat, for mares' milk, while rich in sugar, is poor in fat. Sweeten the milk with molasses or sugar and dilute with warm water. Give a little of this prepared milk at short intervals from a scalded nursing bottle and large rubber nipple. Be careful to keep the bottle and nipple scrupulously clean. Add an ounce of lime water to each pint of the prepared milk and allow half a cupful once an hour at first.

As the foal grows, gradually increase the amount of milk fed and lengthen the intervals between meals. In a few days food may be given six times a day and, later, four times daily. The foal will soon learn to drink from a pail, if allowed to suck the attendant's

Until the bowels move freely, give lections night and morning. If the foal scours at any time give 2 to 4 tablespoonfuls of a mixture of sweet oil and pure castor oil shaken up in milk and stop feeding milk for two or three meals, allowing sweetened warm water and limewater instead. Let the foal lick oatmeal as soon as it will eat and gradually increase the amount and add wheat bran. In five or six weeks some sweet skimmilk may be given and the amount gradually increased daily until, in three months or so, it may be given freely three times a day in place of new milk. The foal at this age also will be eating freely of grass, grain and bran.

At all times supply pure cold drinking water. Let the foal run out in a

800 Herefords

In the big 5-day auction known as The Annual Hereford Round-Up

Kansas City, Mo., March 1-2-3-4-5

The Hereford Round-Up Sale is under the direct management of the American Hereford Breeders' Association.

400 Bulls—400 Females

Consigned by 102 consignors representing 11 states

They range from the highest_class of cattle to the plainer sorts you can buy at your own price. This will be the biggest sale ever held. Big sales always mean bargains. This sale will mean more bargains than ever before.

Send For Your Catalog Today

mentioning the Kansas Farmer and Mail and Breeze. This is your big opportunity to buy Herefords either singly or by the carload. The catalog in itself is an annual chapter in Hereford history. As a breeder or beginner you need it. Get your catalog. Attend the sale. Get some of the bargains. Be sure to mention the Kansas Farmer and Mail and Breeze when writing.

R. J. Kinzer, Sec'y, Kansas City, Mo.

Auctioneers—Col. Fred Reppert and Assistants.

O. W. Devine represents Kansas Farmer and Mail and Breeze.

HEREFORD CATTLE

Blue Ribbon Stock Farm HEREFORDS

200 cows, helfers and bulls—200. Chief herd sire, Don Balboa 14th 596021 by Don Carlos, a bull with over 40 Gudgell & Simpson crosses. Mated with 60 two-pear-old helfers sired by Sir Dare 417529 by Paragon 12th. We have what you want and the prices are in line.

Lee Bros., Harveyville, Kan. Wabaunsee County

Southard's **Monarch Herefords**

Write for my new mail order plan for selling Monarch Herefords.
You get the best, express prepaid, you to inspect animals before you pay.
Also ask for my big spring sale catalog; 200 head.
For 30 days I will send all who write about my new selling plan a picture of the mighty Monarch.

J. O. SOUTHARD, COMISKEY, KAN.

PLEASANT VIEW STOCK FARM

Herefords, Percherons, Durocs For sale. Five bulls from 10 to 12 months old, by Domineer by Domino. A nice string bull calves and six bred cows. A nice young stallion. Address,

Mora E. Gideon, Emmett, Kan. (Pottawatomie county)

POLLED SHOBTHORNS.

POLLED SHORTHORNS

175 in Herd Young Bulls For-Sale J. C. BANBURY & SONS Plevna, Kan. Phone 2803.

10 Polled SHORTHORN Bulls

Big husky reds and roans 12 to 20 mos, old. Priced to sell. Can spare a few females. C. M. HOWARD, HAMMOND, KANSAS.

SHORTHORN CATTLE.

Genuine Herd Bulls by Master of the Dales Collynie Bred Cows

Master of the Dales bulls are proving themselves splendid breeding bulls and we can show you a few real bulls of first class herd heading character.

They are a practical, husky and well grown lot that will appeal to breeders wanting bulls of real merit.

H.M. Hill, La Fontaine, Kan.

Milking Shorthorns

(Of the Best Bates Breedling)
We have bred them exclusively for 20 years and find that if you want beef and milk under the same hide you certainly can get it from the Bates bred Shorthorn.

Bulls for sale. Write for descriptive list.

O. M. Healy & Son, Route 1, Muscatine, Ia.

FOR SHORTHORN BULLS

All ages. Address

HUNT BROS., BLUE RAPIDS, KAN.

Five bulls for sale, pure Scotch, splendid-individ-uals. Ages 12 to 20 months. Farm joins Topeka on the west. HARRY T. FORBES, R. 8, Topeka, Kan.

New Buttergask Shorthorns

ready for service. Also bred cows.
MEALL BROS., CAWKER CITY, KANSAS
Mitchell County

FOR SALE, 4 SCOTCH and SCOTCH-TOPPED SHORTHORN BULLS

from 12 to 18 months of age, red and roan. Also some Scotch bred females with calves by side. Come and see them. H. C. GRANER, Lancaster, Kansas.

Scotch and Scotch Topped bulls. Serviceable ages. Reds. roans and white. Some real herd bull material. Visitors met at U. P. of Rock Island trains.

Jacob Nelson, Broughton, Kan. (Clay Co.)

Saline Valley Shorthorns For Sale Registered bulls, all reds, 6 to 20 months old. For descriptions and prices write O. O. Runyan, Ogallah, Kan-GROSNICK FARM SHORTHORNS Good husky bull at a low price. Herd headed by Color Bearer, grandson of Avon-dale. O. E. R. Schulz, Ellsworth, Kansas.

Jefferson County **Shorthern Breeders**

A carefully selected offering 40—Thriffy Shorthorns—40

Valley Falls, Kan., Tuesday, Feb. 24

A carefully selected offering of useful cattle in fine condition, drafted from the best herds in the county. 20 cows, 15 heifers,

20 thick fleshed cows, a number with calves at foot, others heavy springers. 15 choice heifers, several safe in calf. Five rugged useful bulls, from eight to 15 months old, decidedly the best lot ever offered in the county.

These cattle represent such sires as Oale Cumberland, Gwendo-

lines Lad, Sultan Supreme, Silk Goods
The catalog tells the whole story. For one address,

E.S. Mitchell, Sale Director, Valley Falls, Kan.

From Everywhere

The 250 show Shorthorns which will be sold in the Third National Shorthorn Congress Sale at Chicago, Feb. 17, 18, 19, are representative of the breed's best productions in all parts of the United States. Every

mima' competing for the \$5,000 prize awards will be sold at auction,



it is the great get-together event for Shorthorn tolks and all others who are interested in bovine

You and your neighbors are cordially invited to attend and take advantage of the occasion to extend your acquaintanceship among progressive folks from all parts of this country and abroad.

The neetings and banquets will be addressed by prominent Shorthorn

American Shorthorn Breeders' Association 13 Dexter Park Ave., Chicago, Ill.

SHORTHORN Bulls for Sale 4—Scotch Bulls—4

Some herd bull material here. few good Scotch topped bulls. All good individuals. Bred right and

C. H. White, Burlington, Kansas.

Shorthorn Dispersion

Private Sale.

Have 1 berd bull, 16 cows and 12 young bulls at private sale. Herd bull Brilliant Tyris by Cumberland Type; a 2-year-old red bull. One Scotch cow with bull calf 3 months old at foot. 15 Scotch topped cows, 12 will have calves in February. March and April. The young bulls are from 6 to 12 months old. Write for list giving age and breeding. I will be pleased to show you these cattle. Arties will be met at train when sotified.

Warren Watts, Clay Center, Ks.

ELMHURST SHORTHORNS

I have seen preeding registered Shorthorns for 15 years using the blood of such bulls as Gallant Knight, Hamuton's Best, Lord Mayor, Lavender Viscourt and Avondale. Several good young bulls for sale. Also 10 to 15 very destrable females. An excellent chance for a tours non herdi W. J. SAVRE C DAR POINT, KANSAS

Vail & Scott's Shorthorns

with and Scotch-tops for sale. Includes our herd ill heed by Owens Bros., Homestead, Iowa; 2 year-ng and 4 10-month-old bulls—good rugged fellows. VAIL & SCOTT, POMONA, KANSAS

Salt Creek Valley Shorthorn Cattle

Pioneer Republic County Herd Established in 1878

For Sale: A splendid two year old Scotch bull, solid red, wt. at matur-ity 2500 lbs. Also a fine Scotch youngster and 10 Scotch tops, Ages from six to 16 months,

E. A. Cory & Sons, Talmo, Kan.

Amcoats Shorthorns

Scotch and Scotch Tops. Some choice females to sell. Bulls ready for service: Six, two pure Scotch, four Scotch topped.

S. B. Amcoats, Clay Center, Kan. Visitors met at Rock Island c. Union Pacific Depots.

Bulls Pulls Bulls

bulls. Re is and roans Can ship over Mo. P., U. P. Rock Island

W. F. BLEAM & SONS, Bloomington, Kan.

PEARL SHORTHORNS

Bulls, Scotch and Scotch topped, six to 18 months, for sale. Reds and roans. Can ship over Rock Island, Santa Fe, Missouri Pacific and Union Pacific.

C. W. TAYLOR, ABILENE, KANSAS

Shorthorn Cattle

For Sale-Five young Scotch bulls and ten head of females, bred or calves at foot.

lot or grass paddock for exercise. Accustom it to be handled da v. Feed small quantities of nutritions food so few of the Mulefoot hogs in the often, keeping all food vessels clean, country that even were they better than and the foal should thrive and develop well.

Progress in 20-Year Experiment

The 20-year breeding experiment which the Bureau of Animal Industry, United States Department of Agriculconducting in co-operation with the Kansas Agricultural Experiment station at Manhattan, has been in progress since September 1, 1915. The principal objects are to determine whether the milking tendency in beef cattle in transmitted mainly by the dams thru the male line of descent, and to what extent this milk-giving function of the dam influences the beef character of the progeny. Several steers and bull calves have shown un-usual merit and have become prize winners of importance.

Experiments of the kind mentioned are particularly adapted to co-opera-tive federal and state work. The great length of time necessary for satisfactory results in cattle breeding and the need for records of official character make it difficult for individual breeders to conduct the work in a manner like. to be of general value to the industry.

Stocks of Hides Increase

Increased stocks of hides and skins on December 31, 1919, compared with the same date in 1918, are shown for hog out properly because corn is lack-the principal classes, with the excep-tions of sheep and hog skins, by the monthly report of the Bureau of Mar-certain to be weak in bone and to de-

Ac- same degree of popularity as the older and more numerous breeds. There are country that even were they better than the other breeds, the fact could not become very generally known since there would be so few opportunities for the public to see and learn about them.

"To illustrate the small opportunity which the general public has to learn about this breed, I will give the following comparative figures:

"During 1918 about one-third of a million hogs of the various breeds were recorded in the United States. Of this number 92,286 Durocs were re-corded and about 105,000 Poland Chinas, not including Spotted Poland Chinas. During the same period the registration of the Mulefoot hogs reported by the American Mulefoot Rec-ord association was 309.

"The breed has some good qualities and a few exhibits are made at some of the state fairs each year. The breed is not immune to cholera, but may have some degree of natural resistance."

Feeding Hogs for Growth

C. F. B., Kingman county, asks for suggestions on feeding a young hog for rapid growth and the development of good bone.

There is no special secret about feed-ing hogs so they will grow out to proper size and with good strong bone. It is a matter of giving plenty of feed and not too much of any one thing. In other words supply a variety of feeds. Exclusive corn feeding will not grow a

HOW WE LOSE ADVERTISERS

Livestock Service Capper Farm Press:

"In regard to my card in the Kansas Farmer and Mail and Breeze, I am about sold out and it brings so much inquiry that I have decided not to use the space for a while till I get caught up with my other work. It has taken practically all of my time for the past two months to answer inquiries and crate and ship hogs. THOS. WEDDLE, Breeder of Spotted Poland Chinas, Wichita, Kansas, January 21, 1920.

Agriculture.

Increases, in percentages, were: Cattle hides, 11.4; calves, 31.9; kip skins, 70.9; horse hides, 135.6; horse fronts (whole), 1,353.8; horse butts, 92.1; kangaroo or wallaby, 196.6; goat, 126.9; kid, 116.3; cabretta, 126.5; and buffalo, 801.1. Decreases included: Horse shanks, 39.5 per cent; deer and elk, 29.1; sheep and lamb, 35.4; pig and hog skins (pieces), 40.7; and strips, 17.5. With a few exceptions the December, 1919, figures also show increases over those for November 29, 1919.

Total stocks on December 31, 1919, included: Domestic and foreign cat-tle hides, 7,206,511, classified as follows: Packer green salted, 3,389,022; country green salted, 1,062,035; dry and dry salted, 95,312; fore 2,660,142. Totals for calf skins were for kips, 1,107,891; goat, 15,... 8 sheep and lamb, 9,138,679; and cao. ta, 2,092,029.

To Control Sheep Diseases

The rapid increase in sheep raising in Nebraska has brought with it a demand for more information, espe-cially about sheep diseases. United States Department of Agriculture Farmers' Bulletin 713 deals with sheep scab, one of the oldest, most conta-gious and most injurious diseases af-fecting sheep. If not curbed soon after it is introduced into a flock it spreads with great rapidity and does serious damage. The bulletin deals with the symptoms, contagiousness, treatment, dipping, cleaning and disinfecting premises, and dipping tanks. It may be obtained from the Nebraska University, Lincoln.

why Mulefoot hogs are not more widely popular, the livestock editor gives

H. H. HOLMES, R. F. D. 28, Topeka, Kan. not be possible for them to enjoy the required only 3.9 pounds of feed to each

...ed States Department of velop fat at the expense of growth.
Our correspondent says nothing about the age of the hog in question, or what feeds he has on hand or can buy. If the hogs are fall pigs of September farrow they should be weighing 35 or 40 pounds apiece and be well able to shift for themselves if having enough feed and provided with warm sleeping quarters having dry floors kept as free from dust as possible. Somewhat more care and attention must be given to fall pigs than to spring pigs, since they are necessarily in close quarters more than the spring pigs. The larger portion of the grain fed can be corn or some corn substitute such as kafir, milo, barley or oats. These feeds should be ground to give the best results. They are only slightly inferior to corn in actual feeding value, altho some of them are not quite so keenly relished by the hogs as corn. The protein and mineral matter necessary for proper growth is lacking in these grains and other feeds must be supplied to make up the deficiency. There is nothing better of more economical for supplying protein tan tankage or meat meat. Pigs of this age can make use of tankage or meat meal profitably to the amount of about 10 per cent of the total ration. By using a self-feeder with the different feeds in separate compartments the pigs will balance their own rations about right, providing there is always plenty of corn or whatever grain is being fed in feeder.

More rapid gains can be made by increasing the variety of the feed supplied. Adding shorts, for example, to a corn and tankage combination and semi-solid buttermilk which can be purchased from the large creameries will quite materially increase the gains and also make them cheaper with the pres-Not Many "Mulefoots",

Answering a recent inquiry as to hy Mulefoot hogs are not more widepound in addition to other feeds more than paid for itself in the increased "Replying to your inquiry about meal and semi-solid buttermilk were fed Mulefoot-hogs will say, that it would as supplements to corn and the pigs not be possible for them to enjoy the lder are the

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fed pigs each

pound of gain made during a 90-day show that persons agreeing to use only period. The pigs gained at the rate of 1.31 pounds daily. All the feeds were stock kept include general farmers, supplied in separate compartments of ranchmen, prominent breeders, and a self-feeder except the buttermik which was fed by hand, giving the pigs all they would eat twice a day. It the commissioner of agriculture. About 10 per cent of all names on the records are those of women. average amount eaten daily by each pig

was about 4 pounds.

If the pigs are being developed for breeding purposes do not fail to encourage their taking a reasonable amount of exercise. If alfalfa or cowpen hay is available keep some before them constantly in a suitable feed reals. them constantly in a suitable feed rack. This adds variety to the feed and there is nothing that can be fed a hog which is better for producing strong vigorous frames and hard flinty bone. The self-feeder will save labor and all tests indicate that it is fully as economical a method of feeding hogs as the hand method.

Goat Flock Graded Up

Saanen and Toggenburg blood pre-dominate in the flock of milk goats used for experimental purposes by the Rureau of Animal Industry, United Bureau of Animal Industry, United States Department of Agriculture, at its farm at Beltsville, Md. A report of the bureau shows that 12 does are being milked, and that the flock of female yearlings and kids amounts to 20 head, most of which have either seven-eighths or fifteen-sixteenths Samen or Toggenburg blood. Lower-grade animals of the earlier crosses have been removed from the flock.

Armour Sales Pass Billion

Gross sales of Armour & Co. for the fiscal year ending November 1, 1919, according to a recent announcement, were 1,038 million dollars, and the net income was \$14,098,506, according to the annual report to stockholders. This was the first year in the history of the company when the gross sales passed billion dollar mark, the report area. said, the figure comparing with gross sales of 861 million dollars in 1918.

Mules Sell at Ft. Scott

the recent Ft. Scott sale, one team of coming 2-year-old mules for \$900 and a team of yearlings for \$605. The latter were by a jack bred by H. T. Hineman & Son, Dighton, Kan. He hought at Wichita, January 29, 11 bought at Wichita, January 29, 11 bought of \$3,675 to resell. Jim Godman, Devan, Kan., sold in

Enroll for Better Livestock

A noteworthy result of the "Better pound. Sires—Better Stock" movement is the peras. mutual interest in purebred sires al- A n

Progress in Morgan Horses

That the breeding of Morgan horses at the Morgan Horse Farm of the United States Department of Agriculture is making excellent progress is shown by a report of the Bureau of Animal Industry. The farm is located at Middlebury, Vt. At the end of the last fiscal year there were on hand 9 mature stallions, 11 young stallions, 80 mares and fillies, and 7 geldings (including 8 draft work geldings), a total of 57 animals.

A test in feeding weanling colts all the grain and hay they would eat has given excellent results in growth and development without harmful effects. The average daily feed consumed by the colts in this test was: Oats, 8.52 pounds; bran, 8.39 pounds; alfalfa, 8.25 pounds; timothy, 4.91 pounds.

Object Lesson in TB. Control

The District of Columbia is an ex-cellent example showing that bovine tuberculosis is vulnerable to a definite campaign of eradication. The report of the Chief of the Bureau of Animal Industry, United States Department of Agriculture, gives the following striking percentages: In 1907 tuberculin ing percentages: In 1907 tuberculin testing in the District was undertaken and more than 18 per cent of the cattle were found to be tuberculous. Tests made in 1919 on all cattle in the District showed a percentage of only 0.63 of 1 per cent affected. This is lower than any previous year and the disposal of the last reactors makes the District practically a tuberculous-free area.

Hogs Need Mineral Mixture

Experience has taught the stockman that a mineral mixture is a good thing to keep before the hogs in the winter

pounds of wood ashes; 100 pounds of air slacked lime; 100 pounds of ground rock phosphate; 50 pounds of salt; 10 pounds of sulfur; and 5 pounds of cop-

A mineral mixture such as this is ready manifested by persons having not considered necessary in the sumvarying degrees of experience in the livestock business.

Records of the United States Department of Agriculture just made public has all the salt and water he wants, he declares.

THE LIVESTOCK SERVICE

of the Capper Farm Press

Founded on four great papers, each excelling in prestige with the farmers and stockmen of its territory, the four covering, respectively, the states of Kansas, Nebraska, Missouri and Oklahoma and adjacent sections of adjoining states.

FOR BUYERS: When livestock of any kind is wanted, look thru our advertisements and write those breeders who seem likely to have what you want, always mentioning this paper. Write this department direct at any time, describing the livestock desired and we will be glad to help you locate it.

FOR SELLERS: Those who have livestock for sale, will find that advertising thru one or more papers of the Capper Farm Press is the most businesslike and effective means of locating buyers. Ask this demost businesslike and effective means of locating buyers. Ask this demost businesslike and effective means of locating buyers. Ask this demost businesslike and description of animals for sale. If helping, always giving number and description of animals for sale. If helping, always giving number and description of animals for sale. If helping wanted in the preparation of advertising copy, give such other information as can be used to attract the interest of prospective buyers. Such matters as the time of year, cost of feed, condition and value—of animals and time available for selling, should be considered in deciding animals and time available for selling, should be considered in deciding animals and time available for selling, should be considered in deciding animals and you best interest to use a full page. This paper may afford you ample service or you may need the whole Capper Farm Press. Give us full particulars and you will get honest and competent advice.

It is a good idea to keep in touch with your territory manager as much as possible. His judgment, experience and constant travel and observation always will prove valuable to you. Inquiries and instructions to headquarters can be addressed:

Livestock Service of the Capper Farm Press, Topeka, Kan.

Livestock Service of the Capper Farm Press, Topeka, Kan. T. W. MORSE, DIRECTOR AND LIVESTOCK EDITOR

OFFICE AND TERRITORY MANAGERS: E. S. Humphrey, Main Office, Topeka, Kan.
John W. Johnson, Kansas, 820 Lincoln St., Topeka, Kan.
J. T. Hunter, S. W. Kan. and W. Okla., 427 Pattie Ave., Wichita, Kan.
J. Cook Lamb, Nebraska, 3417 T St., Lincoln, Neb.
O. Wayne Devine, Missouri, 300 Graphic Arts Bldg., Kansas City, Mo.
S. T. Morse, E. Okla., S. E. Kan., and S. W. Mo., 517 West 3rd St., Joplin, Mo.
H. P. Steele, Iowa and N. E. Neb., 203 Farnam Bldg., Omaba, Neb.

Northwest Kansas Polled Shorthorns

Breeder's Sale

An offering of Polled Shorthorns drawn from several herds in Northwest Kansas. Sale in town

Lebanon, Kan., Friday, March 5

Consignors:

Geo. Hammond, Smith Cen- R. L. Taylor & Son, Smith Center, Kan. ter, Kansas.

H. A. Johnson, Red Cloud, Neb. D. S. Sheard, Esbon, Kan. Willson & Davidson, Lebanon T. S. Shaw, Glade, Kan.

The offering is a good one as follows:

12 cows with calves at foot-six heifers coming two years old, sold open, five heifers coming yearlings, Three herd buils and 13 young bulls old enough for service. Reds and roans. Some of the best families of the breed are represented in this

You are interested in calf clubs

A called meeting of the Northwest Kansas Shorthorn Breeders' association will be held in Lebanon in the evening of the sale. You are invited whether you are a member or not if you are interested in Shorthorn cattle. The question of calf clubs will be taken up. Catalogs for the sale ready to mail. Address,

T. M. Willson, Sale Lebanon, Kan.

Auctioneers: Joe Shaver, Col. Ryan; J. W. Johnson, Capper Farm Press.

Lebanon is on the main line of the Rock Island west of Belleville. It is in Smith county and all night trains stop there. The catalog gives you full information. Write for it at once.

A Dispersal of **Shorthorn Cattle**

The herd comprises 75 head and is being sold on short notice in very ordinary condition.

Sale at our farm 7 miles southwest of Lindsborg, Kan., Tuesday, March 2

The offering consists of seven bulls, including the herd bull, Columbian Dale, a straight Scotch, Tomson bred bull; 46 bred cows and heifers-22 open heifers. A majority of these cattle are either Scotch topped or carry a strong mixture of Scotch blood. Herd founded 15 years ago. Good useful cattle that will make good anywhere. Catalogs are ready to mail. Address

Anton Peterson, R.D.2, Lindsborg, Kan. J. A. Morine, McPherson, Kansas

All cattle tuberculin tested.

1886—Tomson Shorthorns—1920

Headquarters for Herd Bulls

We offer a large number of extra good bulls that are ready for service. They are some of the champion Village Marshal by Cumberland Marshal; Beaver Creek Sultan, a grandson of Whitehall Sultan; Gregg's Villager, one of the great sons of Villager; Imp. Newton Champion, Imp. Lawton Tommy and Diamond Baron.

They are of the most fashionable strains out of imported and home bred dams of the Augusts, Marigold, Jilt, Victoria, Roan Lady, Lavender, Orange Blossom, Duchess of Gloster, Sunnyblink and other very select tribes. They are nearly all roans and of extra good individuality. Come and see them,

TOMSON BROS.

Carbondale, Kansas OF R. R. Station Wakarusa on Main line of Santa Fe

Dover, Kansas R. R. Station Willard on Main line of Rock Island

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ABERDEEN ANGUS CATTLE.



MARTIN'S ANGUS

20 Bulls, 12 to 30 months old. Car of 3 and 4 year-old cows, bred, at \$125. Come or write.

J. D. MARTIN & SONS R. 2, Lawrence, Kan.

Cherry Vale Angus Farm Offers 6 buils, ranging from 8 to 23 months old, also Herd Bull Roland L. No. 187220.

Write for prices. J. W. TAYLOR, R. 8, CLAY CENTER, KAN.

Special Angus Offering egistered young cows bred to show buils, hree-year-old heifers bred, 35 yearling ers. Young bulls serviceable ages, A SUTTON FARM, RUSSELL, KANSAS

RED POLLED CATTLE.

FORT LARNED RANCH

A number of choice one and two-year-old bulls and helfers from one to three years old. E, E. FRIZELL & SONS, FRIZELL, KAN.

Milk-Butter-Beef RED POLLED

We can now furnish a few young bulls from large, thick-fleshed cows, yielding 9,000 to 13,000 pounds of milk per year. One of our bulls will increase the production of your herd. 20th Century Stock Farm, Quinter, Kansas

COBURN FARM RED POLLS Red, Polt Cattle—7 Bulls, 10 to 15 months old, also weaned bull calves and a few holfers; calves up to 2 years old, 90 head in herd. Malfion Groenmiller, Pemona, Kansas, (Franklin Co.)

Red Polls 1 coming 3-year-old bull caives. Well bred good individuals. C. Walter Sander, R. 2, Box 9, Stockton, Kan.

RED POLLS. Choice young buils and heifers. Write for prices and descriptions. Chas. Morrison & Son. Phillipsburg, Kansas.

FOSTER'S RED POLLED CATTLE Choice young bulls, priced reasonable. C. E. Foster, R. 4, Eldorado, Kansas

JERSEY CATTLE.

Hillcroft Farms Jerseys headed by Queens' nounced the best bred Jersey bull in Missouri, a Register of Meritson of Raicigh's Fairy Boy, the greatest bull over imported, 54 tested daughters, 86 tested granddaughters and 34 producing sons, Choice bull calves for single. Rafarance Bradderset M. L. GOLLADAY, PROPR., HOLDEN, MO.

REGISTERED JERSEYS FOR SALE "Hood Farm Breeding." My herd bulk Royal Missel's Torono, also three choice bulls by him, ready for service; a fow females. Have rented my farm and want to sell.

S. S. SMITH, CLAY CENTER, KANSAS Registered Jerseys For Sale

Bulls or cows. O. E. Cochran, Kincaid, Kan. REGISTERED JERSEY BULL CALVES, sired by Oakland's Sultan 2nd, \$50.
PERCY LILL, MT. HOPE, KANSAS.

FOR SALE—Registered yearling Jersey bull, solid color, fine breeding, Write for price, picture, pedigree. A.H. Knoeppel, Colony, Kan.

CHESTER WHITE HOGS.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from by great herd in every community where I am not already repmonths old. Write for my plan- More Money from Hogs.

G. S. BENJAMIN, R. F. D. 1 Porsland, Michiga.

Herd Boar Material

10 September boars by Don Tip Top and Don Com-bination. I want to move them in the next 80 days ARTHUR MOSSE, LEAVENWORTH, KAN. Kansas Herd Chester White Hogs.

PRINCE TIP TOP CHESTER WHITES

We can fill your wants for anything in better Chesters. Prince Tip Top heads the herd. HENRY MURR, TONGANOXIE, KANSAS

CHESTER WHITES Choice fall boar pigs, and a few bred glits. E. E. SMILEY, PERTH, KANSAS. SUNFLOWER HERD CHESTER WHITES Bred sows and gilts; boar pigs; priced right. C. H. Cole, North Topeka, Kansas

CHESTER WHITE BOARS AND GILTS For sale. Sired by Bob. Tip Top, Best of breeding. W. H. Lynch, Neosho Rapids, Kan

O. I. C. HOGS.

BEGISTERED O. I. C. PIGS FOR SALE W. K. Mueller, R. 4, St. John, Kan.

O. I. C. BRED AND OPEN GILTS, priced to sell. E. S. Robertson, Republic, Missouri, WHEN WRITING TO OUR ADVERTISERS PLEASE MENTION THIS PAPER

Holstein Dispersion Sale Brings \$55,000

135 Head Average \$407.25

Practically every Kansas record for a public sale of Holstein-Friesian cattle was broken in the Neale dispersion, Manhattan, Kan., February 5 and 6. In this sale, which A. S. Neale was making to give his sons a larger share in the business and provide for other business readjustments, he sold practically every important animal in the herd except-ing the chief herd bull, Lakeside King Segis Alban De Kol, and one young bull by that famous sire. As is the custom in Holstein sales, all calves were sold separate from the cows, so that the average of \$407.25 for 135 head means considerably more an animal than the same average figured on the usual basis for beef cattle sales. In the offering of 135 head about 25 were calves ranging in age from 1 week to 11 months, which were sold as separate lots. The only calf which was. not sold separate from its dam was less than 10 hours old. Prices ranged from \$50 up to \$1,850. The most interesting incident as to prices occurred



The \$1,850-Model Segis Erica.

The \$1,850-Model Segis Erica. reduced the total of the sale by \$10,000. It was the genuine and undisputed value of the cattle sold, which compelled prices that were paid. Evidence of this fact was found in the presence of distinguished bidders among whom were Senator F. L. Martin, Hutchinson, Kan.; Fred Pabst, proprietor of the Pabst Stock Farm, Oconomowoe, Wis.; O. H. Wathen, Jeffersonville, Ind.; and Dr. W. H. Mott, Herington, Kan. Pabst Stock Farm was after the choicely bred calves and youngest heifers and was the heaviest buyer of this class of cattle, paying from \$300 to \$800 for the youngsters which came up to their requirements.

The top price for young bulls was

\$950 paid by J. M. White, Topeka, Kan., for King Segis Model Butter Boy, an 11 months old calf. This was seld as the choice bull calf by Mr. Neale's famous bull, Lakeside King Segis Alban De Kol. From this price bulls sold down as low as \$50 for little calves, nearly all of them being bargains.

It was unfortunate that the week's

series of meetings at the Kansas State Agricultural college had to be called off to protect the students from a possible spread of influenza, as the circumstances under which the cancellation announcements were made undoubtedly kept away a great many who had planned to attend the sale. Their absence, however, only served to emphasize the value of the offering sold and the estimate which hard-headed business men put on such cattle as the prime agencies in a real money making business

All sale arrangements were good, the orking out of the details having been in the hands of Mr. Neale himself and Col. L. R. Brady of Manhattan, whose talent in that line is well known. The actual selling was done by Col. Hager, with pedigree reader Woods assisting and Colonels Ball, Newcom and Mack in the ring. We give below, not a com-plete list, but only a list of representative transactions:

BULLS

BULLS
Butter Boy Artis Veeman, two years,
Jones & Young, Manhattan, Kan... \$ 625
Bull calf, nine months, Everett Hays,
Manhattan, Kan... 150
King Segis Model Butter Boy, eleven
months, White & Wood, Topeka, Kan. 950
Admiral Genesta Prilly, one year, W.
H. Mott, Herington, Kan... 200
FEMALES
Calf, nine months, Fred Paket One



Glista Erica 134897, and Four Daughters of the Famous Glista Family Developed at Cornell University, Which Brought \$7,000.

HAMPSHIRE HOGS.



Pine Gold 1st 70578-No. 38 in sale

Whitaker and Darby's HAMPSHIRES

at public auction at

Marshall, Missouri Tuesday, March 2

60 bred sows and gilts. A choice offering of tried sows and fall yearlings bred to farrow in March and April. One of the best lots of Hampshires to be sold this season. Sired by such boars as Cherokee's Ideal, General Tipton, De Kalb King Jr., and other noted breed sires. All immuned. Bred to General Foch, Eddie Tipton, Wickware Jr. 2nd, Missouri Boy and Liberty Boy.

Write, mentioning this paper, for the illustrated catalog, giving complete information of the herds and sale offering. All mail bids addressed to O.-W. Devine in our care will be given careful attentions. tion and the best possible bargain secured for you.

Remember the sale will be held Marshall, Missouri

On C. & A. and Mo. Pacificgood train service. For catalog

Whitaker and Darby Miami, Missouri

Col. Thos. E. Deem, Auctioneer



Bernice-Champion Sow in 1916.

Hampshire Bred Sow Sale

Our offering was select last year, this year it is 50% better. You will want to attend this sale.

Cameron, Missouri, March 3, 1920

A choice lot of sows and gilts bred to General Pershing, the undefeated grand champion of 1919. Our other herd boars: Luna's Nehawka Lad by Nehawka Lad and out of Luna F. R.; Thurman Lieutenant by Lieut. Wickware and out of Mountain May. Send for the catalog, mentioning this paper.

C. I. Ward, Cameron, Missouri

Silver Hamoshires

Buy your breeding stock from hord that stands supreme in SHOW RING AND BREEDING PEN. For sale—Bred sows and gilts, also boars, one or a carboad, Buy by maik. "Silver guarantee," back of every hog, Drop postal card today for price lists.

Wickfield Farms, Box, 55, Cantril, Iowa F. F. Silver, Prop.



355

280

450

750

Whitemay HAMPSHIRES
On Approval
Special short time prices on
breed sows and gilts. Popular
breeding, Special fall pig offer,
F. B. Wempe, Frankfort, Kan.
MESSERICED BAN.

MESSENGER BOY HAMPSHIRES WALTER SHAW, B. 6, WICHITA, KANSAS

Hampshires—Spotted Polands Boars of both breeds, ready for service, \$30 to \$50. Also bred sows and gilts of both breeds, N. KAN. D. W. WEISENBAUM, ALTAMONT, KAN. POLAND CHINA HOGS.

HILL'S BIG TYPE BRED GILTS

Poland China spring gilts sired by our new 1,000 pound herd boar. King Joe 2d and from big, well bred sows, safe in pig for March and April farrow, to Hill's Col. Jack as wonderful prospect by the \$10,200 Col. Jack and from a \$575 Big Tim sow.

High kind at low prices; good gilts at \$65; choice at \$80. Immuned and guaranteed to please.

W. H. HILL, MILO, KANSAS

The Deming RanchPolands

Sows and gilts bred for March and April litters. As good as they grow. Bred to Big Bob's Jumbo, Big Jones Again, The Dividend and Kansas Guardsman. THE DEMING RANCH, OSWEGO, KAN. H. O. Sheldon, Supt. Swine Dept.

POLAND CHINA BRED **SOWS AND GILTS**

also fall pigs. We won 49 premiums at the state and county fairs on our 1919 show herd. We show our breeding hogs and breed our show hogs. Satisfaction or money back.

PLAINVIEW HOG AND SEED FARM, Frank J. Rist, Prop., Humboldt, Neb.

75 Big Type Poland Fall Pigs

Priced in pairs or trios not akin. Best breeding. ALL IMMUNED. I guarantee atisfaction or refund your money.

ED SHEEHY, HUME, MISSOURI

Big Bred Poland Females Sired by A Big Timm and bred to son of Big Bob Wonder and Model Wonder. These good sows and glits are right in every way. Write your wants.

JAMES ARKELL, JUNCTION CITY, KAN.

Boars For Sale at Private Treaty Choice grandsons of Caldwell's Big Bob (grand champion of world) sired by Black Bob Wonder and by King Bob. Pigged in March. April and May. Immunized. W. C. HALL, COFFEXVILLE, KANSAS

Big Type Polands

Have some very choice young boars for sale.

Can also spare a few more gilts. Most of the pigs are by Captain Bob.

Frank L. Downie, R. 4, Hutchinson, Kansas

Big Black Polands

Spring boars that are heavy boned and have plenty of length \$35 to \$40. Good, growthy fall boars that are mady to ship \$20. All stock registered. E. M. WAYDE, R. 2, BURLINGTON, KAN.

POLAND CHINA BRED SOWS

e tried sow, two fall yearlings, some top gilts, all with pig to farrow in March. Priced to sell. T. CROWL, BARNARD, KANSAS

Big, Growthy Poland Gilts the 1200-pound A Longfellow and A Wonder JAMES NELSON. R. I. Jamestown, Kan.

Purebred Poland Sows and Gilts bred for early March litters. Also fall pigs of either sex. A. W. Howell, Macksville, Kan.

BECKER'S POLAND CHINAS
For sale. Few bred gilts, also fall pigs.
J. H. Becker, R. 7, Newton, Kansas.

8 BIG TYPE POLAND BOARS, serviceable age. \$50 each. Sowers Bros., Dunlap, Kan.

SPOTTED POLAND CHINA HOGS.

Big Boned Spotted oland Chinas

ed and raised by a breeder of 35 years experience. A sug line of gilts, either bred or open, especially so-tied from my large herd. They are beauties, registered d ready to ship to you at attractive prices. Address WM. HUNT, OSAWATOMIE, KANSAS

REGISTERED SPOTTED POLAND BOAR

10 months old, weighs 275 lbs., good bone, conforma-tion, and breeding, color 50-50. First check for \$50 tets him. JOHN CAMPBELL, PORTIS. KANSAS.

AYRSHIRE CATTLE.

Linndale Farm Ayrshires

Our bull calf offerings are the best we have ever had, they are all out of A. R. cows or cows now on test and are sired by one of our herd bulls who are both sons of world record cows.

Write for prices and descriptions.

JOHN LINN & SON, MANHATTAN, KAN.

CAMPBELL'S AYRSHIRES

Young Ayrshires, both sex, bulls ready for service, helfers bred or open. Finlayston and Armour strains. ROBERT P. CAMPBELL, ATTICA, KAN.

² Registered Ayrshire Bull Calves

out of A. R. dams by Cavaller's College Master 17730. For sale at farm prices. For pedigrees and prices write Dan D. Casement, Juniata Farm, Manhattan, Kansas.

REGISTERED AYRSHIRES FOR SALE

18. \$200 each. Thos. Riordan, Conway Springs, Kan.

Prilly Walker Johanna Rue, one year,
Fred Pabst
Genesta Johanna Rue, one year, W. H.
Mott
Genesta Burke De Kol, eight years, D.
S. Engle, Abilene, Kan.
Genesta Burke Pontiac, three years,
W. H. Mott.
Pet De Kol Segis 2d, five years, Will
Crenshaw
Girta Korndyke Johanna Rue, G. A.
Ginrich, Clay Center, Kan.
Helfer, ten months, J. M. White, Topeka, Kan.
Neta Pontiac Butter Girl, three years,
R. E. Harp, Arkansas City, Kan.
Aaggie Segis Johanna Rue, one year,
G. A. Ginrich.
Creamelle Inka Jewel, one year, Allen
M. Blair
Pletertje Korndyke Beauty, one year,
P. A. Barney, Silver Lake, Kan.
Beauty Segis Korndyke Clothilde, three
years, A. Samuels, Topeka, Kan.
Mubroco Pomona Segis, two years, D.
S. Engle
Maid Berah De Kol, four years, Allen
M. Blair
Helfer, four months, J. A. Engle
Helfer, nine months, J. A. Engle
Helfer, one year, Winwood Dairy Farm,
Burlington, Kan.
Sylvia of Maple Grove 2d, three years,
R. E. Harp.
K. L. T. K. Prilly, four years, Frank
Bangartz
Josephine Mahomet, eleven years, C. L.
Clayton, Wakefield, Kan.
Prilly De Vries Johanna, two years,
M. T. Pope, St. Marys, Kan.
Pearl Hartog Pontiac De Kol, two
years, A. S. Alferman. 500 800 1030 500 285 250 290 370 300 420 200 325 200 340

Adams & Mason's Sale.

Adams & Mason's Sale.

Adams & Mason's Poland China bred sow sale at Gypsum, Kan., last Friday resulted in an average on 41 head of \$132.80. While the bad condition of the weather and the roads detracted from the sale considerably, it was nevertheless a fairly good sale. The offering was one of greatest quality and the reputation as a sire and his winnings in the 1919 shows caused Glant Bob to be a big factor in making this sale the success that it was in the face of the unfavorable conditions. Wonder Timm, a splendid sire but not out on the show circuit, was also a big factor in the sale. Big Oakland and Big Buster were also favorties with many. Below is a partial list of the buyers:

Lot No.		
1 Took Tones Dodsonville, Tex	305.00	
9_T W Darling Gybsum	100.00	
3-J. W. Darling	130,00	ı
4-C. V. Throlkill, Gypsum	112.50	ı
5-F. C. Weatherhead, Hamburg, Ia.	295.00	ı
6-F. C. Weatherhead, Hamburg, La.	400.00	ı
6-M. B. Cross, Merced, Cal	225.00	ı
7-J. B. Young, Richards, Mo	77.50	ı
8-J. R. Veach, Solomon, Kan	80.00	ı
10-A. Herlock, Lincoln, Kan		ı
21-John Heller, Hunter, Kan	125.00	ı
22-Ross & Vincent, Sterling, Kan	155.00	ı
24-E H. Walton, Salina, Kan	147.50	ı
26-Heart of America Farm, Kansas		ı
City, Mo	150.09	J
29-H. E. Myers, Gardner, Kan	145.0	١
30-Howard Shouts, Parkerville, Kan.	140.004	ı
31—John Heller, Hunter	100.00	ı
33—Wm. Hayes, Hunter	125.00	ı
33-Wm. Hayes, Hunter	137.50	ı
35-O. W. Heller, Hunter	162.50	ı
38-Fred Tinkler, Gypsum	112.50	1
39-Fellbush, Abilene, Kan	127.50	d
40-J. A. Spillman, Gypsum		1
42-M. E. Moore, Kanopolis, Kan	115.00	Ġ
43—E. H. Walton	150,00	
B. 프로스		

Clarence Dean Has Good Sale.

Clarence Dean Has Good Sale.

The Poland China bred sow sale of Clarence Dean, Weston, Mo., was held at Dearborn, Mo., February 4. Forty-three head of sows and glits averaged \$101. The top price of \$275 was paid for No. 2 in the catalog, going to H. O. Craig, Gardner, Kan. The offering was presented in splendid breeding condition. No sensational prices were recorded yet the averages were very fair and low enough to permit of liberal investment among farmers and breeders. Clarence Dean always sells more real honest hog for the money than most breeders making sales, but he is always satisfied with a small profit in his sale. Mr. Dean announced another bred sow sale to be held on March 22 and invited all farmers and breeders wanting more good seed stock to be on hand and buy some real money makers. Following is report of the representative sales:

Lot No.

1—E. B. Turner, Dearborn, Mo....\$175.00

1-E. B. Turner, Dearborn, Mo	175.00
3—Ed Sheehy, Hume, Mo	170 00
4-H. C. Biglow, Gardner, Kan	190.00
4-H. C. Biglow, Gardier, Mo	105.00
6-C. V. Hull, Platte City, Mo	120.00
7-C. B. Herington, Parkville, Mo	90.00
8-J. H. Anderson, Frazier, Mo	
9-Ed Sheehy	130.00
0-A. B. Dean, Dearborn, Mo	125.00
5—H. C. Biglow	110.00
8—C. B. Herington	80.00
8-C. B. Herington New Market Mo.	85.00
5-W. H. Carkham, New Market, Mo.	155.00
7-Harry Moore, Gardner, Kan	97.50
8-Jack Howett, Lawson, Mo	
9-S. B. Robinson-Frazier, Mo	90.00
1-Clay Mains, Dearborn	80.00
33-Gerst Boyston, Dearborn, Mo	95.00
6-E. A. Young, Dearborn	80.00

Glissman's Holstein Sale.

Glissman's Holstein Sale.

Glissman's sale, at South Omaha, was well attended on Tuesday, January 27, and while the offering as a whole was young and in thin condition they brought a nice even run of prices. There were no sensationally high tops and prices ruled fairly even thruout the sale. Fifty-one females sold for an average of \$242.60 and the eight bulls averaged \$207, making an average on the entire offering of 59 head \$237.75. We give below a representative list of sales:

Lot No.

\$330

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Seever's Average Fair.

SHEEP.

SHEEP.

Sheever's Average Fair.

S. D. Seever's Son, Smith Center, Kan, sold Herefords at that place last Monday under very unfavorable conditions. It had rained most of the night before and a disagreeable rain and sleet fell all day Monday. J. O. Southard, Comiskey, Kan., who

Harry Wales' Bred Polands

will be a premier offering of bred tried sows and gilts. The sale will be held at

Harrisonville, Mo., February 25th

45 Head consisting of 3 tried sows with litters by Wales' Big Bob; 3 tried sows bred to Wales' Big Bob; 25 gilts bred to Deliberator; and 14 gilts bred to Long Bob 2nd.

Wales' Big Bob Smooth Col. Jr. Bennett's Timm **Iowa King** Master Orphan Whitmore's Wonder Buster's Model Chartier and others.

Sires of the offering— Out of sows sired by— Wales' Big Bob Smooth Col. Jr. Iowa King Baker's Jumbo Bob Big Bone Model Gregg's Big Bone **Bob's Quality** Frazier's A Wonder **Master Orphan**

And They Are Bred to Long Bob 2nd Wales' Big Bob DELIBERATOR The Great Son of Liberator—the phenom

The 25 gilts, granddaughters of the noted Big Bob, bred to this outstanding son of Liberator, the most noted of all Poland sires, should be attractions in any sale.

Herd is immune. All pigs sold registered and papers furnished the day of the sale. Send your mail bids to O. W. Devine in my care. Get your catalog of this sale today.

Please mention this paper when writing.

REMEMBER—The sale will be held at Harrisonville,
Cass Co., 35 miles south of Kansas City.

Harry Wales, Peculiar, Mo.

Auctioneers-Cols. Andy James and C. N. Henry.

POLAND SALE!

At the Dr. Harkey farm on the Pittsburg Highway, 3 miles south of Overland Park, Kan., 6 miles southwest of city limits of Kansas City, Mo., on

THURSDAY, FEB. 19

40 BRED SOWS AND GILTS sired by Orange Master, Orange Master's Model, Miller's Columbus, by Smooth Columbus, H. M.'s Wonder by Wonder Joe and out of sows sired by Expansion King, Orange Master, Dorr's Expansion and Monticello Boy, Jr., by Major B. Hadley, Jr., Gilts are the big-boned, stretchy kind, carrying the very best blood of the breed bred to sons of W.'s Giant, Giant Jones and Monarch 2nd.

DR. W. C. HARKEY, Lenexa, Kan. H. M. DONHAM, Stanley, Kan. A. J. JAMES & SONS, Lenexa, Kan. Col. Andy James, Auctioneer.

BERKSHIRE SALE

of 50 Choice Tried Sows and Spring and Fall Gilts Part of Our Show Herd Included

Thursday, Feb. 26, 1920



We have cataloged a very select lot of sows and young gilts mated to five different boars

HANDSOME DUKE 17TH

HANDSOME DUKE 18TH

HANDSOME DUKE 30TH

All three of these boars were made Grand Champions at one or more of the prominent State Fairs where exhibited this fall.

BARON PREMIER 145TH

RAVINIA'S DOROTHY'S EPOCHAL

RAVINIA'S DOROTHY'S EPOCHAL

A double grandson of Epochal, and Junior Champion at three State Fairs this year.
The offering will include twenty fall yearlings, twenty junior yearlings and a few tried sows, including Duchess 483rd purchased by us from N. H. Gentry when a gilt.
The entire offering is of our own breeding with the exception of three head. All are young, in the exception, and are just right to go on and make money for their purchaser. The entire offering is cholera immuned. Remember the date. Make your plans now to attend this sale or send bid to O. W. Devine, my care, and I guarantee satisfaction. For catalog write, mentioning this paper.

Sale ay Farm

T. A. Harris & Sons, Lamine, Mo. **Sunnyside Farm**

H. W. Flook & Chas. Pedigo will sell a great line up of bred Duroc females at

Stanley, Kan., February 21, 1920

40 large spring gilts bred to the great boars: Van's Col., Beautie's Orion 3rd, Faultless by Lincoln Chief and other good ones.



A Sample of Our Offering.

We are selling an extra fine bunch of sows and gilts sired by Commander's Wonder, H & B's Pathfinder, Flook's Col., and other good boars and out of sows by I Am Golden Model 2nd. Longview's King the Col., and Commander's Wonder. This is positively the best offering of Duroc sows and gilts to be sold in eastern Kansas this season. Some wonderful granddaughters of the mighty Pathfinder will be sold. Van's Col by Varie Oxfor Chemy, Fring of the head of the law of Warie for Sold Col by Varie for Sold Col Col by Van's Orion Cherry King at the head of the herd. Write for catalog, mentioning this paper. Send mail bids to O. W. Devine in our care. Come to our sale. We guarantee a good offering of well bred Durocs.

H. W. Flook & Chas. Pedigo, Stanley, Kan.

Auctioneers: Cols. Homer Rule and J. E. Jamison

Popular Duroc Jersey Breeding

50 bred sows and gilts—Pathfinder, Sensation, Orion, Great Wonder I Am. Col. and Golden Model and other noted families. Sale in pavilion at

Emporia, Kansas, Monday, Feb. 23

Thirty of them bred to Pathfinder's Model by Pathfinder. Twenty head bred to Sensation Orion by Great Orion.

Everything immune and an offering that has been bred and fed with their future usefulness always in mind.

Orders to buy should be sent to J. W. Johnson, in care of Mr. Loomis, Emporia, Kan.

For the catalog address at once,

John Loomis, Owner, Emporia, Kan.

Auctioneers-James T. McCulloch, Clay Center, Kan.; W. W. Otey,

Note: Good connections will be made for the Gordon & Hamilton sale at Horton the next day.

W. L. Fogo's Champions **DUROC JERSEY BRED SOWS**

45 head, 10 tried sows, 8 fall yearlings and 26 spring gilts. Also two April first boars, Sale at farm near town,

Burr Oak, Kan., Saturday, Feb. 21

(Jewell County) Two sows, half sisters of Great Wonder I Am, one out of Golden Uneeda, and her fall gilt, a splendid show sow. A string of splendid Gano bred sows. Selling some of my show herd.

My winning at Wichita, January, 1920

Twenty-one shown. Won eight firsts, seven seconds, one third, champion on junior sow and first and second on young herd. First on young herd bred by exhibitor. First young herd, get of sire, first young herd produce of dam.

Everything bred to Fogo's Invincible and others to High Sensation Jr.

Catalogs ready to mail. W. L. Fogo, Burr Oak, Kan.

has known Mr. Seever a long time, was there in the capacity of sales manager. In his opening talk he gave Hereford breeders his ideas about the future of the business and his talk was both useful and interesting. Mr. Seever was selling a good useful to of cattle just in ordinary condition. In fact some of them were not in as good shape as they should have been to seil to advantage. Mr. Southard sold a consignment closing the sale with a general average of nearly \$175, which was considered very good considering the unfavorable conditions.

Wade's Polands Average \$230.

Wade makes \$230 average. The offering was a very even one. The sows were good ones up to the end and sold for a very even range of prices. E. D. Houston, Welfare. Tex., was a good buyer, getting several head. The top was a Long Prospect sow, going to Tony Kindler, David City, Neb., at \$505. The sale was conducted by Col. A. W. Thompson in his usual capable manner, Below is a representative list of sales:

	Tet No
	Lot No.
	1—Ed Holste, Ulysses, Neb\$3
	3-J. D. Hassic, David City 3
	5-J. O. Anderson, Lexington 3
	6-E. D. Houston, Welfare, Tex 2
	7-J. G. Hutchinson, Crete, Neb 5
	9-Frank Patton, Garrison, Neb 1
	10-Jake Deets, Boone, Neb
	10-Jake Deets, Boone, Neb 1
	11-Fred Damrow, Haxton, Colo 3
	12-A. A. Jones, David City 2
1	13-Titman & Son, Aurora 2
	14-J. G. Hutchinson, Crete, Neb 1
	1 15-L. B. Wagoner, David City 2
	18-Dave Hawitt, David City 2
i	23-Earl T. Adams, Valparaiso 2
į	25-L. R. White. Lexington 1
į	26-W. W. Boyer, David City 2
	26-W. W. Boyer, David City 2
	27-J. J. White, Ulysses 2
	28-E. C. Forest, Mount Vernon, Ia 2
	29-E. D. Houston 3
	31-Peter Schram, Taylor, Tex
	32-C. H. Thomas, St. Edwards 2
	34-Frank Curda, David 1
	38-H. J. Joehansen, Loup City 1
	H-W. W. Boyer 1
	44-Fred Damrow, Haxton, Colo 1

Kansas Duroc Association Sale.

1-H. A. Johnson, Perry, Kan	\$165.0
5-B. W. Conyers, Marion, Kan	70.0
6-Stants Bros., Hope, Kan	142.5
13-B. W. Conyers	200.0
14-M. R. Peterson, Troy, Kan	90.0
16-C. T. Dayhoff, Burlingame, Kan.	97.5
17-D. C. Asher, Lawrence, Kan	455.0
21-V. C. Searle, Tecumseh, Kan	87.5
24-Jesse Carlat, Auburn, Kan	195.0
29-A. C. Asher	200.0
30-F. J. Moser, Sabetha, Kan	100:0
35-J. H. Parker, Ottawa, Kan	70.0
39-Stants Bros	72.5
40-Frank Stewart, Leonardville, Kan.	70.0
41—Jesse Carlat	70.0
43-B. T. Thirsk, Winfield, Kan	90.0

Jones Sells Under Handicap.

Jone Sells Under Handicap.

John W. Jones, Minneapolis, Kan., who sold Duroc Jersey bred sows at Salina, Kan., last Thursday, was unfortunate in drawing arother bad day. His sale one year ago was damaged by the impassable conditions of the roads and by a severe cold spell. Thursday his sale was badly handicapped by rain, which put the roads in central Kansas in very bad condition. However the sale went off as advertised and resulted in an average of \$80 on 48 head. The offering was good and with a fair chance should have resulted in double that amount. Below is a list of some of the principal buyers:

1—Ross M. Peck, Gynsum, Kan,...\$100,00

dome of the principal buyers.	
1-Ross M. Peck, Gypsum, Kan	\$100.00
2-Clarence Healy, Hope, Kan	100.00
3-L. J. Healy, Hope	90.00
4-V. L. Olgon, Salina	85.00
6-Brice Muer, Salina	75.00
5 Court Davis, Salina	
7-Grant Dunn, Salina	67.50
S-J. A. Creitz & Son, Beloit, Kan	90.00
9-L. J. Healy	85.00
10-H. Sands, Salina	65.00
11-Milke Karber, Gypsum, Kan	98.00
12-A. T. Young, Salina	
13-Ralph Hood, Salina	85.00
14-John P. Johnson, McPherson, Kan.	
17-Roland Jones, Concordia, Kan	100.00
18-J. P. Young	85.00
20-Grant Dunn	77.50
34-T. E. Vestal, Kipp, Kan	100.00
44-W. P. Graves, Salina	87.50

advertising for advertising for and some Hereford cattly which was a closing averaged \$\$5. The herd athfinder, topped the sale, L. Churchill, Vinita, Okla, for the top female went to Walter Jack, Holden, Mo., for \$135.

Feb. 17-18—Iowa, Nebraska, Kansas combination sale, Dwight Williams, Mgr., Omaha, Neb.
Feb. 24-25-26—Tri-State Holstein Show and Sale, Omaha, Neb.
Feb. 24-E-E-W. L. Hutchins & Sons, Salina, Kan.
Mar. 5—F. J. Searle, Oskaloosa, Kan. Sale at Topeka.
Mar. 19—C. E. Pearse at So, Omaha, Neb.
Dwight Williams, Sale Mgr.
Mch. 25-26—Annual sale Holstein - Frieslan Association of Kansas at Topeka. W. H.
Mott, Sales Mgr., Herington, Kan.

Shorthorn Cattle.

Shorthorn Cattle,

Feb. 20—Kelley & Mitchell, Gardner, Kan, Sale at Ottawa, Kan.
Feb. 24—Jefferson Co. Shorthorn Breedera, Valley Fails, Kan. E. S. Mitchell, Valley Falls, Kan. E. S. Mitchell, Valley Falls, Sale Director, Mar. 2—Ingwert Peterson & Sons, Linds, borg, Kan.
Mar. 11—E. E. Heacock, Hartford, Kan, Mar. 12—E. D. Dale, Protection, Kan, Mar. 13—Southwest Nebraska Shorthorn Breeders' Association, Frank Carver, Mgr., Cambridge, Neb. Mar. 25—Eastern Kansas Shorthorn Breeders' Association, Frank Carver, Mgr., Cambridge, Neb. Mar. 25—Eastern Kansas Shorthorn Breeders' Asson, Ottawa, Kan., F. J. Robbins, Sale Mgr., Ottawa, Kan., F. J. Robbins, Sale Mgr., Ottawa, Kan., F. J. Robbins, Sale Mgr., Carver, Carver, Mch. 31-Apr. 1—Central Shorthorn Breeders' Ass'n. Sale at Kansas City, Mo. Apr. 2—S. E. Kansas Shorthorn Assn., G. A. Laude, Sec'y. Sale at Independence, Kan.
Apr. 28—Sumner County Assn., W. A. Bogs, Co. Agt., Mgr., Wellington, Kan.
Apr. 28—Sumner Kansas Shorthom Breeders' Ass'n.; Sale at Concordia E. A. Corey, Sales Mgr., Talmo, Kan.
Ay 14—H. C. Lookabaugh, Watonga, Okia, June 5—A. L. Johnston, Look Box 86, Lan, Kan., at Ottawa, Kan.

Polled Shorthorn Cattle.

Mar. 5—T. M. Willson, Lebanon, Kan.
Hereford Cattle. Apr. 3—Carl Behrent, Oronoque, Kan., at

Percheron.

Feb. 17—M. H. Roller, Circleville, Kan Feb. 23—D. E. Gill, Attica, Kan, Mar. 3—Nebraska Purebred Horse Breeders' Assn., Grand Island, Neb. C. F. Way, Lincoln, Neb., Mgr. Jacks.

Feb. 16—G. C. Roan, La Plata, Mo. Feb. 17—M. H. Roller, Circleville, Kan. Feb. 23—D. E. Gill, Attlea, Kan. Mar. 18—H. T. Hineman & Sons, Dighton, Kan.

Poinnd China Hogs.

Feb. 17—Updegraff & Son, R. 6, Ton Kan.

Feb. 17—Otto Gloe, Martel, Neb. Feb. 18—Henry Koch, Edina, Mo. Feb. 18—Henry Koch, Edina, Mo. Feb. 19—Frank Rainier, Logan, Ia. Feb. 20—Isaac F. Tyson, Harrisonwille, Feb. 21—Stafford Co. Purebred Liver Assen, Stafford, Kan.

Feb. 25—Harry Wales, Peculiar, Mo. Feb. 25—Harry Wales, Peculiar, Mo. Feb. 25—Harry Wales, Peculiar, Mo. Feb. 27—C. B. Schrader, Clifton, Kan. at Clay Center, Kan.

Meh. 2—T. M. Willson, Lebanon, Kan. Meh. 5—Willis & Blough, Emporia, Kan. Mar. 13—Winn Bros., Mexico, Mo. Mar. 22—Clarence Dean, Weston, Mo. at Dearborn, Mo. at Dearborn, Mo. Apr. 3—Carl Behrent, Oronoque, Kan. Norton, Kan.

Apr. 28—Fred G. Laptad, Lawrence, Kan. Spotted Poland Chim Hogs. 17-Updegraff & Son, R. 6. Topeks

Spotted Poland China Hogs.

Feb. 18—Manti Hog Farms, Shenandous, Mch. 17—Manti Hog Farms, Shenandous, CHESTER WHITE HOGS

Mar. 10-F. J. Scherman, Topeka, Kan Duroc Jersey Hogs.

Duroc Jersey Hogs.

Peb. 16—John C. Simon, Humboldt, Nea. Feb. 16—Wooddell & Danner, Winfield Ber. Feb. 18—Wooddell & Danner, Winfield Ber. Feb. 18—H. H. Eshelman, Enterprise, Kan. Feb. 18—Fern J. Moser, Sabetha, Kan. Feb. 19—Gwin Bros., Morrowville, Kan., at Washington, Kan. Feb. 20—Isaac F. Tyson, Harrisonville, Moser, Sabetha, Kan. Feb. 20—Baxe F. Tyson, Harrisonville, Moser, Stanley, Kan., Feb. 21—H. W. Flook and Chas. Foliga. Stanley, Kan.
Feb. 21—H. W. Flook and Chas. Foliga. Stanley, Kan.
Feb. 21—Stafford Co. Purebred Livision. Kan. Feb. 21—B. R. Anderson, McPherson, Kan. Feb. 21—W. L. Fogo, Burr Oak, Kan. Feb. 23—John Loomis, Emporia, Kan. Feb. 23—John Loomis, Emporia, Kan. Feb. 25—Kempin Bros. and W. Hilbert. Corning, Kan.
Feb. 25—John W. Jones, Minneapolis, Kan. at Concordia, Kan.
Feb. 26—John W. Jones, Minneapolis, Kan. Feb. 26—Adolph Anderson, Davenport, Neb. Feb. 27—C. W. Johnston, Red Cloud. New Feb. 27—C. W. Johnston, Red Cloud. New Apr. 17—Rule & Woodliff, Ottawa, Kan. Apr. 28—Fred G. Laptad, Lawrence, Kan. Apr. 29—Sisco & Doerschlag, Topeka, Batt. at Fair Grounds.

Hampshire Hogs.

Feb. 25—Geo. W. Ela, Valley Falls, Mch. 2—Whitaker & Darby, Mland Sale at Marshall, Mo. Mar. 3—C. I. Ward, Cameron, Mo. Berkshire Hogs. Feb. 26-T. A. Harris & Sons, Lamin

Field Notes

BY JOHN W. JOHNSON

S. M. Croft & Sons, Bluff City, Ka advertising 20 good registered to bulls in this issue. These bulls are o ing ages, all old enough for service: a bred and good individuals. Look a advertisement in this issue.—Adverti

Dan D. Casement, owner of Juniata Manhattan, Kan., has three small this issue of the Kansas Farmer and Breeze. He is advertising for farm prices a Suffolk stallion, two bull calves and some Hereford cattle are all bred in the purple and it interested it will pay you to write Minent for pedigrees and prices on which interest you.—Advertisement.

in this sale offering of Duroc Jersey sows and gilts. Write for the catalog at once.—Advertisement.

You should look up the advertisement in this issue of the Tri-State Holstein-Friesian show and sale at South Omaha, Neb., February 24, 25 and 26. It gives lots of information about what the sale will contain. It appears in this issue of Kansas Farmer and Mail and Breeze. There are 100 head in this sale, 85 cows and helfers and 15 bulls. It is the big three state show and sale and you want the catalog sure, Address, Dwight williams, sales manager, Stock Yards Station, Omaha, Neb.—Advertisement.

tion. Omana, Neb.—Advertisement.

This is the last call for M. H. Roller's closing out sale of jacks and jennets and percherons at Circleville, Kan., Jackson county, Tuesday, Fabruary 17. Mr. Roller is quitting because of his advanced age and is selling every jack, jennet and stallion on the farm-and offers his breeding establishment for sale at the same time. Remember this is one of the oldest breeding establishments in the west. Mr. Roller has bred jacks for 40 years. Go to Holton and stay all night and you will be taken to Circleville and returned in the evening.—Advertisement.

W. L. Fogo's Duroc Jersey sale advertisement appears in this issue of the Kansas Farmer and Mail and Breeze. Any breeder would have been mighty well pleased to have gotten away with the goods like Will Fogo did at Wichita at the big show. In his bred sow sale, February 21, he is putting in some of these good things and they are not the only good ones he is putting in, He is selling 45 head in all and there are eight fall yearlings and 26 spring gilts. Write him at once for the catalog. The advertisement appears in this issue.—Advertisement.

B. R. Anderson, McPherson, Kan., is, as you probably know, the proprietor of Royal Herd Farm, the home of big type Duroc you already know, the proprietor of Royal Grand Wonder and still the home of many Royal Grand Wonder sows that are truly wenders as producers. In this sale, February 21, Mr. Anderson is selling 50 bred sows and gilts bred to Royal Sensation and Royal Pathfinder. This is popular breeding and the kind that is selling so high everywhere. The sale will be held in McPherson, Kan., Saturday, February 21. It is a fine lot of bred sows and gilts. The advertisement appears in this issue. Write him today for his nice catalog.—Advertisement.

day for his nice catalog.—Advertisement.

F. J. Moser's big Duroc Jersey bred sow sale is next Wednesday, February 18. It will be held in Sabetha, Kan., the home of Fern Moser and Joe King Orion. The new modern sale payilion affords splendid accommodations for all who come. You have very likely read his advertisement in the Kansas Farmer and Mail and Breeze and are familiar with the grand array of fancy bred sows and gilts that go in the sale. It is next Wednesday and if you miss it you will miss a great opportunity to buy the kind that is talked about and in demand. Don't wait for the catalog now but go to the sale next Wednesday, February 18.—Advertisement.

Peterson Sells Shorthorns On Short Notice.

Peterson Sells Shorthorns On Short Notice.

Ingwert Peterson & Sons, Lindsborg, Kan, are dispersing their herd of registered Shorthorn cattle. It is a big sale comprising 75 head. There will be seven bulls, 46 bred cows and heifers and 22 open heifers sold. Because of a death in the family it is necessary to make this sale and the entire lot of Shorthorns will be sold in just breeding condition. Included in the sale is the herd bull. Columbian Dale, a straight Scotch bull of Tomson Bros, breeding, and a prize for someone that needs a bull. Because of the fact that this sale has but recently been decided upon, it is almost sure to be full of bargains for those who avail themselves of the opportunity. Write today for the sale catalog which is now ready to mail. Address, Anton Peterson, Rural Route 2, Lindsborg, Kan.—Advertisement.

Here for Choice Holsteins,

Here for Unoice Hoisteins.

If you want Holsteins of the high class type, females from 30 to 40 pound sires and bred to 30 pound buils, you should not fail to be at the Topeka fair grounds on March 5 On that date F. J. Searle, Oskaloosa, Kan., will sell a draft of 70 head from his popular Sunflower herd. This is the seventh san, will sell a draft of 70 head from his supular Sunflower herd. This is the seventh unmal sale to be held by Mr. Searle and the lesirability of his cattle is evidenced by the anny satisfied customers who return to his ale each year to replenish their herds. Fiventy fine big cows with A. R. O. records will sell, mostly all milking heavily. A big structure of young heifers of noted ancestry will sell bred to a 30 pound Model family and; 20 head of high grade springers will sell also. More than 30 of the females are used to Lord Kay Hengerveld Fayne, a son of the \$190.000 King Pontiac Hengerveld Fayne, there is your chance, farmers and freeders, to get just the kind of cows you have been looking for. When you write for the catalog, please tell Mr. Searle where the saw his advertisement. Remember that the sale will be held in Topeka but write for your catalog to Oskaloosa, Kan.—Adverdisement.

ast Call for Home Coming Offering,

ast Call for Home Coming Offering.

In W. Jones, Minneapolis, Kan., is selldraft of Duroc Jersey bred sows and
in his second sale which will be held
oncordia, Kan. Mr. Jones is taking a
mable pride in going back to Concordia
a great draft of bred sows and gilts.
as on his farm near Concordia that Mr.
a started in the Duroc Jersey business
than 20-years ago. In making up his
boas for these two sales he layed fair
both places and it was a real fiftydivision of the best things intended for
two sales. Possibly Mr. Jones leaned
the toward the "old home town" but
offerings are the kind of which any
der need not be ashamed. Remember
onte is Thursday, February 26, and it
was Kempin Bros, & Wm. Hilbert's sale
oncordia. You can attend that sale and

DUROC JERSEY HOGS

200 Big Bred Duroc Gilts

bone and breed big. the gilts pay for afterwards. Pedi-recorded. Written infor they are imrocker, Rox R. Filler, Neb.



come on to Concordia. The Barrons House, the best hotel in north central Kansas, will be headquarters for red hog men on this occasion. Remember that the breeding in this sale is as good as you can find anywhere. The catalog is a very interesting little book and free for the asking and you have time to secure it by just writing John W. Jones, Minneapolis, Kan,—Advertisement.

Durocs at Horton,

Durocs at Horton.

Gordon & Hamilton, Horton, Kan., sell Duroc Jersey bred sows and glits in Horton, Tuesday, February 24. They are selling 49 head in this sale and those who remember their sale of bred sows at that place last winter are sure to be interested in this sale. In their last winter sale the offering was considered, by those in a position to know, one of the real top offerings of the West last year. There will be daughters of Sensation King and others bred to him in this sale. He was sired by Great Sensation, the boar that sired the 1919 world's champion, and is more than just a half brother to the world's champion; he is a real breeder of big, classy stuff that makes good and that is deservingly popular wherever it is to be found. Golden Pathfinder, by Ideal Pathfinder, is one of the good buys in the boar line and he is mated with some of the best glits in the sale. There will be a few fall glits in the sale that are as good as you have seen in a long time, Remember the breeding is good and that the hogs are there individually. You will make no mistake in coming a long way to be at this sale. You still have time to secure the catalog if you write today.—Advertisement.

Gwin Bros.' Duroc Sale,

Gwin Bros.' Duroc Sale.

Gwin Bros., Morrowville, Kan., sell Durocs at Washington, Kan., Thursday, February 19. If you are interested in the best the breed affords in popular breeding you are interested in this great sale. You have already read their advertisement in the Kansas Farmer and Mail and Breeze and very likely have the catalog. Of the 50 head in this sale there is hardly a sow or gilt that would not improve your herd. There are 20 sows in this sale that are sold because they are real sows and there are 15 fall glits that will put you in business if you appreciate good breeding and good individuals. There are 15 spring gilts, many of them are bred to High Orlon Sensation, a son of the 1919 world's champion. Great Orlon, one of the really great producers of the west. Many are by him and others are top sows and gilts out of great dams and sires that were purchased in big eastern sales. It is the good ones that go in this sale and they will not be pampered up to sell but will be in the best possible condition to make good for their new owners. The sale is next Thursday, February 19, at Washington, Kan.—Advertisement.

Polled Shorthorns at Lebanon.

Polled Shorthorns at Lebanon.

A sale of Polled Shorthorns will be held at Lebanon, Kan., Smith county, Friday, March 5. The sale is being promoted and will be managed by T. M. Willson, Lebanon. Tom Willson is well known to breeders of Shorthorns and especially to Polled Shorthorn breeders all over Kansas. In this sale 40 head will be sold, consisting of cows and helfers bred or with calf at foot, three herd bulls and 13 young fellows that are old enough for service. They are Polled cattle and as there are not many of these sales in the West, you'd better secure the catalog at once and plan to be there. The Northwest Kansas Shorthorn Breeders' association will hold a called meeting there the evening of the sale at which a good time is anticipated; the question of promoting calf clubs will be taken up and it is desired that every member that can possibly do so should be there. The advertisement of the sale appears in this issue of the Kansas Farmer and Mail and Breeze. Sale Manager T. M. Willson, Lebanon Kan., will be glad to send you a catalog as soon as you send him your name. Write him today.—Advertisement.

Kansas Duroc Breeders Meeting.

Kansas Duroc Breeders Meeting.

The Kansas Duroc Jersey Breeders' association held its annual meeting the evening of Friday, February 6, at Manhattan. Secretary Pfander was present with several reels of moving pictures of a very interesting nature showing the growth and magnitude of the big National record association and "movies" of the winders at the National Swine Show as well as the homes and herds of some of the most prominent Duroc Jersey breeders over the country. It was very interesting and was appreciated by the members present. The members at this meeting voted to hang up a prize of \$500 for the first Kansas breeder that fits and exhibits a grand champion boar at the National Swine Show and \$250 for the Kansas exhibitor of a grand champion sow at the same show. The officers elected were as follows: President, G. M. Shepherd, Lyons, Kan.; vice president, Roy E. Gwin, Morrow-ville, Kan.; secretary-treasurer, W. W. Jones, Beloit, Kan. While there were not as many out as was expected earlier it was a good meeting of Duroc Jersey boosters considering plans for furthering the interests of their favorite breed of hogs.

Attend This Sale of Durocs.

Attend This Sale of Durocs.

Attend This Sale of Durocs.

Kempin Bros. and Wm. Hilbert. Corning. Kan., seli 40 head of Duroc Jersey bred sows in a nice warm payilion at that place on February 25. There will be tried sows and gilts bred to King Sensation I Am; Proud Pathfinder, by Pathfinder's Likeness; Coy Orion. by Great Orion. They will be sired by such boars as Crimson Model. G. M's Defender, King Sensation I Am, Pathfinder's Likeness. Great Wonder Giant. Chief Critic and others of note. Remember that King Sensation I Am, the great breeding boar that is owned by Kempin Bros. is mated with many of these sows and gilts of the best of breeding. These breeders have topped their herds to secure this kind for this initial sale of bred sows and gilts. They are anxious to sell in their first sale a line of sows and gilts of real blood lines that will go out and make money for their purchasers and thus become a real advertisement for their herds. The advertisement ran in the last issue of the Kansas Farmer and Mall and Breeze. Look it up and write for the catalog. You have time if you act at once. It follows the Gordon & Hamilton sale at Horton. You can attend both sales and go on to the John W. Jones sale at Concordia on Thursday. Look up the last issue and write for the catalog now.—Advertisement.

Shorthorn Bulls for Sale.

Harry T. Forbes, Topeka, Kan., proprietor of Cedar Heights Stock Farm, offers for sale very high quality Scotch Shorthorn bulls. He has recently sold to Geo, S. Marshall and J. A. Musset, Basehor, Kan., a

CONYERS' Profitable Durocs

will offer in my annual bred sow sale to be held at 1:30 P. M. at the skating rink

Marion, Kan., Friday, February 20 50 Bred Females; 2 Boars

These are good individuals, well bred and will be sold in good breeding flesh. They include:

6 tried sows of Colonel and Wonder breeding. They are proven profit

44 spring gilts—10 granddaughters of King the Col.; 5 of Royal Grand Wonder breeding; 6 of King the Col. breeding out of a Graduate Col. sow (she by High Orion and a half sister to the Zink Farms herd boar) are exceptionally good; 7 by Red Cross Pathfinder; 10 by Royal Critic and 2 Defender-King the Col. gilts.

These good Duroc females are bred to the three herd boars

Valley Pathfinder, King Conyers, Royal High Wonder

Valley Pathfinder is by the Mighty Pathfinder and out of Valley Girl by Valley Col., the grand champion at the 1919 Illinois state fair. He is an April, 1919, pig, looks like his daddy and is making a real boar. We bought King Conyers in Iowa. He is by King the Col. and we consider him one of our best breeding boars. Several gilts in the sale are sired by him. Royal High Wonder is by Royal Grand Wonder (placed in first place at the 1917 Kanaga state fair): he is by Grant Wonder and in first place at the 1917 Kansas state fair); he is by Great Wonder and out of Royal Orion Girl by High Orion.

Royal High Wonder sells. He is a March, 1919 boar and a good one. The other boar listed is a litter mate to Valley Pathfinder.

The entire offering is immuned by double treatment. They will make you money as they make money for me, being handled under ordinary farm conditions.

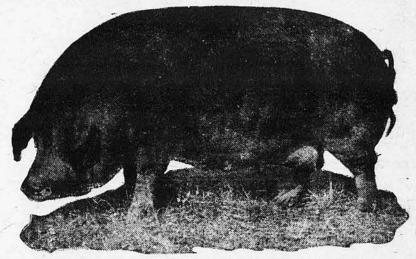
Catalogs are now ready. Send for yours today, mentioning this

B. W. Conyers, Marion, Kansas

Attend the Anderson sale on the same trip. McCulloch and McLinden, auctioneers. J. T. Hunter represents The Capper Farm Press.

The C. W. Johnston Duroc Jersey Sale

In \$8,000.00 Sale Pavilion Red Cloud, Neb., Friday, Feb. 27



40 HEAD—10 Tried Sows; 12 Fall Gilts; 4 Quistanding Fall Gilts: 14 Spring Gilts

These gilts and sows are the type and quality the best of breeders desire. The spring gilts have such sires as Big Bone Wonder. King Supreme, The King, Nebraska Pathfinder, Great Pathfinder and Pal's Giant. The fall gilts are by Joe Orion 5th and three by King's Col. Supreme. The tried sows by Critic Wonder, A King the Col., Crimson Defender and Dottey Illustrator. This offering should attract both farmers and breeders. Plan to attend this sale and buy some of these treed animals. good animals. Mr. Johnston is also selling 10 good Shorthorn bulls ready for service. Write for catalog.

C. W. Johnston, Red Cloud, Neb.

Auct .- Col. Putman. J. C. Lamb represents The Capper Farm Press.

Gordon & Hamilton's Greatest Bred Sow Sale Big Type Duroc Jerseys

49 bred sows and gilts that will not be outclassed in any sale this winter. Sale in warm pavilion at

Horton, Kan., Tuesday, February 24

Sensation King 280963, our leading herd boar, is an outstanding son of Great Sensation, the boar that sired the 1919 world's Champion, Great Orion Sensation. The tried sows are bred to him and the spring gilts either by him or bred to him.

Golden Pathfinder, is our new boar bred by O. Linninger and sired by Ideal Pathfinder. His dam is Golden Uneeda. He is a great September yearling and a wonderful individual. Many of the gilts are bred to him.

We are pleased to believe our offering on this date compares very favorably with any offering that will be made this winter. A strong statement but when you see the big stretchy, high backs and the great bone and size they carry you will agree with us that it is truly a great

Orders to buy should be sent to J. W. Johnson of the Capper Farm Press in care of Gordon & Hamilton, Horton. Send us your name and we will send our catalog by return mail. Address,

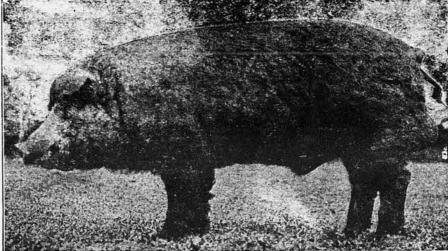
Gordon & Hamilton, Horton, Kansas

Auctioneers-Jas. T. McCulloch, Clay Center, Kan.; C. G. Streeter, Horton; Fred Taves, Beloit, Wis. Good connections from the John Loomis sale at Emporia, Kan., the day before. Note: Advertisers like to know where you saw their advertisement. Please mention Kansas Farmer and Mail and Breeze when you ask for catalog.

Royal Herd Farm Annual Bred Sow Sale

McPherson, Kan. Feb. 21, 1920

Your last chance to buy ROYAL GRAND WONDER sows. They are up to the sows. They are up to the minute in breeding and individuality. The best line-up I have ever put in a sale. They are bred to ROYAL SENSATION and ROYAL PATHFINDER, direct sons of the two most noted Duroc boars living. Don't forget the date, Feb. 21, for I am sure you want 21, for I am sure you want to attend, but if you can-not, send your bids to J. W. Johnson. I guarantee any purchase he may make for you to be satisfactory. There is still time for you to get your catalog if you send for it today. Address,



B. R. Anderson, McPherson, Kansas

Auctioneer-Jas. T. McCulloch, Clay Center, Kansas.

Missouri Grand Champion Durocs

40 Bred Gilts from my State Fair Premium Sows. They are bred for March and April litters to the Best Son of Jack's Orion King 2nd. I offer in this lot last year's 3rd prize futurity gilt; also the 2nd prize futurity litter. Priced to sell quick. Don't delay if you want good Durocs.

CHAS. L. TAYLOR, OLEAN, MISSOURI

TIMBER HILL STOCK FARM

Big, smooth Duroc bred gilts and fall pigs. Gilts by Valley King the Col. (actual weight 960 pounds) and Pathfinder Enuff by Pathfinder Chief 2nd; bred to Orion's King and Pal's Orion. These are the big, stretchy kind. Write for illustrated circular. Breeders of Durocs for

Lant Bros., Dennis, Kansas

WOODDELL'S DUROCS 21 spring boars, 1 yearling boar, nearly all of them sired by Chief's Wonder, the boar that is breeding champions. These are good type boars, and am pricing them at farmer's prices in order to make room for my fall pigs. Write, wire or come for prices. G. B. WOODDELL, WINFIELD. KANSAS.

Choice March Gilts and September Yearling Sows
Guaranteed safe in pig for March and April farrow,
\$65. September pigs, either sex, pairs or trios not
akin, All stock recorded and guaranteed immune,
D. O. BANCROFT, OSBORNE, KANSAS.

Boars and Bred Gilts

Sired by Cherry King Orion, Reed's Gano, Potentato's Orion, Dams by Pathfinder, King the Col. and Crim-son Wonder, Immuned, Priced to sell, JOHN A. REED & SONS, LYONS, KANSAS

Fulks' Large Type Durocs
Sired by Uneeda High Orion and Nebraska Col. Chief.
Boars and glits of March and April farrow. Immuned and guaranteed to please. Some real hord
boar prospects. Bred sows after January 1. W. H. FULKS, TURON, KANSAS

Duroc Jersey Bred Sows and Gilts
For sale, sired by Valley Col. and Golden Orlon:
bred to the good boar Orlon Pathfinder for March
farrow. Priced reasonable and satisfaction guaranteed. W. McCLASKEY, GIRARD, KANSAS.

WOOD'S DUROCS

Spring pigs, both sexes. Great Wonder strain; registered; immuned, double treatment; satisfaction guaranteed.
W. A. WOOD, ELMDALE, KANSAS

Duroc Hog Sale

60 head of purebred hogs to sell. Enter-prise, Kan., Wednesday, Feb. 18. 25 bred sows and gilts; 33 fall pigs, also herd boar. Nine high grade Holsteins. Send for catalog.

H. H. ESHELMAN, ENTERPRISE, KAN. (Sale near Navarro)

nice young bull, Lavender King by Secret King and out of a dam tracing to Imp. Lavender 31st. The five bulls he is now offering are of the best Scotch breeding and out of dams which belong to the most popular Scotch families. They are by bulls of outstanding individuality. One is a red roan sired by Woodend Stamp and out of a Lovely dam. Two are Orange Blossoms both reds sired by Secret King 56254. Another is a roan out of a dam tracing to Imp. Bloom 1st, by Secret King by Angusta's Villager and out of a Cassandradam. Any Shorthern breeder looking for a real herd bull of rich Scotch breeding should come to Topeka and visit Mr. Forbes at his farm just west of Gage park on the fixer town and he will call for you in his auto. This is an unusually fine opportunity to select a great bull prospect from fine choice select a great bull prospect from fine choices for full descriptions and prices and comptor for full descriptions and prices and comptor for full descriptions and prices and comptor the control of the select a great bull prospect from fine choices for full descriptions and prices and comptor for full descriptions and prices and comptor the control of the select a great bull prospect from fine choices are selected as great bull prospect from fine choices for full descriptions and prices and comptor full f

BY J. T. HUNTER

Conyers Sells Durocs at Marion, Kan. Conyers Sells Durocs at Marion, Kan.

B. W. Conyers, Marion, Kan. sells Durocs
Friday, February 20. Mrr. Conyers started
in a few years ago with a few good Duroc
sows and now has a good herd built up from
a good foundation. Mr. Conyers has spent
no time at the show game. He has been
busy at farming and has raised hogs on
the side and has sold them mainly at pervate treaty over Kansas, Oklahoma, Colorado and Texas. This is Mr. Conyers second auction sale. He has good farmer type
hogs that have made money for him and
they will make money for the buyer. Read
the advertisement in this issue of the Farmers Mail and Breeze and write today for a
catalog. Please mention the Kansas Farmer
and Mail and Breeze.—Advertisement.

BY J. COOK LAMB

Durocs and Shorthorns.

Durocs and Shorthorns.

February 27 is the date of the Duroc sow and gilt sale of C. W. Johnston, Red Cloud, Neb. This good offering consists of 10 tried sows, 12 fall gilts, four outstanding fall gilts and 14 spring gilts. They carry such breeding as Joe Orion 5th. Big Bone Wonder, King Supreme, The King, Nebraska Pathfinder, Great Pathfinder, Pal's Giant Critic's Wonder, A King the Col., Crimson Defender and others. The sows and gilts are the top of Mr. Johnston's herd. He has made quality and type his foundation. Mr. Johnston also is seiling in this sale 10 bard of good Shorthorn buils of serviceable ago You should send for catalog at once, meating this paper, and look this offering over. Plan to attend the sale or send bids to J. Cook Lamb, the Capper representative.—Advertisement.

BY O. WAYNE DEVINE

Important Hampshire Sale.

Among the Hampshire Sale.

Among the Hampshire breeders who have made a success with the great farmers' hog is Whitaker & Darby, Miami, Mo. They have announced March 2 for a bred sould be a been consigned for this occasion and for the convenience of the public the sale will be held at Marshall. Mo. The catalogs are now ready to mail out. They are interesting and give complete information of the sale offering and herds. Please write early for catalog and arrange to attend this important Hampshire-sale. Kindly mention this paper.—Advertisement.

Poland China Fall Pigs.

Poland China Fall Pigs,

Ed Sheehy, Hume, Mo., is advertising in
this issue big type Poland China fall pigs
priced in pairs or trios, not akin. Ed Sheehy
is a young man the writer has known from
a small boy. He has made a great success
in breeding and selling Poland China hoss
in breeding and selling Poland China hoss
he has paid for a good 80 acre farm near
Hume, Mo., in the last five years by raisfings
both for the market and breeding
stock. Mr. Sheehy grows his hogs in a way
that insures their future usefulness and he
sells with a broad and liberal guaranteeif you are not satisfied you can get you
money back. Any bank in Hume, Mo., will
stand back of this guarantee. Please long
up his ad in this, paper and write for what
you want in Poland Chinas.—Advertisement.

Poland China Sow Sale.

Poland China Sow Sale,

Harry Wales, the well known breeder of Poland China hogs, Peculiar, Mo., has can loged 50 head of choice sows and glits for his annual spring sale on February Harry Wales grows his hogs in a way that insures their future usefulness. They will insure their future usefulness. They will be beaded with fat, but will be in good breeding condition to go out and make money for the purchaser. A large part of the offering will be bred to one of the best sons of Liberator, out of a Glant Bustersow. This young hog is owned jointly by Harry Wales and R. W. Coner, Peculiar Mo. A few of the sows will be bred to Co-operator by Big Liberty Bob by Big Bob out of Smooth Maid by Smooth Big Bour out of Smooth Maid by Smooth Big Bour The offering promises to be one of the best lots ever sold from the Wales farm, and probably is as high class a lot of individuals as will go thru any sale this spring sale season. Send for catalog and mention this Annual Hereford Roundup.

Annual Hereford Roundup.

Annual Hereford Roundup.

R. J. Kinzer, secretary of the American Hereford Breeders' association, has announced March 1-2-3-4-5 for five days sales of Hereford cattle at the fine stock pavilion, stock yards, Kansas City, Mo. On these dates 800 head of Herefords will be offered to the public. These cattle are selected from 102 herds in the corn belt and will cousist of 400 bulls, both herd bulls and range bulls will sell in carload lots) 400 females from two-year-old bred heifers to mature cows with calves at foot and rebred again. This will be an opportunity for farmers and breeders to buy high class breeding cattle at prices that will insurant them a nice profit. The farmer or breeder who wants to buy in carload lots cannot afford to miss this sale. The offering has been carefully selected and cataloged and will be offered in good breeding condition. The catalog is nicely illustrated and is worth reading. Please send for one today, addressing R. J. Kinzer, Sec'y, Kansas City, Minand kindly mention this paper,—Advertisement.

BY S. T. MORSE

W. C. Hall, Coffeyville, Kan., is advertising some choice Poland boar pigs for sale. These are grandsons of the great boar, Calawell's Big Bob, and are out of sows that are equally well bred and are right individually. If you are looking for something

Poland Chinas write W. C. Hall, le. Kan., and mention this paper.

ood Scotch herd bull or for a fine oped bull write C. H. White, Bur-Kan. He has some good ones, d bulls are both right,—Advertise-

Lynch, Neosho Rapids, Kan., is Chester White boars and glits for red by Big Bog Tip Top. Write h for prices and descriptions.—Ad-

Cochran, Kincaid. Kan., is offering attle for sale. He can supply you ner sex. Write him for prices and ons, mentioning this paper.—Ad-

Wade, Burlington, Kan., is offering gains in Poland China boars, both ad fall pigs priced worth the money, m your wants and mention Kansas and Mail and Breeze.—Advertise-

Walker, Moline, Kan., has some d heavy boned jacks for sale. Two ars old. Priced right, some good is for sale also. Write Mr. Walker is herd. Mr. Walker is one of the breeders and can supply your reasonable prices. Please mention r when writing.—Advertisement.

theast Kansas Shorthorn Sale.

theast Kansas Shorthorn Saie.

Jutheast Kansas Shorthorn Breeders' on will hold their spring sale at lence, Kan., Friday, April 2. They a select offering of females and a led bulls. This sale will be a good of cattle, well bred and represof the best herds in this part of G. A. Laude, of Humboldt, Kan, ale manager and will select the offonly creditable individuals will be —Advertisement.

Duroc Bred Sows for Sale.

Duroc Bred Sows for Sale.

McClaskey, Girard, Kan., has several we and spring gilts for sale privately, ure a well bred, well grown lot and self worth the money. One tried sow I Pathfinder; one sow by Valley Col.; inddaughter of Orion Cherry King; valley Col. out of an Illustrator there out of a dam by Elk Col. and Orion Pathfinder by H. & B.'s Path-W. T. McBride's great Pathfinder Gilts weigh about 250 pounds in geomation. They will go ahead and out money. If needing something of mention Kansas Farmer and Mail ecze.—Advertisement.

Want a Real Bull?

want a Real Bull?

Indicate the blood of Imp Collyand Avondale, two of the greatest
is bulls ever in America, is what H.

II. LaFontaine, Kan., is offering in
full material. These young bulls are
uils, Rugged, thick fleshed fellows
he constitution and feeding qualities
and expect to find in bulls of this
is. The kind that breed on and make
agrovement in your cattle. Visit Mr.
herd at LaFontaine, Kan., and see for
if. If you cannot go write Mr. Hill
less and descriptions, mentioning the
Farmer and Mail and Breeze.—Adment.

A Hog Shortage

The extent of the hog shortage in this country gradually is coming to be realized by all. In the Southwest we have been inclining toward the view that our shortage was only temporary, due to a short corn crop or two, and that reserves in plenty could be found to the North and East. We have had the figures against this belief, but figores do not always make a dent. In the past and present sale season, how-fer, we have seen breeders from In-diana buying hogs in sales west of the Missouri River, when heretofore they

Among other things which awakened then to the situation was the work of the agricultural extension department of the Indiana University. G. C. Christie, director of extension work, talking to the people of his state, says: "Mr Farmer, if hogs reach the \$25 hundred, will you be prepared to fill orders? If you are in the hog business blay in if you are not get in."

Does not his admonition

Spially to Nebraska, Kansas, Oklabona and Missouri? Iowa, the greatist hog state in America, has less than ls normal hog population. It is up to every pork producing state to "grow is own,"

Northern Pastures a Failure

bulls
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It is doubtful if stockmen who thipped cattle and sheep from the drough area of the Northwest to the land in the upper peninsula of Michigan will repeat the experiment. In many cases the cattle when finally barkeded did not weigh so much as When shipped to that territory. Cattlethen send unsatisfactory reports from tractically all sections of the Northern stazing territory. The cattle used to the native forage of the Northwest did but soon to be able to assimilate any seem to be able to assimilate any great amount of nutriment from the hamiliant grasses of the North.

In the census even those who don't will be interviewed by those who do.—Philadelphia Public Ledger.

KING SENSATION I AM

Sale of Bred Duroc Sows

Corning, Kan., Wednesday, Feb. 25

King Sensation I Am, by King Sensation, our mammoth herd boar,

Tried sows and gilts bred to King Sensation I Am; Proud Pathfinder by Pathfinder's Likeness; Col. Orion by Great Orion.

Sows and gilts sired by Crimson Model, G. M.'s Defender, King Sensation I Am. Pathfinder's Likeness, Great Wonder Giant, Chief Critic and other good ones. DAMS by The King. Crimson Col., Sefect Model, Ideal Pathfinder, King Sensation, Joe Orion V and others.

Joe Orion V and others.

SPECIAL ATTRACTION. A spring yearling sow by King Sensation, litter mate to King Sensation I Am, bred to Proud Pathfinder. This is an especially attractive offering all through, all bred for March and April litters to three of the greatest boars in Kansas. Kansas breeders are especially invited to attend this sale. Catalogs ready for mailing now. Write for one and look over the breeding of this splendid offering and the wonderful boars they are bred to. Orders to buy should be sent in our care to J. W. Johnson, Corning, Kan. For the catalog address, either,

T. McCulloch, Clay Center, Kan., and others.

Good connections from the Gordon & Hamilton sale at Horton the day before and for the Jno. W. Jones sale at Concordia the day following. Advertisers like to know where you saw their advertisement. Please mention Kansas Farmer and Mail and Breeze when you ask for the catalog.

"Back to the Old Home" Jno.W. Jones"



Bred Sow Sale Crandall's Feed Yard

Concordia, Kan., Feb. 26 **Duroc Jersey Sows** Our Best Offering

WE ARE COMING BACK TO THE "OLD HOME-TOWN" AT THIS TIME WITH THE BEST AND GRANDEST LOT OF BRED SOWS AND GILTS WE HAVE EVER BEEN ABLE TO PRODUCE AND SELL AT PUBLIC AUCTION. HERE IS THE PLACE WE BEGAN BREED-ING THE FAMOUS DUROC JERSEY 20 YEARS AGO. COME SEE HOW WE HAVE IMPROVED THEM.

SPECIAL ATTRACTIONS

Sows sired by the \$3,000 Fairview Orion Cherry King Sows sired by Fairview Illustrator, the great breeding boar Sows sired by Pathfinder, King the Col., John's Col. Orion and other noted sires.

BRED TO THE GREATEST HERD BOARS WE EVER OWNED

It tells the story Write for the

BARONS HOTEL HEADQUARTERS

Auctioneers Col. Jas. T. McCulloch Col. G. B. Van Landingham Fieldman Capper Farm Press, Jno. W. Johnson

JNO. W. JONES

Address all mail bids to Auctioneers or Fieldman in our care at Concordia after February 21.

Minneapolis, Kan.

Big Type Boars Pathfinders, Colonels,

Orion Cherry Kings
And other popular Big Type strains from
big mature sows. Immuned. Priced to sell.
G. M. SHEPHERD, LYONS, KANSAS

Replogle's Durocs

Spring bears; registered and immunized; Orion, Illustrator and Colonel bloodlines. Gilts and fall pigs of same breeding. Satisfaction guaranteed.
SID REPLOGLE, Cottonwood Falls, Kansas.



Extra good bred sows for sale also growthy open gilts and spring boars. Choice weanling pigs, pairs and trios, no akin. Nebraska Breeders Sales Co., Lincoln, Neb.

Duroc Sows for Capper Boys

and you! Dandies, safe in pig to Bonnie Orion 322955. Get choice by ordering now. Write today for free circular. Searle & Searle, R. 15, Tecumseh, Kansas

MUELLER'S DUROCS

A fancy lot of spring boars and gilts for sale. Sired by Uneeda King's Col and from splendid dams. Priced to sell. GEO. W. MUELLER, R. 4, ST. JOHN, KAN.

DUROC JERSEY BRED SOWS

Three tried sows, some toppy gilts and all bred to two of the leading boars of the state for March farrow, Priced to sell. FRED CROWL, Barnard, Kan. DUROC JERSEY bred gilts. Bred, for March and Abril farrow, to Joe Orion Cherry King 2nd and First Quality, boars with size and quality. R.T.& W.J. Garrett, Steele City, Neb. When writing advertisers mention this paper

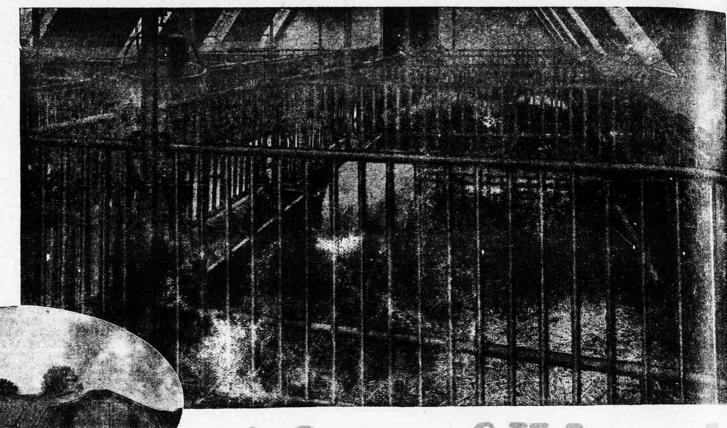


Labor-Saving Equipment for the Hog Barn

Interior is of hog barn of Mr. T H. Maher of Cleve-land (Farm at Elyria, O.)

Exterior is hog barn at Allenhurst Farm, Hudson,

James Equipment in hog barns includes pens, troughs, swinging panels, pig fenders, columns, swill carriers, feed car-riers, manure carriers, ventilators, feed cookers,



A Spot of Warmth in every pen²/₃ of the Sunlit Hours



Too good to be true, you say? But it is true, as the following diagrams and explanations will show.

What this means to the big hog breeders of the country can hardly be computed - only the hog man sunshine in each east understands what sunshine and sun warmth in February and March, especially, mean to the growth and health of little pigs.

The James Mfg. Co. does not build barns. We make labor-saving equipment for the hog barn, but as a service to the swine industry, our Engineering and Barn Planning Staff have designed a new type of hog barn which has many advantages over any other.

These advantages are fully explained in the James-Way Hog Barn Book, but the following will make it clear how-

The JAMES Sunny Hog Barn the floors of the east pens until the sun's rays are within 7° of the horizontal (which is at sunset). If located north to south,



1.- The first rays of the morning sun strike the ceiling on the west side and then sweeping down the west wall, bathes it in sunlight.

-If the barn is placed north-west to south-east, spots of sunshine and sun warmth begin to appear on the floors in the west pens, as soon as the sun's rays fall at an angle of 7° from the horizontal. At latitude 42, longi-

tude 90, March 21st, for example, this would be at 6:36 a. m. If the barn is placed north and

south, the sunshine on the floor begins when the sun's rays are 10°, 8' from the horizontal. At latitude 42, longitude 90, March 21st, this would be at 7:15 a. m.



3.-From the time the sun shines first upon the floor until a similar hour in the afternoon, there are spots of

sun in one row of pens, or the other, or both, 4.-When the sun's rays are about 30° from the horizontal, as shown in Figure 4,

there is a spot of sunshine in every pen in the barn, if windows



are provided in the south end.

(See Fig. 10). For two-thirds of the time therefore, between sunrise and sun-set, regardless of latitude, longitude or date, there is sunshine on the floor of every pen in a Jamesway Sunny Hog Barn.

5 .-- At this point, two spots of sunshine appear in the west pens.



6.-As the sun approaches the meridian, the west wall gets another sun bath through the west side windows

7.-At the meridian. two sun spots appear in every Pen.



the meridian, the east wall gets sunshine windows.

9. - Two spots of 9



10.-30° from horizontal. See paragraph 4.

11.--Two spots of sun in east row. Sunshine leaves west row of pens. See paragraph 5

12.—When the barn 12 is placed north-west and south-east, the sun-shine does not leave

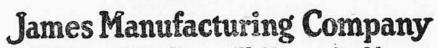
this occurs when the rays are 10°, 8' from the horizontal. At latitude 42, longitude 50, March 21st, for em-

ample, this would be at 5:24 p. m. and 4:45 p. m., respectively, For about seveneightes of the time between sunrise and sunset the sun can shine upon pen floors in the Jamesway Sun- 13 ny Hog Barn.

13 .- Sun's rays hori zontal at sunset.



If you intend to build a hog barn, we shall be glad to furnish you blue prints of the James Sunny Hog Barn, if you will tell us the breed of hogs you raise and number, or state what size barn you intend to build.



Ft. Atkinson Wis. Elmira N.Y. Minneapolis, Minn.

8.—As the sun leaves Labor-Saving Equipment for Hog Barns

Made by the James Mfg. Co., includes steel pens with pig fenders, troughs, swinging panel from keep hogs out of troughs at W swill carriers, feed carriers and trucks, steel columns, manure riers, ventilators, floor scrapers, feed cookers and heaters.

For Beef and Sheep

Beef feeding stalls and panels ventilators, carriers, steel pens for sheep and sheep feeding racks

For Dairy Cattle

Sanitary, labor-saving steel stanchions, mangers, drinking manure, feed and milk can car feed trucks, milk can trucks, s ing steel cranes, ventilators, sand steel pens for bulls, cows and calves, bull staffs, floor scrapers, milk stools, etc.

Barn Books FREE

The dairy barn book called "The Jamesway," 336 pages including many pages of blue prints, barn planning and ventilation, tells all about James Equipment for the dairy barn.

The 80-page "Hog Barn Bo gives full information regarding James Sunny Hog Barn and James Labor-Saving Equipment for hog barns.

If you want the Hog Barn Book or Sunny Hog Barn plans, state number and breed of hogs, or size

of barn you intend to build.

If you want "The Jamesway" book, kindly state number of dairy cows you own



