

# KANSAS FARMER

For the improvement of the Farm and Home

Volume 51, Number 3. TOPEKA, KANSAS, JUNE 18, 1913. Established 1863. \$1 a Year

**N**O land produces a better crop than its citizens.

Believing in the eternal right and scorning the ruts of history, the men of Kansas have builded their state without pattern and made it a model for the world. Conquering the wilderness, subduing the savage and pushing back the western horizon these pioneers established a principle, created a state and won a home upon which is based a boundless hope for the future.

But their work is only begun. They have built the factory whose product must be our future citizenship, and they must now operate it economically and at full capacity. The early pioneers worked that they might exist; the present ones, that they may live to the full measure of a man.

The live stock breeders and farmers who meet in annual conference are the modern pioneers---leaders of thought and action---who hold the destiny of the state in their hands and who remain leaders because of these conclaves.

Alfalfa and not artillery; corn and not cupidity; decency and not dreadnaughts make for the safety and progress of the nation. —I. D. G.



*The Men Who Make Kansas Are Welcome to The Capital*

# John Deere Spreader

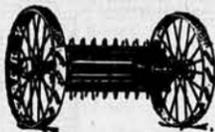
The Spreader with the Beater on the Axle



Take any manure spreader you have ever seen, remove all the clutches and chains, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.

Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove some two hundred trouble-giving parts and throw them away. You will have some sort of an idea of what the John Deere Spreader, the Spreader with the Beater on the Axle, is like.

## The Beater on the Axle



The Beater on the Axle

The beater and all its driving parts are mounted on the rear axle. This construction is patented. You cannot get it on any other spreader made.

Power to drive the beater is taken from the rear axle through a planetary transmission (like that on automobiles). It is positive, runs in oil, and does not get out of order.

## Few Working Parts

The John Deere Spreader is so simple that there are no adjustments. It has some two hundred less parts than the simplest spreader heretofore made.

There are no clutches to throw it into gear. The lever at the driver's right is moved back until the finger, or dog, engages a large stop at the rear of the machine. All the chains and adjustments have been done away with.

## Only "Hip-High"



Easy to Load

put just where it is needed. You can always see into the spreader.

Roller bearings, few working parts, the center of the load comparatively near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.

Spreader Book Free—Tells about manure, when and how to use it, how to store it, and a description of the John Deere Spreader. Ask for this book as Package No. Y. 13

John Deere Plow Co. Moline, Illinois

# BOWSER



Ground feed will make your hogs, steers, all animals bring bigger profits. Bowser Mills do the job quick, because they are light running, with perfect conical shape grinders, different from all others. Sold with or without elevators.

Crush ear corn (with or without shucks.) Grind Kaffir in the head and all kinds of small grains. Handy to operate. 10 sizes—2 to 25 H. P. Also sweep grinders.

FREE Send for folder on values of feeds and manures. C.N.P. Bowser Co. South Bend, Ind.

# FEED MILLS

# HARNESS - FOR ALL PURPOSES

Made of Good Stock Shipped direct from factory at factory prices. We guarantee to please and save you money. May we send you large FREE catalogue? Write for it now. ELKHART CARRIAGE & HARNESS CO., Elkhart, Ind.

# 4 RINGS GIVEN

Sell 10 packs Smith's Hair Tonic & Dandruff Remedy at 10c each. WE TRUST YOU When sold send money and we'll send 4 rings or choice from our premium list. ROSEBUD PERFUME CO. BOX 42. WOODSBORO, MD.

# THE OLEO SITUATION

Kansas Needs Congressman Taggart's Vote—Will You Help Get It?

IT IS certain that soon we will have some oleo legislation. It will be a good plan for every KANSAS FARMER reader to write his congressman as well as Senator Curtis and Senator Bristow, calling attention to the fact that farmers and dairymen have in no wise changed their minds with reference to the Haugen bill which is the dairymen's bill, and expressing the desire that this bill be supported by them.

It is especially desirable that farmers, dairymen and consumers in the second congressional district bring some special pressure to bear on Congressman Taggart. He voted in the House committee for the Lever bill—the oleomargarine manufacturers' bill. He voted in the committee to permit a cheap substitute to be sold to the unsuspecting consumer as genuine butter at butter prices. This is the kind of package he handed the farmers and consumers of his district when he voted for the Lever bill. An effort should be made to change his position and the people of the second congressional district in Kansas should at once get busy.

On December 12, before the House Committee voted on these bills, KANSAS FARMER sent Congressman Taggart this telegram: "Ten thousand KANSAS FARMER readers of your district urge and expect you to stand by the dairy interest on the matter of oleo legislation. Answer will be appreciated."

The above wire was addressed to Congressman Taggart first because he would in a few days be called upon to vote on these measures and we desired to refresh his memory as to the statement made to George White, Mound City, Kansas, and which is quoted above. In that statement he said—"I will oppose the Lever bill." In the same breath he said—"The Haugen bill will not be reported by the committee." At that time he had some objections to the Haugen bill. In fact he expressed himself in a letter to KANSAS FARMER under date of March 25, that "it might be best to let that which is good enough, alone," meaning that the present oleomargarine law was sufficient. The dairymen of the country would no doubt have been willing to have permitted the oleomargarine law as at present on the statute books to stand, but it did not suit the oleomargarine manufacturers and they are the people who have brought about proposed new legislation.

To the telegram above quoted, on December 13, Congressman Taggart replied: "Wire received. Will support farmers' interest as before. Cannot vouch for committee in House. Measures against fraudulent sale of oleomargarine will be insisted on by me and others if legislation is to be enacted." Since Congressman Taggart voted against the Haugen bill and the dairymen and farmers of his district, it may be that he is not yet pleased with the wording of that bill and his former constituency should insist on finding out the trouble.

This briefly sets forth Congressman Taggart's position and it is time for his farmer constituents of the second district to at once busy themselves and see that his vote in the House is cast for their interest as is represented by the Haugen bill.

Last week in KANSAS FARMER we reported that the vote of the House Committee was a tie on the Lever and Haugen bills, the Lever bill being the oleomargarine manufacturers' bill, and the Haugen bill the measure framed and supported by the dairymen. The governor-elect of North Dakota, who is a member of the committee, was not present. He wired his vote in favor of the Haugen bill. The committee would not accept the vote cast by telegraph. Consequently a tie vote was the final result. At a conference held after the vote, the friends of the Lever bill agreed to report the Haugen bill in order that legislation on this subject might be brought before the House. It is expected, therefore, that the Haugen bill will soon be reported. Then an attempt will be made in the House by friends of oleomargarine, to substitute the Lever bill for the Haugen bill. If the oleomargarine people can muster enough strength to do this, they will then in all probability have sufficient strength to enact the Lever bill into law.

The important thing now is to have all Kansas congressmen lined up in favor of the Haugen bill or the dairymen's bill, so that when the effort is made by the oleomargarine interests to substitute the Lever bill for the Haugen bill, there will be votes enough in favor of the latter

bill to prevent any such action. The congressman elected at the recent election will in all probability not have a chance to take a hand in this legislation. It is confidently expected that this will be disposed of before the new members from Kansas take their seats.

It will be recalled that during February and March of last year the House committee on agriculture was holding numerous hearings in which the oleomargarine interests and the dairy interests were permitted to present arguments in favor of their respective bills. It was expected that the House Committee on agriculture, having in charge this oleomargarine legislation, would act on these bills earlier. The committee did not act, however, until the middle of December last, with the above results.

Expecting that either the Lever or the Haugen bill would be reported upon favorably by the committee early last year, and that the matter would be before the House, KANSAS FARMER obtained from each Kansas congressman and each senator, his views on this legislation. The quotations given are from letters on file in this office.

March 30, 1912, Victor Murdock wrote Stewart Campbell, Wellington, Kan., as follows: "While I have not as yet had an opportunity to go over the Haugen bill carefully, I am in favor of legislation along the line which I understand it is drawn to reach."

March 21, D. R. Anthony wrote KANSAS FARMER: "I have carefully looked into the merits of the two bills in question and I shall oppose the Lever bill should it be reported from the House Committee and will support the Haugen bill. I am against permitting the manufacturers of oleomargarine to color their product so as to enable it to masquerade as butter to the detriment of the growing dairy interests of our section of the country. I am a practical farmer myself, interested in both dairy products and in the growing of beef cattle, and I believe the butter fat from Kansas cows brings more dollars into the pockets of the Kansas farmer than he receives for the beef fat that goes into margarine."

March 27, Senator Bristow wrote KANSAS FARMER: "I am opposed to removing the present restrictions on sale of oleomargarine and shall always oppose anything that would give the oleomargarine producers an opportunity to palm off oleomargarine as genuine butter. I never have been in favor of permitting such an imposition on the public either in oleomargarine or anything else. I feel that the present oleomargarine law is a good one and cannot see why there should be an effort to change it."

Representative Joseph Taggart wrote George White, Mound City, Kan.: "I will oppose the Lever bill. The Haugen bill will not be reported by the committee. There was no serious complaint of the law as it is now so far as I know and I would rather stand my ground on making no change than vote at present to reduce the tax of 10 cents a pound on imitation butter."

March 7, Senator Charles Curtis wrote KANSAS FARMER: "I supported the Grout bill which protected the producers of butter. The measure that will best protect consumers and dealers in dairy products and substitutes thereof against fraud will have my support."

Representative Rees wrote KANSAS FARMER: "While the Lever bill may not be subject to all the criticisms leveled against it, I think the Haugen bill the safer measure."

Representative Campbell wrote KANSAS FARMER: "I am in favor of the Haugen bill and against the Lever bill, and will do everything I can to bring about the passage of the former bill."

Representative Young wrote KANSAS FARMER: "Have always favored any reasonable measure that benefits our dairy interests. Any article that would lead anybody to doubt my position on that subject is unjust. Quite impossible to intelligently answer numerous telegrams coming from newspapers everywhere demanding how one will vote on very important bill before Congress."

Representative Neely wrote KANSAS FARMER: "However, you may depend upon it that in a contest between the beef trusts and the dairy interests, that my vote and my support will be with the dairymen. I do not see any reason why oleomargarine should be sold for something it is not."

Representative Jackson wrote KANSAS FARMER: "I am in favor of the Haugen bill and opposed to the Lever bill."

**Save \$25 TO \$75 on First Cost Then**

**MORE HEAT WITH LESS FUEL**

Are you willing to pay \$25 to \$75 more for a furnace not nearly as good as the Kalamazoo? Certainly not, especially when the Kalamazoo gives greater heat and cuts down fuel bills. Furnace and complete fittings shipped direct at factory price.

**30 Days Free Trial—Cash or Credit**

You don't keep the Kalamazoo unless it proves in service that it can heat your house perfectly at minimum expense. Convenient payments. We pay freight charges.

**Furnace Book Free**

Gives you facts that will save you money in buying, installing and operating your furnace. We're glad to mail it free—write a request on a postal, ask for catalog No. 923.

**KALAMAZOO STOVE CO.**

Manufacturers, Kalamazoo, Michigan. We also make Heating and Cooking Stoves and Gas Ranges. Catalog on request. Trade Mark Registered.

**A Kalamazoo Direct to You**

**PULL OUT THE STUMPS!**

**The HERCULES**

All Steel Triple Power Stump Puller pulls an acre of stumps a day—increases the value of your land 100%. Makes room for money crops. Guaranteed for 3 years against breakage from any cause. Send name for fine free book, 30 days free trial offer and special low price proposition.

**HERCULES MFG. CO.**  
1908 21st Street, Cantonville, Ia., U.S.A.

**Sharpen Tools Quick**

Does toughest job of tool grinding in 14 minutes without hard work. This wood tool grinder with its rapid Dimo-Grit (artificial diamond) sharpening wheel makes 3000 revolutions a minute, cooling by water or danger of overheating. Sharpens everything from jackknives to a plow point.

**LUTHER DIMO-GRIT GRINDER** has metal frame, enclosed shaft, dust-proof bearings, runs easy as a machine. 25 times faster than grindstones. Times better than emery. Special attachments such as forge, milk tester, jig saw, lathe, drill, etc., furnished. Guaranteed. Send for free book on grinding and liberal free trial offer.

**LUTHER GRINDER CO., 332 Strobel Bldg., Milwaukee**

When writing advertisers, please mention KANSAS FARMER.

**KITSELMAN FENCE**

**Get It From the Factory Direct**

We make you the same price we would make the Dealer or Jobber. That is why we can save you money. Look at these very low prices:

**14 CENTS A ROD** for 26-in. hog fence  
**23¢** a rod for 49-in. farm fence  
**25¢** a rod for 60-in. poultry fence  
**\$1.55** for 80 rod spool of Ideal

Barbed Wire. Large free Catalog showing 10 styles of Farm, Poultry and Lawn Fences.

**KITSELMAN BROS., Box 61 Muncie, Ind.**

**FREE AUTOMOBILE**

To Students who qualify. Ride around taking orders in "Coey Flyer"—5 cylinder—5 passenger car. We teach you to make big money in automobile business. Easy lessons—free model—no experience necessary. First lesson FREE to everyone answering this ad.

**C. A. Coey's School of Motoring**  
Dept. 68  
1424-1426 Michigan Av.  
**CHICAGO, ILL.**

**FARM FENCE**

Factory prices enable us to sell you the most reliable farm fence at a saving of not less than

**5 to 20 Cents a Rod**

We make 78 styles of fence at 11¢ per rod and up and 64 styles of galvanized wire fence at 11¢ per rod. Send for big free color catalog and lowest factory price list. Free trial offer our 30 day Free Trial to Fence Buyers.

**OTTAWA MFG. CO.,**  
603 King St., Ottawa, Ont., Can.

**ELECTRIC Steel Wheels Save YOUR Back**

Save draft—save repairs. Illustrated catalog of wheels and wagons.

**Electric Wheel Co., 34 Elm St., Quincy, Ill.**

### SUBSCRIPTION PRICE

\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished on application.

### ADVERTISING RATES

30 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Last forms are closed Monday noon. Changes in advertising copy and stop orders must be received by Thursday noon the week preceding date of publication.



# KANSAS FARMER

With which is combined FARMER'S ADVOCATE, established 1877.

Published weekly at 625 Jackson St., Topeka, Kan., by THE KANSAS FARMER COMPANY. ALBERT T. REID, President. JOHN R. MULVANE, Treasurer. S. H. FITCHER, Secretary.

T. A. BORMAN, Editor in Chief; I. D. GRAHAM, Live Stock Editor.

CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Inc., Manager.  
NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.

Entered at the Topeka, Kansas, postoffice as second class matter.  
**GUARANTEED CIRCULATION OVER 60,000**

### OUR GUARANTEE

KANSAS FARMER aims to publish only the advertisements of reliable persons or firms, and we guarantee our subscribers against loss due to fraudulent misrepresentation in any advertisement appearing in this issue, provided, that mention was made of KANSAS FARMER when ordering. We do not, however, undertake to settle minor claims or disputes between a subscriber and advertiser, or be responsible in case of bankruptcy of advertiser after advertisement appears. Claims must be made within thirty days.



### PROGRESS WATERS SENTIMENT.

Sentiment in favor of President Waters of Kansas Agricultural College for secretary of the federal Department of Agriculture took root at first mention of his name and is now rapidly crystallizing. All Kansans are a unit for his appointment. Resolutions of endorsement have been adopted by farmers' institutes, commercial clubs, live stock breeders' meetings, Granges, the State Board of Agriculture, and the annual farmers' institute—the latter being the endorsement of 1,000 representative Kansas farmers. These endorsements are reinforced by the personal work of a large number of individuals who are pressing the appointment of President Waters upon President-elect Wilson.

Outside of Kansas influential persons are supporting and working for President Waters. The Missouri Board of Agriculture has published its endorsement. The agricultural college and experiment stations from one end of the land to the other are using their influence for his appointment. In every instance President Waters' endorsement is made on the ground of his thorough fitness for the position—the highest plane on which his case or that of any other man can be presented. Here is the result of the action of Kansas farmers attending the state institute:

One thousand farmers, representing nearly 400 farmers' institutes in Kansas, endorsed Henry J. Waters, president of the Kansas Agricultural College, for secretary of agriculture at the last session of the state institute here Friday. The endorsement was embodied in these resolutions, unanimously adopted:

"WHEREAS, The farmers of the western states realize the necessity that the next secretary of agriculture should be a western man; and

"WHEREAS, The Kansas farmers feel they have a man fully fitted and capable of filling that position with honor to the United States; and

"WHEREAS, The farmers of Kansas fully realize that what would be a great loss to the state of Kansas would be a greater gain to the nation; therefore

"BE IT RESOLVED, At this meeting of the Kansas State Farmers' Institute held in Manhattan by the most representative body of farmers of the state, that we heartily endorse President J. H. Waters of the Kansas Agricultural College for appointment as secretary of agriculture."

If your association or organization has not yet adopted a resolution of endorsement for President Waters, it is high time that you get busy. Write your Democratic congressman or congressman-elect, telling him you are for President Waters. See that your local newspaper endorses him through its columns. This is a matter on which all our readers can meet on common ground regardless of political affiliations. We are all Kansans for a Kansan in this instance.

All our written and printed endorsements will be gathered and presented in proper form by proper persons to President-elect Wilson, and if we Kansans do our work as it should be done, President-elect Wilson cannot help but give us the recognition. Get busy.

### COLLEGE FARMERS' AGENT.

That the Kansas Agricultural College is to become the selling agent for the farmers of Kansas is a happy outcome of the movement inaugurated by farmers at the November meeting of the Kansas Agricultural and Industrial Congress at Hutchinson. By the establishment of a co-operative buying and selling bureau for all Kansas farm products, the Kansas Agricultural College will undertake not only to save the unnecessary middleman's profit, but will bring to the seller a market for many products of the farm for which there has not heretofore been a buyer. This activity on the part of the colleges comes as the result of the demand of the farmers of the state. The immediate granting of the demand came as a surprise to those 800 farmers who presented the formal demand that the college act as the farmers' agent. A co-operative bureau at the agricul-

tural college will be the first of that kind in the United States. When developed to its highest efficiency, which may take several years, it will mean a saving of millions of dollars to Kansas farmers annually. It will shorten the distance between the producer and the consumer, thus promoting direct selling. For instance, a farmer with a carload of potatoes to sell need not dispose of them to the local commission man. Instead, he would list his carload with the co-operative bureau. This bureau, in touch with markets all over the United States, would immediately place him in communication with a market for his potatoes. Whereupon the farmer would ship his product direct to the buyer.

"We shall push the organization of this bureau as rapidly as possible," said J. H. Miller, dean of the division of college extension, "but it will take time to develop it to the highest state of efficiency. As our project is the first of its kind we must work out our own system, and that will take time and study. We shall begin at once to look for a man to take charge of this bureau. We shall co-operate with all the existing organizations of farmers in the state—the farmers' institute, the Grange, Farmers' Union and others, making each local association a sort of branch of the central bureau at the college. In counties where county demonstration agents are employed much of this work will be done through these agents. When everything is in readiness—our bureau thoroughly organized, and our listings made—the college will announce it to everyone."

### KAFIR AND PEANUTS.

Not many men have given as much attention to the sure feed and grain crops adapted to the western half of Kansas and Oklahoma as has H. M. Cottrell, a former Kansas farm investigator, and now agricultural commissioner of the Rock Island Lines. Cottrell's present position makes it his business to know those crops best adapted to the regions of light rainfall and in which territory the permanent prosperity of the farmer is paramount to the success of all other interests. He unqualifiedly recommends Kafir as the principal grain and forage crop west of the ninety-eighth meridian in Kansas and Oklahoma. West of this line for Oklahoma, particularly, he recommends the Spanish peanut as the protein feed necessary as a balance for Kafir grain and forage, which is a highly carbonaceous feed. Spanish peanuts in the extremely dry year of 1911 returned in Oklahoma 500 to 1,000 pounds of gain on swine, the hogs gathering the crop themselves. The cured tops and nuts together, for hay, make a choice feed for work horses, beef and dairy cattle, hogs and sheep. Kafir and Spanish peanuts fed together make a ration adapted to all kinds of live stock. These peanuts, like Kafir, wait for rain and fitly handled will yield a paying crop, no matter what the season. They are said to yield best on sandy lands, but will pay on any soil in Oklahoma. It is believed by the editor that north of the Arkansas River in Kansas the Spanish peanut is not so generally adapted to conditions as south of the river, and the farther north the less adaptable. In Oklahoma Mr. Cottrell says the yields from a good stand average 30 to 60 bushels per acre. Two hundred bushels an acre have been raised. Peanuts have a good market value, but are manifestly more valuable when fed to live stock as a balance for Kafir.

In talking with a New Yorker recently relative to the success of alfalfa in that state, he said that every alfalfa grower was highly elated with the results obtained from his fields. He said that hundreds of men in his state, since the successful seeding of alfalfa on their farms, have wondered how in the world they could have been so stupid as to for a quarter of a century entirely ignore everything that has been written and printed regarding this wonderful crop. He said it was practice in his state to allow alfalfa to stand not longer

than three or four years. This, for the reason that they are so anxious to use the land for other purposes and so realize the full benefit from the alfalfa in the increased production of corn and wheat which invariably follows alfalfa. He said that the common practice was three or four years of alfalfa and two years of corn, and alfalfa again for three years. Crop rotation, he said, had been preached in New York state as long as he could remember—and he was an old man—but since the introduction of alfalfa farm methods in general had in the last ten years improved more than they had for the 50 years past. We are wondering if the Kansas farmer whose land is the natural habitat for alfalfa cannot learn something from these New Yorkers for whom alfalfa has done so much.

It has for years and years been known that succulent feeds are necessary for the most economical production of beef and dairy products. The value of succulence in the ration was first recognized when beets, turnips, potatoes, pumpkins and such were fed to fattening animals and to dairy cows a century or more ago. The value of succulence has ever been apparent to the man who has for a minute thought of the difference in feeding value between pasture and hay made from the same pasture. The animal law which causes animals to thrive on succulent feed, as exemplified in our green feeds, is immutable and as old as live stock husbandry. Grass is Nature's feed for the maintenance, growth and fattening of the animal body. This being so, and known to every keeper of live stock, why in the world are we so averse to providing our live stock with succulent feeds? The silo enables us to provide this succulence at a time of year when Nature fails to provide it in the form of pasture. The silo enables us to fulfill the requirements of live stock which requirements are those of Nature. The principles of successful live stock feeding are as definitely prescribed by Nature as are the laws of gravitation. Then why hesitate? Why delay?

### MORE FOR WATERS.

The Kansas State Board of Agriculture did the nice thing for President Waters of the Kansas Agricultural College. Last Friday it adopted this resolution without a single negative vote. The resolution was offered by Secretary Coburn:

"RESOLVED, By the Kansas State Board of Agriculture, in its forty-second annual meeting assembled, that it earnestly presents and commends to the favorable attention of President-elect Wilson the name of Henry J. Waters, president of our State Agricultural College, as that of a man by character, education and experience peculiarly and pre-eminently qualified for secretary of agriculture, as the successor of Hon. James Wilson, whose distinguished service in that capacity is a matter of pride to the interests of agriculture everywhere."

In every line of business it is the high class worker who gets the most money for his labor. Farming is no exception to the rule. The best preachers get the best paying pulpits; the best lawyers get the biggest cases and consequently the largest fees; one mechanic gets \$2.50 per day, another \$5. A man's salary or his wages is in proportion to his skill. The best farmer will grow the largest crops, the most and best live stock, and will receive the highest prices therefor. Skill takes down the money. Average ability commands average wages. Average farm methods result in average remuneration. No man—lawyer, doctor, preacher, or farmer—can afford to be an average of his class. Unless a man can rise above the average ability of his fellow workers he cannot succeed beyond the average.

All the big farmers' meetings of the year have been held. There is yet the farmers' institute running through the winter. Do not overlook it.

### SUGAR BEET ROTATION.

In the Cottonwood River Valley west from Emporia, much interest is manifested in the growing of sugar beets. In fact for several years past experimental fields of beets have been grown on the lowlands along the Santa Fe from Garden City to Emporia. Beets will grow on almost any soil. However, they do best on rich, deep, well-drained loams. Beets are heavy feeders and consequently draw heavily on the fertility of the soil. Inasmuch as beets are given very clean and intense cultivation, they rapidly exhaust the organic matter of the soil. For this reason beets should never occupy land for more than two years in succession. When grown continually on the same land for a number of years, beet diseases and insects tend to increase to the detriment of the crop. Long cropping with beets without rotations tends to make the soil sticky and untractable, reducing the yield through bad physical condition as well as loss of fertility. Farmers who anticipate engaging in beet culture should do so with an intelligent understanding of the results and the methods necessary to the maintenance of the land and with a view to the best continued beet yields. The growth of beets and beets alone is as disastrous to the land and the annual decreasing yield is as certain as in the case of wheat or corn grown continually without rotation. In that section now considering the cultivation of beets, and in that section of the Arkansas Valley which for years has been growing beets, a rotation is absolutely essential. Alfalfa being adaptable to every field on which beets will thrive, it should become a part of the rotation; four years of alfalfa, one of wheat, two of sugar beets, one of wheat, then one of oats, the alfalfa seed with the oats, is regarded as the proper rotation. This, however, is a long rotation, but less than four years of alfalfa is hardly practicable. Another year of beets, making three, in all probability would be justified. It is better that sugar beets not follow alfalfa. This for the reason that the unrotted and old and coarse roots, with a tendency to grow, make the cultivation of beets difficult. In localities where beets have been grown continuously on the same land for years, crop rotation and manuring have proven absolutely essential and farmers who contemplate growing beets and who figure on making beet growing a continuous business should keep the above facts well in mind.

Two years ago when hot winds and dry weather scorched western Kansas, the farmers who had planted milo were the only ones who could feed their stock through the following severe winter. Last year ten of the extreme western counties produced over 170,000 of the state's production of 254,000 tons of this crop. The effect of this large production on the feed shortage during last winter was pleasing and the acreage was much larger last season. The crop now being threshed will break all records and farmers plan to raise more than ever next season.

Doctor Bailey of Cornell University states that facts which have been collected concerning former students in agriculture at Cornell go to show that 65 per cent are engaged in actual farming, either general agriculture, horticulture or dairying. Fifteen per cent are working in the experiment stations or colleges. This leaves only 20 per cent who have gone into other lines of work.

The farm women present at the annual roundup at Manhattan made the preliminary plans for the organization of a state Home Economics Association. This association is to be divided into three sections, with one president for the three, and a vice-president for each section. The association will allow membership to teachers of home economics, to farmers' wives, farmers' daughters, and club women.

# GENERAL FARM INQUIRIES

Something For Every Farm—Overflow Items From Other Departments

**S**UBSCRIBER, Wamego, Kan., asks: "Can I compel my adjoining neighbor to put in his half of the partition fence?"

The general statutes of Kansas provide as follows:

"Section 3738: The owners of adjoining lands shall keep up and maintain in good repair all partition fences between them in equal shares so long as both parties continue to occupy or improve such lands, unless otherwise agreed.

"Section 3739: If any party neglect to repair or rebuild a partition fence or the portion thereof which he ought to maintain, the aggrieved may complain to the fence viewers, who, after due notice to each party, shall examine the same and if they determine that the fence is insufficient shall signify it in writing to the delinquent occupant of the land and direct him to repair or rebuild the same within such time as they may judge reasonable.

"Section 3746: No person not wishing his land enclosed and not occupying or using it otherwise than in common, shall be compelled to contribute to erect or maintain any fence dividing between his land and that of an adjacent owner, but when he encloses or uses his land otherwise than in common he shall contribute to the partition fence as in this act is provided."

The above are such sections of the Kansas statutes as seem to apply in this instance. The fence viewers referred to are the trustees, clerk and treasurer in each township, any two of whom shall be authorized and empowered to act under the provisions of the law.

## Alfalfa Pasture—Farm Experience.

I have never before written for a paper, but have had some experience in pasturing alfalfa and am very glad to offer my best, if it will do anyone some good.

Profiting alfalfa profitably depends on the number of bloats you have and your success in treating them, or, better, in preventing them.

The best treatment where an animal is bloated—if not too bad—is to put a gag in its mouth, causing it to belch; in mild cases this is very effective and leaves no bad after effects. In severe cases use the knife, or, better, the trochar, if you have one.

Bloating depends largely on three things: The animal itself, the condition of that animal, and the condition of the alfalfa to be pastured.

By the animal itself, I mean that some animals are more liable to bloat than others. Some will even bloat a little each day on blue stem pasture or on dry hay. The only thing to do with these is to keep them off alfalfa pasture entirely.

My plan is this: Whenever an animal bloats a little, I cut him out and put him in a separate lot on dry feed and take no chances. At the present time I have 100 head on my alfalfa. Out of these 100 I have had to cut out three which are subject to bloating; two are yearling steers and the other a milk cow, which goes to disprove the theory advanced by many that milk cows are less liable to bloat.

By the condition of the animal, I mean as to flesh and general health. I find an animal in good health and flesh is much less liable to bloat than an unthrifty or thin animal. Never turn a hungry animal on alfalfa pasture, especially when the animal is not accustomed to it, as an overloaded paunch is one of the prime causes. Thus weather conditions that cause the animals to eat more and gorge themselves will cause bloating.

By conditions of the alfalfa I mean frost on it or soon after having had frost on it. The first day, and sometimes the second, after a heavy frost it is dangerous, and you should watch cattle closely or take them off altogether.

My plan for pasturing alfalfa is to have feed racks with dry feed in the field and let them run there when once turned in; or better still, have a feed lot handy where you can feed a little sorghum or hay in the morning and then turn on the field at noon, and then turn them back in the feed lot at night. This saves your stacks, as they crave some dry feed, and if fed to them they will not eat so much from the stacks—which I never fence. The cattle do better and the pasture lasts longer.

In conclusion I would say, too, feed some dry feed in some manner each day; the dryer the better. Watch them closely when first turned on and take out the

regular bloaters, as we call them, and watch it when frosty. If it is too bad, I think it best to hold them off entirely, and feed green hay for a day or two.

Would like very much to hear from someone else who has tried and watched it.—D. W. WOOD, Clements, Chase Co., Kan.

## Sell Oleo for What It Is.

Can't there be some law made to put a stop to all this fighting about oleo manufacturers making oleo in resemblance of butter? Why allow oleo, colored like butter, to go on the market? Does coloring make oleo any better? No, but it makes it look like butter in order that it may sell at butter prices, and the consumer has to pay more for it than it is worth just because it looks like butter. But colored oleo is not butter. It is a fraud. It ought to be a penitentiary offense to make oleo resemble butter.

Let the oleo manufacturers make all the oleo they want, and charge them only a small tax—say one cent per pound—but let them make it and put it on the market in such way that everybody will know what it is. Then the consumer can buy just what he wants, oleo or butter. Let the consumer be the judge as to whether he wants to eat oleo or butter, but have it so that he can

The advantages of growing cow peas are that the cow pea is a nitrogen gatherer and so proves highly beneficial to crops that follow. They shade the soil in the summer, keeping it in a condition most suitable to rapid nitrification, and leaves the soil loose and in the best condition for future crop. It has a large root development and obtains water from great depths and large areas, and with the water brings to the surface soil mineral matter needed by other plants. It is adaptable to all kinds of soils, from the stiffest clays to the most porous sands, fertile alluvial bottoms, and to barren uplands. It stands the heat and dry weather remarkably well. When sown thickly, cow peas shade the soil effectually, killing out the weeds and so cleaning up the fields. It is an excellent preparatory crop, particularly for alfalfa and clover, but all crops following cow peas do well. The cow pea furnishes a most excellent protein feed for all kinds of animals.

## Not Safe Under Any Circumstances.

I have always warned people not to pasture cattle on alfalfa, as it is always dangerous. We tried it under every condition while I was at the Agricultural College, and at one time came near losing ten head of valuable cows.

After there has been dry weather for

formation from KANSAS FARMER. In fact I tell every farmer that it is the only farm paper in the United States.

"I live on the farm and my parents live in town. I worked inside up to this year. My health broke down and I came out here and planted corn to six acres of bottom land. All who have seen the corn say it is the best corn grown in Vernon County. I read in your paper not to forget the use of the hoe in cleaning the field of weeds which the cultivator did not kill. I used the hoe. I plowed the corn five times. I harrowed it first. After the last cultivation I chopped out all the weeds with the hoe. I am highly pleased with the results."

## Several Farm Dairy Queries.

C. B. W., Red Wing, Kan., writes: "I am milking six cows this winter. Four were fresh last summer and two fresh during the fall. Two of the cows are registered Shorthorns. I have a registered Shorthorn bull, Victor Wild Eyes. I have wheat pasture this fall. I want to quit farming so much wheat and get into the dairy business. Almost all my wheat was ruined by hail this year. Do you think the Shorthorns good dairy cattle? What is the difference between Scotch Shorthorn and Scotch Topped?"

In nearly all herds of pure bred Shorthorns are found some good individual milkers, proving the contention that a profitable dairy cow, generally speaking, is a matter of individual selection rather than a matter of breed. In the beef breeds naturally you would expect profitable milkers to exist in fewer numbers than would be found in a dairy breed. It is for this reason that the dairy breeds are recommended to the dairyman in preference to the beef breeds. In the case of the dairy breeds the offspring is much more likely to be pronounced in milk-giving qualities than in the beef breeds. There are herds of Shorthorns in the United States developed along dairy lines and considerable progress has been made in their development.

The Bates family of Shorthorns is considered the best from the standpoint of milk production. The Bates are the old Durham stock which was one time kept for dairy purposes.

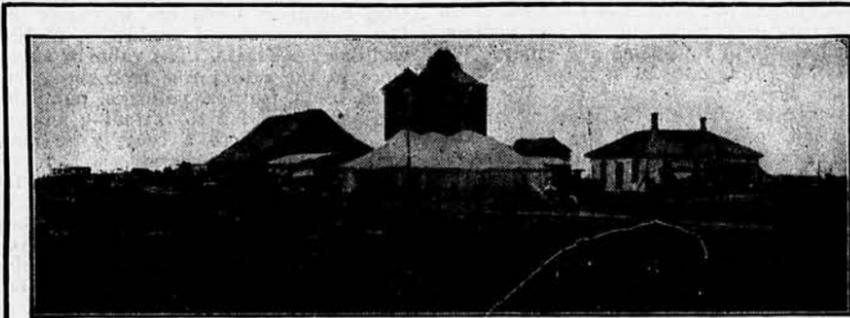
The Scotch Shorthorns are those on which the parentage is of Scotch breeding on both sides. The Scotch Topped Shorthorns are, for example, animals of Bates breeding which have been crossed with sires of Scotch breeding.

It is not clear from the query of our subscriber, to just what extent he proposes to engage in dairying, or what are the conditions that cause him to think of dairying. If his thought is that of dairying as a side issue, looking principally to the rearing of a carload of steers per year, which he can feed and sell as beef, he is looking in the right direction. He should obtain cows of the best milking quality and need not pay particular attention to pure bred breeding. He should obtain a bull from a cow giving good quantities of milk and such animal will be all the more profitable if his other ancestors have been good milkers. If, on the other hand, the subscriber proposes to reduce his farming operations to a minimum and grow only such feed as is necessary for the work stock, the dairy herd, and the hogs, then in our judgment he should by all means select a dairy breed.

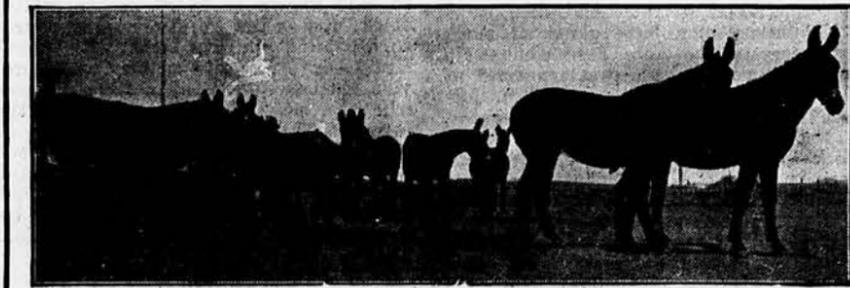
## Constantly Pastured by Valuable Cows.

The best cows in our herd—the cows we have had on official yearly test—have been pastured on alfalfa during the entire season. They were turned on this pasture when the first green alfalfa appeared in the spring, and are still running in the same field at the present. We have not had the least particle of trouble from bloat; in fact, we have never noticed any indication of bloat.

While I would not want to advise every farmer to pasture alfalfa, I do believe that it can be successfully done every year as we have done this year, if one is watchful and does not allow the cattle to go on alfalfa pasture with their stomachs empty. We have always fed our cattle some dry roughage—alfalfa hay in most cases—before they were turned on the pasture. Of course it is not desirable to turn the cows on the alfalfa pasture when it is too wet, either from rain or dew. To my knowledge I don't believe our cows have missed being on the alfalfa for more than ten days during the present season.—O. E. REED, Professor of Dairy Husbandry, Kansas Agricultural College, Manhattan



SALE DAY SCENE ON W. G. MERRITT FARM NORTH OF GREAT BEND, KANSAS, ON THE OCCASION OF PUBLIC AUCTION OF HOLSTEINS.



ONE OF THE SUREST AND MOST VALUABLE CROPS OF DECATUR COUNTY, KANSAS. NO BETTER MULES THAN THESE ARE GROWN.

see which is oleo and which is butter. Let the oleo manufacturers color their oleo any color they please, just so it does not resemble butter. White was the color of oleo when it was first made. Why not leave it white? White is the best color on earth. How much has it cost the dairymen to fight the oleo men since they began to color their oleo to resemble butter and began selling it for butter? The oleo manufacturers have gotten rich at the fraud, and now is the time to stop them from coloring it like butter. They can make it for 7 cents a pound.—WILLIAM H. BRUNS, Concordia, Kan.

## Cow Peas for Kansas.

Answering J. C. L., Home, Kan.: You should plant either New Era or Whip-poorwill cow peas. These are the varieties best adapted to conditions in your county. Each of these is a compact, upright bush and not the extreme trailing kind adapted to long growing seasons and humid climates. The greatest acreage of cow peas grown in Kansas to this date has been as a catch crop, drilled or broadcasted as early as possible after the cutting of wheat or oats. Cow peas are especially valuable as a catch crop. However, as such crop they are not as certain of seed production or good hay crop as when drilled or broadcasted earlier in the spring and used as a primary crop. Many farmers are drilling cow peas in corn just so soon as the corn is laid by and cutting the peas with the corn, for silage. The peas add greatly to the tonnage and the quality of the silage. For broadcast seeding use a bushel of seed to the acre. For drilling, 8 to 10 quarts.

a considerable period, it is perfectly safe to pasture alfalfa with cattle so long as no rains nor heavy dews fall. I have done it for weeks and have seen it done for months, but the moment a shower comes, or a rain, danger begins. For example: One time we pastured alfalfa for several weeks with dairy cattle with perfect safety. One day there came a shower, it was soon absorbed and we kept the cattle off for 48 hours. Neither soil nor alfalfa apparently showed any effect of the rain. We turned our cows in and in an hour ten had bloated.

One farmer in Lincoln County ridiculed my statement at a farmers' institute and said he had pastured his cattle for six years and never had any indications of bloat. Next year I met him at a public meeting and he acknowledged he was wrong. As the result of a light shower while he was in town he found several head dead when he reached home.

Whenever alfalfa is damp or is growing there is serious danger of bloat. While it is dry and not growing, it is safe. The danger of bloat can be obviated to a considerable extent by having bluegrass, orchard grass or bromus inermis mixed with the alfalfa, and if cattle on alfalfa have access to straw or hay, or any other dry fodder, they will frequently protect themselves, but there is always danger.—H. M. COTTRELL, Agricultural Commissioner, Rock Island Lines.

## Kansas Farmer Helped Him.

Al McG., Moundville, Mo., writes: "This is my first year at farming. Your paper has helped me wonderfully. I have a 20-acre fruit farm and have it stocked with calves and hogs. Along all lines I have obtained much valuable in-

# LIVE STOCK MARKETS

Have Served Splendid Purpose in Fostering Rural Industries

By WALTER P. NEFF, Kansas City, Mo.

FRONTIER life has its own peculiar markings. Well defined commercial customs incident to primitive surroundings always attend the onrush of civilization into new and hitherto unpopulated quarters of the globe. Those denizens of the Central West who, within two score years, have helped to reclaim the desert from primitive wilderness by turning the virgin soil for producing the wealth that has eventu-

before in the history of the world did live stock culture perform such an important part in the reclamation of a wild country, which made imperative the gigantic markets that have flourished in the United States on and off for the past fifty years.

The creation of these markets has marked the progress of civilization's advance guard, the initial points of barter having been east of the Alleghany mountains at Buffalo and Pittsburg. Later, when the central plains began to feel in goodly numbers the encroachment of the surging population, Cincinnati, Louisville and Indianapolis rose in prominence. Later came St. Louis and Chicago. When the sentinels of civilization pushed out into the desert and lighted camp fires on the plains of Kansas and Nebraska and in the wilderness of the Indian country, Kansas City and Omaha became the logical marts for the vast herds that roamed thereon. Already the plowshare has divided the virgin sod that within a quarter of a century resounded with the footfall of the wild-eyed long-horns of the far Southwest, and in keeping with the history of such transition the men who formerly depended on unassisted nature for forage for their herds today devote at least a portion of their acreage to cultivated crops. And so, Fort Worth and Denver and Oklahoma City today represent the farthest and final stand necessary in the subjugation of virgin nature to the uses of agriculture and civilization.

One of the saddest facts confronting the student of present economic conditions is that in few of the old countries is live stock culture for meat purposes in much vogue. None of the nations known as meat-eaters, with the exception of the newly settled portions of the earth, grows all of its own supplies. The United States, hitherto not only the most prolific producer but the heaviest consumer, having pushed the frontier line to the farthest West, having driven her generative herds into consumptive channels in order to convert the pastures to tillable purposes, is following fast in the footsteps of older nations, and unless the farmers in this

country are of different mind from those in the older sections and combine live stock production with soil activities, that the deflection from animal growing to agriculture in the Southwest be propitiated, the next generation will partially be dependent on such supplies as the new and sparsely settled countries of the Southern continent can produce. Such being the case, the pro rata supply of meat animals would continue to diminish and the function of the live stock markets be minimized, if indeed some of the smaller markets did not succumb. But the very fact that Europe always will be an importer of meat should stimulate the corn-belt farmer with the idea that never again will the supply of meat animals be adequate to the demand and, consequently, live stock propagation in connection with agriculture will comprise the best possible combination of rural activities.

Those who have in any way been associated with the settlement and development of the Great West in the past quarter of a century must realize that a large portion of the financial well-being of the urban and suburban Trans-Mississippi citizen today is traceable to the live stock industry. No one will ever know how many farmers, sick at heart at the continued caprices of nature in drouth, hot wind and pest, were tided over the period of frontier days by live stock, but it is true that live stock constituted the foundation on which western agriculture builded. The live stock markets, then, have served a splendid purpose in fostering the rural industries. A few years ago they were the prey of state legislatures that looked on them as public exactions, but today their status as that of indispensable public servants is generally conceded even by their former enemies. Nor, if one reflects on the agencies that have been most prominent in the development of the west and its elevation to the present position of affluence, can he complete the list without including not only the live stock markets, but their necessary adjuncts, the commission agents who represent the producers, and the packers.

In all its activities the live stock mar-

ket is the busiest place on the face of the earth. If you stand on the fence and watch the traders as they arrange details of a sale, you see only one little segment of the vast arc that embraces the market industry. That sale is merely representative of similar transactions being enacted daily in a score of markets in the United States, the whole made possible by the necessity for meat and the confidence which such demand inspires in numerous allied industries.

For instance:

A capital of \$45,000,000 is invested in the leading stock yards.

A salary list of over \$4,000,000 annually is paid to employes.

A daily capacity of 250,000 cattle, 400,000 hogs and 400,000 sheep.

Annual receipts of 10,000,000 cattle, 25,000,000 hogs and 13,000,000 sheep, worth \$900,000,000.

Capital of 1,841 meat packing establishments reported by the recent census, \$383,249,000.

Paid by packers for materials in one year, \$1,201,828,000; paid in salaries and wages, \$71,699,000.

Live stock to and from market provides 10 per cent of the annual railroad tonnage.

Over 40 per cent of the daily bank clearings at Kansas City, and perhaps many of the other markets, are derived from live stock and meat products.

A considerable per cent, never so large before, of bank funds are loaned on live stock, cattle now being considered first-class collateral.

Scores of industries dependent in part or wholly on market activities.

Manufactured products, including food, clothing, machinery and various luxuries, and most of the other important products of the farm, are regulated in price by the available supply of meat animals as secured through the public markets.

It will be readily seen, therefore, that any diminution in the supply of live stock would effect disastrously not only the meat eaters, but a vast portion of the country's activities. Nor can any thoughtful person review the situation without realizing that the live stock markets comprise one of the strongest links in the chain that binds producer and consumer.

Let us conclude, then, that agriculture in the formative stage, dependent as it was on the support of live stock until it was able to stand alone, as well as the packers, the machinery, clothing and other manufacturers profiting by the capital thus created, and 90,000,000 consumers, all are indebted to the live stock markets for encouraging, by providing central places of barter, the propagation of the thousand million animals that have passed through the gates in recent years. Finally, it must be conceded that the men who have thus contributed energy and brains to these gigantic institutions of public need have served their country as faithfully and as beneficently as the men who make and execute her laws.



WALTER P. NEFF, EDITOR DRIVERS' TELEGRAM KANSAS CITY, MO.

ated in mighty cities and a prosperous people, are merely the successors of the countless millions who have carried civilization into forest and brake from the rising to the setting of the sun. They are made of the same will, the same indomitable purpose and the giant sturdiness of those heroes who landed on New England shores when the Red Man was the possessor in fee simple of these broad acres. And in all of those 400 years required to carry civilization from the East to the West the same customs marked the border line and prevailed until the primitiveness finally gave way. One of the many manifestations attendant on the advance of civilization in the Western Hemisphere has been the public market for the disposition of live stock. Wherever one may chance to be, if there he finds located a primary market for the barter of cattle, hogs and sheep, he may know without the asking that he is in a new country. Such markets are not found in Europe and Asia, where intense farming, made necessary for the support of a teeming population, long since drove them out or minimized their importance. But on the less valuable lands of a new territory live stock propagation is the most profitable adjunct to agriculture, if indeed it is not superative in the transition period from nature wild to nature conquered. Never



PUMPING PLANT C. M. NIQUETTE'S FARM, M'CUE, KANSAS.

HERE are two views of my irrigation plant near the depot at McCue, Kansas.

The log of my well is as follows:  
Soil and clay..... 73 feet  
Fine sand ..... 8 feet  
Coarse sand ..... 14 feet  
Coarse sand and gravel..... 18 feet  
Heavy rock ..... 4 feet  
Rock and heavy boulders..... 10 feet  
Making the total depth of well 127 feet.

At this point we struck solid rock, but went through it with a test hole and went thirty or forty feet into shale. The water level, when not pumping, is twenty-four feet from the surface. An iron casing two feet in diameter, called a pit is put down eighty-five feet. The well from this point on down to the bottom is thirteen inches in diameter, and cased with a perforated iron casing, wrapped with wire. The perforation is intended to be about thirty-five per cent of the surface area.

A number six two-stage centrifugal pump is placed at the bottom of the pit, eighty-five feet below the surface, and is provided with thirty feet of nine-inch suction pipe below the pump. The pump is driven by a shaft connected to a pulley wheel at the top, and is hung on roller bearings. Power is furnished by a fifty horse power Muncie oil engine, and we can use crude oil or distillate, either one of which can be laid down in

## IRRIGATION BY PUMPING

By C. M. NIQUETTE, McCue, Kansas

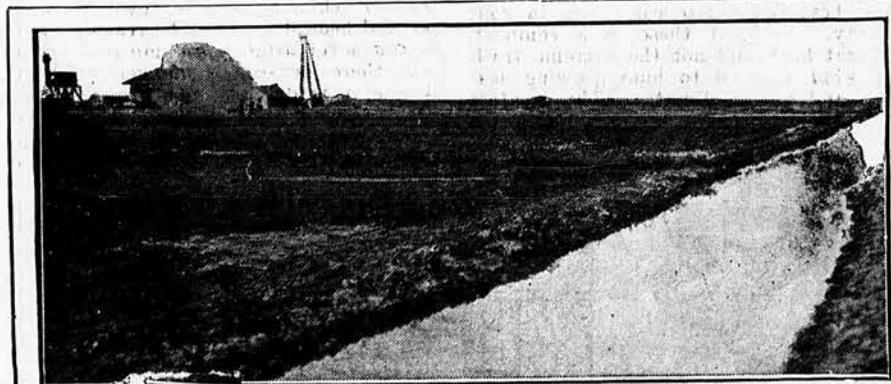
tank car lots at McCue for less than three cents per gallon.

The total cost of the plant, including well, pump, engine, derrick and buildings over engine, pump and belt and a reservoir of two acres, not yet completed, will be about \$3200.

We can throw about twelve hundred

gallons of water per minute, and the cost for fuel oil and lubricating oil is from twenty to twenty-five cents per hour.

When we get to irrigating actively we expect to run the pump about twenty-three hours a day, allowing one hour to overhaul and care for the engine, but

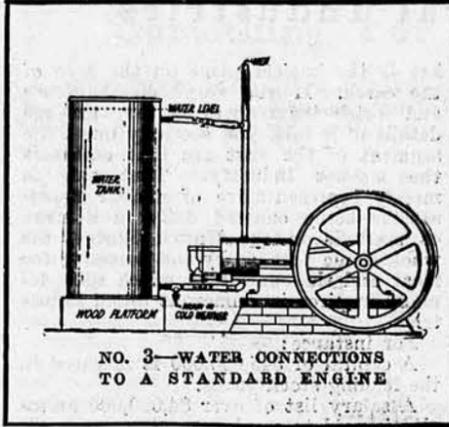


MAIN IRRIGATION DITCH C. M. NIQUETTE'S, M'CUE, KANSAS.

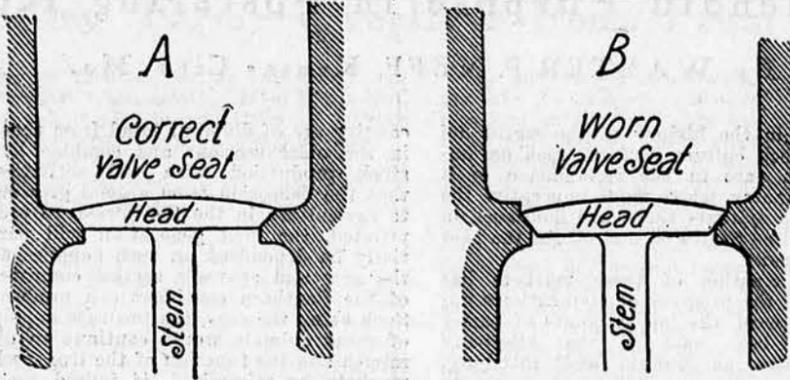
will only irrigate during the day for about six or eight hours. This will allow us to run a stream of water of from twenty-four to thirty hundred gallons per minute while irrigating, thus enabling us to get over the ground rapidly and save both in water and labor. After we have the major part of this farm, (320 acres) set to alfalfa, I think we can easily handle the entire tract with this plant, as we can irrigate the alfalfa during the fall, winter and early spring, when the water is not needed for the other crops. A great deal of alfalfa is grown very successfully here on this class of land without any irrigation whatever, and it can be grown almost any where if the land is thoroughly irrigated once a year, and I do not think that it is ever necessary to irrigate more than twice a year to grow alfalfa.

If this wonderful deep water bearing strata, which underlies so much of Western Kansas was oil, gas or a small deposit of gold, thousands of people would rush to the country imbued with the get rich quick idea, but while this land that is underlaid with the water bearing strata will in time, if properly developed, and used, produce untold wealth, and furnish a home for thousands of people, it can only be developed by the patient and protracted effort of thousands of earnest laboring people.

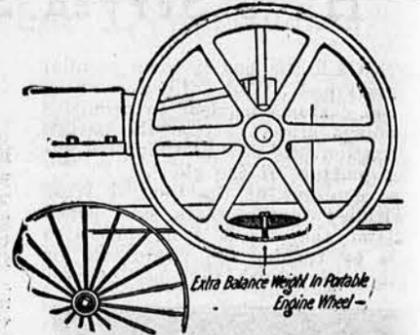
# GAS ENGINE OPERATION



NO. 3—WATER CONNECTIONS TO A STANDARD ENGINE



NO. 18—PERFECT AND IMPERFECT VALVE SEATS



NO. 24—THE EXTRA BALANCE WEIGHT IN PORTABLE ENGINE WHEEL

**T**HIS is the last of the articles on gas engine operation by E. H. Witte. The first was printed in KANSAS FARMER issue of December 30. These articles are so written that with the illustrations they are complete and thoroughly understandable. The interest of KANSAS FARMER readers indicates that they have been unusually helpful and much appreciated.—Editor.

When an engine does not fire every charge the governor allows it to take, in three-fourths of the instances, it is usually faulty ignition. With make and break igniters, it is well to first see if there is a spark by disconnecting the wires and testing as is shown in "How to test a single cell," cut No. 17. When all cells are connected, no matter how many there are, they should be connected in accordance with cut No. 16.

**TO DETECT FAULTY IGNITION.**

There is probably no other more frequent cause of faulty ignition than the fact that the ignitor points burn out partially or wholly and are not renewed by time, or if they burn out partially the movable electrode, usually the upper one should be bent down to take up this wear. Under no consideration should anything else but pure irridium, platinum or platino be used in the points. Copper, nail heads, pieces of nickel, or coin silver, will not give proper ignition and possibly wasteful in fuel consumption.

When in doubt as to whether the points are too far open or not, a good plan is to remove the wire leading to the engine proper, scratch a bright part on the engine while turning the fly wheel over slowly. As soon as the points make contact you will get a spark anywhere on the engine. Chalk mark the fly wheel at the floor and then continue to turn the fly wheel to that point where the igniter snaps or breaks circuit. Again mark the fly wheel and the distance between on the circumference of the rim must be from one-eighth to one-sixth of the circumference of the fly wheel, otherwise the contact is of too short duration to properly charge the spark coil.

When a gas engine will not start and the spark is correct, or if it does start, will not continue running or smokes at the exhaust pipe, rest assured you have flooded the engine with gasoline. You should then remove the igniter block, turn the engine over a dozen or two times until all gas is removed and then be more careful next time.

**TUNING UP OLD ENGINES.**

If the engine is an old one, remember it can be tuned up and made to operate just as good as it ever did, perhaps better. It is all in knowing how. If out of time, then first see that the exhaust valve begins to open when the crank is on its outward stroke and the crank pin still 18 degrees above outer dead center. On the return stroke as the piston is on inner dead center, the exhaust valve must close. If the air valve is automatic merely see that the spring is not too tight. If it is not automatic, see that the air valve opens on inner dead center and closes just a trifle below outer dead center.

**OVER-HEATING AND POUNDING.**

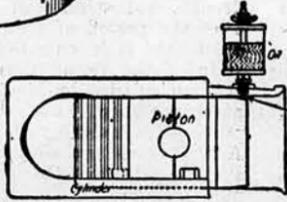
If the engine overheats, look to the water circulation, cut No. 3. Make sure that the water jackets are free of mud and sand and alkali accumulations, also make sure that the ignition is correct and on time. The point of ignition varies according to the speed of an engine and ranges from 45 degrees below inner dead center to 5 degrees, the latter being on the largest engines and the former on the smallest. Igniting an engine before inner dead center may be likened to shooting ducks on the wing, the further away they are and the faster they are going, the more ahead of them



NO. 13—REMOVING AND INSERTING SNAP RINGS AND PISTON



NO. 11—HOW TO CUT A PACKING



NO. 19—DROP OF OIL WIPING INTO CYLINDER

By E. H. WITTE  
Kansas City, Missouri

you must aim when you pull the trigger.

If the engine is pounding, it will likely be caused by accumulations in the water jacket and also carbon in the cylinder. Carbon can be removed by pulling the piston, scraping off the evidences thereof with a cold chisel and also scraping the inner walls of the cylinder head and ports. Should the exhaust and air valves have any carbon remove it also. If the water jacket, however, has become limed up, it will be necessary to open up all jackets and remove this lime and accumulation by cold chisel or other methods.

If the piston rings have become gummed, they should be removed in accordance with cut 13. Take care that the rings are not strained or broken. See that they are put into their respective grooves again and also without being turned over.

**REPLACEMENTS AND PACKING.**

A well made engine is always made in parts like a typewriter, phonograph, or repeating rifle and new parts at a very reasonable price can be obtained from the factory, thus practically rebuilding the engine and making it equal to new.

A packing may be cut, as per cut 11, at any time out of ordinary high class asbestos sheet, not such as is used on hot air furnaces which contains more or less wood fibre.

As engine valves become worn, they

will wear in accordance with B of cut 18 and no valve should be allowed to remain long in that condition. Vertical valves are far superior to horizontal because they properly set at all times having scarcely any wear to their stems and often if the springs are weak, will close properly.

**LUBRICATING AND BALANCING.**

Should you happen to have an engine that does not lubricate properly, take a file and bevel the end of the piston if not all the way around, at least on top in accordance with cut 19, the object being to rub the oil into the joint between cylinder and piston, instead of scraping the drop off.

Should your engine vibrate or shake too much when running it will be due to improper balancing which can easily be removed as done in cut 24. The amount of this weight, however, must be properly determined and with due regard to the speed at which the engine is to operate. It should always be placed, as a rule, directly opposite the crank pin and nearly equal in each fly wheel.

**COOLING MIXTURE FOR FREEZING WEATHER.**

In freezing weather it is very often necessary, in order to avoid the constant draining of the cylinder when through for the day, to add some anti-freezing solution to the water, and for this purpose pure chloride of calcium must be used at the rate of three pounds to one gallon. It is very inexpensive and effective and a cylinder will be safe at 50

degrees below zero. Users desiring to be safe in all ordinary weathers could use one and one-half pounds to the gallon.

**FITTING FLY WHEEL.**

Never let an engine fly wheel key become loose. A key must always fit snug side wise but be tight up and down. The fit up and down must be made very accurately by driving it in and out many times, noting where it touches and file it until the fit extends the full length of the key at least that portion which enters the hub of the wheel. If improperly made the key will cause a fly wheel to wobble because the strain is too great at either one end or the other.

**THE SEVERAL FUELS.**

While gasoline is the usual fuel, all first class engines will also use distillate, naphtha, natural gas and manufactured gas, and with a slight change, kerosene. Kerosene, however, requires an altogether different compression from gasoline and natural gas, and therefore the connecting rod must be shortened which also, of course, prohibits the user from using his engine for gasoline next day without fifteen minutes work changing it back. Users desiring to use kerosene should make up their minds to do so exclusively in the future or sticking to gasoline. When kerosene is used as a general fuel, it is customary to start on gasoline and then ten minutes later, opening the regular kerosene valve.

**CONSULT ENGINE BUILDER.**

Finally, any time in the future when you have trouble with an engine, be sane and patient enough to remember the man who made it will be more than pleased to give you any mail assistance, that he is probably sitting at his desk for that purpose, and if you will only tell him what your troubles are, he can tell you perhaps by phone, wire, or letter just what to do in much less time than it will take you to write some one else all about it. This man has probably made one profit on your sale and does not seek another, whereas it is human nature for the other builder to have you think your engine is out of commission forever, and therefore sell you one of his. Well built gas engines will last a lifetime if overhauled occasionally and such overhauling can be done at an expense not far from \$1.00 per year plus traveling expenses, if any.

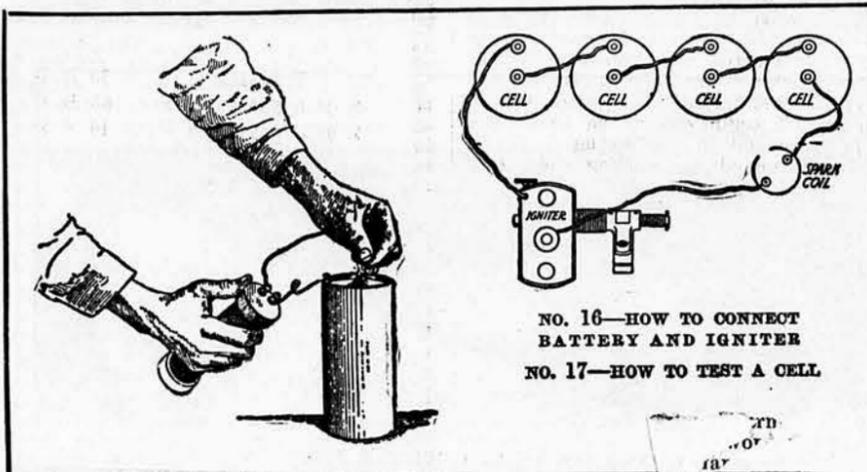
**Crop Association Elects Officers.**

The Kansas Crop Improvement Association is one of the substantial organizations which holds its annual meeting at the agricultural college during farmers' institute week. It is the aim of the association to encourage larger crop production throughout the state and to interest as many of the best farmers of Kansas as possible in applying the better methods of crop improvement. The association desires to bring into its membership a large number of progressive farmers and extend its usefulness as far as possible. Officers of the association, elected at the recent meeting, are:

President, H. G. Hamm, of Holton; vice-president, S. G. Trent, Hiawatha; secretary, C. D. Steiner, Manhattan; treasurer, E. G. Schafer, Kansas Agricultural College; inspector, C. C. Cunningham, Kansas Agricultural College; directors: L. E. Call and L. A. Fitz, Kansas Agricultural College, and W. G. Shelley, McPherson.

**Reader for Thirty Years.**

I have been a reader of KANSAS FARMER for over thirty years. My first subscription was given either in '76 or '77. I am enclosing herewith my check for renewal.—R. HANSEN, Belleville, Kan.



NO. 16—HOW TO CONNECT BATTERY AND IGNITER

NO. 17—HOW TO TEST A CELL

January 18, 1913

# POWER FARMING IN KANSAS

## Gas Power Doing all Kinds of Farm Work With Certainty and Precision

By C. V. HULL, of HART-PARR CO.

AS THE Star of Empire moved westward, Kansas became one of the great food producing states. Wheat, oats, corn, alfalfa and hay were produced in quantities for the eastern markets. Competition entered and economy in farming became a necessity. Then a few progressive men on large farms began to use the steam tractor. This condition led to increased production but was not entirely satisfactory. The coming of the gas tractor has developed new conditions. Farming with power has been found entirely practicable and economical. The gas tractor can be cared for and the tanks filled up in the morning much quicker than a crew can get ready to hitch forty or fifty horses or a man can build a good fire in a steamer. Then it is ready for a day's run at plowing, threshing or any other job which is to be done.

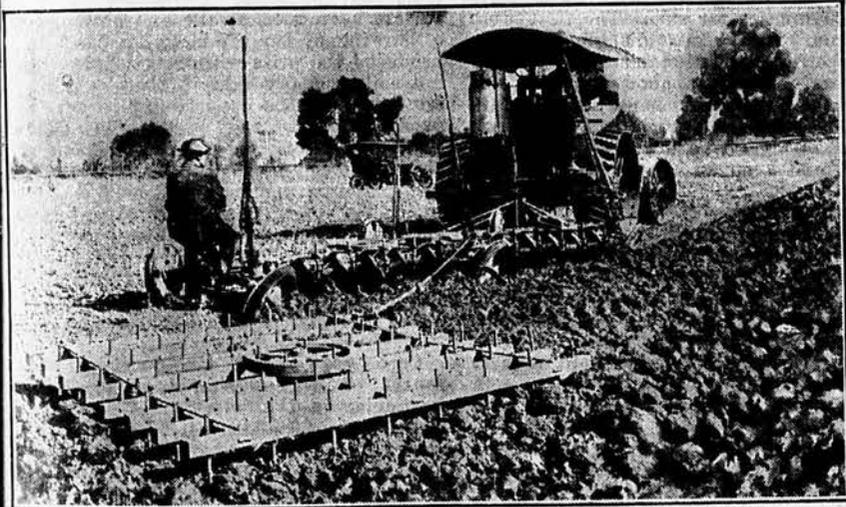
The farmer has found that the gas tractor can be depended upon and that he can do his work with it. There is no question but that the work can be done cheaper and better with a gas tractor. When one considers that the tractor farmer can do all that the horse farmer can do and do it for less money, it is small wonder that a great number of men are satisfied tractor owners. The cases which we shall discuss are all in Kansas.

One would scarcely think of planting corn with a tractor. One man has listed five rows at each trip. Another used two listers, drag harrow and two planters. In this case, the planting attach-

of the gas tractor for threshing. Figures are dull things except as they appear on the profit side of our ledgers. But some of the work done may be worth mentioning. One Kansas concern threshed 19500 bushels of sorghum cane seed at the rate of 1000 bushels per day; 1800 bushels being the big days run. A 32-54 separator with extension feeder was used. Another outfit with a 36-60 separator, equipped with feeder, blower, and weigher threshed 20000 bushels of hard turkey wheat in 19 days.

The great field for the tractor has been at plowing and seeding. One reports that he plowed 450 acres in 20 days; another 500 acres, averaging 23 acres per day, with a 14-inch disc plow followed by a three section harrow. In these cases the fuel cost was about 15 cents per acre. Another man plowed 302 acres of sod and 285 of stubble, using 12 discs for sod and 14 for stubble, and a 12-foot drag harrow for both sod and stubble. One who plowed 600 acres used a heavy packer. His plowing also cost 15 cents per acre for fuel. This man also disced 1240 acres, averaging 50 acres per day, and using 1 1/2 gallons of cheap fuel per acre. In all he put in 65 days of field work.

The cases we have cited are actual occurrences and, with one exception, the men operate tractors in the Sunflower State. We might have related other instances where tractors are used for hauling, for filling ditches, for delivering grain to the elevator, for building railroad grades, for grinding feed, for fill-



HARROWING IMMEDIATELY AFTER PLOWING IS GOOD PRACTICE. ENGINE DRAWING FOURTEEN DISK PLOWS AND HARROW.

ments were out of gear on the listers. These fields were planted by driving around and around them. The corn was thus planted in long spiral rows with one road from the center to side of the field.

Another man used his tractor for grubbing an acre of brush. A heavy log chain was snubbed around a bunch of small trees and hitched to the drawbar. In this way an acre was cleared in short order.

The moving of buildings has been a long, tedious job of staking down and pulling up the windlass or jack. But again and again the gas tractor has been found useful in moving buildings. Houses could not do this because they do not pull evenly and steadily.

When the good roads movement first began 8 or 10 horses were tired out—and nearly spoiled sometimes—on a big grader. Now a tractor pulls two graders and completes a modern, up-to-date highway. The Kansas counties should do as several Iowa counties have done. They now own their own grading outfits and are building better and cheaper roads than ever before. In some cases in Kansas, the tractor owner is renting his engine for the purpose of making good roads.

The tractor does away with the tire-some tramp after the spike tooth harrow. A strip 30 to 50 feet wide can be covered each time the tractor and its outfit passes. One man with a 30 horse power outfit harrowed 250 acres in 23 hours.

For a long time the steam tractor was the only power considered for threshing. But the perfection of the gas tractor has made it the power for this purpose. The removal of fire danger, the decreased cost of fuel and the less amount of hauling required; these are some of the considerations which have led to the use

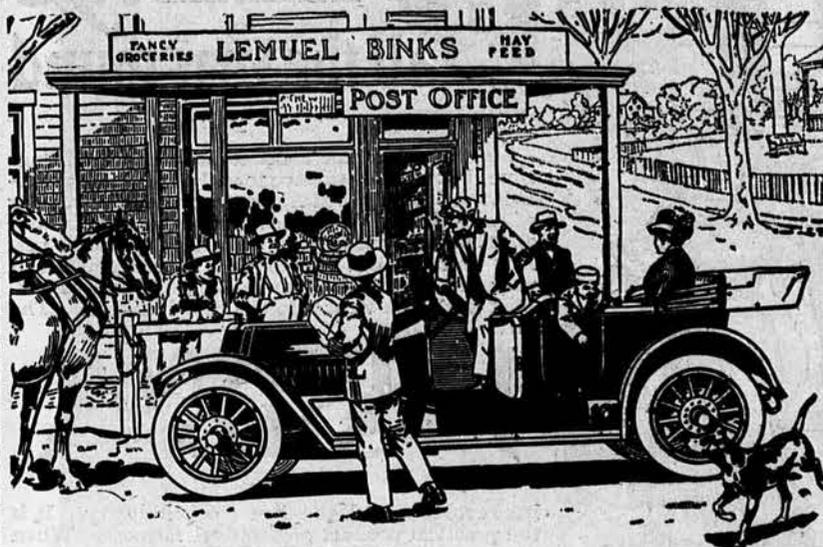
ing silo, and for a thousand other things sufficient to fill a book if properly described.

We have only endeavored to show that the tractor can be used for plowing, seeding, planting corn, threshing, road grading and hauling. These are all important things in a farming section. They must be done in the quickest, cheapest and best way. The gas tractor outfit, moving steadily and surely 10 or 20 hours per day and burning cheap fuel, has proven that it furnishes the quickest, cheapest and best way of doing these things on the farm.

And there is a certain satisfaction in knowing that when your tractor rests, it is not eating up its value in high priced grains and hay. The fact that the tractor does not need to be favored, adds to its value. There is not a chance that hard driving will cause it to become "wind broke"—it is always ready for work; never requires rest, and costs nothing when idle.

Another feature to be considered is that the tractor is a source of profit when working, and this profit can be made to last through the entire season. The profit begins when the first plow enters the soil in the spring. It continues during all the seeding and planting season. Haying time may find the tractor a friend in need, and the harvest season can not be handled in the most profitable manner without a tractor. Then use the tractor for threshing, fall plowing and hay-baling. If there are a few idle days, let the profit be continued by making good roads. If you have some hauling, or grubbing, or buildings to move, use the tractor. Pull your old fence posts with it. Use the tractor everywhere and all the time. Let it do all your horses can do and more! let it add to your profits by being used continually and at all sorts of work.

# Mitchell



**T**HE Mitchell is the best automobile for you, because it is the most efficient, powerful, reliable and convenient automobile ever offered to you at a moderate price.

You know that those are the four qualities your car must have; the Mitchell has them and many others that you will like.

The power and efficiency come from the new Mitchell T-head motor with the real long stroke—six and seven inches.

The reliability is guaranteed by the high standards maintained through 78 years of vehicle building. You have learned what the Mitchell name means—the best of workmanship and materials.

The unequalled convenience of the Mitchell automobile is due to the left hand drive with center control, the electric starter and the electric lighting system.

Comfort is assured by the extra long wheel base, the deep upholstery and the French Belaise springs.

All Mitchell 1913 cars have left drive and center control; Bosch ignition; Rayfield carburetor; Firestone demountable rims; rain-vision windshield; Jones speedometer; silk mohair top with dust cover; Turkish upholstered cushions; Timken front axle bearings; gauges on the dash to show air pressure and oil pressure; gauge in gasoline tank showing amount of gasoline it contains; and a portable electric lamp which also illuminates the instruments on the dash.

**All with T-head motor, electric self-starter, electric lighting system, and 36-inch wheels**

	Motor	Bore and Stroke	Wheel Base	Prices F. O. B. Racine
7 passenger Six	60 H. P.	4 1/2 x 7 in.	144 in.	\$2,500
2 or 5 passenger Six	50 H. P.	4 x 6 in.	132 in.	1,850
2 or 5 passenger Four	40 H. P.	4 1/2 x 7 in.	120 in.	1,500

DEALERS EVERYWHERE

**Mitchell-Lewis Motor Co.**  
Racine, Wisconsin

**Mitchell Motor Co., 16th & Grand**  
Kansas City, Mo.



# June Milkings all the year round

Most anybody can make a dairy pay in spring-time, but it takes science to make it equally profitable in the drought of August and the zero weather of mid-winter. We know what we are talking about because we used to be cattle men ourselves. And we found out how to make June forage last all year and how to get June milkings in mid-winter. That's why we went into the Silo business. The

## INDIANA SILO

has revolutionized the live stock industry. It is the practical product of practical farmers. When we made the first Indiana Silo ten years ago we made a better silo than anybody had ever made before. We sold it before it was finished and then made another even better than the first. Altogether we built 50 Indiana Silos that year.

Now we have four great factories with a capacity of 150 Indiana Silos a day. We are the largest silo manufacturers in the world. We have our own salaried timber experts at the mills who reject every piece of material that fails to come up to the standard of perfection that has made the Indiana Silo famous. We have built and sold more than 25,000 Indiana Silos and the first one is still standing and giving perfect satisfaction.

Let us build an Indiana Silo to your order now. We will make delivery when you want it.

### THE INDIANA SILO COMPANY

Factories:  
 Anderson, Ind. 311 Union Bldg.  
 Des Moines, Ia. 311 Indiana Bldg.  
 Kansas City, Mo. 311 Silo Bldg.

If you are farming for profit, we want to send you our catalogue and a free copy of the book "Silo Profits," which is the story of the Indiana Silo as written by scores of owners of Indiana Silos. Write for it today and let us send you the name of our representative in your locality.

Remember you don't need cash to buy an Indiana Silo—it buys itself.



Damaging Air Spaces Due to Wrong Plowing



Land Plowed Right—"C.T.X." Bottom No Air Spaces

## Plow Right and Protect Your Crops

The coming season may be dry and hot. Better be prepared for drought in case it does come. Better see that no air spaces are left between topsoil and subsoil, whoever does your plowing. For those air spaces cut off the moisture from below and rob you of half your crop.

You'll have no air spaces if you use a Rock Island "C.T.X." Universal Plow. It turns each slice clear over, flat and smooth. Buries all trash. Pulverizes dirt—saves one harrowing—leaves the topsoil in close contact with subsoil. In dry weather, moisture comes right up from below, like kerosene comes up your lamp wick. This feeds and saves your crops. All due to the peculiar corkscrew-like bottom on the Rock Island "C.T.X." Universal. This patented mouldboard carries the dirt backward and DOWNWARD, not backward and UPWARD, like all other plows. A very simple invention, but one that is revolutionizing all plowing methods. (Picture A shows Rock Island Universal bottom, and the arrow shows how dirt travels. Picture B shows ordinary plow bottom, and arrow shows how dirt travels.)



### A Genuine UNIVERSAL Plow

And the beauty of it is, with this plow you can plow up any field on your farm. Tame Sod, Heavy Clay, Sandy Loam, Mixed Soil, Stubble Fields, Old Cornfields, Meadows, etc., all look alike to the Rock Island "C.T.X." Universal. Saves buying a new plow or bottom for sod. It's a Universal plow that does perfect work in all cases and leaves no air spaces. That's why this plow so quickly became the sensation of the farm world. That's why you'll want it the minute you see it. Send a postal now, and we will tell you where you can see a "C.T.X." and price it. You can judge yourself and will realize why it's so much better.

#### Latest Catalog Free

It pictures and describes this most popular plow completely. Simply write these words on post card. I am interested in plows. Then add name and address and mail card to

ROCK ISLAND PLOW CO.  
 216 Second Ave. ROCK ISLAND, ILL.

Rock Island (C.T.X.) Universal Plow

Don't Waste Moisture By Poor Harrowing—Use the "ACME" HARROW, Clod Crusher and Leveler

On Plowed-Down Corn Stubble—Leaves All Trash, Etc., Buried

where it does the greatest amount of good as a fertilizer. The "ACME" Harrow is made entirely of steel and iron, and there is a size for your requirements. Send for our combined catalog—it illustrates and describes the "ACME" line.

DUANE H. WASH, Inc., 370 Division Ave., Millington, N.J.  
 John Deere Plow Co., Kansas City, Mo., Denver, Colo., Oklahoma City, Okla., Omaha, Neb.

## THIS HARROW CONSERVES MOISTURE

It prepares the finest seed bed for all grains and alfalfa because it compacts the soil and puts it in condition to conserve the moisture.



Write Today for Combined Catalog

28332 NOW!

# THE FARM



Exactly 922 farmers devoted five days of the holiday season to the lectures and demonstrations at the Kansas Agricultural College during farmers' institute week. The idea prevailing around the agricultural college is that rural Kansas is either uplifting itself or is being uplifted.

One of the important uses of sweet clover, as we view it, is that of a repairer of damage resulting from the running off of water and the consequent washing of farm lands. There are thousands of acres in those rolling sections of eastern Kansas which are now practically valueless so far as crop production is concerned, because of erosion. These acres can be seeded to sweet clover. The gullies will slowly fill and the sweet clover reseeding itself will form clover meadows which will result in converting waste land into pasture more or less valuable and at the same time save the land.

The Colorado Experiment Station is recommending to the upland farmers of Colorado the use of Grimm's alfalfa, which variety has been developed on the experiment station farm and which is considered extremely hardy and adapted to the high lands of the Colorado. To this date only a small quantity of seed has been distributed by the station, and farmers obtaining the seed have only small quantities for sale. The first seed of Grimm's alfalfa was distributed from the experiment station last season, and last year was not a good year for the production of seed, hence the small quantity of seed available. Western Kansas farmers who are without irrigation should keep an eye on this variety of alfalfa.

Somewhere recently we read that the soil water of our lands is lowering at the rate of almost two feet every ten years. This constant loss is due to the running off of rain and snow water that should be retained in the soil. The continued farming of lands without regard to the water-holding capacity of the soil results in a gradually decreasing absorption, with the result, as above stated, that the water line is every ten years receding from the soil surface to the extent of two feet. As this lowering of soil water occurs it is apparent that crops must feel the results of drouth to an increasing extent and decreasing yields result. This is more argument for maintaining the normal supply of humus and for the cultivation of farming lands in such way as to bring about a maximum absorption of precipitation.

At the Oklahoma Experiment Station during an eight-year test, Kafir has averaged nearly two and one-half times the yield of corn, and over two times the feeding value per acre as compared with corn. In one dry year Kafir yielded 71 bushels an acre and corn was a total failure. Another Oklahoma experience is that of M. J. Morrow, Admire, who in 1912 grew 80 bushels of Kafir per acre and 35 bushels of corn. J. M. Rimmer, Mangum, last year grew 3,000 bushels of Kafir on 40 acres, and a business man of Mangum rented his farm for one-third the crop, the land being planted to Kafir. His share was 34 bushels an acre. Evidence is rapidly accumulating to the effect that Kafir, properly handled, will give a sure and profitable crop every year, wet or dry. Evidence is also accumulating on the point that land which in Kansas yielded less than 25 bushels of corn per acre last year will yield a larger cash income or a greater feeding value per acre if planted to Kafir.

It has been stated by several KANSAS FARMER readers whose letters have been printed that Kafir is not yielding as it once did in those sections where Kafir has longest been planted. One subscriber ventured the assertion that possibly these sections needed a change of seed. We have made some personal investigation into the situation on two farms on which the above claims were made. We found that the heads in the fields on each farm were extremely loose, open, fluffy, grain small, dull in color, and apparently not matured. We are strongly inclined to the belief that on

each of these farms the seed has run out. The condition we think is due to mixing of the several varieties of Kafir, also with cane and broom corn. It is certain, however, that on such farms the Kafir seed should be changed. The Kafir head must be compact, long, and broad at the base and the top. Every observing farmer knows a good Kafir head. Seed should be obtained from fields in which this type of head is the prevailing type and in which the heads are uniform in type. It is not surprising at all that Kafir seed should degenerate. All seeds degenerate unless extraordinary care in selection, etc., is exercised.

The International Dry Farming Congress will be held in Oklahoma City, October 22 to November 1, 1913. Oklahoma is thoroughly awake to the making of a good showing at this congress and thus further justify the holding of the congress in that state. Oklahoma has been interested in this congress for several years and has made such a good showing as to be able to bring to her principal city this greatest of all farm congresses and expositions. Oklahoma is to be congratulated, but it goes against the grain somewhat for a Kansas to extend such congratulations. The fact is that Kansas, in a showing of dry farmed products, could, if she would, back Oklahoma off the map. Oklahoma agriculturists have been awake and have made a showing of her products. Kansas has produced the prize-winning stuff, but has not collected any exhibit, thereby taking advantage of the opportunity to get her products before the world. The Oklahoma Board of Agriculture is getting in shape for the next meeting of the congress, and in our judgment will make a great showing for that state, and such showing will be worth millions to Oklahoma. Kansas should have an organization of some sort or other which would give her some prestige in this show held just beyond her doorstep.

Corn growers of the northern one-fourth of Kansas should be especially particular in the selection of seed corn for planting this spring. Reports indicate that in this part of the state there is a great deal of soft corn. Soft corn is immature corn. This will make poor seed. There is only one way to know whether or not the seed corn selected will grow, and that is to test it. The conditions in this section last fall were not favorable for the maturing of late corn, particularly, and much of the corn was late, and it will pay big wages on the time required if the seed is carefully tested before planting.

At the farmers' institute at Manhattan last week, Doctor Crumbine, secretary of the Kansas Board of Health, talked at one of the general meetings on the subject of the necessity for making the farm home and surroundings sanitary. The well, the barn, and outhouses are in most cases located only with regard to convenience, and not to sanitation. He recommended the covering of the well with cement instead of board platform, the removal of the outhouses, and the burning of all waste matter on the farm. In case of sickness he recommended that either the doctor be called or let nature take its course and let patent medicines alone, swat the fly and vary the diet served on the table. He said it had been discovered that because of the insanitary conditions of the country nearly every epidemic of typhoid starts there. Such epidemics have started in the city in nearly every case by the milk supply from the country.

It is well known that large commercial interests are appropriating large sums of money to be used in field demonstration and farm advisory work throughout the country. The idea of such interest is to stimulate activity to better farming and increased production. To grow better grain and more of it is a worthy ambition for any man or institution. To assist men to do this is a worthy undertaking. However, such efforts as are made and such propaganda as is proposed should in every state conform to the proven ideas of general agriculture in that state. There is little doubt in our mind but that such

firms and corporations as appropriate money for the improvement and development of things agriculturally will take cognizance of methods believed to be practical and sound by the agricultural colleges and experiment station officials of the states in which they work. The willingness to work with and through the two institutions above named has been shown by one concern which has placed a thousand dollar fund at the command of each county in Kansas. This sum is available upon the organization of the county by the extension department of the Kansas Agricultural College, which assumes the responsibility of the recommendations of the farm adviser. In Illinois the state organization of farmers' institutes has been called upon to give its opinion of various agricultural promotion plans. The institute recently resolved that it would not approve the plans of any organization unless such plans contemplated the use of the "Illinois system," a farm practice which has been proven as workable and thoroughly practical for that state. The point is that the agricultural colleges are keeping close watch on the various plans proposed for agricultural uplift and they will protect the farmer from propaganda which does not possess merit.

Farmers Make Long Motor Trips.

An Augusta, Kan., paper says: The motor car owners of this section have had ideal southern roads all fall up to the present time. They have made good use of the fine condition of the roads, and have undertaken long trips over the state. Mr. T. A. Fenton drove his car overland to Kansas City in order to see the farms en route. J. H. Skaer made a motor trip down into Oklahoma, being gone about two weeks. Jas. A. Grant motored into western Kansas for a fishing trip. Warren E. Brown drove his car through to Colorado Springs, Col.

Important Fair Dates.

The Kansas State Fair Association, Topeka, will hold next season fair, September 8 to 13.  
 September 15 to 20.—Central Kansas fair, Hutchinson, Kan.  
 September 22 to 27.—St. Joseph Live Stock fair, St. Joseph, Mo.  
 September 22 to October 4—Oklahoma State fair, Oklahoma City.  
 September 26 to October 8—Missouri State fair, Sedalia, Mo.  
 October 13 to 18—American Royal fair, Kansas City, Mo.

Effect of Demonstration Farming.

Had the farms of North Dakota been farmed as well as the demonstration farms the increased yield of wheat and oats would have been worth \$33,308,620 for 1911. This is the striking result given in the report of the demonstration farms just published. The report contains a complete description of the work done on each of the 24 demonstration farms, making it a regular dictionary on the rotation of crops, giving complete data as to the different rotations used and complete details of how each crop was handled on each field. The work was done by farmers, but under the supervision of W. R. Porter, Superintendent and E. W. Hall, Assistant Superintendent. This demonstrates the use that farmers can make of information when it is brought to them.

Millet as a Feed for Horses.

Answering George D., Lyndon, Kan.: Millet for hay should be cut between the time of complete heading and late bloom. Cutting should not be delayed until the seeds begin to ripen. This on account of possible injurious effects it may have on animals eating it. Millet is recommended for horses of all ages as being adapted to maintain muscular strength. It should not be fed as exclusive roughage for any considerable period. One feed per day and corn fodder, Kafir, or prairie hay for the other feeds, is the desirable feeding combination. When fed continuously and exclusively for any considerable period, millet seems to cause an increased action of the kidneys followed by lameness and swelling of the joints. These conditions prevail only, it is believed, when the millet is not cut until the seed has matured. You will be safe in feeding millet to colts and horses provided you do not feed too much. Any objectionable results will easily be noticed, and your feeding methods can then be changed.

Top Prices for Durum Wheat.

In a conversation had with Secretary Wilson of the Department of Agriculture several days ago, he called attention to the fact that the market prices for durum wheat grown in this country are higher than ever before. It will be remembered that durum or macaroni wheat was introduced to this country by

the Secretary of Agriculture in 1893.

When this wheat first began to appear on the market, a considerable prejudice against it developed on the part of the milling trade and the price paid for it was as much as 15 cents a bushel lower than for other wheat of a similar quality. This difference in prices has been gradually decreasing until for the last three or four weeks, highest cash prices paid daily for durum wheat on the Duluth and Minneapolis markets have been equal to or as much as  $\frac{1}{4}$  to  $\frac{1}{2}$  cents in advance of those paid for No. 1 Northern, which is the standard and usually the highest priced wheat on these markets.

The present comparatively high prices of the durum wheat are in spite of a normal production of about 40 million bushels. It is probable that a constantly increasing use of the durum flour in the making of bread, either alone or in combination with common wheat flour, together with the inability of the Mediterranean markets to obtain durum wheats from Russia and the Balkan states at present, are responsible for the record prices.

Company Owns Traction Outfits.

Not long since a subscriber asked why a tractor owning company would not be fully as successful as a horse company owned by farmers. It was the subscriber's idea that a half dozen quarter section farmers own a traction plowing and seeding outfit and do their work on a co-operative plan. It occurred to us that such plan as suggested by our subscriber surely had been given a try-out somewhere some time and to arrive at the facts we referred the question to several tractor manufacturers. Here is what the International Harvester company wrote:

"In reply will say that this plan works well in theory, but has not proved practical in actual practice. Where a number of farmers buy a tractor, it has been found that when one of them wishes to plow, one or more of the others will wish to plow at the same time. It has also been found that where two or more farmers join together in the purchase of a tractor, one or more of the farmers will not be as good mechanics as the others, and the one who is a good mechanic will demand extra pay for his services in keeping the machine in working order, so you see the plan will not work out at all.

A more practical plan to suggest is to have one man purchase a tractor, but before doing so he should visit his neighbors and enter into contracts with them to plow their fields for so much per acre, and to do other work at a reasonable cost. He could say to his neighbors that if they will guarantee to give him a certain amount of work for the tractor, he will purchase one. This plan has been found to work out well in practice, and we believe it would be a good plan to agitate.

Methods Produce Valuable Wheat.

Good dry farming methods produced the five bushels of Montana wheat which won the \$5,000 cash prize exhibited at the recent Minneapolis land show. The prize winning wheat was grown at an altitude of 4,900 feet where the rainfall does not exceed 17 to 18 inches. "One crop had been produced on the land before we seeded it to this Turkey Red wheat," said the grower.

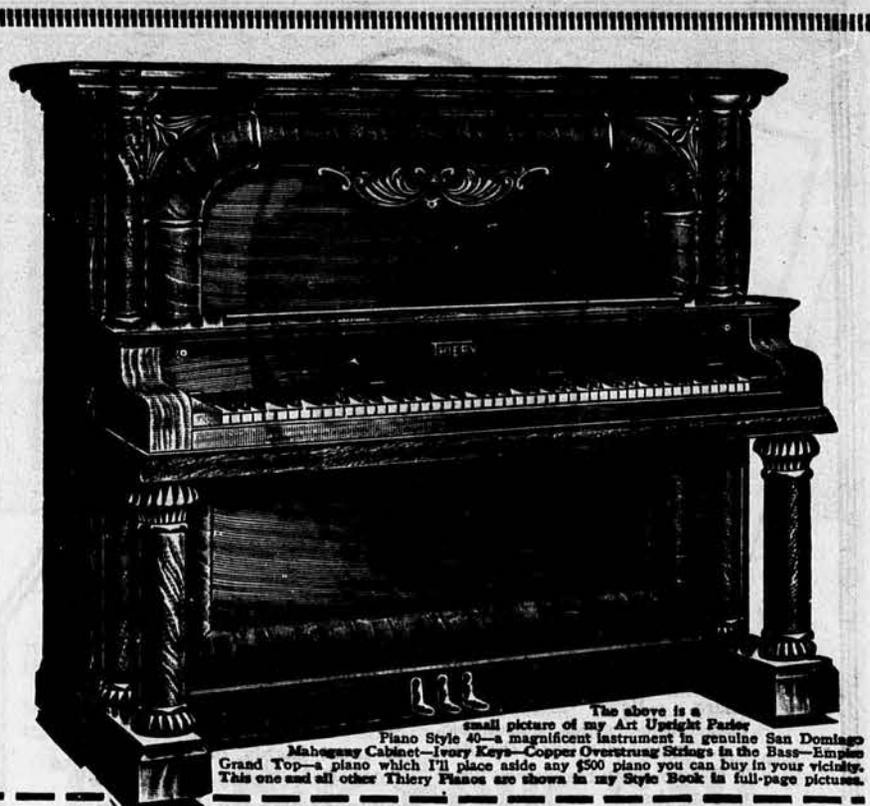
"We summer fallowed the land in 1911 by plowing with a mould-board plow not less than six inches deep in the last part of May and first of June. We dragged it down as soon as possible after plowing, the idea being to preserve the moisture by dragging within two days after plowing or sooner. After any rainfall of consequence the ground was dragged as soon as it was possible to get onto it with a team.

"About the first of July we double disc the field. The last of August and first of September, it was dragged and then the seed was planted by drilling with a double disc drill which put it down at least four inches. Forty pounds of seed were used to the acre and we prefer less rather than more. If the land is strong and clean, it will not require this amount.

"With such methods of farming moisture is preserved sufficient to start the seed to germinate immediately whether there is rain or not.

"In the spring of 1912 the field was harrowed or dragged as soon as the land was dry enough to permit it. Once or twice later we dragged it. This is done to keep a mulch on the land and keep it from baking or drying out.

"The soil of our ranch is a dark mountain loam, beneath which is a limestone clay subsoil. The wheat was produced without any artificial means of sub-irrigation, though we have considerable winter snow, which helps preserve the wheat through the winter."



The above is a small picture of my Art Upright Piano Mahogany Cabinet—Ivory Keys—Copper Overstrung Strings in the Bass—Empire Grand Top—a piano which I'll place aside any \$500 piano you can buy in your vicinity. This one and all other Thiery Pianos are shown in my Style Book in full-page pictures.

# 30 DAYS FREE TRIAL

All Freight Paid—No Advance Money—Ship Back at My Expense if You're Not Glad You Sent For It. Two or Three Years Time to Pay if You Want it. Any Thiery Piano You Choose Is Yours, ALL FREIGHT CHARGES PAID, Exactly as Stated Above

My New Style Book is ready—and my 1913 Buying Plans and Straight-to-You Prices. Just like finding money when you buy a Thiery Piano—"Nothing-to-Pay-for-but-Quality"—no tidy profits to pay to agents or dealers—thirty days real free trial—all freight paid—no money in advance. Just fill out the coupon below and send to me.

More than half the pianos made are like cheap watches—they are merely good looking cases with the inside quality LEFT OUT! There is no chance for you to be satisfied with a piano like that—the odds are all against you. Don't start a deal anywhere—don't even think of buying a piano from anybody anywhere until you get my book and plans. Just fill out the coupon below and send it to me. What you will receive by return mail will surprise you. "Nothing to pay for but Quality" when you buy a Thiery Piano because no agents to deal with—no fancy profits to middle-men. Any Thiery Piano you choose from my Style Book is yours, freight prepaid, nothing to pay in advance—no deposits—nothing to do but try and test it at my expense for thirty days and merely ship back if you are not glad you ordered it. If you are not a cash buyer, you can have all the credit you need. A hundred and one ways to purchase. Not the commonly advertised so-much-a-month-plan, but a hundred and one different ways. Quarterly—semi-annual or annual payments—my special letter will tell you all about them. Every Thiery Piano is fully warranted, not just for a few years, but by a real guarantee, which warrants the pianos long as you keep it, against any defect in material or workmanship. The new 1913 Thiery Pianos all have genuine ivory keys, not celluloid or imitation. They all have double veneered cabinets both inside and out, in genuine mahogany and burr walnut. They have polished brass hinges and trimmings and the pedals are the best quality brass. They have Empire Grand Tops—nickel plated tuning pins and copper overstrung strings in bass. And, without extra charge, you can now have Thiery Pianos in the new and

**I pay the freight**

**30 DAYS FREE TRIAL**

per have them in their homes and with my book you will receive scores of testimonial letters. Send the coupon now—the book is all ready to go to you post-paid.

DO YOU WANT AN ORGAN?

Thiery Organs are the real "music-makers" of all organs. 12000 sold direct to homes in the last two years. My Style Book of Organs, printed in colors, shows and tells all about them. 30 day trial and test in your own home—ship back at my expense if you are not more than pleased. No money in advance—from one to two years time to pay if you are not a cash buyer. \$2.50 per month and up buys one. Choice of parlor, chapel and piano-case styles—at a saving of \$25 to \$50. If you want an organ, send coupon now and receive new Style Book free by return mail. Be sure and mention on coupon whether you want piano or organ book, so I can send you right book.



J. B. THIERY, The Piano and Organ Man, Milwaukee, Wis.

## FREE

Just fill out the coupon below and send it to me and my new 1913 Style Book goes to you at once post-paid together with special letter and direct to you prices and terms. If you are an organ buyer, you can get my organ book, printed in colors. It will interest you and show you how you can save \$25.00 to \$50.00 on an organ.

J. B. THIERY, The Piano and Organ Man, Milwaukee, Wis.—Without slightest obligation on my part, please send to me at once, postpaid, your beautiful New 1913 Style Book, with Special Letter, Net Price List and full particulars of your 1913 buying plans and offers, as advertised in Kansas Farmer.

PIANO STYLE BOOK NAME \_\_\_\_\_

ORGAN STYLE BOOK 47 PLACE AN (X) MARK IN SQUARE OPPOSITE BOOK YOU WANT

# SOME FARM TOPICS

Notes of Proceedings of Kansas State Board of Agriculture

**T**HE forty-second annual meeting of the Kansas State Board of Agriculture was held in Topeka last week. The program measured up to the standard of former meetings. The attendance was unusually small, this due to the prevailing weather conditions, which not only made traveling difficult, but which on the good farmer and stockman could have no effect other than causing him to stay close to the affairs of the farm. George B. Ross, the well known Percheron breeder of Rice County, was elected president of the board for the ensuing year. Other officers elected were: A. W. Smith, McPherson, vice-president; J. T. Treadway, LaHarpe, treasurer. F. D. Coburn was elected secretary of the board a year ago for a two-year term. Members elected were: Charles E. Sutton, Lawrence; O. O. Wolf, Ottawa; A. L. Sponsler, Hutchinson; and James N. Pike, Colby. The above officers and members were elected to succeed themselves. I. D. Diesem of Garden City, the retiring president, was elected to succeed J. C. Robison of Topeka. Mr. Robison was elected a member for the unexpired term of George B. Ross.

at this station and in which investigation large numbers of swine have been used, have been obtained through the use of corn and alfalfa hay and alfalfa pasture, these having been found to be the economical feeds for producing pork. Kansas, with corn, Kafir and alfalfa, can make pork at a profit not as yet fully realized.

Every Kansas farmer should have heard the talk of Professor Lippincott of the Kansas Agricultural College and which had to do with the handling of farm poultry. The editor is not a poultryman, and we employ one of the most practical and successful poultrymen in Kansas to write our poultry department. The editor, however, has spent the greater part of his life on a farm, and as other farmers have realized, knows that a farm is not a farm without poultry. Professor Lippincott's address was thoroughly practical and by long odds the best thing we have ever heard on the subject. This address will appear in full in KANSAS FARMER at an early date. We urge our readers to watch for this address and to thoroughly familiarize themselves with its contents.

Those addresses made before the meeting and of general interest to the readers of KANSAS FARMER will be printed in whole or in part from time to time. It is quite impossible to devote any considerable space in a single issue of KANSAS FARMER to the addresses given before any one meeting. As a rule, however, these addresses are of such character as make them fully as valuable at one time as at another. The more important addresses—so viewed by us from the standpoint of our readers—will be printed first.

The address of L. E. Call, Kansas State Agricultural College, having to do with the decline in acre yield of Kansas crops and the causes and remedies therefor, was printed complete in KANSAS FARMER issue of January 4. The charts illustrating Mr. Call's address were also reproduced with the article in the issue above. This address is one of the important contributions to the agricultural literature of the present time. If you have not carefully read and digested that article, we recommend that you do so at your earliest convenience. Following this speech was the most spirited discussion of the meeting. We have never before seen a meeting of Kansas farmers so thoroughly aroused over the soil fertility question as were those who heard Mr. Call's address and who participated in the discussion following. On every man's lips were questions as to how and when manure should be applied, what crops in rotation were best adapted to the conservation of soil's fertility, etc. In this meeting and on this occasion for the first time we saw farmers from throughout the state admit that the fertility of Kansas soil has been recklessly and wastefully handled. These same men were seeking methods for the repair of the damage. An occasional farmer of foresight and who has by his methods been taking care of his land, was severe in his denunciation of those who had failed to conserve fertility.

John Peck of Tecumseh, Shawnee County, said: "The man who robs the soil is as much a robber as the man who robs a bank, and should be treated as such. The man who takes a farm and works it, using up the fertility of the soil and leaving it poorer than he found it, is a thief. He is taking something that belongs to future generations." Ten years ago it would have been impossible to find a real farmer who would throw this challenge into the teeth of his neighbors.

If you will read Call's article printed in January 4 issue of KANSAS FARMER you will be thoroughly posted as to his views in the proper practice of checking the decline in yield and for building up farm lands.

A most excellent address was given by W. P. Snyder, superintendent of the experiment substation, North Platte, Neb., and having to do with economical rations in pork production. This paper contained so many figures as a result of investigations that the hearer could scarcely realize its value. When this address appears in print and you can spend a half day digesting these figures, you will recognize it as an important contribution on the subject. Suffice it to say that the best results in seven or eight years of investigation of pork production

The place for beef cattle in Kansas was discussed by W. A. Cochel of the Kansas Agricultural College. It has not heretofore been our fortune to listen to a more thoroughgoing presentation of this subject. The sum and substance of his address was that through live stock the grains and roughage of the farm can be marketed to better advantage than by any other means. It was his statement that for a period of eight years beef steers have at the Kansas Agricultural College paid 28 cents per bushel more for grain than the average selling price of the same grain for that period through the mills and elevators. This, together with the fact that beef cattle consume large quantities of roughage which have no market value, places the steer in the position of the purchaser of all farm feeds at the highest prices. He asserted that live stock is essential to agricultural prosperity and that in every section where live stock has ceased to exist there are to be found abandoned farms. He stated that the prices for beef have each year for years and years been averaging higher and higher. He related that at the present time fat cattle are selling for more money than purebred breeding stock of equal weight would cost, and asserted that right now is the time to exchange common stock for well-bred stock. He asserted, too, that the live stock industry develops a better class of citizenship than does crop farming. Citizenship may not be recognized as something which has a cash value. However, live stock farming is a type of agricultural activity which is more attractive and consequently has a greater tendency to holding the rural population on the farm than any other type of agricultural work.

D. A. Wallace, editor of The Farmer, St. Paul, discussed factors in a state's agricultural development from a northwest viewpoint. His address had to do mostly with the organization of co-operative marketing enterprises in Minnesota and pointed to the advantages of such enterprises. He related how in two potato growing sections one section received 30 cents per bushel more for its potatoes than the other because in the first section only three varieties of potatoes were grown—as a result of grow-

The vital part of a plow is the plow "bottom." The high standing of John Deere plows rests on the excellence of the John Deere "bottom."



plow shares (quick detachable) are the greatest convenience ever put on a plow. They are the latest, simplest, strongest. Find out all about them. Write for booklet at once.

### John Deere "Shares" For New Deere Sulky and Gangs

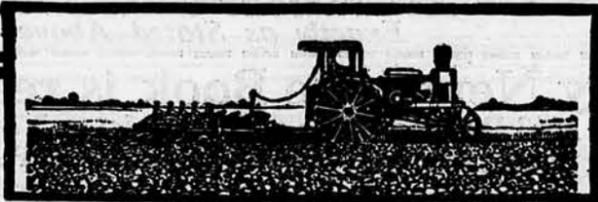
Saves 80 per cent of the time required to change an ordinary share. **Q-D** means quick detachable—quick attachable, too. On and off quick is the idea. Only one nut to remove. That nut is handy to reach, too. Glance at the picture. Take this one nut off and the share comes off. Slip the sharp share on and tighten up nut. Don't waste time changing old style shares. You really can't afford to. When you see this new share you won't want to.

### New and Exclusive John Deere Feature

Found only on John Deere Sulky and Gang Plows. The art of making plow bottoms is most highly developed in John Deere product as now equipped with the new and exclusive **Q-D** share. John Deere plows, always good plows, always the very latest, always the most modern.

Write for **Q-D** Book—mailed free—No. Q-D 13

John Deere Plow Co., Moline, Ill.



## Don't Feed Your Last Year's Crops Into Idle Horses This Winter

Sell your extra horses and farm with an Avery "Light-Weight" Tractor and "Self-Lift" Plow. Don't keep idle horses any longer standing around eating their heads off.

Agricultural statistics show that farm horses average only about 100 full days work a year. The other 265 days time you have to feed them just the same—all for nothing.

You can't afford this expense—this waste—when fuel for the Avery Gas and Oil Tractor costs less than horse feed. And

**Write for Sold on Approval Terms and Avery Tractor Book** that shows how any man on a small or large sized farm can farm with power. Tells about the little 12-35 H. P. Baby Avery Tractor built for small farms—pulls 3 to 4 plows; the medium size 20-35 H. P.—pulls 5 to 6 plows; and the big 40-60 H. P.—pulls 8 to 10 plows. Explains how the wonderfully "Light-Weight" of Avery Tractors enables them to travel on any ground in fit condition to be worked with horses and why they don't pack the ground and waste fuel like the heavy weight tractors do. Shows why Avery Tractors are the simplest tractors built. Describes the Wonderful Avery No-Man Automatic "Self-Lift" Plow that does away with a plowman, saves hard backbreaking work and saves time. You or your boy can run an Avery Outfit alone. Tells about the Avery Company's Policy of Selling on approval at low prices and backing up with strong guarantees. Write today for complete selling plan. Address

**AVERY**  
"Light-Weight" Tractor and "Self-Lift" Plow

**Sold on Approval and Fully Guaranteed.** Write for Complete Power Farming Facts and Avery Selling Plan.

For 1913 complete Avery Tractor Book with Power Farming Facts and Complete Selling Plan. Address **PEORIA, ILLINOIS**  
**1403 Iowa Street, PEORIA, ILLINOIS**  
Also manufacturers of Avery Undermounted Steam Traction Engines, "Yellow-Fellow" Grain Thrashers and Gasoline Farm Trucks.

## What Size Engine Do You Want?



1 1/2 to 15 h. p.—it's all the same to me. I've got a New 1913 Model in all sizes that fairly eats up work on the farm. Runs the biggest job at a cost of a penny or two for gasoline—has no complicated parts—can be operated by a boy—more substantially built, reliable, durable—and with all its superiorities sells at a price of \$50 to \$300 lower than old-style engines.

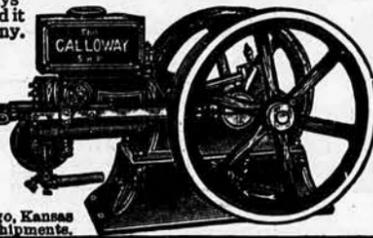
Write your name on a postal and I'll mail you my new engine book and revised price list. Just pick out the engine you want. I'll ship it to you on 30, 60 or 90 days FREE trial. Then, if you don't want engine, send it back to me. The trial will not have cost you a penny.

### It's a GALLOWAY

### \$50 To \$300 Easily Saved

is worth looking into, especially when it's on best quality, New 1913 Model farm engine—permanently guaranteed. Ask for book which tells all. Also Special 1913 Proposition and Prices.

**WILLIAM GALLOWAY, Pres.**  
**THE WILLIAM GALLOWAY COMPANY,**  
2856Z Galloway Station, Waterloo, Iowa  
REMEMBER—We carry stocks of all our machines at Chicago, Kansas City, Council Bluffs and Minneapolis—insuring prompt shipments.



### 3 MACHINES IN 1

A perfect seed bed is as important as to sow or plant. The Western Pulverizer, Packer and Mulcher makes a perfect seed bed and leaves a loose mulch on top to retain the moisture in one operation. It will double profits on crops. Made in sections. Sold direct to you on one year's trial. Prices, \$22.00 and up.

WE WANT every farmer and landowner to have our illustrated circular. It describes the machine, its principle and advantages over all others. It gives testimonials from many farmers proving what it will do on wheat, alfalfa and other crops. It contains valuable information on how to prepare the soil for better results. Send for this circular today, whether you want to buy or not.

**WESTERN LAND ROLLER CO.**  
Hastings, Neb.  
Box 205

### GALVANIZED ROOFING

Having contracted for a large stock of Galvanized Sheets for 1913 business, we are compelled to make room for this material. We have a full stock of Galvanized Roofing which we must dispose of at once. This is first class roofing but we must have the room. Now is your time to save money on roofing. Write for bottom prices at once, as this roofing will not last long.

**COLUMBIAN STEEL TANK CO.**  
1607 W. Twelfth St., Kansas City, Mo.

### FREE to Fruit Growers

I want to interest everyone in growing BETTER fruit and in an ORGANIZATION to get better prices for it. Do not write unless really interested in fruit. If you are, tell how many acres in your farm, how many planted to fruits, and what varieties. Also send names of five friends who grow fruit, and I will send FREE, postpaid, a paper-bound copy of "The Fruit-Growers Guide-Book." This is the same as cloth-bound edition which sells for \$1.00. Best fruit book ever written, nearly 200 pages, handsomely illustrated. I will also tell you about our organization plan. We do not want curiosity seekers, but if really interested, write me today.

**W. P. Tracy, Secretary, Box 4, St. Joseph, Mo.**

### GOOD SEEDS

**BEST IN THE WORLD**  
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.

**Big Catalog FREE**  
Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

**R. H. SHUMWAY, Rockford, Illinois**

### Ditching and Sub-Soil Plow

This plow will save you more money than any other implement on your farm.

Send for Descriptive Circular and Prices

**LARIMER COMPANY, EOLA, ILLINOIS**

### WANTED

Names of parties interested in 45-H. P. Tractors; 2-cylinder, horizontal, speed 1 1/2 to 2 1/2 miles per hour; weight, 10 tons. Selling price, \$2,250. Our special price, if sold within one month, \$1,000. One-half cash, balance easy payments.

**The St. Mary's Machine Co.**  
St. Mary's, Ohio.

### FREE Seeds

Our handsome Seed Catalogue. Send your address on a postal today, or for a 2c stamp and the names of two neighbors, actual seed buyers, catalog and packet Early June TOMATO Seeds earliest variety grown, if sent before March 15. Address

**COLE'S SEED STORE, Pella, Iowa.**

50 CONCORD Nursery Snaps 50 BUDDED GRAPES \$1 NURSERY SNAPS \$1

Hardy, vigorous, guaranteed stock. Low price and square deal on all nursery stock. Send for Catalog and 2c Due Bill, Free.

**FAIRBURY NURSERY, BOX 1, FAIRBURY, NEB.**

### BUY AT WHOLESALE

Forty Fruit Trees \$6.00  
100 Strawberry plants 75 cents. Charges prepaid. Send for further information and Catalog. Address,

**MOLSINGER BROS., Box 53, Rosedale, Kans.**

ers' co-operation—and because of the larger quantities of such varieties car load shipments of a single variety were possible, whereas in the second instance a dozen or more varieties were grown and marketing conditions consequently less favorable. He related how breeding associations of both horses and cattle had reverted to the advantage of those interested. Similar examples in a half dozen other lines were related by him. The people of Minnesota are to a greater extent than in any other state born co-operators. This, because of the unusually large number of farmers who have been trained to know the advantages of co-operation in those old countries from which they came. "Co-operative successes," said Mr. Wallace, "are the outgrowth of emergency and necessity." He related, too, that the county farm adviser was an important factor in the success of Minnesota agriculture. The means for the support of such advisers in that state is somewhat different from the means by which advisers in Kansas are established. It is of little importance as to how the adviser is maintained, but after the adviser has been established his work and the advantages offered fall into the same lines, whether the adviser is established in Minnesota, New York or Alabama.

J. H. Miller, director of the extension division of the Kansas Agricultural College, made the closing address in so far as the interests of Kansas farmers generally were concerned. If we were called upon to name the most important speech in this meeting we would select Miller's talk on county demonstration agents as unqualifiedly that to which the distinction of first place should go. The county demonstration agent or county farm adviser idea has not in Kansas grown as in our judgment the situation warrants. We have so stated several times. It is not our desire to become chesty on this subject. However, the idea is important and in our judgment, as well as in the judgment of individual farmers in Kansas, is the most important topic before our people at this time. The idea is somewhat new, and for this reason we feel it has met with opposition which is the result of misunderstanding more than a condemnation of the idea. Mr. Miller is the most enthusiastic and the best informed spokesman on this topic known to us, and it is to be regretted that every farmer in Kansas could not hear the subject as presented by him. We will in a subsequent issue reproduce the essence of this speech. In the meantime we urge upon KANSAS FARMER readers in general to digest thoughtfully and prayerfully everything they have a chance to read or hear on this subject and withhold final judgment until enough has been learned to warrant an intelligent decision. Evidence as to the value of the farm adviser is rapidly accumulating, and this evidence will be presented through KANSAS FARMER from time to time and as one of the thoroughly practical and helpful agencies for the improvement of our agricultural conditions holds wonderful possibilities for the farmers of those counties ultimately deciding to give the adviser a trial.

### California Alfalfa Experience.

The editor has heard and read that in California alfalfa was quite generally pastured on dairy farms. This is the only answer received to date from a number of letters written making inquiry into the experiences of that section:

"I know from general observation that in certain parts of this state alfalfa is being pastured extensively and successfully, whereas in other parts of the state it is not being pastured at all, due to the fact that the cows bloat very readily. For instance, in Humboldt County, it is a very dangerous matter to pasture alfalfa, and it is dangerous to pasture young clover also, but you will remember that the climate up there is very cool, and the plants are very succulent, and there is a great deal of dew falls every night. On the other hand, in the interior section of this state the pasturing of alfalfa is practiced extensively. "As to the result in the shape of milk production: Am reliably informed that you get a greater yield of milk and a better test allowing the cows to pasture as against soil feeding, but, of course, it takes twice the acres to keep the same number of cows when you pasture as against yard feeding. I also notice that weeds appear very readily after alfalfa is being pastured extensively, which is not the case where it is being cut for hay, so it is quite probable that alfalfa will have to be replanted oftener where pastured than where used for hay purposes only.—A. JENSEN, Eureka, Cal.

# Read what these BIG FOUR Users say

## RESULTS COUNT.

In selecting your farm tractor you need not base your judgment on the claims of the makers. This book, "Results Count," contains extracts from users' letters, telling just what their BIG FOUR tractors actually did for them in everyday use.

When you buy a BIG FOUR "30" you are not buying an experiment. It was the first successful tractor—and it still leads. It is the first to utilize the efficient, continuous power stream of the four-cylinder principle.

### The Big Four "30"

**Only Tractor SOLD ON APPROVAL. Steers self, saves one man. Mammoth 36-inch Drive Wheels. Most Power at Lowest Cost.**

The BIG FOUR "30" uses kerosene, gasoline, benzine, naphtha, distillate or alcohol, with unequalled economy and efficiency. It is the most efficient, most reliable, most economical farm power in use today.

Self-steering device, found on no other tractor, saves one man. No farmer who has ever used the BIG FOUR or seen it work will have any other.

**Free Book** Write us today for "Results Count" sent FREE. Investigate the actual record of the BIG FOUR.

**Emerson-Brantingham Implement Co.**  
Incorporated  
311 Iron St., Rockford, Ill.  
The Largest Line of Farm Machinery in the World  
Plows, Harrows, Pulverizers, Listers, Spreaders, Planters, Drills, Cultivators, Mowers, Hay Tools, Baling Presses, Corn Shellers, Gas Engines, Farm Tractors, Steam Traction Engines, Threshing Machines, Road Rollers, Wagons and Vehicles.

## Factory Prices for the Asking—on Genuine Witte Engines

**FREE Engine Book**

THE genuine Witte—conceded the best farm engine in America—now offered at actual wholesale prices. Yes, this is the engine that has led the gasoline engine field for 25 years. Dealers have been getting the highest prices for the Witte. Now you can get one at actual factory price—what the dealer paid—and have the finest engine in your county.

### Our Gas Well Saves You Many Dollars More

We do more than give you ordinary factory prices. We are the only manufacturers who have our own gas well. Power, testing, forge, foundry and heating fuels cost us nothing. You get the benefits. But you couldn't afford to own any other engine even if the Witte cost twice as much—because an average of 1 cent for every horse-power per hour cuts gasoline bills in half—rays for your engine in no time.

Every part guaranteed 5 years—full rated horse power on minimum gasoline guaranteed too. Built in all sizes from 1 1/2 to 40 h. p., every one tested to 10% over load.

### WRITE FOR 60 DAYS FREE TRIAL OFFER

and complete, direct, factory price proposition with catalog and special offer bulletin. We expose engine secrets in this bulletin that will startle you. Remember, it's your first chance at an engine of quality, standing and reputation at a small price. Mention size needed or work to be done. Write at once.

**WITTE IRON WORKS CO.**  
1602 Oakland Ave.  
Kansas City, Mo.

Every Part Guaranteed 5 Years

# CLOVER

Get a big "Catch" of Clover

### Our New Wonderful Book Entitled "Clover and How to Grow It"

Enrich Soil—Increase Your Crops

Thousands of farmers have not been able to get a clover "catch" in the last few years. They have wondered why. Our book tells you. It is full of \$ Oats Money & information. Tells you how to put in the necessary bacteria that your soil lacks on account of continual cropping and how the soil is inoculated. This process provides the necessary bacteria that draw the nitrogen from the air, that you lack. Send for it. Send 10c in stamps to cover postage and handling. Why not start a soil enriching campaign on your farm?

Clover wonderfully enriches the soil. We can help you to get a fine stand of clover—tell you how to meet your particular soil conditions. No cost or obligation on your part. We reward fortunes to tell farmers about "Nitrogen" inoculation. Our book "Clover and How to Grow It" is free to you though the information it contains is worth hundreds of dollars to farmers. Get the big \$ Oats Money & crop. Make your oat and corn land yield double crops. Send for this new original book now. Enclose 10 cents to cover postage and handling.

**GALLOWAY-BROS.-BOWMAN COMPANY, Box 384 H, Waterloo, Iowa.**

When You Write Advertisers Be sure to mention this paper. Our advertisers like to know where their replies come from.

**Half the Rubbing taken out of Scrubbing**

**Old Dutch Cleanser**

Many Uses and Full Directions On Large Sifter-Can 10¢

# DAIRY



Jacoba Irene, the champion Jersey cow, died October 25. She left a heifer calf dropped August 12. Her death resulted from congested udder. She was owned by F. B. Keeney, New York.

Breeding in the dairy animal amounts to little or nothing unless the animal is so fed as to develop the cow and so obtain the results of her superior breeding. On the other hand, many calves of scrub breeding, properly reared and fed, will develop into profitable milk producers. The chances, of course, are always in favor of the heifer calf of good dairy breeding being a good milker.

KANSAS FARMER a few weeks ago reported the organization of a cow-testing association in Leavenworth County by P. H. Ross, county farm adviser, and which report gave the impression that Adviser Ross would give to that association a part of his time. Mr. Ross writes that he will give none of his time to the cow-testing work after the organization is completed. He says that the man who looks after the cow-testing association will have his time completely taken up with that work. Mr. Ross desires that this correction be made in order that the impression may not be gained by farm advisers who may take up the work in other counties, that they can devote any part of their time to cow testing further than the organization of the association.

A dairy farmer whose work we have watched for years has discontinued soiling. He now has a summer silo and feeds alfalfa hay with his silage. He could have clover and timothy pasture if he wanted it. He says his land is too high-priced to permit pasturing. He grows two crops on his land—corn for silage, alfalfa for hay. These he feeds the year around, in his barn or feed lot. He buys corn which he grinds for chop, claiming he can buy ear corn cheaper than he can grow it. More or less corn chop is fed the year around as a dessert. Cows like corn chop better than anything else in the world. He thinks his cows are entitled to this dainty. His herd is averaging 400 pounds of butter per cow, and it will at once be seen that the cows are paying so well for their feed that their owner can treat them to the dainties if such is his disposition.

As we have heretofore stated, and as is well known to every KANSAS FARMER reader, the present situation with reference to hired help is one of the hindrances to the development of dairying. The hired help problem is an argument for the small farm. The measure of farm operations for the present—and, so far as we are able to see, for years to come—is that which a man can do within his family. The practicability of the small farm makes it possible for the man of small means to get a toe-hold. The man who is willing to conduct his farm operations on such basis as is within the measure of the possibilities of his own family, so far as work is concerned, must of necessity be constructive, energetic, and fully posted on the best there is along the lines in which he engages. There is a greater chance for success on the one-man farm than there is in the one-man shop in town.

We have just read a story of the accomplishments of Hal Young, a farm dairyman near Lincoln, Neb. We have for years known Mr. Young. His dairy herd is composed of pure-bred Jerseys selected and bred for high production. Last year his 40 cows produced an average of nearly 400 pounds of butter per cow. The 40 head included several two-year-old heifers in their first lactation period. This herd has been seven years in the building. Uniformly high-producing cows were bought first. These were the foundation. By the use of good sires, by selecting heifer calves from the best cows, and by the use of the Babcock test, the above results have been obtained. Mr. Young first set out to make his money from the sale of milk and butter fat. He of course soon found himself engaged in the sale of pure-bred breeding stock, and now both ends of the business are paying well. What Mr. Young has done, seven of every ten Kansas farmers can do if they have a desire so to do.

Butter fat is scarce. It always is at this time of the year when prices are highest. Prices are high now because of the scarcity. The scarcity exists because dairy farmers have not arranged for a feed supply conducive to abundant milk production and because the cows were allowed to freshen last spring instead of this fall. The production of butter fat during the summer when it is most easily produced and when in fact Nature arranges all the favorable conditions, is the common way, and any farm will produce butter fat under such conditions. Ordinary methods have never resulted in progress in any business. The man makes headway only when he breaks away from the common way of doing things. The man who is sufficiently independent and self-reliant to figure things out for himself and who refuses to trail in the wake of common practice, is the fellow who will have the most butter fat to sell when the prices are highest. In other words, the man who will so regulate the affairs of his herd that the cows will freshen in the fall, and who will invest in a silo and fill it with corn, Kafir, or cane, thereby enabling him to feed a green, succulent ration very near the equal of June grass, is the man who will make money dairying.

It occurs to us, generally speaking, that too many of us are drifting on the tide. We sow wheat because our neighbors sow it. We have a few cows and a few hogs because our neighbors have them on their farms. It seems to us that the farmer is justified in growing wheat only with a view to his making money out of the crop—not because growing wheat is the fashion in his neighborhood. It occurs to us that the only excuse for keeping a herd of cows is for the money that herd will produce. When we have systematized our farm operations on some such basis as this, then will we become wheat growers who are making money out of wheat because we grow it better and so get larger yields of better quality than the ordinary. When we keep cows for the money there is in them, we will have better cows, we will feed better, we will have a larger annual product, and so we will be engaging in profitable dairying and not cow-keeping. Our farming operations cannot in this country be confined, with greatest profit, to any one thing. In our judgment we could have about three main issues for our general farm operations. These will be plenty. Rightly attended to, there will be little time and less disposition for side issues.

KANSAS FARMER readers have experienced within the last week the necessity for stabling the dairy herd through the daytime as well as at night provided the herd has had the care it deserves and the care necessary to produce milk without interruption as a result of exposure. On thousands of farms in Kansas during this time has become apparent the necessity for more convenient stables and stables better adapted to the 24-hour use of cows. Every dairy farmer knows what he needs. He has in his mind the plans for such barns and stables as will best fit his pocketbook and his requirements. Realizing all of these things, including the necessity, why not set about now to work out those plans so that the right kind of stabling and the right kind of care may be accorded the cows next winter? Comfortable stabling should not be viewed from the standpoint of cow necessity alone, either. It should be viewed from the standpoint of comfort and satisfaction to the milkers and the feeders. If such provision should be made on every farm on which cows are stabled, as is possible and within the pocketbook of the farm dairyman making the arrangement, the dairy business would be in much better repute than it is today. It is drudgery and inconvenient and unpleasant to chop shock fodder out of the snow and to face a 40-mile per hour wind in loading and hauling it to the feed lot. If this same corn fodder had been harvested as silage and a 100-ton silo filled during the more pleasant weather of last fall, and that silage fed in boxes in the barn or stable, dairying would be looked upon as a pleasant industry rather than one of the most unpleasant occupations connected with farming.

**The Man Who Shoes Your Horse Must Know His Business**

Are you sure about the men who make your rubber footwear? There is one sure way to get the best rubber boots and arctics. Let the maker's name be your guide. Buy "Ball-Band" Rubber Footwear.

**"BALL (Red) BAND"**

Over eight million men buy "Ball-Band" Goods every year and over 45,000 dealers sell them. Look for the Red Ball—the "Ball-Band" trade mark—and write us if your dealer cannot supply you in "Ball-Band" Boots. We will see that you are fitted. Write for Free Illustrated Booklet. MISHAWAKA WOOLEN MFG. CO., 316 WATER ST., MISHAWAKA, IND. "The House That Pays Millions for Quality"

**Before You Milk Your Cows Again Write for the GREAT WESTERN SEPARATOR Book Sent FREE**

Our free book is a gold mine of cream and butter-profit facts. It tells you how to get all the cream, highest quality cream, with least work and biggest profits for the longest term of years. It shows you in plain figures how to make from \$5.00 to \$15.00 more from every cow, per year, whether you now own a cream separator or not. Don't you want this great book, FREE? Get all the Facts You Want to Know About Separators

Read about the Great Western. Note that the bowl delivers cream from the top and skim-milk from the bottom, so there's no chance of their mixing. It is self-draining and self-flushing; there are no long tubes, no minute slots, corners, crevices, or ragged edges to hold milk and collect dirt. The Great Western is ball-bearing throughout. Perfectly uniform balls, 50 to 100% harder than regular. Ball races tempered so file cannot cut them. We will arrange for you to get a Great Western on any kind of a trial to prove that our claims are not strong enough.

**Now!** Just mail us your name and address on a postal for the big, fine, illustrated Great Western Book. It's worth MONEY to you.

ROCK ISLAND PLOW CO., 213-C Second Ave., Rock Island, Ill.

MENTION KANSAS FARMER WHEN YOU WRITE.

**Beacon Burner FREE**

FITS YOUR OLD LAMP.

100 Candle Power Incandescent pure white light from (kerosene) coal oil. Beats either gas or electricity. COSTS ONLY 1 CENT FOR 6 HOURS

We want one person in each locality to whom we can refer new customers. Take advantage of our Special Offer to secure a Beacon Burner FREE. Write today. AGENTS WANTED.

HOME SUPPLY CO., 81 Home Bldg., Kansas City, Mo.

**Greenwood County Nursery**

SPECIAL PRICES ON CATALPA SPECIOSA

General line of nursery stock including apple, peach, pear, cherry, plum, apricot, quince, grape vines, berry plants, roses, shrubs, rhubarb, asparagus, etc., also black locust. Certificate of inspection with each shipment.

Our 1913 Catalog Gives Valuable Instructions how to plant and care for vines, shrubs, fruit and ornamental trees. Write or drop a postal today for this valuable catalog.

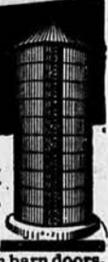
J. W. Hinshaw, Prop., Box A., Eureka, Kan.

# 15<sup>95</sup> AND UPWARD AMERICAN SEPARATOR



THIS OFFER IS NO CATCH. It is a solid proposition to send on trial, fully guaranteed, a new, well made, easy running separator for \$15.95. Skims hot or cold milk; making heavy or light cream. Designed especially for small dairies, hotels and private families. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Gears thoroughly protected. Western orders from factory direct. Whether your dairy is large or small, write us and obtain our handsome free catalog. Address: Box 1091, AMERICAN SEPARATOR CO., BAINBRIDGE, N.Y.

## Write Before You Buy Get the Hinge Door Silo Book Free



Read about this most famous construction, learn how it makes big extra silo profits. Keeps silo door closed all the time—prevent silage freezing in winter and drying out in summer. Opens and closes easier than barn doors. Easy climbing ladder, 7 inch foothold. Get our book telling all about the Hinge Door

### And LANSING SILOS

Two big silo offers in one book. Get your name in to us quick. Ask for Book #1  
**Woods Bros. Silo & Mfg. Co.**  
General Offices - Lincoln, Neb.  
Lansing, Mich., Maryville, Mo., Minneapolis, Minn., Cedar Rapids, Iowa, St. Louis, Ill., Topeka, Kan., Lexington, Ky., Denver, Col., Spokane, Wash. Write Nearest Office

## 264 Page Book On Silos and Silage 10c

1913 copyrighted edition just off the press. Most complete work on this subject published. Used as text book by many Agricultural Colleges. Gives the facts about Modern Silage Methods—tells just what you want to know, 264 pages—indexed—over 45 illustrations, a vast amount of useful information boiled down for the practical farmer. Tells "How to Make Silage"—"How to Feed Silage"—"How to Build Silos"—"Silage System and Soil Fertility"—"Silage Crops in Semi-Arid Regions." All about "Summer Silos" and the Use of Silage in Beef Production. Ninth Edition now ready. Send for your copy at once. Enclose 10c in coin or postage stamps and mention this paper.  
**Silver Manufacturing Co., Salem, Ohio**

## 20 Reasons Why You Should Investigate the SANDOW Kerosene Stationary ENGINE



It runs on kerosene (coal oil), gasoline, alcohol or distillate without change of equipment—starts without cranking—runs in either direction—throttle governed—hopper cooled—speed controlled while running—no cams—no valves—no gears—no sprockets—only three moving parts—portable—light weight—great power—starts easily at 40 degrees below zero—complete, ready to run—children operate them—5-year iron-clad guarantee—15-day money-back trial. Sizes 2 to 20 H. P. Send a postal today for free catalog, which shows how Sandow will be useful to you. Our special advertising proposition gives you one-half cost of first engine sold in your county. (107)  
**Detroit Motor Car Supply Co.**  
280 Canton Ave., Detroit, Mich.

## You Want Steady and Economical Production of Dairy Products

Then Learn about **The Guernsey Cow**  
Write  
**The American Guernsey Cattle Club**  
Box K. F., Petersburg, N. H.

## Only \$2 Down One Year to Pay!

**\$24** Buys the New Butter-Jr. No. 3. Light running, easy cleaning, close skimming, durable. Guaranteed a lifetime. Skims 95 qts. per hour. Made also in four larger sizes up to 5 1/2 shown here. Equals its own cost and more by what it saves in cream. Trial brings Free catalog folder and "direct-factory" offer. Buy from the manufacturer and save half.  
**ALBAUGH-DOVER CO.**  
2277 Marshall Blvd. CHICAGO No. 674

## PATENT YOUR IDEAS!

Obtain patents that pay and protect. Inventor's Guide FREE. **F. G. FISCHER**, 321 Junction Bldg., KANSAS CITY, MO.

### New Dairy Association.

Anyone owning a cow is eligible to the membership of the Dairy Producer's Association, organized at Manhattan during farmers' institute week. Some twenty-five or thirty dairymen enrolled as members of the association and elected the following officers: President, J. C. Crist, Ft. Scott; vice-president, P. W. Enns, Newton; secretary and treasurer, J. B. Pitch, Kansas Agricultural College. The next meeting of the association will be held during the holidays at Manhattan, next year.

### Dairy Blood Requires Feed and Care.

"It is useless for any one to breed dairy cows unless they are given good care and good feed," said Charles L. Hill, who discussed the subject of "The Pure Bred Sire," before the Wisconsin dairy association. Continuing, he said: "It is easy to demonstrate that any good bull is worth from two to three thousand dollars to a community. I have known of bulls which have increased the production of fat of every cow in a herd 100 lbs. per year." A bull that will increase the production of fat that much per cow per year is worth more than three thousand dollars. Mr. Hill read the records of some grade Guernsey cows. One grade cow consumed about \$100 worth of feed and her butter was worth at creamery prices, about \$230, making a net profit of approximately \$130, that is, above the cost of feed.

### Silaging Corn Fodder.

Our subscriber, D. O. J., Newton, Kan., is feeding silage for the first time. He is pleased with the results. He wishes now that he had two silos instead of one. He would like to have silage for next summer's feeding. He has fed, as he figures, about one-third of his silage, and would like to hold over some of this for feeding next summer. He has shock corn. He desires to know if along about the first or middle of February he could run this corn through the cutter and refill the silo, feeding out this corn fodder before grass, leaving him silage for short pastures next summer.

The subscriber can do the thing he desires. When cutting the fodder he should elevate all the water the blower will carry into the silo. The fodder should be thoroughly wet. It should be tramped. The feed so handled will not be silage, but it will be manifestly better than the corn fodder. It will heat and soften and will be more palatable and eaten much cleaner than the fodder. He will experience a falling off in the milk flow when he changes from silage to the fodder, and for this reason we would delay silaging the corn fodder as long as possible. Some extra alfalfa hay and some good grain, however, would in a measure offset the difference between the silaged fodder and the silage.

### Beet Tops and Shock Corn Silage.

Sugar beet tops and shock corn were successfully cut up together into silage at the university farm last fall. The silage had a slightly stronger odor than the ordinary corn silage, but was not offensive. Cows relished it and did as well on it as they did on regular corn silage. Chemical analysis showed that this silage had practically the same feeding value as clear silage.

Professor Henry states that the leaves of sugar beets have about half the feeding value of the roots. Taking into consideration the fact that the annual yield of sugar beets in Wisconsin exceeds 260,000 tons, one is impressed with the importance of utilizing the beet tops for feed to get the most out of them. Making them into silage with corn fodder proved so satisfactory that it will be repeated this fall, and it seems worth while to publish the fact as a suggestion to the many farmers of the state who grow large crops of sugar beets and who are undoubtedly facing the problem of how best to utilize the tops for feeding purposes.

After the beets were removed from the field, the tops which had been left in small piles were hauled and run through a silage cutter into the silo with about an equal quantity of corn fodder taken from the shock. By throwing beet tops onto a large layer of corn and running both through the cutter together no difficulty was experienced in getting the beet tops out.

Enough water was added to the cut material to give it proper moisture and make it pack well when two men tramped it during the time of filling. It is hoped that this use of beet tops will be as successful throughout the state as it was at the university farm last fall.—**G. C. HUMPHREY**, Wisconsin Agricultural College.

# DE LAVAL CREAM SEPARATORS

## Those who know buy the DE LAVAL

**Creamerymen**—Because they are experts in the handling of cream and know by long experience that the De Laval skims cleanest and wears longest. That is why 98% of the world's creameries use the De Laval exclusively.

**Experienced Dairymen**—The De Laval is the universal favorite among big dairymen. They know that no other separator will give them such satisfactory service.

**Old De Laval Users**—Whenever a man who has used an old model De Laval decides to purchase a later style machine he invariably buys another De Laval.

**Men Who Investigate**—If anyone takes the time to investigate the merits of the various cream separators, either by finding out from other users what kind of service their machines have given or by testing other machines out against

the De Laval, the chances are a hundred to one that his choice will be the De Laval. More De Laval machines are in use than any other make. There is a reason. The De Laval agent in your locality will be glad to tell you why.

The new 72-page De Laval Dairy Hand Book, in which important dairy questions are ably discussed by the best authorities, is a book that every cow owner should have. Mailed free upon request if you mention this paper. New 1913 De Laval catalog also mailed upon request. Write to nearest office.

**THE DE LAVAL SEPARATOR COMPANY**  
NEW YORK CHICAGO SAN FRANCISCO SEATTLE

## INSURE YOUR COWS Against Disease



Don't sell your unprofitable cow to the butcher until you have given her a chance. Very likely she is sick—and sick cows need medicine just as human beings do. You may not be able to name her disease, but something is sapping her life and vigor. Nature needs assistance, and with Nature's food and proper treatment you can have a profitable cow.

**Kow-Kure** is the one remedy that is essentially a medicine—a preventive and cure for the ills of cows only. It has wonderful medicinal properties that act on the digestion, purify the blood and tone up the generative organs. Thousands of delighted customers testify that Kow-Kure is a positive cure for **Scouring, Bunches or Red Water**; especially valuable in cases of **Abortion, Barrenness, Retained Afterbirth, Milk Fever or Lost Appetite**. Here is a sample of the letters that come in every mail!

Dairy Association Co., Lyndonville, Vt.  
Dear Sirs: I have found that it always paid to feed Kow-Kure whenever my cows went down on the quantity of milk. I have cured several severe cases of milk fever, one that a veterinary gave up and said would not live until morning. I gave her a dose of Kow-Kure once in two hours all night, and in three days she was giving a pailful of milk. I have cured several cows that were down and could not get up. I recommend it as the best cow medicine on earth. **WM. E. STARKEY.**

Kow-Kure is not a stock food; it is a medicine. It does not stimulate temporarily—it repairs. Be sure you have a supply constantly on hand. Use it according to directions to cure and to prevent sickness. Sold by most feed dealers and druggists in 50c and \$1.00 packages. Ask your dealer for a copy of "The Cow Book"—free—or send to us.

**DAIRY ASSOCIATION COMPANY,**  
Lyndonville, Vermont

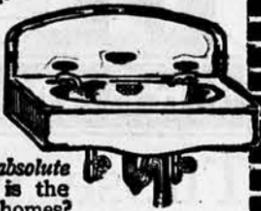
## Stock or Dairy Farm For Rent

I wish to rent my 470-acre farm adjoining Wellsville, Franklin County, Kansas. Two sets of A-1 buildings, five wells, one-half hog-tight, Kentucky bluegrass. This farm has been an old feeding farm for 40 years. Our school advantages are the very best. This farm is well adapted to stock raising or dairying.  
**J. G. McLAIN**  
If interested, let us see you.

## It Cleans Without Scouring—

With its patent sifter top—its magic cleansing qualities—its purity and full strength—a can of Lewis' Lye is a necessity in every home.

Powdered, perfumed, easy, agreeable and convenient to use—doing its work better, with less labor and more economically than any so-called cleanser on the market—it is any wonder to you who know and appreciate the importance of absolute cleanliness, that Lewis' Lye is the standard cleanser in a million homes?



# Lewis' Lye

The Standard for Half a Century

—is lye, pure lye; nothing more or nothing less.

Made by manufacturing chemists who vouch for its 88% and full strength, Lewis' Lye is by far the safest and most economical household article obtainable; and every woman who has used it for any of the purposes named below, will endorse this statement as being absolutely true.

Get The Genuine—Made by Manufacturing Chemists—Guaranteed Absolutely Pure

If you value your skin—but don't think of starting to clean house or make hard or soft soap with anything but the genuine—which your grocer will vouch for in quality as best for—

- Cleansing
- Disinfecting
- Destroying Vermin
- Softening Water
- Making Soap
- Spraying Trees
- Conditioning Hogs
- And all general purposes

Our free booklet suggests half a hundred other uses for Lewis' Lye in the home or on the farm, that you'll be glad to know about. Send for a copy today. Simply address:

PENNSYLVANIA SALT MANUFACTURING CO.  
Manufacturing Chemists  
PHILADELPHIA

## Kansas Stock Breeders' Meet

The Kansas Improved Stock Breeders' Association met in its 23rd annual session during the earlier days of last week in Topeka. During all of the years of its history this association has been one of the principal features of Farmers' Week in Topeka. The meeting of the State Board of Agriculture is fixed by law and 23 years of custom have fixed the meeting of the Breeders' Association for the same week. Around these two have clustered various other organizations which together make up the attractions which bring the farmers once a year to their capital city.

While the crop statistics of Kansas are simply staggering in their immensity this is because of the large area under cultivation and not because of the large yield per acre. The facts are that during the last 30 years the average yield per acre of all important farm crops in Kansas have been decreasing at an alarming rate. The renting of farms, the growing of single crops and the lack of live stock are some reasons for this decrease, and as there can be no permanent system of agriculture without live stock, and as it is no longer profitable to raise inferior live stock in Kansas because of the increased valuation of the land, the work of the Kansas Improved Live Stock Breeders' Association may well be considered as among the most important that has ever been undertaken in this state.

Following the balmy weather of the whole fall season there came a sudden and violent change in temperature, followed by a fall of snow with the consequent delay of trains so that the opening session of the Association had a light attendance compared with that usually enjoyed and with that which followed in the later days of the season. All who came, however, were men of note and leaders of thought and action in their several communities and the discussions which followed were of a very high class.

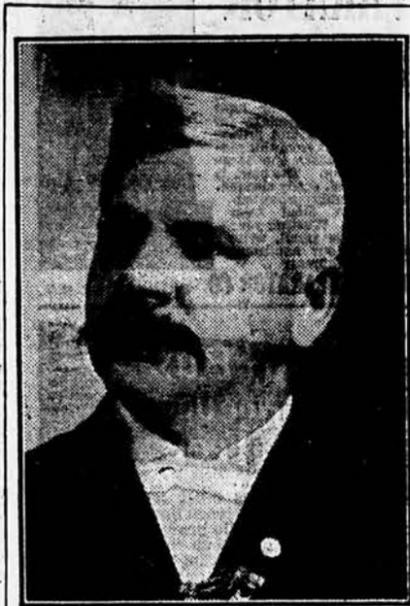
The program was considered to be one of the very best that has ever been prepared for this Association and one of the best that has ever been rendered in Kansas. It included topics from all phases of live stock husbandry. It was not a discussion of pure bred animals, though their value is always recognized as vitally important for the maintenance of the quality in our domestic animals which is so essential to financial success. This organization is not maintained in the interest of pure bred stock; it is for the benefit of the farmers and their encouragement in the use of good stock. For this reason all classes of stock, from poultry to Percherons, are represented in its programs and discussions and it is perhaps true that this Association has had a wider influence in bringing the live stock of Kansas from the "long horn" to "baby beef" than any other.

The Kansas Improved Stock Breeders' Association originated in the desire to concentrate the efforts of men who, while they handled different classes and breeds of stock, had the same general object in view. Formerly there were a large number of breed and other associations in this state, each working for the improvement of their own particular breed or class of live stock and each failing to accomplish serious results. By merging all of these different associations together in the Kansas Improved Stock Breeders' Association a concentration of effort was possible which could not have existed under other conditions. A number of auxiliary associations, like the Kansas branch of the Red Polled cattle club, have maintained a separate existence for business purposes but have merged their programs with that of the larger associations. This has been distinctly beneficial to all concerned and it has been found that a united effort has resulted in good where a divided effort would have resulted otherwise.

If there was anything brought out at the recent meeting that seemed to be of more importance than other things, it was the absolute necessity for the conservation of the great riches in soil fertility with which nature had endowed Kansas and a recognition of the fact that this cannot be done in any way so cheaply, so economically or so much in accord with the laws of nature as through the keeping of live stock on the farm. This question of soil fertility and its conservation has become one of nation-wide importance in this country. Formerly it was thought that our resources in soil fertility were inexhaustible and we have farmed in this belief, mining our land instead of cultivating it and one member expressed the belief that there should be a proper punish-

ment meted out to the soil robber just as there now is to the train robber or the bank robber.

The silo has become an important factor in the economy of Kansas farm life and special attention was given to



H. W. M'AFEE, TOPEKA, PRESIDENT-ELECT OF THE KANSAS IMPROVED STOCK BREEDERS' ASSOCIATION.

it in two papers. In one of which discussed the silo on the beef producing farm and in the other one, Prof. W. A. Coshel explained the value of silage as a ration for farm animals. Regret was expressed that the weather conditions were such that thousands of farmers who are in actual need of the information that was developed at this meeting could not have been present to participate in its good things. The discussion on the silo, coupled with "The Cattle Situation," by W. J. Burtis, made a combination which is of the utmost importance to every farmer in the state of Kansas.

Practically all of the members and visitors at this great meeting were really surprised at the enormous amount of care which should be expended in the proper care of the milk supply of a large city and which is expended in the more progressive of our larger cities. Doctor Geo. C. Mosher, chairman of the Medical Milk Commission of Kansas City, Missouri, told of the methods which are used in that city to protect the consumers and especially the infants from the impure or contaminated milk, and his paper was a revelation even to those who thought themselves more or less familiar with the subject.

Success in raising hogs is vitally important to the farmers of Kansas, and if there is such a thing as being able to raise them free from the ravages of cholera, the farmers of the state should know of this method. One of Kansas' most successful farmers and breeders told of his methods of raising hogs, and the lesson was a good one. Pearl Padgett of Mitchell County has attained an enviable degree of success both in the production of Duroc-Jerseys for breeding purposes and in the growing of hogs for the market. He has been successful in coping with hog diseases as a rule and his paper was most highly appreciated. Following him on the program was Homer L. Faulkner of Jamesport, Missouri, who is not only a breeder, but an exhibitor at the big fairs, and who has learned how to raise hogs year after year without having the cholera. During the ravages of this disease in 1911 and the milder epidemics of 1912, when his neighbors on adjoining farms were hauling out hogs daily to the burning pit or shipping them out in fear of the cholera, he continued to grow his hogs and to sell them under guarantee with not a touch of the cholera on his farm. How he did it was explained in his paper which will appear in these columns.

The horse disease was given a large space in the program, as was right and proper. Doctor A. F. Kinsley, at the head of the Kansas City Veterinary College, gave a strong and sane discussion of the epidemic and he was followed by Doctor F. P. Haslam of the Kansas Agricultural College. It is safe to say that practically everything that is now known to modern veterinary science was developed in the presentation and discussion of these two papers. The announcements

## MISSOURI and ARKANSAS OZARKS



### Free, for you!

Over 50 double pages and 75 pictures showing farm scenes—brimful of facts about the opportunities in the Ozarks; where farmers make 5c a lb. profit from pork, \$50 a head from baby beef (in 1 year's feeding), \$10 a month per cow, 50 bu. corn per acre on land costing \$12 to \$40—where there's 9 months' pasture, short, mild winters, close big markets—where profits are big because expenses are little. Written by a man who knows farming. I have only a limited number of these books; to be sure of your free copy, send for it now.

(Fill out and mail this coupon to-day.)

Mr. A. Hilton, General Passenger Agent,  
Frisco Lines, 1503 Frisco Bldg., St. Louis, Mo.  
Please send me your free book about the Ozarks.

Name \_\_\_\_\_



Address \_\_\_\_\_

Price \$1.25



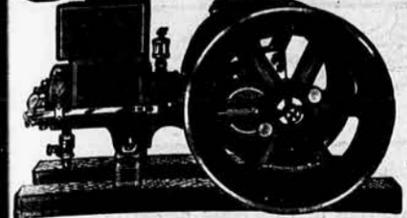
### Send for FREE Memorandum Account Book

Keep a record of your business transactions—don't depend on your memory. This useful little book, besides having pages for keeping accounts, contains a lot of information every farmer should have at his finger tips. When we send you this book we'll include particulars regarding the

### Lankford Humane Horse Collar

Horses with sore shoulders can't use their full pulling power. The Lankford Horse Collar, if properly fitted, is guaranteed to cure sore shoulders and galls. It is filled with medicated soft cotton which absorbs the impurities of the sores and keeps the shoulders cool and comfortable even while the horse is at work. Built for hard service and gives it. Easily adjusted to fit any shape neck.  
Buy a Lankford Cotton Filled Horse Collar and save your horse and veterinary bills. The prices range from \$1.25 up. Send today for Free Book. If your dealer hasn't the Lankford Collar, write us.  
THE POWERS MFG. CO., Dept. H-0 Waterloo, Iowa

# 6 H-P



Here's the most reliable 6 H.P. engine in America. Absolutely know that it will wear longer and do more work than any other engine of the same size you ever used. That's why we can say to you TAKE IT—USE IT. Send us just one-half of the purchase price or

## only \$59.75

and the balance to suit yourself, small monthly payments or a six month's note, just as you like.

### No Limit Guarantee!

Every OTTAWA ENGINE is guaranteed to be perfect in construction and the greatest value that you can secure anywhere for the money. If it should ever prove defective in any way, we will make it good.

### Big 48 Page Catalog FREE!

If you are thinking of buying an engine, any size from 1/2 to 15 H. P., don't invest a single dollar until you get our prices—the lowest you ever heard of—and our big 48 page color Special Engine Catalog. It will save you from \$20 to \$100 sure. FREE—Send for it today. Address,

**OTTAWA MANUFACTURING CO.**  
603 King Street, Ottawa, Kansas.

## MAN WANTED WITH RIG

Each County. A permanent, profitable business selling the famous Seelye Products, including Wassa-Yusa, Fro-Zone, Ner-Vena, Heale-arms Soap, Universal Condition Powders, Milla-Germ, (Disinfectant) and 73 other Seelye household specialties. Our Salesmen average \$100 to \$300 a MONTH. Reinford saved over \$10,000 while selling Seelye preparations. Dayton sold \$1,500 worth first ten weeks. NO RISK. Goods furnished on credit to ambitious man of character who can furnish responsible guarantors. Sales experience unnecessary. Write today. **B. SEELYE MEDICAL CO.**, 404 Seelye Bldg., BILENE, KANSAS.

## TRAPPERS

We Pay Highest Cash Prices. We are the oldest established Fur House in Kansas and have been paying highest cash prices and always giving our customers a square deal on every shipment since 1870. Ship us all your

## FURS

We need all you can send, right now. We pay the prices we quote; give liberal assortment, do not undergrade, and remit cash in full same day shipment is received. We charge no commission, and today for our free price bulletin quoting highest cash prices which we actually pay, free full and full particulars. **Lyon & Co., 238 Delaware St., KANSAS CITY, MO.**

**Comfortable Fur Coats - For Less Than Cloth!**

We will make your beef or horse hides up into robes or coats for you at a price lower than you would pay for an ordinary cloth overcoat. They will be **Softer, Lighter, Stronger** than any other fur coats or robes you can secure elsewhere. We are specialists in the art of high-class tanning. Let us send you today our catalog and price list. **DUBUQUE TANNING & ROBE CO., 45 S. Main St., DUBUQUE, IOWA.**

**HIDES AND FURS**

Ship us your hides and furs. Watch the daily papers for our quotations. Prompt replies. Write for free shipping tags. **JAS. SMITH HIDE CO., Topeka, Kan.**

## THE STRAY LIST

**W. A. BLAIR, COUNTY CLERK, Labette County.** Taken Up—By Clark Billie, 20th day of November, 1912, one spotted steer, red, left ear split, right ear pointed, white on forehead.

**JOHN E. BARRETT, COUNTY CLERK, Gosport County.** Taken Up—By C. E. East, Yates Center, Kan., on the 3d day of December, 1912, one cow, red, weight 850 lbs., T on right hip. Appraised value, \$6.00.

**ALFALFA SEED, \$6.** Timothy and clover seed, \$4.50. Will ship C. O. D. Farms for sale and rent on crop payment. **J. MULHALL, Sioux City, Iowa.**

in the fall that a bacteria had been discovered by Doctor Haslam which seemed to cure horses affected with this epidemic and that success had followed the treatment of some 2,000 head with this bacteria was explained by the Doctor, but without the claim of certainty. Good results seemed to follow but an early frost had changed condition to such an extent that a full demonstration had not been rendered possible.

As the horse is the most important animal on every farm; as his value is increasing from year to year, and as it was once thought that motor driven vehicles would put him out of business, the question of draft horses in this country; their present status and their future prospects is an important one. High quality draft horses will sell for more per pound than any other animal produced on the farm, and the heterogeneous mixing of all breeds and no breed has resulted in the production all over this country of an unclassified class of horses for which there is no considerable demand and on which no good prices can be realized. The market conditions now show a very strong demand for good horses of draft type and a returning demand for saddlers. The undefined class known as "farm chunks" and all those horses which were once classed "general utility" and coaches have been practically eliminated from the horse markets of today.

One of the strongest papers presented and one of the most highly practical value was that on the "Cattle Situation," by Representative Walter Burtis of Wilson County. With an enormously rapid increase in population, most of whom are non-producers, and with no possible increase in farm area, the question of the food supply for the 200,000,000 people which will occupy the United States within the next fifty years is an important one, though this dwindles in comparison with the present food supply for the people we now have. With a nation-wide shortage of meat producing animals and with the knowledge that time would be required to restore the cattle population to its normal condition even if there was no yearly increase in population, the problem of the farmer is a big one. But, with an increase of a million and a half of population each year, practically all of whom are meat consumers, the problem becomes much more complex. The solution lies in the raising and feeding of beef cattle on the farm instead of on the ranch or range.

Practical experience from men who know is worth a great deal more than theory can be, and when a man who has been successful in the breeding and exhibiting of pure bred cattle for many years announces that the cheapest and most efficient way to accomplish these results is by means of the use of silage, such statements must have their weight. C. S. Nevius of Miami County is known wherever good Shorthorns are valued, and he now maintains three large silos on his farm as the proper means of preparing the breakfast foods on which his winning herds subsist. His paper will appear in these columns later.

When Frank B. Graham of Kansas City gets up to talk about horse breeding there is instant and undivided attention. There may be men in the country who have a greater knowledge of this subject than he, but they are certainly not known in the corn belt. Intimate details are given to his audience in such a way that real information is carried home by men who formerly thought that they understood their business, and his discussion of the material subject connected with horse breeding is always clinched with an admonition which has a distinctly moral purpose.

Following a custom of many years standing the members of the Kansas Improved Stock Breeders' Association and of the Kansas State Board of Agriculture were entertained at a luncheon on Wednesday evening by the KANSAS FARMER Company. This social event is so planned as to accommodate both Associations. The breeders who have just closed their meeting and the members of the Board of Agriculture who are just beginning theirs. This is an occasion which is looked forward to by all those who have once participated in it. The members of the Board of Agriculture are interested in breeding of farm animals just as the members of the Breeders' Association are interested in farming operations, and the bringing together of these two bodies for a social hour is considered the real treat of Farmers' Week in Topeka.

No meeting of the Board of Agriculture or of the Breeders' Association would be deemed complete without the presence of "Uncle Tom" Hubbard of Wellington, and no social function is thought so complete as when this old war-horse in Kansas agriculture presides as its toastmaster. Under his

cheerful guidance and enlivened by his wonderful wit the events of the evening were given added value and luster. One of the pioneers who has built Kansas and who believes in Kansas and who is ready to fight for Kansas as he has already done, Peter Piper was the first to respond at the call of the toastmaster. Mr. Piper considers this life as an earnest thing, deserving all his attention, and that soil improvement and conservation is an important factor in the solution of its problems. J. G. Arbuthnot, the hog king of Republic County, who sells about \$15,000.00 worth of market hogs each year, is a firm believer that the hog helps. J. A. Gifford of Mitchell County, with broad experience both as a farmer and breeder in Kansas, considers that one of the important matters which is deserving of attention from all classes of people, in the whole country as well as in Kansas, is good roads. He is not only a champion of good live stock and good farming methods, but he believes there ought to be proper ways of communication established by which he can not only send his products to market but by which he can also travel in comfort himself.

Prof. W. T. Snyder, Superintendent of the Experiment Station at North Platte, Nebraska, who had read a very valuable paper on economic rations in pork production before the Board of Agriculture, was called upon by the toastmaster and responded very happily by giving some further information in connection with his work and the field of endeavor in which it is included. Mr. Young of McPherson County gave a happy little talk "From the Middle of Things," and he was followed by Representative-elect Geo. B. Ross, the retiring president of the Breeders' Association. Mr. Ross had found himself in the rather unusual position of having been made president of the Kansas Horse Breeders' Association while he was president of the Kansas Improved Stock Breeders' Association and also of the Kansas Swine Breeders' Association. He is thought to be good presidential timber. Mr. T. A. Borman, editor-in-chief of KANSAS FARMER, made a happy response in which he mentioned that this paper had attained its 50th birthday anniversary and was a recognized factor in the earlier development as well as the continued progress of the agriculture and live stock interests of the state whose name it bears.

The officers of the Kansas Improved Stock Breeders' Association elected for the ensuing year are as follows: President H. W. McAfee, Topeka; vice-president, T. H. Terry, Bavaria; secretary-treasurer, I. D. Graham, Topeka; directors, Dr. O. O. Wolf, Ottawa; Geo. B. Ross, Sterling; C. S. Nevius, Chiles; Pearl Pagett, Beloit; E. W. Rankin, Topeka.

**RESOLUTIONS.**

Resolutions were adopted by the Kansas Improved Stock Breeders' Association endorsing President H. J. Waters of the Kansas State Agricultural College as the man having special fitness in training and education which is needed at the head of the United States Department of Agriculture, and urging upon President-elect Woodrow Wilson his appointment to the cabinet as Secretary of Agriculture.

A recommendation to amend the present stallion law so as to provide licenses for pure bred animals, cross breeds, grades and scrubs; for the renewal of licenses each year; to empower the state live stock registry board to recognize stud books and record associations that are doing an honorable and reputable business and to discriminate against those who are dishonest; to give the board power to revoke licenses for just cause and to ask for a specific and definite wording of all the sections of the stallion law so that they can be readily comprehended. A resolution thanking the daily papers of Topeka for the services rendered in reporting the different sessions; another one asking for a special appropriation in behalf of Kansas live stock for the Panama-Pacific Exposition similar to what was done at the Louisiana Purchase Exposition. A third resolution endorsing J. M. Rodgers of Beloit, for the position of Live Stock Sanitary Commissioner and a strong resolution against the uniting of the state educational institutions under the control of a single governing board.

**Wouldn't Be Without for \$2 Per Year.**

I am sending you a check for renewal of KANSAS FARMER. I wouldn't like to do without the paper for \$2 per year. It is getting better all the time. I am sending you a neighbor's name. I want him to have KANSAS FARMER. He has three eighties of land north of Red Wing. He is only making a living. I thought your paper would help him.—**CHESTER B. WILSON, Red Wing, Kan.**

## FARM CUSHMAN

The High Power Engine for All Farm Work.

Take it wherever you have use for it—it weighs less than 200 pounds.

Catalog Free.

Original Binder Engine

4 Full Horse Power

Falls more than rated power. 4-cycle automatic throttle governor. Fuel consumed is proportioned to work—no waste. Easy to move and handle, easy speed change, fits in any place, simple, dependable. Up-to-date farmers are buying the Farm Cushman because it's an all-purpose engine suited to every power job, from turning the grindstone in operating the binder. Write for catalog showing what other farmers are doing. We build 4-8 and 10 h.p. specialty engines for heavier work. Get descriptive catalog. Don't buy until you see it.

**CUSHMAN MOTOR WORKS**  
2048 N St., Lincoln, Neb.

## SAVE-THE-HORSE

(Trade Mark Registered.)

Every bottle of Save-the-Horse is sold with an iron contract that has \$60,000 paid-up capital back of it, guaranteeing to permanently cure or refund the money, no matter whether it is Hæmorrhoid, Spavin, Tendon disease or Fallow—no age, sex, or breed or complicated lameness or blindness may be.

**OUR LATEST Save-The-Horse BOOK—Is our 77 Years' Experience and DISCOYERIES—Treating over 10,000 horses for Ringbone—Thorough—Spavin—and ALL Lameness. It is a Mind Boggler—Tells How to Test for Spavin—What to Do for a Lame Horse, Covers 50 Forms of Lameness—Illustrated. MAILED FREE.**

But write, describing your case, and we will send our BOOK—sample contract, letters from Breeders and business men the world over on every kind of case, and advice—all free to horse owners and managers.

Write! **AND STOP THE LOSS!**

**TROY CHEMICAL CO** 65 Commerce Ave., Englewood, N. Y.

Druggists everywhere sell Save-the-Horse WITH CONTRACT or sent by Express Prepaid.

## ALBERTA

The Price of Beef is High and so is the Price of Cattle.

For years the Province of ALBERTA, (Western Canada), was the Big Ranching Country. Many of these ranches today are immense grain fields, and the cattle have given place to the cultivation of wheat, oats, barley and flax, the change has made many thousands of Americans settled in these places, wealthy, but has increased the price of live stock.

There is splendid opportunity now to get a **FREE HOMESTEAD OF 160 ACRES** (and another as a pre-emption) in the newer districts and produce either cattle or grain. The crops are always good, the climate is excellent, schools and churches are convenient and markets splendid in Manitoba, Saskatchewan or Alberta.

Send at once for literature, the latest information, railway rates, etc., to

**Canadian Government Agent**  
125 W. 9th St.  
Kansas City, Mo.

or write Superintendent of Immigration, Ottawa, Canada.

## Veterinary Course at Home

**\$1500 A YEAR** and upwards can be made by taking our Veterinary course at home during spare time. Taught in simplest English, Diploma granted. Graduates assisted in getting locations or positions. Cost within reach of all. Satisfaction guaranteed.

**Dr. E. H. Baldwin writes:** "I took the course for my own benefit on the farm, but the success I had started me in practice and now I am going night and day. Your course has been worth thousands to me, and will be to any man."

**WRITE FOR PARTICULARS**  
The London Veterinary Correspondence School  
London, Ontario, Canada

When writing advertisers, please mention Kansas Farmer.

**\$5 to \$8 Every Day** It's Easy Money and Easy Work

That's what hundreds of farmers' sons now earn by selling

### THE ECLIPSE PUMP EQUALIZER

Many make good money during spare time only, showing it to neighbors. It makes the hardest working pump run easy—saves jerking and does the lifting. Write us today.

**Equalizer Foundry Co., 2434 Burling St., Chicago**

**OUR TRAPPERS GUIDE FREE**

**OUR CUSTOM TANNERY**

Try it this year. Work guaranteed. We tan hides and furs and make robes, coats and gloves. Write for illustrated catalogue. Cash for furs and hides. Send for free Price List.

**Oshman Elfron & Co., Box 789 Cedar Rapids, Ia.**

KANSAS STATE UNIVERSITY LIBRARIES

## Save the Price of a Horse



(Return Apron)

### By Buying the Moline Low Down Spreader

How do You figure the Cost of your farm machinery—the price of the machine alone, or what it takes to run it?

This splendid Low Down Spreader is not only easy to load, being but 42 inches in height at the rear wheels, but it is also

**“The Lightest Draft Low Down Spreader Ever Built.”**

We have seen the large size Moline Spreader in use in a field with other makes, under exactly the same conditions, when it required one horse less to operate the Moline Spreader than was necessary to operate the others.

In figuring the cost, then, there is a saving in buying the **Moline Spreader** equal to the price of one horse.

**Correct Mechanical Construction—Steel Frame—Steel Wheels—Steel Beater—Chain Drive—Roller Bearings.**

The Moline is easy on the Man and Easy on the Team.

Our Handsome Spreader Booklet Free.

Also 1913 Flying Dutchman Almanac.

Write today.

**MOLINE PLOW CO.**

Dept. 4

**MOLINE, ILLINOIS**



## Rayo LANTERNS



### Safe for the Stable

**YOU** can use a *Rayo Lantern* in the stable or anywhere with absolute confidence. It won't smoke, or smell, or leak, or blow out.

It gives a clear, bright light. It is strong and durable. It will stand hard usage. Easy to light. Easy to clean and rewick.

At Dealers Everywhere

**STANDARD OIL COMPANY.**

(An Indiana Corporation.)

## GALLOWAY

### SAVED HIM \$45.00

Read this letter sent to me from P. H. Seife, of Garwin, Iowa: "We wore out a high-priced separator which is the only kind we ever had and I would not give this Galloway for a half dozen high-priced separators, and they sold me their No. 1 for \$65.00 and asked me over \$100.00 for the size of your No. 14, so I saved \$45.00 by buying your No. 14 and think we have a better one." I have hundreds of other letters to prove that the Galloway

**Bath-In-Oil Cream Separator**

is the equal of any on the market at any price, and I save you \$20 to \$45 cash. I give you 30 to 60 days' free trial to prove quality. "I have never found one as well constructed, as close a skimmer" is the comment of Cornelius M. Hunter, of El Reno, Okla. Theodore Casper of Dodgeville, Wis., says he "wouldn't trade it (the Galloway) for any of those high-priced separators." So, any way you look at it the Galloway takes the banner for **Quality and Price.** Send a postal today for my separator book—my special offer to 10 or more men in every township, and I will also send my big 6-color catalog of my general line, new handsome, complete, truthful, convincing—all free and postpaid. Write me today. Address

Wm. Galloway, President, THE WILLIAM GALLOWAY CO., 383CW Galloway Sta., Waterloo, Iowa. Stocks on hand at Kansas City, Council Bluffs, St. Paul and Chicago. Prompt shipments.

When writing our advertisers say you saw the advertisement in **KANSAS FARMER.** That insures to you the full benefit of the publishers' guarantee. See top of editorial page.

# LIVE STOCK



### The Hampshire Hog.

No breed of hogs has grown in popularity so rapidly as the Hampshires. The handsome appearance of these hogs, with their peculiar color markings, their vigor and disease-resisting qualities, their prolificacy and their qualities of producing the largest proportion of high-priced cuts of meat, are among the qualities which have rendered them popular.

These hogs have proved themselves in another way. They have a large record of market-topping sales and this shows that they produce the kind of pork the packers prefer. In the high-priced cuts and in the economical use of the carcass these packers find that they can afford to pay a little more for this breed.

Perhaps it is not generally known that the largest and finest herd of Hampshire hogs in the world is located just on the edge of Kansas. The W. F. Davis herd of South St. Joseph, Mo., now numbers over 600 head of the highest bred and greatest quality of Hampshires known. This herd has been in existence for 15 years, and Mr. Davis has devoted his time and energy to their development to such an extent that he undoubtedly has the largest herd and the best in quality, and it is an object lesson to see this great herd. Here is shown what has been accomplished with an almost unknown breed, placed in new and untried surroundings, by a man who studied his business and grew in development as his hogs became more perfect.

### The Kansas Mule.

Since the Republic County, Kansas, mules won their prizes at the American Royal some time ago, it has come to the knowledge of people generally that there is such a thing as the Kansas mule. Later exhibitions have shown that the Kansas mule is a close competitor in size and quality with the famous Missouri mule, and, since the ravages of the horse disease during which it seemed to be demonstrated that the mules were less susceptible, they have gained in popularity, especially in those regions where the horse supply is short.

In view of the fact that it costs less to mature a mule than it does a horse; that he sells for more money than does the horse and that scars and blemishes do not materially injure his market value and that he does not over eat, will not work himself to death or destroy property by running away, it would seem that he would fill a large place in the farming operations of the corn belt. It is certainly true that there is money to be made in raising good mules and this industry shows signs of increased activity.

Pure bred mares are not necessary to the production of good mules, although it follows that the better the mare, the better will be the mule. It is also true that the reputation which the mule has for being a kicker is not wholly merited. This is like some other things, a matter of growth. The old expression "as silly as a goose," is an illustration. There is no bird that wears feathers that knows as much or is as shrewd as the goose. Whether the mule will kick or not depends upon his nature and this nature is derived from his parents. If the mare is a kicker the mule is likely to be, but mules bred from the quiet tempered mares of the big draft breeds are not likely to be kickers except of course when they are startled. This editor has handled mules since boyhood and does not believe that a mule is any more likely to kick than a horse unless he is bred that way.

The year book of the Department of Agriculture shows that the average price for mules is from \$8.00 to \$10.00 per head more than that of horses, while the experience of the big mule markets is that good mules are very scarce and will command almost any price that may be asked for them. Mule colts may be handled in bunches provided they are alone, but it will not do to pasture them with dairy cows or brood sows, and if a neighborhood is fairly well stocked with good mares a first class jack ought to prove a money maker in almost any locality in Kansas.

### Cattle Will Be Higher.

Complaint is made by men of experience on the markets that the cattle which have recently been shipped for

butcher stuff is very largely either immature or unfinished, and that this over-marketing of this class of cattle has already resulted in a higher price for feeders and will later result in a much higher price for finished stock. Had these unfinished animals, which have come in such numbers as to smash the prices within the last two or three weeks in a more pronounced manner than they have been smashed for years, been held for a few months they would have come onto the market as finished beefs at a much higher price. They would also have saved the loss which has resulted from a glut in the market and from the difference between well matured cattle of quality and the price which was actually received. Cattle are so scarce in this country now that the recent period of over-marketing is bound to have its effect later on. Supplies of beef cattle are sure to be scarce and the prices will again soar upward.

This has been a remarkable season for beef production. The weather conditions have been ideal and the feed supply more than abundant. A better combination could scarcely be devised for the production of beef animals of quality. This means that it has been possible to produce beef cheaper than for years and at the same time the market price has averaged higher than for years so that good money has been made even on improperly finished stuff. These conditions ought to have been the incentive to farmers and feeders to hold their animals in the feed lot until they were in prime condition. A fear of a slump in the market, however, has too often caused the marketing of animals before the time when they were ready.

Of course the prime cause of the marketing of the immature cattle is to be found in the shortage of hogs. Had there been more hogs to follow the cattle, it is doubtless true that more men would have kept their cattle longer in the feed lot. Had this been the case there would not only have been better cattle to place on the market at a higher price, but there would have been no rush to liquidate and no consequent depression of the price. This is really a pretty serious matter because it affects so many people. The cost of feeders has been high and when any cause brings about a serious slump on the market feeders are likely to become alarmed and rush in their stuff which only intensifies the trouble and causes a loss all around.

Periods of short supplies nearly always follow any sudden demoralization in prices, and the prospects are that there will soon be a re-adjustment of prices with even higher ones later on. There are no cattle and scarcity always means higher prices.

### Alfalfa and Pasturing Benefits Land.

In regard to pasturing alfalfa with cattle, have had very little experience except with a few milk cows. It would seem that most cows will never bloat, while a small per cent are subject to bloat more or less.

At present I am pasturing 100 acres quite heavy with hogs and pigs; from 10 to 15 to the acre—with, I think, great benefit to the land, also to the present stand of alfalfa. A large quantity of manure is being distributed evenly over the different fields, especially where hogs that are being prepared for market are being fed large quantities of corn. Lots that have been pastured four or five years show a marked improved condition with a perfect stand of alfalfa. Hogs injure alfalfa only by rooting or pulling up the roots when the ground is soft in the late fall or winter. The roots then seem to contain properties that make them palatable and which are not present in the growing season of the year.

My experience is that suckling pigs begin to nip the green alfalfa when very young. They should, however, have all the corn they will eat until after being weaned, when the ration is not increased much until it is time to prepare them for market.

What would be the result if this pasture were plowed up and put to silage or grain crops? Much remains to be seen. Our theory is that the producing ability of the land would be more than doubled for a number of years.—J. J. CLARK, Medicine Lodge, Kan.

**Kansas Veterinarians Meet.**  
 The Kansas Veterinary Medical Association held its 9th annual meeting in the auditorium at Topeka during "Farmers' Week in Topeka." While it is but natural to suppose that a considerable part of the time occupied by the several sessions of this convention would be devoted to professional matters, there were some papers of very general interest and of immense profit to those who heard them. Of special importance to the farmers and stock breeders of the state was the paper presented by Doctor M. H. Reynolds of the University of Minnesota, who is a member of the State Board of Live Stock Sanitary Control.

Doctor Reynolds showed how his own state had been able to gain the confidence of the people for its live stock Sanitary Board through the good work which they had done by reason of having been taken entirely away from political influence. He stated that since the present law had been in force, under which the live stock sanitation of the state had been entirely controlled by a non-partisan board, the confidence of the people in the board and its work had been raised to such an extent that the legislature had freely given an appropriation of \$175,000 for the last biennium, whereas they had grudgingly given only \$3,000 when the board was created.

Dr. Reynolds recommends that the Live Stock Sanitary Board of the state should be composed of five members, three of whom should be live stock men and the other two veterinarians. These members should be appointed by existing responsible bodies and made their representatives. One member from the Kansas Improved Stock Breeders' Association, one from the Kansas Swine Breeders' Association, one from the State Dairy Association, one from the State Veterinarians' Association and one from the Experiment Station. This board would have absolute control, with police powers, of the live stock sanitary conditions of the state. They would appoint an executive officer who must be a veterinarian and could act as the secretary of the board. This officer should be the man in charge of the active work in the control or prevention of disease and under his direction would be the other veterinarians who would compose the field force of the commission.

When it is considered that Kansas has an investment in live stock of \$255,166,533 even an appropriation so large as that made in Minnesota for sanitary control is but a very small percentage if it brings results. Doctor Reynolds says that they get results in Minnesota and brings figures to prove it, but he says that this never was done and never could have been done without the removal of this important function of the state entirely from political influence.

The annual meeting of the Kansas Sheep and Wool Growers' Association was held at the Agricultural College January 3, 1913. A. J. Knollin of Kansas City addressed the general session on the subject, "The Sheep Industry in Kansas." At the business meeting the matter of a dog law for Kansas was discussed and a committee was appointed to prepare such a law and have it presented at the coming session of the Legislature. If the sheep men of Kansas desire such a law passed they should write to their members of the Legislature urging such action.

The officers were all re-elected for the coming year: E. D. King, Burlington, Kansas, president; L. D. Streeter, Wakefield, Kansas, vice-president; G. C. Wheeler, Manhattan, Kansas, secretary-treasurer.

**Kansas Horse Breeders Elect.**  
 The Kansas Horse Breeders' Association endorsed President H. J. Waters for Secretary of Agriculture. J. M. Rogers of Beloit was endorsed for state live stock sanitary commissioner. These are the new officers in that organization: President, George B. Sterling; treasurer, N. H. Holderman; secretary, Dr. C. W. McCampbell; Kansas Agricultural College; vice-presidents (one from each congressional district): A. L. Smith Lawrence, Second district; J. H. Lee, Harveyville, Fourth district; W. H. Rhodes, Manhattan, Fifth district; M. A. Smith, Cawker City, Sixth district; George B. Allen, Meade, Seventh district; J. C. Robinson, Towanda, Eighth district.

**A Great Sale of Jacks.**  
 Attention is called to the advertisement of the Platte City Jack Sales Company in this issue of Kansas Farmer. This sale will be under the management of Mr. J. B. Dillingham, and the mammoth jacks and Jennets in this offering are the tops of the best herds of Platte County, Missouri, and that county has long been famous for fine jacks and Jennets. The offering will consist of from 65 to 70 head. All are mammoth bred and it will be one of the greatest offerings of jacks and Jennet; this and every animal consigned to the sale will be guaranteed by the owner. The man who won first at the World's Fair, St. Louis, were from Platte County, and were sold by just such jacks as will be sold in this sale. The jack that sired the winning Jack colt at the Royal, Kansas City, for the last four years, will be in this sale. There will also be a number of jacks that are the



**or in the Barn Wasting It**

Whether your horses work or not, their feed costs you big money. When a horse is laid up you not only lose the cost of feed, but also the profit that the horse would have paid if able to work in the field. Since there is no way to prevent spavin, curb, splint, ringbone, sprains and lameness, your thought should be given to the quickest, surest and most economical cure. And for over 35 years, thousands of horsemen have depended on Kendall's Spavin Cure. It's the old, reliable, safe remedy that has saved thousands of dollars' worth of horse flesh, to say nothing of the worry, time and trouble it has saved horse owners. You should get and keep a bottle of—

**Kendall's Spavin Cure**

for emergencies. You never can tell when you'll need it, and when the time does come, you'll be mighty glad you had the foresight to prepare. Here are samples of the thousands of letters we receive from grateful horse owners every year. Mr. J. J. Sandlin, New Hope, Ala., writes:—"I am a great believer in Kendall's Spavin Cure. A few applications have just taken an unnatural growth off my horse's back, thereby increasing his value \$25.00 at least." Mr. J. B. McCullors, Halesville, Ala., writes:—"Last July I bought a mule for \$65.00. He had a bad Spavin and was unable to work but after using three bottles of your Spavin Cure, I cured it and he was sold in March for \$180.00. I advise all horse owners to use Kendall's Spavin Cure." And Mr. Wm. Booth, of Grovett, Ark., writes:—"I have cured both Blood and Bone Spavins, taking the bunch all off and leaving the horse as sound as he ever was. The

horse does not need entire rest while using Kendall's Spavin Cure. Light work and careful handling are better than standing in the barn. If the horse was in the pasture not many people would take proper care of him. I use the Spavin Cure a week at least, sometimes three, according to the severity of the trouble. There is enough in one bottle to cure three large Spavins if used according to directions. It is excellent for bruises, both for man and beast. Your Spavin Cure will cure Thoropin in a hurry. With over twenty years' experience with this remedy I know what I say to be true. If one doubts my word he may bring me a horse with a Blood Spavin on one leg, Bone Spavin on the other and Thoropin on both and I can make him a sound horse in six months. What I have done I can do again and what I have done others can do."

Why experiment with other remedies—when you know what Kendall's has done and can do. You can get Kendall's Spavin Cure at any druggist's, \$1.00 per bottle, 6 for \$5.00. Ask for free book. "Treatise on the Horse," or write direct to

**Dr. B. J. Kendall Company, Enosburg Falls, Vt., U. S. A.**

tops of some of Missouri's best herds outside of Platte County in the sale. There will be one of the finest offerings of mammoth bred Jennets that will be seen in a sale ring this season. They are right for size and quality and are the kind that always make good. Write K. B. Dillingham for catalog. Please mention Kansas Farmer when writing.

- Quivera Durocs Sell Well.**  
 Although held on the coldest day of the season, the Duroc Jersey bred sow sale made by Munsell & Isenberg at Herington, Kan., was well attended by men with fairly good ideas of values. Unbroken roads kept many away, and of course resulted in a much lower average than the offering was entitled to. The sale was held in a tent with baled straw for seats, and everyone was comfortable in spite of zero weather. Col. L. R. Brady conducted the sale in his usual interesting and instructive manner. W. H. Mott of Herington, who is establishing a herd at that place, was a good buyer, topping the sale at \$44 on the outstanding good sow, No. 9, sired by King of Kantbe-beat. The bred sows and gilts, quite a lot of which were of May farrow, averaged \$31.50. The remaining part of the offering, fall boars and gilts, sold for around \$20 per head. Following is a partial list of buyers and their addresses:
- 3—Henry Schump, Herington, Kan. .... \$41.00
  - 5—J. H. Dick, Woodbine, Kan. .... 31.00
  - 6—Frank Johnson, Lyons, Kan. .... 40.00
  - 7—E. Spangler, Dwight, Kan. .... 33.00
  - 8—Joseph Schump, Herington, Kan. .... 35.00
  - 9—W. H. Mott, Herington, Kan. .... 44.00
  - 10—James Haley, Hope, Kan. .... 34.00
  - 11—Joseph Schump, Herington, Kan. .... 35.00
  - 12—Bruce Clark, Alta Vista, Kan. .... 36.00
  - 13—Joseph Schump, Herington, Kan. .... 38.00
  - 14—Henry Schump, Herington, Kan. .... 26.00
  - 15—Frank Schump, Herington, Kan. .... 30.00
  - 16—Henry Schump, Herington, Kan. .... 35.00
  - 22—C. L. Frey, White City, Kan. .... 32.00
  - 21—W. H. Mott, Herington, Kan. .... 28.00
  - 23—Sam Stone, Leonardville, Kan. .... 31.00
  - 24—J. H. Dick, Woodbine, Kan. .... 25.00
  - 34—E. Spangler, Dwight, Kan. .... 31.00
  - 36—William Taylor, Pearl, Kan. .... 27.00

**J. W. Elliott's Shropshires.**  
 Attention is called to the card of J. W. Elliott of Polo, Mo., in this issue of Kansas Farmer. Mr. Elliott owns one of the best Shropshire flocks in Missouri, and at this time is offering 80 head of extra good registered ewes. These ewes were sired by imported Buttar and Dakin rams and are safe with lamb to imported rams. Mr. Elliott is one of the reliable Shropshire breeders in the business, and customers can rely on every statement made by him in reference to breeding stock offered. Write him at Polo, Mo.

- Will F. Hooker's Sale.**  
 The sale of Percheron stallions and mares held by Will F. Hooker at Hamilton, Mo., January 10, was fairly well attended. However, local support was poor and the average fell below what it should have been for the very high class of Percherons sold. A number of weanlings were included in the sale, also some yearlings. The top for stallions was \$605 and for mares \$410. Kansas furnished the best buyer. The following is a list of buyers and prices:
- Roy Dale, Smithville, Mo. .... \$605.00
  - Ben Rodgers, Brokenridge, Mo. .... 330.00
  - George Braymer, Braymer, Mo. .... 440.00
  - J. W. Moss, Ravenwood, Mo. .... 300.00
  - Roy Dale, Smithville, Mo. .... 280.00
  - Byron Irvin, Hamilton, Mo. .... 110.00
  - J. L. Armstrong, Muscotah, Kan. .... 410.00
  - G. S. Lawson, Ravenwood, Mo. .... 235.00
  - J. L. Armstrong, Muscotah, Kan. .... 380.00
  - John Houghton, Hamilton, Mo. .... 200.00
  - Jack Hill, Hamilton, Mo. .... 210.00
  - Rolla Gebhart, Kilder, Mo. .... 205.00
  - J. L. Armstrong, Muscotah, Kan. .... 250.00
  - E. L. Humbert, Corning, Iowa. .... 165.00
  - L. E. Berger, Hamilton, Mo. .... 230.00

**L. C. McClarnon Will Have a Great Offering.**  
 L. C. McClarnon of Bradyville, Iowa, one of Iowa's foremost breeders of big-type Poland and owner of one of the best big-type herds in existence, will have one of the best offerings of the season in his bred sow sale to be held at Bradyville, Iowa, on the night of February 26. Mr. McClarnon sold one of the greatest bred sow offerings in 1912 in a night sale, and breeders will find an offering this year that is better than the lot sold in 1912. There will be about 25 head, mostly gilts, by Big Orange. They have size and quality that make them desirable. There will be a number sired by Colossal, that great boar that is considered by many competent judges as good in every way as Big Orange. There will be gilts by

Jumbo Prospect, another of the great big-type sires, and some by Pawnee Nelson. The entire offering is bred either to Colossal or A Big Orange, a great son of Big Orange and out of the famous sow, Jennie King, by Big King. Watch for further announcement of this sale.

S. B. Amcoats, the successful Shorthorn breeder of Clay Center, Kan., writes Kansas Farmer as follows: "I have just sold, through the advertisement in your paper, a very choice young bull to Mr. Earl Valley of Tampa, Texas. Other recent sales include two cows and a bull to A. Wilson, Colorado; a bull to Larson Bros., Leonardville, and one to J. P. Monroe, Milford, Kan. The demand for Shorthorns is the best it has ever been since I have been in the breeding business. We have some bargains in cows and heifers."

Howell Bros., Herkimer, Kan., write: "We have enjoyed a fine trade in Durocs the past season and have sold all of our spring boars but four, also a number of gilts. We still have some very choice bred gilts for sale. They were sired by Joe's Pride, a son of the World's Fair prize winner, Joe. They are out of dams by Wide Awake Lad, a grandson of Buddy K. 4th. The most of them are bred to a son of White Hall King. We will also spare a few tried sows bred for spring farrow. Our hogs are doing extra well and are faring well on alfalfa hay with some grain."

The well known breeder, C. S. Nevius, of Chile, Kan., is offering a few bred sows and gilts for sale. The Nevius kind of Poland always make good. They prove out. The five-year average on bred sow sales is \$45, and holding three sales each year. The sows bought in these sales have farrowed on an average of nine pigs each. This should be the positive evidence that they make good. Please see change of copy in this issue and note the prices made on bred sows and gilts. If you want sows that will raise pigs and make money, you can buy them at the Nevius farm. They are not fat, but kept in a way that they will raise you a good litter. Kindly mention Kansas Farmer when you write.

Breeders who are in the market for strictly big-type Poland China bred sows should remember and investigate the sale circuit to be held in Geary and Riley Counties beginning February 3 and ending February 6. Mr. O. R. Straus opens the circuit on Monday, February 3, at Milford, located on the Junction City and Belleville branch of the Union Pacific. J. W. Anderson follows the next day at Leonardville, within driving distance. On the 4th, J. L. Griffiths, just a few miles from Anderson, and on the 6th, James Arkell, located one mile from Alida, also on the Union Pacific and on the same branch with Straus. Prospective buyers should get catalogs of these sales and plan to attend. Free entertainment and transportation from one sale to the other. Everything free but the hog.

**Peter Hanglely Will Sell Durocs February 11.**  
 Peter Hanglely, one of Missouri's progressive Duroc Jersey breeders, claims February 11 as the date of his sixth annual bred sow sale. On that date Mr. Hanglely will sell at Winston, Missouri, 30 head of choice bred sows and gilts. His offering will include nine tried sows that are just in their prime, and every one of them has made good in Mr. Hanglely's herd. They were sired by such boars as Col. B. Jr. by Col. B.; Jonas by Mayor Jr., first prize winner at Illinois State Fair, 1905. Fall yearlings, good ones, by Col. B. Jr.; outstanding spring gilts by Col. B. Jr.; some open gilts by Buddy Top by Buddy K.; two good young boars by Buddy Top, one by Col. B. Jr., and his good herd boar Buddy Top. Mr. Hanglely has been breeding Duroc Jerseys for nine years. His foundation stock was the tops of some of the best Duroc herds in the east. He is a progressive breeder that has advanced the quality of his herd from year to year, and this year's offering will be the best he has ever sold. Watch for further announcement of this sale. Catalogs ready January 20.

On Friday, February 7, the Agricultural College, Manhattan, Kan., will sell at public sale in the new sale pavilion, 60 head of registered bred sows and gilts, 36 Berkshires, the remainder Duroc Jerseys. Of the number about one-third will be tried sows and the rest fall yearlings and spring gilts. The gilts are very large and growthy and were selected from about 90 head raised by the college farm the past season. Everything will be bred for March and April far-

row to the college herd boars. Of the number of Berkshires listed, 28 head were sired by the great herd boar, Wakarusa Duke 4th 122377, and the tried sows are bred to him. Those sired by him are bred to Second Masterpiece except a few which are bred to Rob Hood 17th 185497. Second Masterpiece won first in class and championship at Kansas State Fair last fall. He is said to be the only living boar that is a grandson of both Masterpiece 77000 and Black Robin Hood 60888. The Berkshire offering is rich in the blood of about all of the best known families, including Beau Brummel, Hood Farm Duchess, Silver Tips, Revelation, Stalwart Duke and Berrington Duke 2d. It is extremely doubtful if there has for years been as richly bred a lot of Berkshires in any one sale as will be sold here. Friends of this great breed should be glad to avail themselves of this opportunity to see and buy as good as the breed affords. The Durocs are richly bred and carefully selected, and include daughters of the noted show boars, Tattarrax and Wonder Chief, the boar that sold for \$500 to a good Missouri breeder. All of the gilts are granddaughters of one or the other of these great Ohio Chief boars. Twelve gilts and one yearling are bred to the young boar Good As Gold, sired by the noted Good Bank Argal and bred by Robbins of Springfield, Ohio. Eight gilts are bred to College Col. by G. M.'s Col., and others are bred to Beauties Babe, grand champion at Hutchinson, 1911, and first in class at Topeka and reserve champion at Hutchinson the same year. The offering as a whole is rich in Col. and Ohio Chief breeding. Write for catalog to Animal Husbandry Department, Agricultural College, Manhattan, Kan., mentioning Kansas Farmer.

Mr. S. G. Trent, owner of the Brown County Seed House, located at Hiawatha, Kan., has issued his catalog for 1913. It is handsomely illustrated, the first page showing a field of growing corn and a model ear, besides Mr. Trent's own photo. Mr. Trent is fast becoming one of the foremost seed corn growers in the entire corn belt. Few breeders have been so successful in the show room, and few indeed have so large a list of satisfied customers. Mr. Trent does a big per cent of his own work and personally superintends every bit of it. He knows the business from selecting the seed for planting to taking care of it after it is raised, and there is no more honorable and conscientious man in the business. Write at once for catalog and mention Kansas Farmer.

**Monnesmith Sells Durocs January 29.**  
 One of the interesting Duroc events of the season will be the annual Duroc Jersey bred sow sale to be held at Formoso, Kan., Wednesday, January 29. Kansas breeders and farmers that have attended W. E. Monnesmith's past bred sow sales know what to expect at this, his coming sale. In order to have a select and first-class offering for this sale only 35 head are being catalogued. These are all good individuals and bred for the last of March and first part of April farrow to Mr. Monnesmith's great pair of herd boars, Kansas Special and Col. Gene. Kansas Special is a son of the noted Ohio Chief boar, Valley Chief, and his dam was Miss Hadley by Young Hadley, Col. Gene was sired by the undefeated Col. boar, B. & C's Col. His dam was a daughter of the great Pilot Wonder Chief. This pair of boars for breeding and individuality are the equal of anything in the boar line now doing service in any Kansas herd. Kansas Special has already demonstrated his splendid ability as a breeder. The gilts are well grown out and represent a great variety of first-class breeding. Many of them carry the blood of the great breeding boar, Bonnie K. A few were sired by Mankato Col. he by G. C.'s Col. All of these have been bred to Col. Gene, and this mating should produce some mighty choice line-bred Col. litters. The tried sows are sows that have made lots of money for Mr. Monnesmith and are being put in the sale as attractions. Among them is one daughter of Mankato Col. Among the gilts are many rich in the blood of Missouri Goldfinch Climax and other lines of breeding that have always been so popular. Mr. Monnesmith has fed and handled this bunch of bred sows with his usual intelligence and forethought. He would rather have them sell for a few dollars less on account of not being highly fitted than to have any of them go out and fail to do the buyer good. He is in the business permanently, and the success of his customers is worth as much to him as the money they bring. Make your arrangements to attend this sale or send bids to Jesse Johnson in Mr. Monnesmith's care at Formoso, Kan.

KANSAS STATE UNIVERSITY LIBRARIES

# More Chicks



Bigger, stronger and healthier, because hatched under right conditions. Send for catalog of the 1913 model automatic

## QUEEN Incubator

23 Points of Superiority

Sells at the lowest possible price on liberal trial plan. The Queen is used by successful poultry raisers everywhere. My book tells you all about it. Your copy is free. Send for it now, today.

P. M. WICKSTRUM, Incubator Man  
Box 28, Lincoln, Neb.

### HATCHES ON A GALLON



## RAYO Incubator

See whole interior thru double-double glass top. Tank holds month's supply.

### One Filling to a Hatch

Regulator adjustable to thousandth of a degree, acts on flame; double heating system uses all the heat—none escapes, none wasted—hatches on one gallon. Automatic ventilation. Egg turning semi-automatic. Roomy nursery, thick wood case, enameled mahogany steel covering. Anyone can use it. Big hatches certain and cheap. Low direct prices. Send for Catalogue No. 11

## Rayo Incubator Co.

843 South 13th St. OMAHA, NEB.

### More Money from Poultry

NOW is the time to get in the money-making poultry business with one of my Successful Incubators—only \$6.75 up. With the "Successful" no experiments or trial hatches are necessary—you can be sure of success every time.

#### SUCCESSFUL INCUBATORS

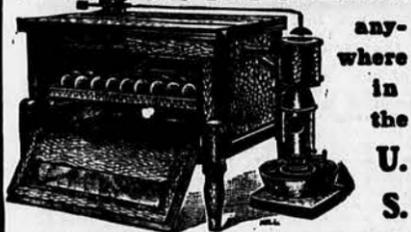
#### SUCCESSFUL BROODERS

Give most chicks—raise more chicks—and are guaranteed with the strongest guarantee ever put behind any machine on the market. Don't buy an incubator that guarantees less than I do. Send your name now for catalog, low price proposition, guarantee, and Free Lessons in Poultry Raising that insure success.

DES MOINES INCUBATOR CO.  
58 Second St., Des Moines, Ia.  
NOTE—Book "How to Raise 48 out of 50 Chicks", 10c—Catalog is FREE. Get it.

\$6.75 and up

### \$8.50 - 63 EGGS WE PAY FREIGHT



Greatest Bargain Ever Offered. Catalog FREE. PETALUMA INCUBATOR CO., Box 311 Petaluma, Calif. Box 368 Indianapolis, Ind.

### 7.35 for BIG 155 EGG INCUBATOR

Biggest at price—hundreds of dead air cells—cold rolled copper tank, hot water heat, double disc regulator, deep nursery, high legs, double doors, egg tester, safety lamp. Price \$7.35, with \$2.00 freight. Freight prepaid east of Rockies. Order from this ad on our guarantee or write for our big free book. Progressive Incubator Co., Box 180 Racine, Wis.

When writing advertisers, please mention Kansas Farmer.

### Hatch by Rule

Mandy Lee, the incubator of certainty, is purely automatic. It measures and adapts moisture to heat. Open-front-poultry-house plan. Lee's scientific principles show in bigger hatches, better chicks. Send for book explaining great new Lee features. Sizes up to 600 eggs. Try Germoxone for chick health and poultry thrif. Also Lee's Egg Miter and Egg Maker. All books free.

GEO. H. LEE COMPANY, Omaha, Neb. 1107 Harney Street.

55 BREEDS Pure-Bred Chickens, Ducks, Geese, Turkeys, also Incubators, Supplies, and Cattle Dogs. Send 4c for large Poultry book Incubator Catalog and Price List. H. H. MINIKER, Box 57 Mankato, Minn.

### WHITE PLYMOUTH ROCKS Best All-Purpose Fowls in Existence.

White P. Rocks hold the record for egg laying over all other breeds. 289 eggs each in a year for eight pullets is the record, which has never been approached by any other variety. I have bred W. P. Rocks exclusively for 20 years and have some fine specimens of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45, and I prepay expressage to any express office in the United States.

THOMAS OWEN, Sta. B, Topeka, Kan.

# POULTRY



A feed of chopped onions occasionally will be greatly relished by the fowls as well as conduce to their health.

Save all the small potatoes to use with the mixed food later on. They will prove a very beneficial addition to the warm mash.

See that the hens have all the pure water they can drink at all times. If you have skim milk to spare, that also can be placed before them constantly.

Nests and roosts which are stationary are hard to clean, and sometimes in spite of all the care they get, because they are attached to the building, they will make a home for some vermin. All the fixtures in the poultry house should be movable. The roosts may be turned up against the building or taken out one at a time and cleaned. The nests should always be movable so they can be taken out to the open air and given a good cleaning.

We are of the opinion that more disease is caused by over-feeding chickens than by under-feeding them. We know of several flocks that were being pampered too much and the hens were moping and neglected to lay. On advising the owners to feed sparingly, the hens regained their health and commenced to lay. It should be remembered that hens that are laying demand much more feed than those that are idle. You can hardly feed a hen that is laying too much feed. But those that are too highly fed before they commence to lay are usually too fat, their combs will be bright and red and they may appear thrifty, but when they are very fat the owner may wait a long while before he will get many eggs from them. There is but one course to pursue, and that is to cut off the supply of food until the hens are willing to work. A hen that is fat will not starve until the stores of fat on her body are utilized, as this reserve of warmth is just so much carbonaceous food in the form of fat. Begin by giving no food at all. For a day or two the hens will insist on your supplying them with food. At the end of two days scatter a pint of millet or rape seed in the litter. Hunger will induce them to work. Withhold the bulky food for a week or ten days, or until they will have lost considerable weight. They will then have concluded that they must work for their living, and by feeding judiciously thereafter, they will begin to lay and continue to do so if properly cared for.

### Heredity.

In common with other poultry writers we have advised our readers not to breed from disqualified birds or any that have deformities. The idea has been that like reproduces like, and birds deformed would be liable to reproduce deformed birds. But our old idea may have to be revised to date, for now comes information from the government experiment station that deformed animals do not reproduce deformed offspring. At the government experimental farm near Washington they have been experimenting in breeding deformed rabbits. A number of matings with the same deformity, usually deformed forelegs, have been made, with so far, not a single case in which the deformity reappeared. This of course, was not an experiment with chickens, but the same law of heredity ought to apply to fowls as to rabbits. It would be a good thing if the government experts would try some experiments with fowls and determine whether deformed or disqualified specimens reproduce the same characteristics. If they do not, it would save many a fine specimen of the feathered tribe from an ignominious death and preserve them for future usefulness. Any side-sprig on the comb of a fowl is a disqualification and numberless quantities are thrown out every year at almost every poultry show. It is too bad that such a seemingly slight defect should bar out some of the finest of our birds, and if the defect is not liable to be reproduced in the offspring, it amounts to a calamity.

Crooked keelbones or breast bones are also thrown out by the poultry judges as disqualified to compete in a poultry show. These defects are often not organic, but caused by being over-crowded

when young and immature. If not organic, these defects would not be likely to reproduce themselves in the offspring. If these questions could be settled by the experimenters it would prove of great value to poultrymen and a revision of the Standard of Perfection would be in order.

Another bug-bear that has scared the poultry breeder from time immemorial is the matter of in-breeding. He has been told that if he in-breeds his fowls that deterioration and disaster will soon follow. But now come the government experts who have been in-breeding guinea pigs for from five to twelve generations and no deterioration whatever has been discovered from any of these experiments. The same principles of heredity or inheritance apply to fowls and we must revise our ideas on in-breeding as well as on reproduction.

### A Suggestive Experiment.

In our experiments at the Utah Experiment Station, we had nine separate pens, all under different conditions. The financial results for the year ranged from nothing to 200 per cent. profit on the cost of feed. These nine pens were all fed alike. They received the same kind of food, though in different quantities, but they all had as much as they would eat. They were all housed the same; that is, all in the same house. The pen that gave no profit on the cost of feed was of the same breed and received the same kind of food as the pen that made 200 per cent. The difference was that the former was composed of hens three and four years old, and the latter of pullets.

And there was another difference, the hens were fed in boxes, while the pullets were fed their grain food in a litter of straw, making them scratch for it. The former was pen No. 1, and the latter No. 4. The hens in pen 1 produced 64 eggs each during the year, worth at market prices 56 cents. Pen 4 produced 182 eggs during the year, worth \$1.88 cents. Pen 1 consumed 53 1/2 cents worth of food, while pen 4 consumed 64 cents worth of food. Pen 5 were old hens, same as pen 1, but they were fed their grain in the straw, same as pen 4. This pen consumed 62 cents worth of food, laid 107 eggs each, worth \$1, a profit of sixty-one per cent. on the cost of feed. The food cost of eggs was, for pen 4, 4.1 cents per dozen; for pen 1, 9.9 cents per dozen; for pen 5, 6.9 cents per dozen.

Now suppose you have a thousand hens like pen 1. It costs to feed them, according to our experiments, \$537.50 a year. They lay \$560 worth of eggs, which means a profit of \$22.50 from which the wages of a good man must be paid for the year, and the interest on an investment of say \$2,000. Now take pen 4 of pullets, and what are the results? They consume \$620 worth of food during the year. They produce eggs worth \$1,800, leaving a profit of \$1,200, from which say \$200 interest on investment may be deducted, leaving \$1,000 for the labor of feeding and caring for them.

It is not at all likely that improvements could not be made in the ration as well as in the care we gave our flock. I am quite certain that changes could be made that would better meet the wants of the fowls and that would increase the egg yield at least ten per cent., and instead of a record of 182 eggs per hen per year, 200 eggs would be her normal capacity.

I am speaking now of Leghorns. I think the same can be said of any of the smaller breeds. The Brahmas and other larger breeds should average 150, but 150 or 160 Brahma eggs will weigh about as much as 200 Leghorn eggs; besides, the Brahma when killed is worth two or three times more than the Leghorn for eating, and of course this is an important item where the hens have to be killed off and sold in the market for table purposes every one or two years, as must be done if the business is to be conducted with profit. Besides half the chicks that are hatched are males, and these must be disposed of, and of course the Brahmas will command a very much higher price than the Leghorns.—From a paper by J. DRYDEN, Utah Experiment Station.

# Now is the Time to Get

## Johnson's 1913 Book About the Old Trusty Incubator

Every man, woman, boy or girl who is interested in chicken raising can have a copy of the 1913 Old Trusty Book free by writing a postal for it. It's the best book ever written by the Johnsons—

"home made" and home printed—full of real helpful facts gleaned by the Johnsons from their own practical experience and the experience of over 400,000 Old Trusty customers.

There are over 400,000 good reasons for you to read this book. They are the 400,000 Old Trusty customers who've started to biggest poultry raising success by reading the Johnson books issued in years past.

Send a Postal The Old Trusty is a triple cased machine—inner case of high grade 1/2 inch powder-dry clear California Redwood—not a knot in a mile—then a case of highest-grade asbestos, fire proof insulation—and then the outer case, covering legs and all, of galvanized metal in handsome mottled finish. Johnson's machine is equipped with guaranteed not-to-leak cold-rolled copper tank and heater—direct acting regulator. Price, still less than \$10 for 1913, freight prepaid east of Rockies and allowed that far to points beyond. Write postal now.

JOHNSON, Incubator Man, Clay Center, Nebr.



Built Exactly 30 to 90 days. Alike for Biggest Aves—Free Trial. Freight Paid E. of Rockies. Less Than \$10.

## FITZ OVERALLS

— are large roomy garments, making them comfortable in hot weather. Made of the strongest denim double reinforced stitched, trimmed with heavy brass buttons and buckles. Insist upon Fitz the next time you buy - if your dealer does not carry them write us and you will be supplied.

Free Fitz Book sent on request.

Burnham-Munger-Root Dry Goods Co. Kansas City, Mo.

## PATENT YOUR IDEAS

\$5,000 offered for certain inventions. Book "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free reports to patentability. Patents advertised for sale at our expense in Manufacturers' Journals.

CRANDLEE & CRANDLEE, Patent Att'ys  
Established 16 Years  
1069 F. Street, Washington, D. C.

When writing advertisers, please mention KANSAS FARMER.

## Profitable Poultry Selling

Send for this Free Booklet

The poultry breeder's percentage of profit depends quite a bit on selling costs. These profits are good, sometimes, and sometimes they are not. At the very best the average poultry breeder never got any more than his or her due. Usually it has been less. Not because the breeders don't know their business as breeders, nor yet because they are not good men and women.

No sensible breeder would allow the cost of raising stock to go twice as high as necessary. But sometimes the selling cost is allowed to get too high, because the wrong means of advertising are used.

To select the right selling means for Kansas and adjoining states means money saved to breeders, besides money made in the better prices to be had when using the right means. The booklet, Profitable Poultry Selling, has been written, and is free to poultry breeders everywhere who will simply write for it.

KANSAS FARMER, Topeka, Kan.

PURE BRED POULTRY

PLYMOUTH ROCKS.

IVORY STRAIN WHITE ROCKS, LARGE, white, pure bred. Graca Dolson, Neal, Kan.

BARRED ROCK COCKERELS, REASONABLE prices. Dradlie Dunbar, Columbus, Kan.

BARRED PLYMOUTH ROCKS—MRS. E. E. Hazen, Hiawatha, Kan.

WHITE ROCKS—KANSAS STATE SHOW winners. Exhibition and utility stock. Price reasonable. R. C. Lane, Newton, Kan.

FARM RAISED S. C. BUFF ORPINGTON cockerels and pullets for sale. Prices right. N. P. Lawson, Jr., Maize, Kan.

MAMMOTH SNOW WHITE ROCKS—Bred for 10 years for size and quality. Charles Vorles, Wathens, Kan.

CHOICE BARRED PLYMOUTH ROCK COCKERELS for sale, \$1.50 to \$3 each. Eggs in season. E. Leighton, Birmingham, Kan.

BARRED ROCK COCKERELS, FOR EVERYBODY at farmers' prices. Catalog free. Florence Belle Ziller, Hiawatha, Kan.

PARTRIDGE ROCKS, BIRD BROTHERS strain. Cockerels for sale. Gregor Fisher, Elkhorn, Wis.

HIGH GRADE UTILITY BARRED ROCK COCKERELS, \$1.50. Hatching eggs, \$4 per 100. C. C. Carey, Peabody, Kan.

PURE-BRED BARRED ROCKS—FIFTY choice cockerels, \$2 each. Ringlet strain. Vigorous, farm raised. Mrs. P. A. Pettis, Wathens, Kan.

WHITE ROCKS—COCKERELS WON 1ST, 2nd and 3rd at county show in strong class. \$1 to \$5 each. G. H. Terwilliger, Smith Center, Kan.

CHAMPION BARRED ROCKS AGAIN successful winning all firsts at Franklin Douglas Co. Fair, 1912. Write me. Mrs. Chris Bearman, Ottawa, Kan.

BARRED ROCKS—BRED FOR BEAUTY and profit. Sixty-four premiums, Topeka, Manhattan, Clay Center. Cockerels, \$3 and up. Mrs. D. M. Gillespie, Clay Center, Kan.

BARRED PLYMOUTH ROCK COCKERELS, good utility birds, \$1.50 each; \$4 for three; \$7 for six. Mrs. J. H. Taylor, Route 2, Chapman, Kan.

BUFF ROCK EGGS BY PARCELS POST, from quality stock, at reasonable prices. Write today. William A. Hess, Humboldt, Kan.

FOR SALE—FARM-RAISED BARRED Plymouth Rocks. Cockerels, \$1.50 each. Eggs for hatching in season. J. L. Yordy, Peabody, Kan.

BUFF ROCKS—COCKERELS, HENS, pullets, eggs, bred successfully 15 years. The very best. Lowest cost. J. H. Kelley, Altoona, Iowa.

THIRTY WHITE PLYMOUTH ROCK COCKERELS, \$1 and \$2 each. Indian Runner drakes, \$1.50. L. F. Spellman, Route 8, Paola, Kan.

When writing advertisers, please mention KANSAS FARMER.

BARRED PLYMOUTH ROCKS, THOMPSON Ringlet strain, cockerels \$2 each. Eggs for hatching, \$3 for 50; \$5 for 100. A. F. Siefert, Defiance, Mo.

WHITE ROCK COCKERELS, FIRST prize winners, score 92 to 96 1/2. Extra high class. Sell for half value. Will Curtis, St. James, Minn.

FIFTY EARLY SPRING COCKERELS for sale, the best lot I ever raised, priced to sell quick. Write your wants at once. Mrs. L. A. O'Keefe, Stilwell, Kan.

WHITE PLYMOUTH ROCKS—WINNERS at Missouri State; Little Rock, Ark.; West-ern Missouri, Jefferson City and Warrensburg shows. Cocks, hens, cockerels and pullets at reasonable prices. A. E. Glass, Harrisonville, Mo.

LINDAMOOD'S BARRED ROCK COCKERELS, all hatched from prize winning mat-ings; heavy laying strains, and are sure to please. Utility birds, \$2 to \$3 each. Pen pullets, \$5 up. Write now before the best are gone. C. C. Lindamood, Walton, Kan.

LEGHORNS.

PURE-BRED SINGLE COMB WHITE Leghorn cockerels, now \$1 each, \$10 dozen. Willie Tonn, Haven, Kan.

ROSE COMB BROWN LEGHORN COCKERELS. Fine exhibition and laying strains. Mrs. John Holzhey, Bendena, Kan.

S. C. B. LEGHORN COCKERELS, \$1 each; six, \$5. Guaranteed pure-bred. A. B. Hunt, Centralia, Kan.

FINE RANGE-RAISED LAYING S. C. W. Leghorns, cockerels and pullets, \$1 to \$2. White Wing Poultry Farm, Melvern, Kan.

SINGLE COMB WHITE LEGHORNS that are bred to lay. Breeding cockerels, \$1.50 up; six, \$7.50. Plainview Poultry Farm, Lebo, Kan.

S. C. BROWN LEGHORN COCKERELS, standard bred, extra quality, rich color, large and vigorous. Mrs. L. H. Hastings, Thayer, Kan.

S. C. WHITE LEGHORN COCKERELS, farm raised; large, vigorous birds; \$5. None better at any price. Westdale Farm, Hous-ton, Mo.

CHRYSTENNE POULTRY FARM, ROCKY Mountain, Colo. Thoroughbred Single Comb White Leghorn, laying strain, cockerels and pullets for sale. Orders taken for baby chicks. Eggs for hatching. J. A. Hoch-schneider.

SINGLE COMB WHITE LEGHORNS—Longest bred 10 years for egg production. Silver cup winners in Kansas City shows. Utility hens, cockerels, \$1.25; pullets, \$1.50. Winners for any show. Catalog free. Ack-erman Leghorn Farm, R. F. D. 5, Rosedale Station, Kansas City, Kan.

PIGEONS.

PIGEONS—WHITE PLYMOUTH ROCK Benders. Maym Parsons, 219 Huntoon St., Topeka, Kan.

Do You Have Them?

On nearly every farm and in all flocks are some nonproducers. They consume more food than others, and they produce nothing to compensate for it. It matters not how much a hen consumes if she is a producer. It is the hen that eats and lays no eggs that is the undesirable thing on the farm. Do you have them? If not, are you sure of it? Do you know the individual hens, and know their records; whether they are laying hens or just staying around doing nothing but eat? When a portion of the flock is laying the unprofitable hens should be separated from the flock and made to contribute even if they have to fall to "pot luck." It is too costly to retain nonlayers in order to get eggs in the future when prices are low and nearly every hen is trying to contribute to help to make a surplus of eggs. To feed them high priced food now in order to have them laying in the spring will not pay, as a rule.

Hens may be fed on a variety of food, and the greater the variety as a rule the better it will be for them. If they fail to begin laying soon on good food it will be safe to guess that they will not lay until spring, and they had better be put in the fattening pen and put on the market soon. It is the poultryman who looks after these matters that makes the business a success. The merchant gets rid of all his shelf-worn goods at almost any price and keeps such goods as he can sell readily and at a profit. The poultryman should use the same business management in his business, and get rid of all the nonproducing and nonpaying hens at once.

Kansas has a wonderfully valuable asset in Professor Lippincott, the poultryman of Kansas Agricultural College. Lippincott understands the poultry business from the farmer's standpoint, and his work in developing the farm phase of poultry keeping is to be commended. We do not know what the college budget for poultry work will call for from the legislature, but are sure it will not be for more money than is needed, and legislators cannot afford to trip on this appropriation.

1913 Queen Incubators.

One of the remarkably successful developments for artificial hatching and brooding poultry took shape some years ago as the Queen Incubator and the Queen Brooder. Since the first coming of these machines their progress has been watched with interest by many Kansas folks, for the machines are the result of the thoughtfulness, ingenuity and industry of Kansas people—P. M. Wickstrum and his two sons. Wickstrum was a pioneer in Clay County, Kansas, but moved to Lincoln, Neb., some years ago, to have the benefit of that railroad center to aid him in distributing the product of his fine modern factory. Thousands of the readers of this paper have bought and used (indeed they are still using them) Queen incubators and brooders, but not a single complaint has ever been received regarding either the operation of the machines or the methods of doing business. The new Queen book is out for 1913, and a free copy can be had by writing to Queen Incubator Co., Lincoln, Neb. Mentioning this paper when writing will be appreciated.

New 1913 Art Style Book of Planos.

Mr. J. B. Thiers, the piano and organ man, Milwaukee, Wis., is sending out, free, postpaid, his beautiful new 1913 Art Style Book of Planos. This book, without a doubt, is one of the finest books of pianos ever printed, and it shows all the new 1913 Thiers pianos in mahogany, walnut and oak colors. Whether you are going to buy a piano for your home right now or later on, it will pay you to send to Mr. Thiers for this book and his special letter with straight to you prices and easy terms of payment. Mr. Thiers is well known to the majority of readers of our paper, and many of our subscribers have Thiers pianos in their homes. The book that Mr. Thiers has just issued contains scores of testimonial letters from homes that have purchased direct from him, telling of savings and satisfaction that will interest any home in the market for a piano. Mr. Thiers is conducting the most successful business of the kind in the country, and will ship to you, all freight prepaid, any Thiers piano you choose on 30 days' trial and test with no obligation on your part to keep it if you are not more than pleased. If you are not a cash buyer, he will give you from two to three years' time to complete payment and arrange the payments at times of their year when it is most convenient for you to make them. His full page advertisement appears in this issue, and if you are ever going to buy a piano, it probably will pay you to write to him at once for his style book and special price list.

TURKEYS

MAMMOTH BRONZE TURKEYS FOR sale. Winners at Wichita State Show. Also registered Scotch Collie dogs. I. P. Kohl, Furley, Kan.

BIG PURE-BRED BRONZE TURKEYS—Toms, \$5; hens, \$3. Prize S. C. Buff Orpington cockerels, \$1.50. Gertrude Tilzey, Lucas, Kan.

FOR SALE—PRIZE WINNING MAMMOTH White Holland Turkeys. Cockerels weigh 26 to 28 pounds; pullets, 16 to 17. At Missouri State Show, 1912, won first and second hen, first pullet, first cockerel. Address Miss Lillian Schaaf, Lexington, Mo.

FOR SALE—HIGH-GRADE BOURBON Red Turkey Toms, \$5 each. I also have several fine farms for sale very cheap. Good land for less price than anywhere else in the United States. Price, \$20 to \$40 per acre. Write for list. F. M. Kern, Springville, Ind.

When writing advertisers, please mention KANSAS FARMER.

The Only Guaranteed Incubator in the World

AIRFIELD Incubators

are not an experiment. Thousands in use. Every one making good. They are easy and cheap to operate, will pay for themselves on first hatch.

Write for Free Catalog and My 90% Hatch Guarantee

Find out all about the Fairfield. Get my fair and square trial offer so you can settle the incubator problem right. Address

SAM THOMPSON, President, Nebraska Incubator Company, Main St., Fairfield, Nebraska



PURE BRED POULTRY

WYANDOTTES.

FIFTY PURE-BRED SILVER LACED Wyandotte cockerels. Choice birds, \$1 to \$2 each. Mrs. Alvin Tennyson, Miltonvale, Kan.

GOOD SILVER LACED WYANDOTTE cockerels at \$1, \$1.50 and \$2. Mrs. D. Edwin Shuff, Plevna, Kan.

WHITE WYANDOTTE COCKERELS, choice birds, \$1 to \$2 each. Mrs. Will Beightel, Holton, Kan.

PURE-BRED SILVER WYANDOTTE cockerels, \$1 and up. J. B. Fagan, Minneapolis, Kan.

GOOD HEALTHY SILVER WYANDOTTE cocks and cockerels for sale from extra good stock. Henry L. Brunner, Route 5, Newton, Kan.

HEATON'S BUFF WYANDOTTES ARE thoroughbred and at the right price. You can be the judge. W. K. Heaton, Larned, Kan.

500 SILVER WYANDOTTES FOR SALE—As good as they grow. Birds that can win in the show rooms for you. M. B. Caldwell, Broughton, Kan.

BUFF WYANDOTTES—BREEDING stock in season. A splendid lot of youngsters coming on. The best bargains to those who buy early. Wheeler & Wylie, Manhattan, Kan.

KANSAS' BEST WHITE WYANDOTTES—Winners of every first premium at Kansas State Poultry Show. No better anywhere. Eggs, \$3 per setting. A few utility cockerels and pullets for sale. N. Kornhaus, Peabody, Kan.

RHODE ISLAND REDS.

FINE R. C. R. I. RED COCKERELS, \$1 to \$2 each. I. W. Poulton, Medora, Kan.

BOURBON RED TURKEYS FOR SALE. Mrs. Wm. Flory, Sawyer, Kan.

ROSE COMB RHODE ISLAND RED COCKERELS. Prices reasonable. Louis G. Roth, Holyrood, Kan.

BIG-BONED DEEP RED R. C. REDS, three for \$5; also prize winners, guaranteed satisfaction. Highland Farm, Hedrick, Iowa.

S. C. RED MALES, \$2; FEMALES, \$1. Excellence combined for size, eggs, color and vigor. O. G. Welch, Ipava, Ill.

ROSE COMB REDS—FINE LARGE birds. They win prizes at Kansas and Oklahoma State Shows. Reasonable. L. Shamelfer, Douglas, Kan.

ONE HUNDRED SINGLE COMB RHODE Island Red cockerels and pullets. Also White Pomeranian puppies. Bargain. J. A. Crozier, Knoxville, Iowa.

SINGLE COMB REDS—WINNERS OF all firsts, Kansas State Show, 1912. Cocks, hens, cockerels and pullets for sale. Moore & Moore, 1239 Larimer Ave., Wichita, Kan.

S. C. RED COCKERELS FOR SALE, including 2d ck. Mo. State, 1-2-3 ck. Pleasanton, Kan., show. May Felton, Blue Mound, Kan.

THOROUGHbred ROSE AND SINGLE Comb Rhode Island Red cockerels and pullets bred from \$2 to \$4-point males and hens trap-nested for superior egg production. D. J. Bliss, Carthage, Mo.

REMEMBER MY SINGLE COMB RUBY Reds are the foundation stock of some of the best red farms in the midwest. I have cockerels, pullets, hens with score cards at \$2 and up. Eggs, \$1.50 to \$5 per 15; \$5 per 100. Buff Orpington ducks, the real buffs. Some stock. Eggs, \$2 and \$3 per 12. Brighton Poultry Yards, Brighton, Ill.

LANGSHANS.

BLACK LANGSHAN COCKERELS, FROM stock scoring 96. Also some exhibitor's stock. Mrs. D. A. Swank, Blue Mound, Kan.

TURKEYS.

FOR SALE—MAMMOTH BRONZE TURKEYS. W. F. Hirsch, Ellinwood, Kan.

PURE-BRED WHITE HOLLAND TURKEY toms. Winnie Litton, Peabody, Kan.

TURKEYS, BRONZE AND BOURBON. Trios, \$10. R. I. Red cockerels, 75 cents. Mrs. Emma Ahlstedt, Roxbury, Kan.

MAMMOTH BRONZE TURKEY TOMS, \$6 to \$8. Hens, \$5 to \$6. Mary & M. D. L. Gibson, Eureka, Kan.

BOURBON RED TURKEYS—These are from prize winners. Won the gold bands at Topeka Poultry Show. Eleanora Poultry Farm, Centralia, Kan.

PURE BRED POULTRY

ORPINGTONS.

FIVE FINE BUFF ORPINGTON COCKERELS, \$4 for lot; \$1 each, shipped separately. L. H. Cobb, Duaneville, Kan.

WHITE ORPINGTON COCKERELS, large and white, \$2. No culls shipped. Mrs. Helen Lull, Mt. Hope, Kan.

GUARANTEED THOROUGHbred S. C. White and Buff Orpingtons; cockerels, \$3; pullets, \$2; eggs, \$1.50 per 15. J. A. Blunn, Station A, Wichita, Kan.

PURE-BRED SINGLE COMB BUFF Orpington pullets. Best winter laying strain. \$1.00 each. Fannie Rensenberger, Greeley, Kan.

S. C. BUFF ORPINGTON EGGS, JANUARY, FEBRUARY. National egg laying contest winners, 1912. Mating list free. S. C. Fellows, 530 St. Louis St., Springfield, Mo.

KELLERSTRASS CRYSTAL WHITE Orpingtons, S. C. White Leghorns. Stock eggs, baby chicks. Satisfaction or money back. Theo. Flick, Goodland, Kan.

KELLERSTRASS WHITE ORPINGTONS exclusively. A fine selection of cockerels and pullets. Prices reasonable, satisfaction guaranteed. L. A. McKinnell, Maize, Kan.

BLUE RIBBON STRAIN WHITE ORPINGTONS. Some fine young cockerels from my prize winning birds at from \$2.50 to \$5. Let me know your wants. C. O. Crebbs, Stafford, Kan.

SEVERAL BREEDS.

INDIAN RUNNER DUCKS, BUFF ROCK COCKERELS, \$1 each. George Wasson, Anness, Kan.

BREEDER AND JUDGE OF ALL LAND and water fowls. Terms and catalog free. C. W. Brehm, Route 4, Harvard, Neb.

SARVER'S NABAGANSETT TURKEYS and Buff Wyandottes. Sarver's Poultry Farm, Mt. Moriah, Mo.

THOROUGHbred POULTRY—SIXTY varieties. Catalog free. Jordan Poultry Farm, Coffeyville, Kan.

BARRED ROCKS AND BRONZE TURKEYS; hens, pullets, cockerels. My entire flock of Bronze Turkeys. Mrs. E. C. Wagner, Holton, Kan.

BARRED ROCK AND WHITE COCHIN bantam cockerels. Indian Runner drakes. Eggs in season. Write me. Harry E. Duncan, Humboldt, Kan.

SMITH'S POULTRY REMEDY WILL cure roup, colds, and keep chickens in good condition. If not satisfied, money refunded. Price, 25c, 50c and \$1 per box. W. H. Smith, Box 1065, Wichita, Kan.

R. C. BLACK MINORCAS AND WHITE Orpingtons. Large number males and females, reasonable. Many prize winners. Eggs in season. Dr. C. J. Forney, Woodward, Okla.

43 VARIETIES, POULTRY, PIGEONS, ducks, geese, water fowl. Incubators. Feed and supplies. Catalogue 4 cents. Missouri Squab Co., Dept. C. V., Kirkswood, Mo.

BABY CHICKS AND EGGS FOR HATCHING from all leading varieties of poultry ranged on separate farms. Our coal heated hatchery is the largest in Nebraska. Maplewood Farm, Exeter, Neb.

FOR SALE OR EXCHANGE—ONE 8-months-old Collie bitch and several pups sired by Imp. Ornskirik Sample. Want poultry or offer, no \$5 dogs. A. G. Hillman, Red Oak, Iowa.

60 VARIETIES FANCY GEESE, DUCKS, turkeys, chickens, pea fowls, guineas, pigeons, pheasants. Stock and eggs cheap. 60-page catalog, 2 cents. F. J. Damann, Farmington, Minn.

SPECIAL PRICES ON FINEST BARRED Rocks, Partridge Wyandottes, Single and Rose Comb Black Minorcas, Pekin Ducks, Toulouse and White China Geese, Scotch Collie pups from heelers. Glen Oak Farm, Route 15, Alexandria, Minn.

DUCKS AND GEESE.

CORNISH INDIAN GAMES AND TOULOUSE Geese for sale. Eggs in season. Prices reasonable. A. A. Ohlendorf, Route 1, Marshall, Mo.

INDIAN RUNNER DUCKS FROM imported stock, also American standard bred. Some fine ones cheap. Mrs. Frank Higgs, Route 19, Idaville, Indiana.

INDIAN RUNNER DRACKES—FAWN and White; both light and dark strains, \$1.50 to \$3 each. Pure bred Buff Rock Cockerels, \$1 and \$1.50 each. Mrs. Annie E. Kean, Rt. 1, Carlton, Kan.

KANSAS STATE UNIVERSITY LIBRARY

# FREE SEEDS

**Quick Sprocket**  
The Producer  
Test at our expense, prove you make more money growing these seeds. "Galloway" always means "bargain" and quality.

**PURE - GENUINE - UNADULTERATED**  
Fifty cents worth—five 10-cent packets free of germination-tested seeds, true to name, sure to grow. Just send 10 cents to cover cost of packing and mailing and I will send you this famous collection: Champion Pickle Cucumbers, Matchless Tomatoes, Prizehead Lettuce, Southport White Globe Onions, Large G. B. Mixed Sweet Peas, in a large Condon Envelope, returnable as 25c in cash on an order of \$1 or more.

**NEW, DIFFERENT ORIGINAL SEED BOOK**  
Showing largest selection pure, genuine, unadulterated garden, flower and field seeds. Contains field articles by Prof. M. L. Bowman. This book is free—send now.

**How to Plant the Seed**

Salloway Bros. Bowman Co., Waterloo, Iowa

**DWARF Straight Neck MILO MAIZE**

**DROUGHT RESISTING**  
Yields 60 to 100 bushels to the acre and stands greater drought than any other sorghum. Earlier and more productive than Kaffir Corn or ordinary Milo Maize. Thoroughly acclimated. Grown from stock seed obtained from the United States Department of Agriculture.

**Free Sample and Big Catalog "A New Grain Feterita"**

Extremely early 30-day ear. More than 100 bushels per acre. One bushel makes 80 bushels of feed. Grows in all sections. Great drought resister. One bushel makes 100 bushels of feed. One bushel makes 100 bushels of feed. One bushel makes 100 bushels of feed.

**BARTELDES SEED COMPANY**  
Oldest Seed House West of the Mississippi River.  
806 Main St., Lawrence, Kansas  
627 W. Main St., Okla. City, Okla.  
109 Seed Bldg., Denver, Colo.

**Sonderregger TREES AND SEEDS THAT GROW AT IT OVER 28 YEARS**

For twenty-seven years I've been selling "Seeds and Plants that Grow." I've been selling them direct at rock bottom prices—no agents' commissions attached. My catalog has always been my only salesman. My

**Free 1913 Nursery and Seed Book**  
is now ready. Send for it. It's the result of 27 years' experience. Lists all kinds of trees and plants, farm and flower seeds. Quotes lowest prices, no agents' commission to pay. Here are a few of the many bargains. Apples 80 each; Cherry 140 each; Plum 100 each; Catalog Speciosa seedling 8-12 inch \$1.75 per 1000.

**SPECIAL 10c Offer**  
50 pkt. Mixed Colors Petunias; 100 pkt. Ex. Fine Mixed Panicles; 100 pkt. Single Pink; 50 pkt. Finest Mixed Poppies. 80c worth for 10c, postpaid.

Remember my seeds are all Nebraska Standard. I pay freight on \$10.00 tree orders. Send for catalog, see my prices. A postal receipt. German Nurseries & Seed House, Box 147 Beatrice, Neb.

**Big 1913 Seed Catalogue and Great Premium List -- ALL FREE**

Tells you how you can buy Vegetable and Flower Seeds, Plants and Nursery Stock at lowest prices, and get valuable premiums for the home, kitchen or farm free. Our offers for 1913 are the choicest and most liberal in our 37 years' history.

**Succeed with Salzer's Seeds**  
For 9c we mail big packages of Salzer's famous Alfalfa Clover, Rejuvenated White Bonanza Oats, Silver King Barley, and many other packages fine farm seeds.

Flower seed collection—six generous packages—brilliant bloomers, 15c. Vegetable seed collection—six big packages—enough for a good garden—10c. Both collections for 25c, or send 30c and we add new Earliest Red Riding Hood Tomato Novelty, alone costing 15c.

John A. Salzer Seed Co., 2289 8th St., LaCrosse, Wis.

**GOOD SEEDS BEST IN THE WORLD**

New Crop Grown at Farmer Prices. In addition a lot of extra FREE SEEDS thrown in with every order.

**BIG SEED BOOK FREE**

Our Grand Big Illustrated Catalog of all Farm and Garden Seeds is now ready and free to you. Write for it today. Send names and address of neighbors who buy seeds. Address

**RATEKIN'S SEED HOUSE SHENANDOAH, IOWA Box 7**

**CLOVER** New Crop Iowa Grown Recleaned TESTED

and inspected Red Clover. Also Mammoth, Alfalfa, Alfalfa and Sweet Clover of choicest quality. **TIMOTHY Blue Grass, etc., at low prices.**

Now is the time to buy. Ask for samples and copy of our Special Clover Seed Circular. Large illustrated catalog of Seed free.

**IOWA SEED COMPANY, Dept. 31 DES MOINES, IOWA**

# HOME CIRCLE



Mary had a little lamb;  
"Twas in her stocking hid.  
It ran around when it was wound—  
That is, sometimes it did."  
—Washington Herald.

In enumerating the benefits which have come to us during the year just ended, not the least is the fact that its gifts for educational purposes have footed up \$327,000,000.

A good way to warm up a piece of meat is to wrap it in thickly greased paper and keep it covered while in the oven. By having it covered the steam will prevent the meat from becoming hard and dry.—Philadelphia Times.

"Oh, look what a pretty kitten mamma," exclaimed little Harry, while visiting at the home of a neighbor.  
"Yes," said his mother, "and just think, Harry, it never cries."  
"Well, why should it?" rejoined Harry. "Nobody ever tries to wash its neck and ears."—Denver Times.

**Suggestions for Home Decorations.**  
INSTRUCTOR IN DOMESTIC ART OF HOME ECONOMICS DEPARTMENT, N. D. A. C.  
To make the home serve its best purpose with reference to home life, comfort and economy, there must be orderly arrangement and correct selection of furnishings with reference to their beauty and use. To best accomplish this the following essentials must be considered: The plan of the house, the exposure of its rooms, whether it is to be a town or country house and the needs of its occupants.

We will consider in this discussion some of the essential principles concerned in the furnishing of a moderate sized home, presumably located in a small town or in the country.

Perhaps there is nothing which unconsciously causes more discomfort and irritation than a wrong use and combination of color. The eye is a nerve organ easily irritated by color and its irritation affects the whole body. For example, perhaps there is some room in your home which does not suit you. It seems too dark or close or perhaps you cannot ascribe a reason to your feeling. Is it not perhaps the color or combination of colors which to you are irritating? Or perhaps it is bad arrangement of furnishings. To use such conditions as a point of discussion. The exposure of the room, whether it is north, east, south, etc., should decide the color to be used on walls and floor. A north room which is always rather dark, should be finished in bright, warm colors. Rose pinks, lemon yellow and yellow tans with brown as the contrasting color are very good. The floor coverings should be much darker than the walls and the ceiling must be much lighter than either. A bit of brightness should be used in the furnishings, if possible. Such a room costs no more than one finished in dark, somber tones

and will be a room pleasant to live in. If the room has a south or easterly exposure, the colors used can be cooler to offset the bright light from without. Soft blues, pleasing grays and gray greens are especially good. Gray green is a very suitable color for a living room as it has a very restful effect upon the eye. Brown, which combines well with green, can be used to good advantage in the furnishings. Plain walls make a better background than walls covered with figures which in wall papers are often large and ugly. Cartridge paper, calcimine and alabastine shades or paint are safe wall coverings. Many of the calcimine and alabastine colors come in packages in powder form and should be mixed with water until desired shade is obtained; this can be tested by trying on a clean board and allowing it to dry. These shades come at 50 cents per package. The average cost of a room would be from \$1.50 to \$2.00. Alabastine shades are preferable to calcimine. Paint is often used and has the advantage of being washable.

The kitchen, the most important room in the house, because the housewife must spend so much of her time there, should be made as bright and cheery as possible, giving the idea of absolute cleanliness. White or blue and white are best for walls. Calcimine or alabastine shades, paint and oil paper are all used. They are cheap finished. Oil cloth paper can be washed and makes a most satisfactory covering.

Bedrooms should be treated with much brighter colors than other rooms of the house. The exposure must be considered, but light shades of cool colors are used even in very bright rooms. Light grays with rose color make a very interesting combination for easterly rooms. Inexpensive cretonnes, dotted muslins, scrims and pretty lawns can be used for curtains. Avoid cheap lace, such curtains can spoil an otherwise delightful room. Light pinks, blues, yellows, lavenders, greens and rose colors are also pretty bedroom colors. Dark and ugly furniture can be transformed by white paint or enamel. Advertisements of enamels can be found in any of the magazines. They are not expensive and can be applied at home. There is absolutely no economy or sanitary value in dark ugly furnishings. Brightness and cheer are just as cheap and much more pleasant to live with.

Now as to furniture. Every piece should give the idea of simplicity, comfort and beauty. Mission and craftsmen styles are very good as they combine the good qualities of beauty, simplicity, comfort and economy. A post card to any reputable furniture house advertised in magazines will bring a catalogue.



No. 3748—Girls' Sailor Dress. The sailor dress is a favorite with all girls. No style is more practical for school wear. This style closes at the front in duchess style and the skirt is attached to an underwaist having shield facing. Cut in sizes 6, 8, 10 and 12 years. For 8 years it requires 3 3/4 yards of 44-inch material, 5 1/4 yards of braid. Price of pattern, 10 cents.

No. 5429—A Plain Shirtwaist. The waist pictured is of the utmost simplicity. The opening is in a band down the center of the front. In the back there is a yoke which extends across the shoulders and a little over the front of the waist. The neck is finished with a band and a collar or a stock may be worn with it. The sleeves have very little fullness at the shoulder and are finished with a plain cuff. The pattern, No. 5429, is cut in sizes 32 to 44 inches bust measure. Medium size requires 2 3/4 yards of 36-inch goods. Price of pattern, 10 cents.

**FERRY'S SEEDS**

The sower has no second chance. A good beginning is the only safe rule; put your faith in the best seeds you can buy. Ferry's have had the highest reputation for over 50 years. For sale everywhere.

1913 Catalogue free on request.

**D. M. FERRY & CO., Detroit, Michigan.**

**75 Bu. of Corn On Every Acre**

That's what many farmers are getting. That's what you can get. The secret of it all is good seed corn. The sure way, the safe way, the right way to get good seed corn is to test with

**HOLDER'S IDEAL TESTER**  
Pays big dividends to corn growers. It's the most perfect tester made. It's accurate. The increased crop from one acre will pay for a tester.

**Valuable Corn Book Free**  
Full of practical information, Tester facts and prices. Write National Seed Tester Co., 721 Locust St., Des Moines, Iowa.

**Big Demand for Speciosa Catalpa**

Grows tall and straight, makes big timber 80 feet high. Don't compare it with common Catalpa, a worthless tree. A paying crop. Write for special book on Pure Speciosa Catalpa. Fully illustrated—FREE.

**The Winfield Nursery Co., J. Moncrief, Pres., 229 Central Avenue, Winfield, Kansas.**

**BLACKBERRIES**

Prove moneymakers everywhere. They are a sure crop of easiest culture. Sell well on all markets because they make such fine preserves. Also delicious table fruit. Grow plenty of them! Never enough offered in any market.

**3 Strong Plants Post-paid 10c**

Mercer's Blackberries are extra hardy and drought resisting. Bear big crops when other sorts fail. Best blackberry bargain of the season.

**ELEGANT CATALOG FREE!**  
Faithful pictures and descriptions make the book worth having. Our business rests on the "square deal" principle. Investigate by sending for the catalog today!

**THE NATIONAL NURSERIES DEPT. 5 LAWRENCE, KAN.**

**Onion Seed**

**85c per lb. and up**

Write for FREE SAMPLES of our new crop onion seed; lowest wholesale prices, and Free Leaflet on onion culture. Catalog Free. All kinds of garden seeds at wholesale prices and freight prepaid.

**Henry Field Seed Co., Box 55, Shenandoah, Iowa.**

**TREES**

That Thrive and Pay from the Grower to the Planter

**AT WHOLESALE PRICES**

1913 Illustrated Fruit Book full of things you ought to know. It's FREE. Drop a card for it today.

**WICHITA NURSERY BOX K, WICHITA, KANSAS.**

**SEEDS BY MAIL FREE CATALOG**

We pay postage and guarantee the quality. Just send your name today for our money saving Catalogue of Field, Garden and Flower Seeds, Trees, Bulbs, Plants and Poultry Supplies. Our "Dependable" grades are best obtainable. **SPECIALY SELECTED DRY FARMING SEEDS WRITE TODAY.**

**COLORADO SEED AND NURSERY CO. 1525 Champa Street, DENVER, COLORADO.**

# HORTICULTURE



## About the Flowers and Garden.

BY L. H. COBB.  
If you want some early pansies plant the seed in February.  
Look over your catalogue now and get your mind made up as to your flower garden. Plan it and plant to your plans, and keep tab on the results. You will know, then, what to do and what not to do next year.

Don't wait until you want your seeds before buying. Get them ready, it may mean the difference between success and failure.

Plant your flowers with due regard to size and color, also shape of plant, else your garden will be a brilliant weed patch.

Most annuals should be planted rather early, especially alyssum, poppies, sweet peas, candy tuft, rose moss, or portulaca, philox, and petunias. Most of the hardier annuals will self-sow and such should be sown early.

Playcodon, sometimes called the bush clematis, also Chinese Bell Flower, is a hardy perennial that deserves more general planting. Comes in blue and white, both fine. A persistent bloomer and very robust. Perfectly hardy.

When you order your bulbs for spring planting, do not fail to include a supply of gladioli. For ease of culture, variety of color and value for cutting no garden flower excels them. The bulbs are cheap, increase rapidly and can be wintered with no trouble by drying when dug and putting away in paper sacks where they will not freeze.

## Fruit Growers' Conference.

During the conference of fruit growers during the week of farmers' institute at Manhattan, fruit growers' problems were discussed and plans were made to perfect an organization to work through the Agricultural College to improve the market conditions for horticultural products.

Prof. Dickens, in his remarks, told of instances where the dealers were discriminating against home growers who had as good fruit to sell as was being shipped in from other states. It seemed to him that these growers had an equal right to complain with the dealers who complain of catalogue houses. Other growers from the larger towns reported that much western fruit is being shipped into these cities and that while the low fall price was being paid the local growers, the foreign fruit and the locally grown fruit is being sold to the consumers at the same price. It was suggested that the College make an effort to educate the consumers to the fact that Kansas fruit has nothing to lose in comparison with fruits coming from other states.

Mr. Greene of the Extension Division was called on to report the work done by that division through him in hunting for markets for growers this fall. The work was reviewed from the first and Mr. Greene reported that something over 1300 cars of apples were listed with the Extension Division this fall. He showed how even a little publicity could not help but bring results. He suggested that the growers in the future follow up the work done by the College in advertising Kansas fruits. He also requested that all growers be very prompt to answer queries sent out by the college in regard to fruit conditions, yields, acreage, etc.

One manager of a large commercial orchard said he believed in any sort of publicity that would bring in results, but added that there is not a newspaper in Kansas loyal enough to Kansas to show the same interest in fruit growing and general horticultural information to the same extent as to advertising and exploiting products that are of less value to the state.

Mr. Wickham, a prominent grower of the southwest, in a short talk said that it seemed to him that one of the greatest troubles has been that too many men have planted orchards on sites and soils totally unadapted to the growing of fruit, and called attention to one orchard that is now at the bearing age—being grubbed out because half of the trees are dead. He said that under favorable conditions and care, orchards in Kansas will do as well or better than those in the much advertised West. "In the West, it is a problem of win or lose." In Kansas, where we have such

a varied agriculture, we leave too much to chance. "The College is doing much for the grower, and it is strange that men will go ahead and put out a crop that they know nothing about, when they can secure College help, with no expense, that would in many cases save not only the loss of the crops of fruit expected, but the income from the land for all those years as well.

Professor Dickens of the Department of Horticulture, and Mr. Greene of the Extension Division, both assured the growers that their departments were planning to do as much demonstration work as possible with the funds at hand.

The display of apples was the best ever shown at the College. This display consisted of over 200 plates of apples, many plates of pears and some boxed stuff as well. The College has decided to use every effort to make the display bigger and better each year and to bring the growers together and show them that the Agricultural College desires to give them every possible help. Fruit growers are urged to begin now to prune and thin to grow the best of display fruits for next year.

## Mrs. Kotsch Grows Fruit.

One Kansas woman, at least, did not depend on her husband for Christmas spending money. Mrs. Frank Kotsch, of Troy, manager of the Frank Kotsch fruit farm, cleared \$7564.80 this year from 25 acres of apples and 18 acres of berries. The gross receipts for the products of the 43 acres were more than \$12,000, but \$1753 was paid for help in picking and marketing the berry crop, and \$2597.75 went to the men she hired to pick, pack and market the 3,995 barrels of apples. Also, \$212.83 was spent for spraying the orchard four times, for Mrs. Kotsch believes in spraying—now. And thereby is suspended a tale.

Frank Kotsch is treasurer of Doniphan county, and, therefore, hasn't much time to give to the science of fruit growing. So Mrs. Kotsch, for the last two or three years, has been in charge of the fruit farm. She is the general manager; he the advisory board. Two years ago the general manager looked at her crop of wormy, scrawny and scabby apples and decided to cut out the entire orchard. Insects and apple diseases were so strongly entrenched that the orchard looked hopeless. It had never been sprayed. "Chop them out," said the general manager. "We'll plant this ground to small fruits."

But the death sentence on those 1000 trees was never carried out. An entomologist from the Kansas Agricultural College, hearing of the "Shoot-at-sunrise" order, hastened to the Kotsch farm and pleaded for the lives of the trees. The orchard was ill, he said. All it needed was spray, and lots of it. With her permission he would spray the orchard himself and prove his statement. She agreed. But frost killed most of the buds the next year—1911—so the yield was small, though at that the profits that year were more than the year previous which had been a good year for fruit.

In 1912 the college man again took charge of the spraying in the Kotsch orchard. This orchard was one of eighteen in which the college conducted spraying tests. The 1000 trees were sprayed four times with arsenate of lead and lime-sulphur. The result was a crop of big red apples such as never before had been seen on the Kotsch farm. The gross receipts were \$8,070.50 as against \$1969 in 1910, which was a good year for fruit. There were 20 cars of "ones"—the fancy grade—this year. In 1910 only two cars of "ones" were harvested. The Kotschs accepted the proof with thanks. Science, they agree, is quite wonderful.

## Just Decision.

By a recent decision of the Appellate Division of the Supreme Court of New York, it has been ordered that oleomargarine makers must not use artificial coloring. Neither may they use ingredients which will give a color to their stuff resembling butter. That is a most righteous decision, for by the use of ingredients the oleo makers have long been able to escape the injunction of law against artificial coloring and so could impose their cheat on the buyer as butter.—Hoard's Dairyman.



## When Hog Cholera Rages It's a Fine Thing to Know YOUR Hogs Are Safe

Next time you read in your paper about an epidemic of hog cholera, how it is killing off hogs like flies and causing the loss of thousands and thousands of dollars, and you are beginning to wonder where it's going to break out next, just remember this: You can assure the safety of your hogs by taking this inexpensive precaution—go to your dealer and get a few cans of

## Merry War Powdered Lye

Mix it with the hog's feed or drinking water according to the directions printed on the label and feed it twice every day. This treatment has prevented hogs from catching cholera, even though raging right in the neighborhood. It has been proved time and time again. Here is just one example among hundreds of similar ones:

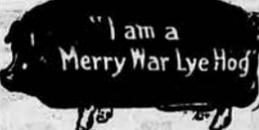
"We have had hog cholera all through our district. Those who have been using Merry War Powdered Lye have missed it. One man in particular who buys it by the case has cholera all around him, but so far his hogs have escaped." C. M. COOPER, Prop., "The Right Place," Dawson, Nebraska.

## There Are No Substitutes

Don't experiment with an old-fashioned, ordinary lye. Get MERRY WAR POWDERED LYE—the time-tested remedy—the specially prepared lye that is safe to feed to hogs—that actual experience has proved to be the safest, most dependable preventive of hog cholera the world has ever known. Insist on the genuine and refuse substitutes.

Costs only 10c a can—enough to protect a hog from cholera, keep him free from worms and make him strong, healthy and on his feet for two months. Tones up digestion and prevents food waste by changing every pound into firm flesh and juicy fat. Produces the kind of hogs that bring top notch prices. At the price of 5c per month, per hog you insure against sickness and greatly increase the size of your hogs.

Make a test for yourself. MERRY WAR POWDERED LYE comes in 10c cans (120 feeds per can). It is convenient to buy in case lots—4 dozen cans for \$4.50 at grocers, druggists or feed dealers everywhere. There are no substitutes. WE WILL SUPPLY YOU DIRECT 25c for 4 dozen cans —IF YOUR DEALERS WON'T SUPPLY YOU. Write for our valuable booklet "How To Get The Biggest Profits From Hog Raising." Sent FREE for the asking.



Which Kind Do You Want?  
**E. MYERS LYE CO.**  
Dept 12 St. Louis, Mo.



# Mimbres Valley of New Mexico



This is no ordinary irrigation proposition.

No. 1

best climate. The irrigation systems here are personally owned pumping plants, costing less than half what a Government or corporation controlled water right costs elsewhere, and making each man master of his own water supply; getting water just when needed and just as much as needed. This water is the purest in America and its source is inexhaustible. The land here is level, easily worked silt soil, free from harmful alkalis and wonderfully productive. The markets here offer the very highest prices. The section in which

its the best kind of irrigation, plus the best soil, the best markets and the best pumping plants, are personally owned pumping plants, costing less than half what a Government or corporation controlled water right costs elsewhere, and making each man master of his own water supply; getting water just when needed and just as much as needed. This water is the purest in America and its source is inexhaustible. The land here is level, easily worked silt soil, free from harmful alkalis and wonderfully productive. The markets here offer the very highest prices. The section in which

## Deming, New Mexico

is located is surrounded by vast mining districts which are entirely dependent upon Mimbres Valley for farm produce. Farm products here will always get highest price because there is no other nearby land suitable for agriculture.

The health-bringing climate here is famous the country over. Its pure, dry air and sunshine, work wonder cures. It not only offers a long-growing season and lowers the expenses of farming, but it offers an opportunity to gain health while making more money.

Picture No. 1 shows an irrigation plant supplying 1400 gallons per minute. Good irrigable land can be bought here now at \$5 to \$20 per acre and equipped with such a plant at a total cost of about \$30 per acre. That's much less than you'd have to pay for irrigated land elsewhere.

Picture No. 2 shows alfalfa harvest on John Hund's farm. Mr. Hund says alfalfa turned off six tons this year, which sold for \$15 per ton—or \$90 per acre! My bean crop made 1200 lbs per acre, selling at \$6.25 per hundred or \$75 per acre. Your investment of \$30 per acre here could bring you such returns as Mr. Hund gets! Prices of land here are low only because it was just three years ago that the great agricul-

tural wealth of this section was known. Yet this section has all the advantages of a well settled place, because it has been built up by mining and railroad industries. Deming is the metropolis of Mimbres Valley; splendid city of 8000, with fine grammar and high schools, electric light, water and sewer system, paved streets, etc.—as fine a town as you've seen, and good local market.

## We don't sell land!

this organization is a body of farmers and business folks who feel so sure that this section can't be beat that they are spending money to sell you so confident that YOU'LL want to live and farm here when you find out about the opportunity and the great advantages for you here.

Please send me free book and details about Deming and the Mimbres Valley.

Name \_\_\_\_\_

Address \_\_\_\_\_

Write Secretary, 103 Chamber of Commerce, Deming, New Mexico

## DES MOINES SILO

## Built for Permanence First Cost Is the Last Cost.

Cresote dipping adds, according to Government reports, 17 to 20 years of life to the Silo. That is the reason the Des Moines Silo is dipped in cresote. A special dipping plant was built at great cost to add this feature to the already superior construction of the Des Moines Silo.

The cresote penetrates into the wood covering every crack and going deep—making the wood absolutely impervious to moisture, thus preventing rot and in a large measure overcoming the shrinkage and swelling due to changing atmospheric condition. It is never necessary to paint the Des Moines.

Des Moines Silos are equipped with spring lugs that overcome the last possibility of the hoops becoming loose. The Des Moines Triple Anchor System and three inside hoops are the best in the world. Positive insurance against damage by wind. Other buildings may go but the Des Moines Silo will stand. The story of the Des Moines Silo is told in a book that will be sent free.

**DES MOINES SILO & MFG. COMPANY**  
501 New York Avenue Des Moines, Iowa.



MENTION KANSAS FARMER WHEN YOU WRITE

# STARK TREES - Best For Over 100 Years

Four generations of fruit tree growing experience, boiled down, is ready for you absolutely free of charge. Don't experiment with fruit trees of unknown productiveness, uncertain quality. Stark Trees always pay big. The secret is in Stark Brothers' perfect method of growing, transplanting, packing and shipping.

## 50 Years Ahead of Any Other Nursery in America

Why don't you take advantage of our Special Service Department? All Advice Free to You. We send you free the best scientific methods of preparing your soil for biggest profits; show you how to prune your trees, give you best methods of Stark cultivation; how to spray the Stark way. We make your orchard a winner and a big money maker. Write us at once for Stark Year Book, complete fruit tree literature and statistics. Write today.

**STARK BROS. NURSERIES & ORCHARDS CO., R. F. No. 29, LOUISIANA, MO.**  
A Record of One Hundred Honorable Successful Years in Business





**Good Crops of Oats were Formerly the Rule; Now a Good Crop is the Exception.**

One reason is starvation—the lack of the right kinds of plant food in the right form, available at the right time. The result is weak plants that grow slowly, yield light, chaffy grain and fall an easy prey to rust, blight and insects.

# POTASH



has been shown to greatly decrease the liability of the small grains to attacks of rust, as well as lodging because of weak straw. Be sure that your oats fertilizer contains 5 to 8 per cent Potash. Ask your dealer to carry such brands, or Potash Salts, to enable you to bring the brands up to this standard:

*If he will not, we will sell you Potash on any amount from a 200 pound bag up. Write for prices and for free book on fertilizer formulas and how to adjust them.*

**GERMANKALI WORKS, INC.**  
New York: 42 Broadway Chicago: Monastueck Block  
New Orleans: Whitney Central Bank Building  
Savannah: Bank & Trust Bldg. Atlanta: Empire Bldg.

# YOURS

**Yes Sir—5 to 10 \$5 bills—your saving on a genuine Galloway Spreader. Why pay a big price for a spreader that can't approach a Galloway for quality? I am a manufacturer and can dictate my own prices. That's how I can save you \$25 to \$50 and give you a spreader that for quality no dealer on earth 30 to 50 can beat—equipped with Mandt's New Gear—a masterpiece of construction. Get my latest offer. Write me Today**

**FREE**  
"A Streak of Gold"  
The greatest piece of literature ever written on the value of manure. Send for your copy today. It couldn't be worth more to you if you paid \$10 for it. Plain facts written by the great soil experts and thousands of successful farmers. Why not learn absolutely free how you can turn your manure pile into gold dollars? Send now for my special 1913 proposition and price—it's FREE. Wm. Galloway, Pres., THE Wm. GALLOWAY COMPANY 2550 Galloway Station WATERLOO, IA. Easy to Load

Remember: We carry stocks at Kansas City, Council Bluffs, St. Paul and Chicago, insuring prompt shipments.

## What Do You Consider a Good Investment?

Eight per cent would be called good returns. Do you realize that owning your own scale and doing your own weighing will easily make 100% returns? Not in rare cases but frequently farmers who own

### Fairbanks Scales

find the scales pay for themselves in a single season. They will yield just as good returns for you if you sell much produce or stock.

Until you have your own scale you must always wonder if you got full weight for what you sold or paid too much for what you bought; whether your stock is gaining properly, etc.

Buying Fairbanks Scales is in the highest sense an investment because you only buy once. Scales installed over 60 years are still in service and weighing correctly.

Scales for all farm purposes are described in Catalog No. SR398

**Fairbanks, Morse & Co.** Chicago  
St. Louis  
Omaha

Wagon and Portable Scales, Gasoline Engines, Pumps, Water Systems, Electric Light Plants, Windmills, Food Grinders

Write for a copy. Kansas City  
Omaha

## Great Family Combination Offer

### KANSAS FARMER—

The cleanest and most practical agricultural paper in the Southwest. Contains departments for every branch of farming and stock raising. No fake medical or objectionable advertising accepted.

### THE YOUTHS COMPANION—

The best of stories, articles by famous men and women, athletics for boys, profitable occupations for girls, domestic helps and economies—something for every member of the family.

We do not know of any family weekly that we can more heartily recommend to our readers than The Youth's Companion. It gives us pleasure, therefore, to announce that we have arranged with the publishers to make the following offer:

**The Kansas Farmer . . . Regular \$1 } Both Papers  
The Youth's Companion Price \$2 } Together Until \$2.50  
January, 1914,**

All the remaining issues of this year and the 52 issues of each paper for 1913 will be sent on all orders received now. Subscriptions may be new or renewal to either paper.

Orders must be addressed to  
**SUBSCRIPTION DEPARTMENT KANSAS FARMER, TOPEKA, KAN.**

**You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.**

# KANSAS STATE GRANGE

Master's Address, By George Black, Olathe, Kan.

**T**HE Grange during the 46 years of its existence has accomplished a series of great results for the American farmer and the rural communities of the country are enjoying today the fruit of the thought and labor of this great organization.

I am fearful that the Grange membership, especially those who have grown gray in the service of the Grange, are inclined too much to point with pride to the record of the past and neglect the present. The present and the future are all with which we have to deal.

"The general public," the ones who criticize the actions of the world, is watching the actions of the Grange with interest. Results are what count and the general public is watching to ascertain if the Grange is living up to the tenets as recorded in the Grange platform.

We are now in annual session to review the past year, to hear the officers' reports, and the reports from the several Grange localities, and to ascertain if the results of the year come up to the standard and to make arrangements for the work of the coming year.

**CONDITION OF THE ORDER.**  
I am pleased to report another prosperous year for the farmers of Kansas, as well as a prosperous Grange year. The condition of the order in Kansas is certainly very encouraging. The inspection reports sent to the master's office by the deputies show that the subordinate Granges are working pretty well up to the standard. We will have to make exception, however, in the cases of some of the new Granges and some of the old ones, and that is in regard to conferring degrees not in full form. I am not surprised at this, however, as it is difficult to accomplish good ritualistic work in a school house where the sea's are screwed to the floor and the arrangement of the furniture is unsatisfactory. It would be to the best interests of each subordinate Grange in the state to have a home of its own, completely equipped for all necessary purposes.

When you took me from the secretary's office six years ago and placed me in the master's chair, we had 78 Granges with 4,904 members. Today we have 148 Granges and between 10,000 and 11,000 members. During the past two years the extension work in this state was conducted under special organizers and deputies in co-operation with the National Grange, in which the National Grange paid one-half of the expense and the State Grange the other half, and under this plan there was organized 22 subordinate Granges from November, 1911, to November, 1912. I would recommend this form of extension work, as it has proven the most satisfactory. The worthy secretary will give the report in detail.

The Grange, for years, has stood for direct election of United States senators by the people. The National Congress has adopted an amendment to the constitution of the United States, providing for the election of United States senators by the direct vote of the people, and since said amendment must be ratified by the legislatures of the several states before it can become effective, the National Grange by resolution recommended that the matter be brought to the attention of all the State Granges at their annual meetings, by the masters thereof, and that such action be taken by the State Granges as will influence most favorably the votes of the state legislatures on such amendment. As master of the Kansas State Grange I would most respectfully recommend that this body take the desired action as asked for by the National Grange.

The great question of co-operation is attracting general attention. It seemed to attract the attention of the National Grange this year to a greater extent than ever before. The worthy master of the National Grange in his address sounded the keynote for the National Grange at this session. He says, "Co-operation is the underlying principle of the Grange. If the National Grange ever accomplished for its membership what it should and I believe will accomplish, it will work out and put into active operation a practical system of financial co-operation that will benefit not only the producer, but the consumer as well." The National Grange is a very conservative body and will not take any chances in establishing co-operative schemes of a national scope, although they took steps looking toward establishing a bureau of information in the office of the secretary of the National Grange.

The executive committee of the Kansas State Grange has not been successful

in establishing a system of co-operation for the purchase of supplies for the farm and home, although this is the second year of their work. Systems of this kind are in a working condition in several other states, that meet the wants of the membership and can be made the same here. In working out a system of the kind it takes some time and some money for traveling expenses, which has never been provided for by the State Grange, and I presume that is one reason why no definite action has been taken. If there is ever anything accomplished in the way of purchasing supplies and in the sale of farm products in a co-operative way, the committee that has the matter in charge, in working out a plan of co-operation, must have something else than resolutions to assist them in their work. In the matter of purchasing supplies, I am convinced that the Grange can successfully work on that line alone, but in the matter of handling farm products I would recommend that the Grange extend their co-operative hand to all farm organizations and do not stop there but extend the same co-operative hand to the consumers of their farm products. Induce them, by all legitimate means, to interest them in your system of co-operation, and when once interested and understood the battle is nearly won, the high cost of living eliminated, and the producer and the consumer brought together.

Opportunity is knocking at the door of the agriculturist now. The great body of consumers are growing more numerous every year, while that of the agriculturist is growing less, and the great problem of the future is not of a partisan or political nature, but of a hungry people to be fed within their means. This is the golden opportunity. Prepare for it now, and at the same time assist the consumer by a successful system of mutual co-operation.

At the last session of congress a bill was introduced, known as the Lever bill, to secure the repeal of the tax of 10 cents per pound, which is imposed on artificial compounds colored to resemble butter. This bill is very objectionable to the dairymen and farmers of the country in that it is so worded as to raise a serious question in regard to its interpretation by the courts. It is further objectionable to the producer of dairy products in that it removes all restrictions as to the coloring of products intended as substitutes for butter. It leaves the manufacturer free to so color them as to deceive the consumer. This bill was postponed to this session of congress. A new bill will be offered which provides that oleomargarine—or "margarine," as it is proposed to call all butter substitutes—shall be colored not above a tint containing 55 per cent of white. The new bill continues the present law as to the control of the products by states.

The Grange is not opposed to the manufacture of margarine, as they consider the product legitimate, but they are opposed to it being placed on the market as butter. Therefore all members of the Grange are requested to insist on their representatives and senators voting for the new bill looking to the control of the manufacture and marketing of "margarine."

**IN CONCLUSION.**  
In concluding this address, I consider it my duty as well as a great pleasure to tender to the delegates of the Kansas State Grange and the rank and file of the order in Kansas, my sincere thanks for the implicit confidence and loyal support you have given me during a long term of service, and in exchange for this I have given you the best there is in me. I presume that many of you have given no thought to this matter, and even do not know that I have been officially connected with the Kansas State Grange for 32 years. Twenty-six years of this time I served you as secretary, and now I am closing a six-year term as master. I surely ought to feel grateful to you for the continued confidence and the great honor conferred in this long term of service, and I can assure you that I appreciate it.

I realize the fact that the time will never come when the American farmer will not need the Grange, and it behooves this body to take from your ranks men and women who have the ability to become leaders, and not only the ability but disposition and desire to lead this organization on to greater victories than has ever been known in its history. I know of no greater boon and no greater favor than that you give to my successor the same loyal confidence and support that you have given to me.

# Classified Advertising

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your advertisement here reaches over 300,000 readers for 4 cents a word for one week; 8 cents a word for two weeks; 12 cents a word for three weeks; 14 cents a word for four weeks. Additional weeks after four weeks, the rate is 3 1/2 cents a word per week. No "ad" taken for less than 50 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order.

**SITUATIONS WANTED** ads, up to 25 words, including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

## HELP WANTED.

**WANTED—MEN IN EVERY TOWN IN Mo., Kan., Ill., Neb., Okla., Ark.,** to take orders for nursery stock. Outfit free. Cash weekly. National Nurseries, Lawrence, Kan.

**WANTED—RAILWAY MAIL CLERKS.** Many needed for parcels post. Entrance salary now \$75, rapid promotions. Write Ozment, 44 R., St. Louis.

**SALESMEN WANTED—FULL OR PART time** as you prefer. Work small town or country. The Lawrence Nurseries, Route 8, Lawrence, Kan.

**MEN AND WOMEN WANTED FOR GOVERNMENT positions;** \$90 month. Thousands of parcels post positions open. Annual vacations. No "layoffs." Common education sufficient. Influence unnecessary. Farmers eligible. Send postal immediately for free list of positions open. Franklin Institute, Dept. K85, Rochester, N. Y.

**FREE ILLUSTRATED BOOK TELLS** about over 360,000 protected positions in U. S. service. More than 40,000 vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Easy to get. Just ask for booklet A-809. No obligation. Earl Hopkins, Washington, D. C.

**YOUNG MAN, WOULD YOU ACCEPT** and wear a fine tailor made suit just for showing it to your friends? Or a Slip-on Raincoat free? Could you use \$5 a day for a little spare time? Perhaps we can offer you a steady job. Write at once and get beautiful samples, styles and this wonderful offer. Banner Tailoring Co., Dept. 88, Chicago.

**SALESMEN—TO SELL HIGH GRADE** guaranteed groceries at wholesale direct to farmers, ranchmen and all consumers. Earn \$4 to \$10 and up per day. A big chance to get into business for yourself. Save the buyers the retailer's profit. Every customer is a permanent one. Demand constantly increasing. Latest plan. K. F. Hitchcock Hill Co., Chicago.

## CATTLE.

**FOR SALE—REGISTERED GUERNSEY** bulls. John Bogner, Mount Hope, Kan.

**FOR SALE—TWO CHOICE REGISTERED** Jersey bulls. Idylwild Stock Farm, Glasco, Kan.

**FOR SALE OR EXCHANGE—TWO REG-** istered Red Polled bull calves and herd bull. P. J. Murta, Cuba, Mo.

**FOR SALE—PURE-BRED JERSEY BULL** calves at farmers' prices. M. M. Sweetman, Room 316 American Bank Bldg., Kansas City, Mo.

**FOR SALE—EIGHT JERSEY BULL** calves, some from high-producing dams, ready to use. Chester Thomas, Waterville, Kan.

When writing advertisers, please mention Kansas Farmer.

**FOR SALE—REGISTERED GUERNSEY** bull, three years old. Well bred. Nicely marked. Price, \$100. E. A. Drumm, Cedar Vale, Kan.

**FOR SALE—AN ENTIRE DAIRY HERD** of 40 cows, Jerseys, Guernseys and Holsteins; all young, with milk records. Will sell reasonable. Satisfaction guaranteed. Jack Hammel, 215 Adams St., Topeka, Kan.

**FOR SALE—30 HEAD OF REGISTERED** Guernsey females and 8 May Rose bulls, 5 of them ready for service. Wilcox & Stubbs Co., Des Moines, Iowa.

**FOR SALE—REGISTERED JERSEY** cattle, Berkshire hogs, Bourbon Red turkeys and Buff Rock chickens. C. S. Hart & Sons, Milan, Mo.

**PURE-BRED GUERNSEY MALE CALF,** dropped October 6, 1912. Nicely marked, sired by Island Count, formerly used by the Nebraska Experiment Station. Fred Willie, Columbus, Neb.

**HOLSTEIN CALVES—SIX CHOICE HOL-** stein heifers and one bull, fifteen-sixteenths pure, three to four weeks old. \$20 each, crated for shipment anywhere. All nicely marked and from heavy milkers. Edgewood Farm, Whitewater, Kan.

**FOR SALE—TWENTY-FIVE No. 1 DAIRY** cows, Jerseys, Holsteins and Guernseys; 3 1/2 to 6-gallon cows, 3 to 7 years old. Price, \$50 to \$80, or a special price for the herd. C. N. Himelburger, 405 Filmore St., Topeka, Kan.

## HORSES AND MULES.

**SHETLAND PONIES—WRITE FOR** prices. Charles Clemmons, Coffeyville, Kan.

**JACKS AND JENNETS OF SIZE AND** quality for sale. L. J. Wentz, Burlington, Kan.

**GOOD YOUNG JACKS READY FOR** service, \$300 to \$500. One Imp. 6-year-old Belgian. Write Bruce Saunders, Holton, Kansas.

**FOR SALE—SHETLAND PONIES,** Scotch Collie dogs, White Chinese geese and White Orpington cockerels. H. W. Littleton, Route 2, Harlan, Iowa.

**WANTED—PERCHERON FILLIES FOR** 320 acres of famous Portales Valley irrigable improved land. Price, \$8,000. Might consider other land or rental property. S. A. Crabb, Portales, New Mexico.

**FOR SALE—JACKS AND IMPORTED** stallions, \$200 to \$750. Great bargains. We are going to move and must sell by February 1. Come and see them. We mean business. Write, or call the White Land Co., Topeka, Kan., for particulars. Phone 1289, 627 Quincy Street.

## HOGS.

**TWENTY DAYS SPECIAL PRICES ON** Duroc Jerseys. Bred sows, gilts, open gilts and boars. R. E. Watson, Altoona, Kan.

**EXCELLENT DUROC JERSEY FALL** pigs. Cannot be registered. Prices low. Haworth Bros., Galena, Kan.

**REGISTERED HAMPSHIRE HOGS—** Have six boar pigs, six months old. Will Woodruff, Kinsley, Kan.

## REAL ESTATE.

**SELL YOUR PROPERTY QUICKLY FOR** cash, no matter where located. Particulars free. Real Estate Salesman Co., Dept. 77, Lincoln, Neb.

**CAREY ACT AND DEEDED IRRIGATED** lands, \$40 an acre; 8-year payments; unlimited water; fares refunded purchasers; excursions first and third Tuesdays; home-seekers' rates. Wyoming Development Co., Wheatland, Wyo.

**426 ACRES GOOD SMOOTH LAND, 150** acres bottom land; good water; two sets tenant houses; all under good fence; 200 acres in cultivation; 140 acres meadow, balance grass. Among the best stock farms in Oklahoma; four miles from Chickasha, a town of 12,000; 1 1/2 miles from a station on the Frisco. For sale at a bargain during this month. One-half cash, balance good terms, 6 per cent. Address Box 1067, Chickasha, Okla.

## SITUATION WANTED.

**WANT TO FARM ON SHARES WITH** everything furnished me. Experienced farmer and two boys. Can run team. Best of reference. Apply Box 244, Erie, Kan.

## MISCELLANEOUS.

**GIRLS, DO YOU LOVE FLOWERS?** Send us a post card and get a packet choice pansy seed free. We want to tell you something. Cobb & Bobbitt, Dunavant, Kan.

**WANTED—TO BUY PURE-BRED SHET-** land pony. Must be safe for children and not over six or under two years old. Address with full description and photograph if possible, Box 368, Topeka, Kan.

**LUMBER—ENORMOUS SAVING IN BUY-** ing direct from mill. Send list of material for estimate. Write today for catalog number 48. Keystone Lumber Company, Tacoma, Wash.

## DOGS.

**FOX TERRIER PUPS FROM GOOD** ratters. Males, \$3; females, \$2. A. D. Willem, Minneola, Kan.

**SCOTCH COLLIES, AIREDALE TER-** riers, puppies, broke male dogs, brood bitches broke and bred. Female puppies to let on shares. W. R. Watson, Box 128, Oakland, Iowa.

**HOUNDS WILL TRAIL AND RUN UN-** til holed or killed. Fox, Wolf, Coon, etc. pedigreed. Sent on 10 days' trial. R. F. Johnson, Assumption, Ill.

**FOR SALE—HIGH-CLASS HUNTING,** sporting, watch and pet dogs. Puppies of all varieties a specialty. On receipt of 10 cents we will mail highly descriptive illustrated catalog, which gives full information of 49 breeds of dogs, several breeds of cattle, sheep, swine, rabbits, ferrets. Price list of poultry and pigeons. C. Landis, Dept. 143, Reading, Pa.

## AUCTIONEERS.

**AUCTIONEERS.—WM. B. CARPENTER,** Real Estate Auctioneer, president Missouri Auction School, 1400 Grand, Kansas City, Mo.

## PATENTS

**PATENTS OBTAINED FOR \$25 FEE.** Booklet free. Harry Patton, 378 McGill bldg., Washington, D. C.

**SEND FOR FREE BOOKLET, ALL** About Patents and Their Cost. Shepherd & Campbell, Patent Attorneys, 500-R Victor Bldg., Washington, D. C.

## HONEY.

**CALIFORNIA HONEY, FREIGHT PRE-** paid anywhere on trial before paying. Three grades, 10 1/2c, 11 1/2c, 12 1/2c round. Sample 10c. Leaflet free. Agents wanted. Good profits, steady orders. Spencer Apiaries Co., Box 159, Nordhoff, Calif.

## POULTRY.

**POULTRY FEEDS AND SUPPLIES—** write D. O. Coe, Topeka.

## SEEDS AND PLANTS.

**I AM ALWAYS IN THE MARKET TO** buy high grade field seeds. D. O. Coe, Topeka.

**FOR SALE—RECLEANED ALFALFA** seed at \$8 per bushel. Send for free sample. L. C. Markley, Belle Plaine, Kan.

## TYPEWRITERS

**OLIVER VISIBLE TYPEWRITER FOR** sale cheap. Perfect condition and does nice writing. Could send on trial. Charley Rickart, Route 5, Rosedale, Kan.

## WANTED

**WILL BUY A SMALL FARM CLOSE TO** a good town or city with high school or college. Land must be all good and well improved and not over two miles out. Prefer from 20 to 40 acres. Will pay cash for same. Must have possession by March 1. August Jacob, Route 2, Ottawa, Kan.

## FIELD NOTES

Frank Buzard of St. Joseph, Mo., is offering a very fine Holstein bull calf for sale. This calf is six weeks old and is out of a dam that is milking 80 pounds now. His sire is backed by high records. Mr. Buzard is pricing this calf well worth the money for quick sale.

**Roy Johnston's Sale.** Roy Johnston, South Mound, Kan., advises that his big sale of Poland Chinas will be held in a warmed tent so that everybody will be comfortable. Remember the date, January 20, at South Mound, Kan., and be sure to be on hand or send a bid.

## Ziller for Seeds.

John D. Ziller, the old-time seed corn breeder, has issued his annual catalog and will send it to all parties interested in corn or anything else in the seed line. Mr. Ziller has recently installed several hundred dollars' worth of new machinery for the handling of his corn and has reduced his prices accordingly. Write him for catalog, mentioning Kansas Farmer.

## Poulton Sold Out.

I. W. Poulton, breeder of Red Polled cattle at Medora, Kan., writes that he is entirely sold out on Red Polled at present. He sold his herd bull last week and has nothing in Red Polled to offer. He has 80 very fine Rose Comb Rhode Island Red cockerels for sale, however, and he adds: "Kansas Farmer has done fine for us. I have sold out on cattle and my wife sold \$50 worth of chickens in 10 days through Kansas Farmer advertising."

## The Jack Dispersion.

The big dispersion sale of jacks and jennets will be held by A. E. Limerick and W. E. Bradford at Columbia, Mo., on February 6; will be an event of unusual importance. This is not an annual sale, but a dispersion sale of the big jacks and jennets of two of Boone County's best herds. Don't forget that the date is February 6; the place is Columbia, Mo.; the animals to be sold are genuine named jacks and jennets, and that the sale is a dispersion of two good herds. There will be bargain there.

## Morrison's Red Polls.

Charles Morrison & Son, owners of the Phillips County herd of Red Polled cattle at Phillipsburg, Kan., write: "Our herd is in fine condition. We have shipped to Arkansas, Oklahoma and Nebraska this fall and never had so many inquiries for bulls. We have a few young cows and heifers bred to Creom 22d and a nice bunch of yearling and two-year-old heifers for sale." Red Polls are gaining in favor every day.

## Cochrans Change Date.

C. G. Cochran & Son, the Shorthorn breeders of Plainville, Kan., have changed the date of their coming sale to February 24. This date gives them much more time for advertising the sale, getting out catalogs, etc. This sale will contain some of the best breeding Shorthorns that have been included in any Kansas sale in recent years. The sale will be held in Lamer's sale pavilion at Salina, Kan. Applications for catalogs may be made any time by writing and mentioning Kansas Farmer.

## Last Call for Long's Sale.

The attention of breeders is again called to the sale of James G. Long's Mastodon Poland Chinas to be held at Harlan, Iowa, January 24. Mr. Long will offer 66 head of bred sows of strictly big-type breeding. The offering will include tried sows by A. Wonder, fall and spring gilts by Mr. Long's two great herd boars, B Wonder by A. Wonder and Mastodon Leader by Mastodon Sign. A feature of the sale will be the great offering of tried sows that are among the famous big-type sows of the breed. If unable to attend, send bids to fieldman or auctioneers in care of Mr. Long and they will receive fair treatment.

## The Rock Brook Herd of Holsteins.

Henry C. Gilsman, Station B, Omaha, Neb., writes: "Rock Brook herd was established in 1885 by selections from the herds of Thomas B. Wales, and Smith, Powell and Lamb, the first great importers in America. The herd has been under the management of Henry C. Gilsman for the past 15 years, and until a few years ago was one of the strongest show herds in the central west. Our herd has at all times numbered around 100 head. Our herd bulls at present are among the best being sons of King of the Pontiacs and De Kol 2d's Butter Boy 3d, two of the greatest sires of the breed. Father wishes to retire from active operations on the farm, and so to make a fair settlement we decided to sell the entire herd at auction, nothing reserved but the herd bulls. I will restock the farm with cattle from my New York headquarters, where I have a large farm now. During the last year we have sold a lot of high-grade cattle to western dairymen, and on the second day of the sale we will sell 45 head of choice high-grade cows and heifers shipped out from the best dairy sections of the east especially for this sale. In this way there will be cattle for everybody, from the commercial milkman to the breeder of the highest class of registered stock. There are a number of the cows with A. R. O. records, and a lot of them with yearly milk records up to 17,000 pounds of milk and up to 700 pounds of butter. All the big breeding matrons that have made Rock Brook Farm famous in the past go into this sale, along with a lot of their daughters that carry a lot of the most fashionable blood of the breed. The bulls are an especially fine lot, and every one of them is backed by the best of A. R. O. records and breeding. In all the best lot ever sold anywhere in the central west. The herd will be continued under the same name, but will be owned by the younger H. C. Gilsman alone."

## Duroc Bred Sow Sale.

Among the really good offerings of Duroc bred sows this season will be the Golden Rule Stock Farm offering, Thursday, January 30. The offering will consist of 10 tried sows of proven quality, 30 fall yearlings reserved especially for this sale, and 5 spring gilts, all safe with pig to the three great herd boars now owned by this farm. Dreamland Col., the real head of this herd, is from the well known Geo. Stekman herd, and was sired by the great show and breeding boar, Waveland Col., and his dam was by the World's Fair champion Tip Top Nother. Dreamland Col. is ably assisted by L. C.'s Defender, by the great international champion Defender, and River Bend Col. by Muncie Chief. Bell K 2d, a two-year-old sow, is as fine a show prospect as can be found in the west, and is safe with pig by Dreamland Col., which mating should produce a show litter. There are so many good ones among the fall yearlings that it would be difficult to pick the best. A representative of Kansas Farmer visited this herd recently and was agreeably surprised at the size and quality of this offering. At

## Ladies' Leather Hand Bag

Necklace - Comb - Collar - Perfume



Special offer for limited time only. We must clear our stock of genuine American watches. While the stock lasts we will give to each lady purchaser of one of our beautifully engraved full jeweled American watches complete with handsome chain worth \$15.00, a beautiful leather hand bag worth \$4.50, a handsome Cutler pattern necklace, value \$3.75, elegant tortoise shell back comb, value \$2.50, handsome French Valenciennes pattern lace collar, value \$3.75—total value \$29.00—for only \$5.90. Goods shipped C. O. D. with privilege of examination. We take all the risk. Send no money. Just ask us to ship the goods and if they are satisfactory pay the express man \$5.90. Send your order today.

**CARROLL-CUTLER,**  
Dept. 85, 610 W. Madison St., Chicago.

## WE TEACH YOU

Learn to operate and repair automobiles. Training on vulcanizers, drill presses, lathes. Pattern making, moulding, brazing and driving. Free catalog. Lincoln Auto School, 2354 O St., Lincoln, Neb.

Need little attention and pay big profits. If you are interested in them send for a sample copy of Gleanings in Bee Culture. Also a bee supply catalog.

**THE A. I. ROOT CO.,**  
Box 220, Medina, Ohio.

## TOO LATE TO CLASSIFY

## PERCHERONS

**FOR SALE—Our imported Percheron** stallion, Lama 85204, weight 2,000; a fine breeder; one coming two-year-old Percheron with imported sire and dam; one extra good eight-year-old jack; a lot of extra good grade Percheron mares and geldings, and a lot of extra good mules from two to six years of age. Can match teams of horses, mares or mules.

**GRIGSBY & BARBER, Skidmore, Mo.**

## YES! We have the Best Belgians

Our winnings at two state fairs reveals this fact. Got 21 firsts, 3 seconds, 4 thirds, 6 grand championships, and 8 medals. Will guarantee and sell at very reasonable prices. Every statement guaranteed as represented.

**DAVID COOPER & SONS,**  
Freeport, Harper County, Kansas.

## HOLSTEINS

**FOR SALE—One fine Holstein bull calf,** 6 weeks old; dam milking 60 pounds now. Sired by bull backed by high records. Priced right for quick sale.

**FRANK BUZARD, St. Joseph, Missouri.**

## ROCKFORD BELL SHROPSHIRE

Thirty extra quality registered Shropshire ewes for sale. Sired by imported Buttar and Dakin rams. All safe with lamb to imported rams. Write.

**J. W. ELLIOTT, Polo, Missouri.**

## DUROC PIGS

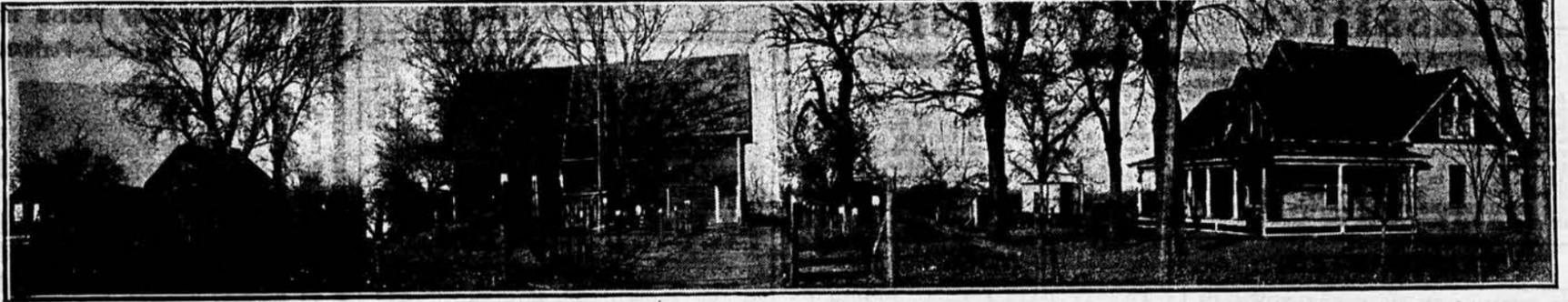
900. Model Again heads my herd.

**R. W. BALDWIN, Conway, Kansas.**

the same time six fall gilts open and five fall boars ready for service will be offered. These are extra nice pigs and should bring fancy prices. Everything offered has been thoroughly immunized and are cholera proof, which should add much to their value. Write for catalog and plan to attend this sale, as you can always get bargains here and everything is guaranteed to be as represented. J. R. Johnson will represent this paper and handle your bids if you cannot attend. For catalog address Leon Carter, Asherville, Kan.

## J. O. James' Big Orange Sale.

The attention of breeders of big-type Poland Chinas is called to the sale advertisement of J. O. James of Bradyville, Iowa, in this issue of Kansas Farmer. Mr. James is one of the progressive breeders of big-type Polands and breeding stock from his famous herd will be found in almost every good big-type herd in the corn belt. This year Mr. James will sell his greatest offering of big-type bred sows and in former sales he has sold some of the best offerings of the breed. His offering on February 7, 1913, will consist of tried sows sired by such boars as Big Sensation, Pawnee Lad, Big Ex, Big Hadley and Long King, and a number of them are bred to the great boar, Big Orange; some to Gritter's Best and some to Ott's Big Orange, one of the best yearling boars in service today. Ott's Big Orange is conceded by all critics to be one of the greatest yearling boars of the breed. A feature of this sale will be 25 head, mostly fall gilts, sired by Big Orange and bred to the great boar, Big Sensation. This offering of Big Orange gilts is one that for size, quality and breeding cannot fail to interest breeders wanting gilts that are right in every way. Every tried sow and gilt to go in this sale carries the best big-type blood of the breed, and as individuals they have the size and quality that make the prize winners. Send for catalog at once and arrange to attend the big-type sale of the season. Please mention Kansas Farmer when writing.



## "WEST RIVERSIDE STOCK FARM" WILL BE SOLD AT AUCTION, JAN. 22

It is located about 65 miles west of Wichita, Kan., in eastern Harper County. It contains 160 acres: 145 acres best alfalfa bottom land, rich, deep soil; 50 acres growing wheat; 30 acres alfalfa; 15 acres pasture, balance for spring crop. Well watered by living stream. plenty native shade for stock, fenced and cross-fenced hog-tight. This farm is in high state of cultivation and produces immense crops. One mile to school, 1 1/2 mile to grain elevator, 4 miles to market. If you are in the market for a highly improved farm, you cannot afford to overlook this proposition. I am leaving the country, and will make my future home in Kentucky, and must sell this farm in order to close a deal there. No by-bidding here. I absolutely guarantee everything strictly on the square. All stock and implements sold after the farm, giving the purchaser a chance to restock the farm at once if desired. I will also sell on the same date my fine herd of Durocs—30 bred sows and gilts, 20 fall and summer males and gilts. Twenty-five head of the sows are bred to the great breeding boar, Graduate Col. 28279a. Terms, half down, balance time if desired. Send for catalog. Remember the date. **H. E. FISHER, OWNER, DANVILLE, HARPER CO., KANSAS.**

## BARGAINS IN LAND

Write New Home Land Co., Springfield, Mo., for lists of farm lands.

**FIFTY JACKSON CO. FARMS**—The never falling part of Kansas. Well improved, \$75 per a. and pu. Wm. Harrison, Whiting, Kan.

**BARGAINS** in Ness County land, large and small tracts. Write now for lists and literature. C. H. Brassfield, Ness City, Kan.

**CORN, WHEAT AND ALFALFA LANDS** and stock ranches, \$10 to \$15. Also city property. Winona Land Co., Winona, Kan.

**For Rent, Sale or Trade**—Good land in Missouri, Oklahoma, Texas. Also young stallion and farm implements. C. IFLAND, Mooreland, Okla.

Nine stone apartment houses within two blocks of postoffice, modern, bringing an income of \$1,632.00 per year. Will sell at bargain. For particulars write **HARRY PIERCE, Junction City, Kansas.**

**OUR RED LETTER SPECIAL.** Will trade your property. Get into touch with live wires. Guaranteed deal. List today. Write for particulars. **MID-WEST REALTY EXCHANGE, Riverton, Nebr.**

**FOR SALE**—240 and 320, close in; hard soil, gently rolling, suitable for alfalfa, grain, fruit. Horses, machinery, grain. Altitude, plump 5,000. \$2,400 and \$7,500. Box 49, Mosquito, Union Co., New Mexico.

**FOR QUICK SALE.** 40 a., imp., 2 ml. from Mansfield; good road; \$1,000. 50 a., imp., 5 ml. from Mansfield; good road; \$1,500. 120 a., some imp., 7 ml. from Mansfield; \$1,200. **C. L. BEACH & CO., Mansfield, Mo.**

**GIVEN AWAY**—160 with 7-room frame house, 120 cultivation, 9 miles town, 40 acres bottom, spring, trees. Trego Co. \$1,450, cash. 320, Ness Co., all creek bottom, improved, \$5,500 cash. Half price for 10 days. **BUXTON LAND CO., Utica, Kan.**

**150 THOUSAND ACRES** Black loam farm land in Texas. Price, \$7.00 to \$10.00 per acre. Full description and testimonials furnished free. Write me today. **E. M. GIFFEE, Blossom House, Kansas City, Mo.**

**TWO DICKINSON COUNTY BARGAINS.** 160 Acres, well improved, 4 miles from Abilene; fine farm location. Also Half Section, 4 miles from good town; well improved. Both for sale at a bargain. Write for particulars and list. **Briney, Pautz & Danford, Abilene, Kan.**

**KINGMAN COUNTY** 1,120 a. solid body, 350 cult., 500 bot., fair blds., near market; price \$32.50, half cash, bal. at 5 per cent. **JOHN P. MOORE RANCH LAND CO., Kingman, Kansas.**

Being past 70 years of age I offer for sale my corn mill and flour and feed business in Pittsburg. **L. BELKNAP, Pittsburg, Kansas.**

**FORCED SALE**—Six smooth quarter sections best wheat and alfalfa land, Wichita Co., Kan. Price, \$6.25 per acre. Excellent opportunity to double your money in twelve months. **D. F. Carter, Bonded Abstractor, Leoti, Kan.**

**BARGAINS.** 160 acres.....\$25 per acre  
160 acres.....\$20 per acre  
80 acres.....\$30 per acre  
**J. D. BENEAU, La Cygne, Kansas.**

**GREENWOOD COUNTY HAY LAND.** -420 acres, 7 miles of Fall River. Good fencing; 50 acres cultivated, balance all fine grass; 3-room house; about 30 acres timber in one corner; everlasting spring water; black, rich soil, lays nice; close school. \$22.50 per acre. 250 acres used as meadow. This is the making of a fine combination farm when improved. The hay crops in 5 years will pay for the land. Is owned by non-resident, hence low price buys this if sold soon. Half cash, balance time and terms to suit. **W. A. Nelson, Real Estate Salesman, Fall River, Greenwood Co., Kan.**

**FOR SALE QUICK**  
A Well Improved 235-Acre Farm, 4 miles of Garnett, Kan., at \$36 per acre. Also 155-acre farm, 2 1/2 miles of Garnett, Kan., at \$7,200; good improvements. Must be sold at once. Don't wait to write.  
**ACT QUICKLY FOR THIS.**  
**SPOHN BROS., Garnett, Kan.**

**ARKANSAS FARM**—318 1/2 acres within 250 yards of Prairie Grove, on the Ozark branch Frisco. Splendid for live stock and unsurpassed for all the cereals. Worth \$100 per acre. Present price, \$20,000. **DAVID W. ADAMS, Prairie Grove, Ark.**

**180 Acres Fine Land**—Nicely improved, within 1 1/2 miles of Pleasanton, Kan.; \$55.00 per acre. 240 acres near Mound City, Kan., at \$45.00 per acre. These are exceptionally good bargains. Big list of bargains. Write, **A. E. ROOT, Pleasanton, Kan.**

**EASY TERMS, LONG TIME**—Two 80-acre farms adjoining; Johnson Co., Kan.; 30 miles Kansas City. Must sell quick; \$85 per acre. All smooth and tillable, close to school and town. **W. E. TISDALE, Spring Hill, Kan.**

**The Truth About South Mississippi**, from bulletin published by the state. Send for it and be convinced that this country offers a great opportunity to the man with small means. **E. L. ELY, Wiggins, Miss.**

**TWO BARGAINS.** 100 acres near Olathe, well improved, fine, \$110.00 per acre. Fifty-seven acres, improved, best of Kaw bottom land, greatest bargain in the county, AT KANSAS CITY'S DOOR. Write for lists. **T. H. MILLER, Olathe, Kansas.**

**\$1.75 PER MONTH** For ten months buys level, well located lot in Plains, Kan. A gilt-edge proposition for those who act promptly. Only a few to be sold at this price. Send \$1.75 first payment, or write for complete list. **ACT QUICK, JOHN W. BAUGHMAN, Drawer B, Plains, Kan.**

**117 ACRES**, located 3 1/2 miles of good railroad town; 5-room house, barn 30 x 40, good outbuildings, two never-falling wells, all the land is tillable, 20 acres bluegrass, remainder in cultivation. Price for 20 days, \$62.50 per acre. Terms to suit. Do not wait to write, but come at once. **MANSFIELD, Ottawa, Kansas.**

**160 Acres, 4 Miles from Herington.** 100 bottom, balance smooth upland; 30 acres alfalfa; new modern house, 8 rooms, pantry and reception hall; good barn; other improvements good; splendidly located; highly improved farms all around. A splendid farm. Possession March 1. Price, \$12,000, worth \$16,000. Very liberal terms. **MOTT & KOHLER, Herington, Kan.**

**EASTERN KANSAS FARM BARGAIN.** Ninety acres, 1 mile from railroad town; 65 acres in cultivation, 5 acres in orchard and grove, balance pasture and meadow; smooth land; 5-room house, stable for six horses, corn crib, hen house, hog and cattle sheds, plenty of good water, 1 mile to graded school, R. F. D. and phone line. A snap. Price, \$3,600. **J. C. RAPP & CO., Osage City, Kansas.**

**FOR SALE**—To settle estate, improved farm, 160 acres, near this town. Address **L. BELKNAP, Exec., Pittsburg, Kan.**

**BEST TOWN TO LIVE IN.** If you would like to live in the most beautiful city in the West, with unsurpassed educational, business and religious advantages, in a city clean, progressive, where real estate values are low but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the **SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.**

## FOR EXCHANGE

**WE TRADE OR SELL ANYTHING ANYWHERE.** The Realty Exchange Co., 18-22 Randall Bldg., Newton, Kan.

**EXCHANGES EVERYWHERE.** Get our fair plan of making trades all over the United States. **Graham Bros., El Dorado, Ka.**

**QUEEN ANNE COTTAGE** in Kansas City, Mo., well located, strictly modern, to trade for small farm. Write **TRIPLETT LAND CO., Garnett, Kansas.**

## For Sale or Trade

640 acres. Good pasture lands. Every foot can be put under plow. All fenced. Barn. Good house. Wells, tanks and wind mills. In Lincoln Co., Neb., four miles from Burlington railroad. Would take small farm in exchange or a general merchandise stock. **L. D. LOEVEY, Norton, Kansas.**

**EXCHANGE**—Will trade my equity in 80 acres, Saline County; 6-room house, barn, well and mill, cistern, chicken house, some fenced hog-tight; 50 acres cultivated, 1 1/2 miles to school, 3 1/2 miles to two towns; mortgage, \$3,500, at 6 per cent. For live stock, hardware, or clear rental. **ED. A. DAVIS, Minneapolis, Kansas.**

## WILL EXCHANGE TEXAS GULF COAST LAND

In the rain belt, in tracts of 160 acres and up, for well located wheat lands in Kansas. Will not entertain any inflated values. Send us description of what you have for trade and state size tract you want in exchange. **D. F. BOYLES & COMPANY, 803 Union Nat'l Bank Bldg., Houston, Texas.**

## FIELD NOTES

### Horton & Hale Prize Winning Durocs.

Breeders of Duroc Jerseys should look up the sale advertisement of Horton & Hale, De Kalb, Mo. On February 1 at Rushville, Mo., this well known firm of progressive breeders of prize winning Durocs will sell one of the best offerings of Duroc bred sows and gilts that will be sold this year. The offering will include some of the best tried sows of their herd, including Miss Golden Orion by Butler Orion, bred to E. A.'s Crimson Rambler. She is just in her prime and one of the best producers in this great herd. Rambler's Queen, by Crimson Rambler 78303; M. C.'s Perfection by Horton's Choice, and others equally as good. There will be five line-bred Crimson Rambler yearling gilts bred to a Prince of Coles, boar for early farrow; five extra high-class gilts sired by Col's Price, a line-bred Col. boar and out of Princess Surprise, champion and grand champion at Interstate Live Stock Show, 1910. They will also sell one of the best sows in their herd, with a litter of nine pigs by her side; also their fine young herd boar, E. A.'s Crimson Rambler by Crimson Rambler, out of Minnie Perfection. He is a great individual and a proved breeder. The entire offering of sows and gilts is one that will interest breeders wanting the best blood of the breed and the best individuals. The boars in use in this herd that are producing prize winners are Proud Zeda's Tip Top Notcher 78387, sired by Tip Top Notcher 20729, dam Proud Zeda, and Horton's Choice 58059 by Pathfinder 37919, dam Reed's Choice. These boars are two of the good sires of the breed. Address all orders for catalogs to E. A. Horton, care Wyeth Hardware Co., St. Joseph, Mo. If unable to attend sale, mailed bids will receive careful attention. Please mention Kansas Farmer when writing.

### S. J. Miller to Hold Annual Sale.

S. J. Miller, the well known Percheron importer of Kirksville, Mo., claims March 6 as the date of his annual sale of Percheron stallions and mares and also jacks and jennets. Mr. Miller's offering in Percheron stallions and mares this year will include a string of imported and American-bred stallions and mares that will be one of the outstanding offerings of the season. It will include such stallions as Incident, Introuvable Sultan and Instar, and other good ones. Incident and Instar are a great pair of four-year-olds imported by Mr. Miller, and they are a pair that will appeal to anyone interested in all round good Percheron stallions. Among the mares in this offering there will be Majestic and Rose O'Grady, two great young Percheron mares sired by the celebrated Echanson, imported by Mr. Miller, and the stallion he has always refused to price; Lady Roberta, sired by Imported Kaldor and safe in foal to Echanson. Lady Roberta was the second prize two-year-old at Missouri State Fair, Sedalia, 1911. Rose O'Grady is safe in foal to Mr. Miller's great stallion, Companion, imported by him as a stable companion to Echanson. Mr. Miller has always refused

**Fine Quarter Irrigated Land** in famous San Luis Valley, Colorado. Abundance of water guaranteed. Will exchange for general stock. **E. G. McCOY, Formoso, Kan.**

## FOR SALE OR TRADE.

**240 acres** in Wilson County, Kansas, 7 miles from the county seat; 60 acres in cultivation, 60 acres prairie meadow, balance pasture. 320 acres, 2 miles from town; small house and barn; 140 acres in cultivation and balance pasture. Would trade either one or both for a good stock of merchandise. **Long Bros., Fredonia, Kan.**

When writing advertisers, please mention Kansas Farmer.

## FIELD NOTES

to price Comber, and this pair of stallions is conceded to be a pair of the great Percheron stallions now in service. Many of the mares in this sale will be bred to Comber and others to Echanson, and his offering of mares this year will be an extra fine lot. The jacks and jennets to be sold in this sale will be one of the extra good offerings to be sold this year. Every jack of serviceable age will be well broken and a good performer, and there will be a number of coming two-year-olds that are prize winners for size and quality. Watch Kansas Farmer for further announcement of this sale and order a catalog early.

### Grigsby & Barber's Percherons.

Attention is called to the card of Grigsby & Barber of Skidmore, Mo., in this issue of Kansas Farmer. They are offering for sale their great herd stallion, Lama 85204. This great imported stallion is seven years old, weighs 2,000 pounds, is dark dapple gray, has fine style and action, and is a great breeder. They are also offering a very fine coming two-year-old Percheron stallion by an imported sire and out of an imported dam. He is an extra good one. The eight-year-old jack they are offering is a good one, Mammoth bred, black and white points. He is a big one and well broken. Their grade Percheron mares and geldings are a fine lot, also the mules they are offering. Then can match teams in horses, mares or mules. Mention Kansas Farmer when writing.

### Charters' Poland China Sale.

In this issue W. H. Charters, Jr., of Butler, Mo., is announcing his February 6 sale. Mr. Charters has gained a reputation for selling good hogs and there will be offered in this sale 28 head of tried sows and 22 head of fall yearlings that will equal any bunch to be sold this spring. They are sired by such boars as King Blain, Big Ex, Young Hadley and Good Metal. A number of the gilts were sired by Grand Look Jr., by Charters' Grand Look, and Long Price. The entire lot of tried sows will be bred to Charters' great herd boar, White Sox Chief, he by A. Wonder, and his dam was by Long Price 4th, he by Columbia Chief 2d. White Sox Chief is a massive boar of size and quality. He is the right kind of a sire to insure large litters. Long Price was by Big Tom, and Big Tom was first in class at the Nebraska State Fair, 1911, and had many admirers. There are two sows in this sale that should be attractions. They will be Numbers 1 and 2 in catalog. They were sired by the great herd boar, White Sox Chief, and will be bred to Long Price. The writer visited this herd only a few weeks ago and has the positive assurance from Mr. Charters that every one in the sale is immunized and guaranteed. Every one is recorded, and if it is not safe in pig the purchaser may return and get all the purchase price back. No more liberal offer could be made by any breeder, or any stronger guarantee furnished, than is made by Mr. Charters. Please read sale ad and send for catalog. It is now ready to mail out. Kindly mention Kansas Farmer when writing.



The Kind of Duroc Jerseys Offered by John T. Higgins of Abilene, Kan., on Friday, January 24, 1913.

POLAND CHINAS

I Am Willing

to stand part of your expense to come and look at my bunch of bred sows.

L. C. WALBRIDGE Russell, Kansas

GREEN LAWN STOCK FARM.

100 HEAD September pigs for quick sale. Pair, \$30; trio, \$42.50; four for \$50. All strictly big-type breeding. Can furnish three sow pigs and boar not akin. Will sell 100 head bred sows February 22, 1913. Write early for catalog.

A. J. ERHART & SONS, Adrian, Mo.

Highview Breeding Farm

Highview Breeding Farm, home of the old original big spotted Poland Chinas. The largest herd of big spotted Polands in the world. They are the farmer's hog. The big easy feeding kind. Never fail to make good. Young stock for sale.

H. L. FAULKNER, Box M, Jamesport, Missouri.

STRAUS SPOLAND CHINAS

Model Bill 5434 heads our herd, assisted by Model Wonder, one of the largest yearling boars of the breed. Fifteen spring boars for sale, priced to move them.

O. R. STRAUSS, Route 1, Milford, Kan.

12 BIG POLAND BOARS 12

I still have a dozen extra choice spring boars, including two out of the great sow, Teumseh Goldust, and sired by Blue Valley Goldust. Special prices for one week.

R. J. PECKHAM, Pawnee City, Nebraska.

STRYKER BROTHERS'S POLAND CHINAS. Choice boars and gilts from our show herd. Can sell all kinds of breeding stock at reasonable prices. Also, Hereford cattle and standard bred horses for sale.

STRYKER BROS., Fredonia, Kan.

APRIL BOARS—Well built, good length, heavy bone. Gilts bred for May farrow. Summer and fall pigs, both sexes. Write me what you want to buy. Have some choice stuff I will guarantee satisfaction on. Herd material and farmer's kind.

J. E. WELLER, Faucett, Mo.

POLAND CHINA HERD BOARS.

For Sale—One or both of my herd boars, Big Bone Pete and Chief Price Best by Chief Price Again. Both young, good individuals, and will be priced reasonable.

J. L. GRIFITHS, Riley, Kansas.

HERD BOAR FOR SALE.

Because I cannot use him longer I will sell my herd boar, Colossus Pan, a son of Colossus and out of the noted Expansion sow, Queen Over Pan. Also fall pigs, either sex.

Hubert J. Griffiths, Clay Center, Kan.

FALL BOARS FOR SALE—Sired by First Quality and First Prize, a Mouw bred boar, out of such sows as Lady Goldust by Goldust. Hadley bred sow sale February 6.

James Arkell, Route 4, Junction City, Kan.

SPRING AND FALL BOARS.

Twenty-five good ones, sired by "Blue Valley, Jr." and "Hartman's Hadley." Will not hold fall sale. Special prices for twenty days.

J. J. HARTMAN, Elmo, Kan.

Herd Boars For Sale

Five outstanding good ones. Three for sale, including Mogul's Monarch and Prince Hadley.

J. H. HARTER, Westmoreland, Kan.

SATISFACTION OR MONEY BACK.

For sale, 12 young boars, will make herd headers; 30 choice gilts; 100 spring pigs. Prices reasonable.

W. A. BAKER & SON, Butler, Mo.

RYDAL POLAND CHINAS.

Headed by Rydal Chief by Choice Goods. Sows of best strains. SPRING pigs for sale.

E. S. FARLEE, Rydal (Republic Co.), Kan.

OHIO IMPROVED CHESTERS

MAPLE LEAF O. I. Cs.

Service boars all sold, but am breeding a splendid lot of gilts. Choice yearling sows and a few tried sows for sale. Special prices on fall pigs.

R. W. GAGE, Route 5, Garnett, Kan.

O. I. C.—125 Head Hogs

Pigs in pairs. Bred sows, and 40 boars ready for service. Fifty fall gilts.

W. H. LYNCH, READING, KAN.

WOLFE'S O. I. C. SWINE.

Large, prolific kind, March and April farrow. Gilts bred or open. Fall pigs. Prices low. Pedigrees free. Write your wants.

W. W. WOLFE, Route 2, Carrollton, Mo.

O. I. C. PIGS.—H. W. Haynes, Meriden, Kan.

HAMPSHIRE HOGS

HAMPSHIRE HOGS.

Bred sows, spring pigs, in pairs or trios, not akin. Pat Malony, General Allen blood lines. Prices reasonable.

F. C. WITTOFF, Medora, Kan.

ECLIPSE FARM HAMPSHIRE.

Tried sows and gilts for sale, bred for spring farrow. A few fall pigs left.

A. M. BEAR, Medora, Kan.

FIELD NOTES

FIELD MEN.

O. W. Devine.....Topeka, Kan. Jesse R. Johnson.....Clay Center, Kan. W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

Percherons and Other Draft Breeds, Jan. 28, 29, 30, 31—C. W. Hurt, Arrow-smith, Ill. Feb. 22—Mitchell County, Kansas, Percheron Breeders. Sale at Beloit, Kan. March 5—J. C. Robison, Towanda, Kan. Sale at Kansas City, Mo. Mar. 6—S. J. Miller, Kirksville, Mo.

Percherons and Jacks, Jan. 15—P. I. McEchorn, Princeton, Kan. Feb.—The Pure-Bred Live Stock Association of Northwest Missouri, T. E. Deem, Manager, Cameron, Mo.

Jacks and Jennets, Feb. 6—A. E. Limerick and W. E. Bradford, dispersion sale at Columbia, Mo. Feb. 4—Platte County Jack Sales Co., Platte City, Mo. Feb. 25—D. J. Hutchins, Sterling, Kan. Columbia, Mo. March 4—L. M. Monsees & Sons, Smithton, Mo. March 10—G. C. Roan, La Plata, Mo.

Shorthorns, Feb. 6—G. C. Cochran & Sons, Plainville, Kan., at Lamer's sale pavilion, Salina, Kan. March 19—J. F. Richards & Son, Bevier, Mo.

Holstein Friesians, Feb. 4—Henry C. Glessman, Station B, Omaha, Neb. Oct. 21-22, 1913—Woodlawn Farm, Sterling, Ill.

Poland Chinas, Feb. 14—H. B. Walter, Emingham, Kan. Jan. 20—Roy Johnson, South Mound, Kan. Feb. 20—George Wedd & Son, Spring Hill, Kan. Jan. 24—Jas. G. Long, Harlan, Iowa. Jan. 25—J. W. Leeper, Norton, Kan., and J. F. Foley, Ononogo, Kan. Sale at Norton.

Feb. 3—O. R. Strauss, Milford, Kan. Feb. 4—J. W. Anderson, Leonardville, Kan. Feb. 4—L. V. O'Keefe, Stillwell, Kan. Feb. 5—J. L. Griffiths, Riley, Kan. Feb. 5—H. Fesenmeyer, Clairinda, Iowa. Feb. 6—W. H. Charters, Jr., Butler, Mo. Feb. 6—J. B. Lawson, Clarinda, Iowa. Feb. 6—James Arkell, Junction City, Kan. Feb. 7—J. O. James, Braddyville, Iowa. Feb. 12—H. L. Faulkner, Spotted Polands, Jamesport, Mo. Feb. 12—Ira C. Kyle & Son, Mankato, Kan. Feb. 12—T. J. Meisner, Sabetha, Kan. Feb. 13—Carl Jensen & Son, Belleville, Kan. Feb. 14—Frank M. Owens, Council Bluffs, Iowa. Dispersion.

Feb. 14—C. M. Frater, Oxford, Kan. Feb. 14—Bred sow sale, H. B. Walter, Effingham, Kan. Feb. 15—J. B. Dillingham, Platte City, Mo. Feb. 18—J. H. Harter, Westmoreland, Kan. Feb. 20—R. J. Peckham, Pawnee, Neb. Feb. 21—W. Z. Baker, Rich Hill, Mo. Feb. 22—A. J. Erhart, Adrian, Mo. Feb. 22—E. E. Flanagan, Chapman, Kan. Feb. 25—The Deming Ranch, Oswego, Kan. Feb. 26—F. J. Sexsmith, Orient, Iowa. Feb. 26—J. W. Pfander & Sons, Clarinda, Iowa. Feb. 26—L. C. McClarmon, Braddyville, Ia. (Night sale.) Feb. 27—C. L. Branic, Hiawatha, Kan. Sale in town. March 19—J. F. Richards, Bevier, Mo.

Duroc Jerseys, Jan. 30—Leon Carter, Asherville, Kan. Jan. 24—John T. Higgins, Abilene, Kan. Feb. 1—Horton & Hale, DeKalb, Mo. Sale at Rushville, Mo. Feb. 7—Kansas State Agricultural College, Manhattan, Kan. Feb. 15—A. Blank, Oxford, Kan. Feb. 20—Charles Stith, Eureka, Kan. Feb. 20—Rinehart & Son, Smith Center, Kan. Feb. 25—W. R. Houston, Americus, Kan.

Berkshires, Feb. 7—Kansas State Agricultural College, Manhattan, Kan. Hampshire Hogs, Jan. 23—T. W. Lavelock, Princeton, Kan. Feb. 18—W. F. Davis, South St. Joseph, Mo. Mulefoot Hogs, Feb. 15—John A. Williams, Eaton, Ohio.

Case Wins Sweepstakes. Corrected errors in the Winnipeg motor contest of 1912 not only give the Case 110-H. P. steam engine the gold medal for scoring the highest number of points in its class, but also give that engine the honor of sweepstakes by scoring more points than any competitor in the whole contest, irrespective of class. The record of this Case engine is equalled by no other farm power engine manufactured.

Fairfield Incubators and Brooders. Sam Thompson, president of the Nebraska Incubator Co. at Fairfield, Neb., manufacturers of the famous Fairfield incubators and brooders, writes that his Fairfield's last year again repeated their previous high hatching record—98 per cent. This is a remarkably good showing and proves that the Fairfield is a money maker for every poultry raiser who uses it according to the simple and easy directions furnished with it. Now is a good time to write Sam Thompson for the Fairfield catalog. There is time to study it, along with others, before hatching season opens. Also it is well to have full information in time to order a hatching outfit, and give it time to come by freight, for the early hatches that make the most money. Fairfield incubators have a great record as successful early hatchers.

The New Old Trusty Book. The Old Trusty Incubator catalog for 1913 is now being sent out by the M. M. Johnson Co. of Clay Center, Neb. The new book fully sustains the Old Trusty standard of previous years. If anything different, it is more interesting than ever. It shows many new pictures and of course gives the record of the many thousands of Old Trusty machines sold again last year. Every one who reads the new Old Trusty book is interested and finds in it a wealth of solid, substantial "hen sense" that cultivates a better liking for poultry raising. If it cost a dollar, the 1913 Old Trusty catalog would be a bargain to buy. But it is sent free to everyone writing to ask for it.

Captain Archer Bulls. The Shorthorn bulls offered for sale by

POLAND CHINAS

C. S. NEVIUS, GLENWOOD HERDS The Designer kind of large type Poland Chinas and Searchlight Short-horns. Having decided not to hold our February sow sale, we will offer at private sale 10 tried sows, 10 fall yearlings and 10 spring gilts. Blood lines Designer, Major Look, or Gold Metal. Safe in pig for March and April farrow. Price, \$25 to \$50. C. S. NEVIUS, Chillicothe, Kan.

Dean's Mastodon Polands. The big-boned type, will weigh when mature 300 pounds. Bred sows all sold. ALL IMMUNIZED BY DOUBLE TREATMENT AND ARE IMMUNE. Phone, Dearborn; station, New Market, and Postoffice, Weston, Mo. Address CLARENCE DEAN, WESTON, MO.

WRAY & SON'S BIG TYPE POLAND CHINAS. Herd headed by Sterling Prince, one of the largest and best 2-year-old boars of the breed. Assisted by Chief Price's Wonder, one of the best sons of the great breeding boar, Chief Price Again. Young stock for sale. Better than your grandpa ever raised. B. T. WRAY & SONS, Hopkins, Mo.

DUROC JERSEYS

OUTSTANDING DUROC BOARS

All sold out on boars except an extra choice son of Crimson Wonder Again, out of a Valley Chief dam. Selling him to close a partnership. His three brothers went to head good herds and his sister will be an attraction in my January 24 sale. JOHN T. HIGGINS, Abilene, Kansas.

DUROCS OF SIZE AND QUALITY

Spring boars and gilts of Tatarax, B. & C. Col. and Neb. Wonder breeding, at reasonable prices. JOHN A. REED, Lyons, Kan.

GEORGE KERRS DUROCS

BRED SOW SALE FEBRUARY 4, 1913. GEORGE KERR, SABETHA, KAN. R. F. D. No. 1.

DUROC JERSEY BOARS. 20 TOP BOARS, by Golden Model 2d, and other great boars, the type that will make money on any farm, and will improve any herd. They will suit you. GRANDVIEW STOCK FARM, Americus, Kan.

PERFECTION STOCK FARM DUROC JERSEY HOGS. For Sale—20 Spring Duroc Jersey gilts and spring boars, pairs and trios, not related. We sell at farmers' prices. CLASSEN BROS., Union, Okla.

FALL DUROC BOARS. Choice ones to select. Fed and handled properly for good results. Choice breeding. Only the best saved for breeding. Reasonable prices. HOWELL BROS., Herkimer, Kan.

VILANDER'S DUROC JERSEYS. 130 spring pigs, sired by Tatarax Chief, White House King, Carl Critic, etc. Out of mature dams. Pairs and trios not related. Ready to ship now. ALVIN VILANDER, Manhattan, Kan.

QUIVERA PLACE. Headquarters for the best in Durocs. Herd headed by Quivera by Tatarax assisted by M. & M.'s Col. Choice spring boars for sale. Bred sow sale January 8. Munsell & Isenberg, Herington, Kan.

GOLDEN RULE DUROC JERSEYS

Young boars all sold. Sows all reserved for big bred sow sale January 30. Can spare one good herd boar December 15. LEON CARTER, Asherville, Kan.

Crow's Durocs

Twenty-one good Duroc boars from 125 to 280 pounds. All vaccinated. Price reasonable. W. R. CROW, Hutchinson, Kansas.

MARSH CREEK DUROCS.

Large growthy gilts, bred for March and April farrow. Also fall pigs, either sex, at reasonable prices. R. P. Wells, Formoso, Ks.

Mrs. Wyatt Stanley of Anthony, Kan., are certainly bred right. The most of the young bulls were sired by Brawny Lad, a son of Captain Archer, and their dams were by Imp. Collynie, Imp. Aylesbury Duke and Captain Archer—all show bulls in the herds of S. C. Hanna and J. F. Stodder. Here is the best Scotch blood from prize winning herds. The herd bulls, Brawny Lad and Proud Victor, are also for sale. The young bulls range from eight months upwards. Write to Mrs. Stanley about these bulls, which are very close up to the best Scotch families and prize winning blood. Kindly mention Kansas Farmer.

Higgins' Attractions.

Duroc Jersey breeders that are looking for strictly tops will be interested in the attractions to be found in the John T. Higgins sale to be held at Abilene, Kan., Friday, January 24. Mr. Higgins has been one of the best buyers at the leading eastern sales, and in order to make sure that some of the best breeders would attend this sale he is cataloguing some of his very best females, including a fall gilt sired by The Professor, bred to Good Enuff Model; a Good Enuff Again gilt bred to Cherry Col.; several choice sows by Crimson Wonder Again, and one by Valley King. The boar, Cherry Col., that a big per cent of the offering is bred to, was selected by Col. Reppert, and is a boar that attracted plenty of attention before he left his native state. The fact is that about half of the offering are attractions and would be considered as such in almost any sale in the territory. Remember this great sale, and plan to attend. Bids may be sent to Jesse Johnson in Mr. Higgins' care at Abilene, Kan.

L. V. O'Keefe's Bred Sow Sale. In this issue will be found the sale ad announcing the sale of L. V. O'Keefe's large Poland Chinas. Twenty head of the offering are sired by the great breeding boar, Big Logan Ex, and a number in the offering are bred to him. Expansion Wonder, Grand Leader, Grand Look Jr. and a num-

POLAND CHINAS

C. S. NEVIUS, GLENWOOD HERDS The Designer kind of large type Poland Chinas and Searchlight Short-horns. Having decided not to hold our February sow sale, we will offer at private sale 10 tried sows, 10 fall yearlings and 10 spring gilts. Blood lines Designer, Major Look, or Gold Metal. Safe in pig for March and April farrow. Price, \$25 to \$50. C. S. NEVIUS, Chillicothe, Kan.

Dean's Mastodon Polands. The big-boned type, will weigh when mature 300 pounds. Bred sows all sold. ALL IMMUNIZED BY DOUBLE TREATMENT AND ARE IMMUNE. Phone, Dearborn; station, New Market, and Postoffice, Weston, Mo. Address CLARENCE DEAN, WESTON, MO.

WRAY & SON'S BIG TYPE POLAND CHINAS. Herd headed by Sterling Prince, one of the largest and best 2-year-old boars of the breed. Assisted by Chief Price's Wonder, one of the best sons of the great breeding boar, Chief Price Again. Young stock for sale. Better than your grandpa ever raised. B. T. WRAY & SONS, Hopkins, Mo.

MULE FOOT HOGS

WE PAY THE FREIGHT. On a pair or trio of the kind which grow large and cost little. 30 late fall pigs—both sexes. Prices reasonable. Write.

MULE FOOT HOGS. The Original Families. Bred Sows—For Sale—Bred Gifts. SULTAN STOCK FARM. R. 7. Bloomington, Ind.

Mulefoot Hogs at Public Auction

Sale February 16, 1913. Fifty head of pure-bred gilts. Young stock for sale at all times. Breeding stock recorded in the National Mulefoot Hog Record. Write for catalog and information. JOHN A. WILLIAMS, Route 6, Box N. Eaton, Ohio.

HOLSTEIN CATTLE

YOUNG HOLSTEIN BULLS

Sired by Peterjie Hengerveld Nannette and out of heavy-producing dams, for sale. From young calves to yearlings. Won first at Topeka, Hutchinson and Oklahoma State fairs on young herd, 1911. Herd bull was junior champion. W. C. JONES & SONS, Topeka, Kan.

HOLSTEIN COWS AND HEIFERS AT BARGAIN PRICES.

On account of shortage of ensilage crop on my New York farm, I am shipping west 300 head of high grade Holstein cows and heifers, 2 to 5 years old. These are arriving in lots of 50 every week and I will make attractive prices to parties that can use carload lots. All tuberculin tested and bred to registered bulls. Also 30 registered bulls for sale. ROCK BROOK FARM, Omaha, Nebraska.

M. E. MOORE & CO.

A special bargain in registered young bulls, sired by our herd bull, and tuberculin tested. Could spare a few very high-class cows. MISSOURI HOLSTEINS.

Largest herd of Holsteins in the state. Nothing but registered stock for sale. Eighty head to choose from. Twenty-five bulls, all ages. Will sell one to a carload. Write us just what you want and we will describe and price some to pick from. E. W. COOKE & SON, Mansville, Mo.

HOLSTEINS FOR SALE—Sons of Deutschland Cornucopia Sir Detry, who has a 32-pound sister and a long line of A. R. O. relatives. Dams sired by Prince Ormsby Mercedes DeKol and other good bulls. J. P. MAST, Scranton, Kan.

Pure-Bred Registered HOLSTEIN CATTLE. The Greatest Dairy Breed. Send for FREE Illustrated Booklets. Holstein-Friesian Association, Box 114, Brattleboro, Vt.

CHENANGO VALLEY GRADE HOLSTEINS. Fifty extra fine, well bred, nicely marked young cows to freshen in two months. Also high grade, well bred heifers coming two and three years old and bred to registered bulls. F. J. HOWARD, Bouckville, N. Y.

HOLSTEINS FOR SALE. Fifty head of registered heifers and bulls; also 75 head bred heifers and young cows, \$68.50 up. Come and see them. M. P. KNUDSEN, Concordia, Kan.

CORYDALE FARM HERD.

Holsteins: 50 head in herd, 2 registered yearling and 2-year-old heifers for sale. L. F. COREY, Belleville, Kan.

HOLSTEIN BULL CALVES always on hand, and worth the price. H. B. COWLES, Topeka, Kansas.

GALLOWAY CATTLE

SMOKY HILL GALLOWAYS

A carload of yearling and 2-year-old bulls for sale. E. J. GUILBERT, Wallace, Kan.

ber of other good boars are represented in this offering. It is the best bunch Mr. O'Keefe has ever offered to the public, and he has gained a reputation for selling only good ones. Mr. O'Keefe has always made good sales and made good averages, and the secret of his success lies in the class of Polands he breeds and develops. Please read ad in this issue and send for a catalog. It will be worth reading. Kindly mention Kansas Farmer.

**HORSES AND MULES**



First and Grand Champion Belgian Stallions at American Royal, 1912, owned and exhibited by J. M. Nolan at Paola, Kan. Our barns are filled with Percheron, Belgian, French Draft and Coach Stallions, imported and home-bred, priced to sell. Come and see me. We can deal.

**J. M. NOLAN**

**Paola Kansas**

**PERCHERONS  
BELGIANS  
SHIRES**

**ONE OF THE  
OLDEST AND  
LARGEST  
IMPORTERS  
IN  
AMERICA**



Our horses are big, smooth flat-boned fellows, with great quality style and conformation. Will please the most critical. Prices reasonable. Satisfaction guaranteed. Letters from hundreds of satisfied customers and big illustrated catalog mailed free.

**Watson, Woods Bros. & Kelly Co.**  
BOX 29 LINCOLN, NEB.

**REGISTERED JACKS**



For Sale—Big, heavy-boned, smooth, well marked fellows. Some of them sired by the noted \$2,000 Missouri King that I formerly owned. Also have limited number of Jennets for sale. We claim to own and have on our farm one of the best Jennets in America. If we fail to convince you that ours are as good as can be found anywhere, railroad fare will be refunded. Fullest guarantee with every sale.

**T. E. COLLINS, Belleville, Kansas.**



**DIAMONDS IN THE ROUGH**

I am offering for sale at very low prices a fine lot of young Percheron, Belgian, French Draft and Coach Stallions. These horses are not fat, but in good, thrifty condition and will make good. Come and see me.

**C. F. RICKETS, Paola, Kansas.**

**TWO PERCHERON STALLIONS**, home-grown, registered, big ones; extra bone; 2 and 3 years old. Trains direct K. C., St. Joe. **FRED CHANDLER, Route 7, Chariton, Iowa**

**PRIVATE DISPERSION**

**FOR SALE PRIVATELY**



One extra heavy-boned black herd jack, 15 1/2 hands high; one yearling jack; two large, fine Jennets, and three registered Percheron mares. This stock is first class and will be priced for quick sale.

**O. A. SCOTT, Athol, Kansas.**

Imported and Home Bred Stallions and Mares  
**PERCHERONS—BELGIANS—SHIRES**



Percherons—Belgians—Shires The best importation we ever made is now in our barns ready for inspection. The mares include some of the best fillies that came out of the Perch this year. See what we have before buying elsewhere.

Address, **HART BROS., Osceola, Iowa.**



**JACKS AND JENNETS**

17 head large mammoth black jacks for sale, ages from 2 to 5 years; large, heavy-boned, broken to mares and prompt servers. Prices reasonable. Come and see me.

**PHIL WALKER, Moline, Elk Co., Kansas.**

**HORSES AND MULES**

**Mammoth Jacks and Percheron Stallions**

33 head of mammoth jacks and Percheron stallions—33. Jacks from 2 to 6 years old, from 15 to 16 hands high. Percherons from 2 to 5 years old weighing from 1,800 to 2,000 pounds. Farm and sale barn on 21st, one mile east of Union stock yards.

**J. C. KERR, Wichita, Kan.**

**STALLION, MARES AND JACK.**

Have one 6-year-old and two 2-year-old stallions, registered in the Percheron Society of America. These horses are built right. You will be pleased with them. Want to sell one. Take your choice. Also four brood mares and one weanling filly, registered as above. Want to sell two. Take your choice. Have bred Percherons for six years. Also one black jack with light points, five years old. Will price him right for cash or will trade him for other property. Write for particulars.

**H. M. STEPHENS, Munden, Kansas.**

**Mammoth Kentucky Jacks**

Nine black, mealy-nosed, heavy-boned fellows, 6 months to 7 years, weighing up to 1,000 pounds, and 15 hands high. Also 15 Jennets, all ages. Inspection invited.

**A. ALTMAN, Almena, Norton County, Kansas.**

**HOME-BRED STALLIONS** \$275 to \$650. Imported stallions \$700 to \$1,000, two higher. All draft breeds. Reference: Any banker in Creston. **FRANK L. STREAM, Creston, Iowa.**

**AL. E. SMITH STOCK FARM.**

Black Mammoth Jacks and Jennets, Percheron Horses. You will find what you want in large boned, registered, 15 to 16 hands standard. Special prices on fall sales. Both phones. **AL. E. SMITH, Lawrence, Kan.**

**EXCELSIOR SHETLAND PONIES.** Registered stock. Ponies for sale, reasonable prices. Spotted and solid colors. **W. H. Fulcomer, Belleville, Kan.**

**SHORTHORN CATTLE**

**PEARL SHORTHORN HERD.**

One of the oldest and strongest herds in the west. Scotch and Scotch-topped. Reds and roans. Good individuals and tracing to noted ancestors. Choice young bulls for sale. Sold out on females. Can ship over Rock Island, Santa Fe or Missouri Pacific. Inspection invited.

**C. W. TAYLOR, Abilene, Kan.**

**Young Shorthorn Bulls**

Some pure Scotch, others with several Scotch tops. Nice reds, old enough for service. Few cows and heifers, and 25 big-type Poland China fall pigs, both sexes. Nothing but good individuals shipped.

**S. B. AMCOATS, Clay Center, Kan.**

**Shorthorn Bulls For Sale**

Three good bulls, thick-fleshed and nicely bred, 12, 14 and 15 months old. Prices, \$75 to \$100, for quick sale.

**JEWELL BROS., Humboldt, Kan.**

**TENNEHOLM SHORTHORNS.** Have on hand for sale two 11-months-old bull calves, good, big, useful ones, out of good Bates cows and sired by Scotch bulls. Am pricing them to move them soon.

**E. S. MYERS, Chanute, Kansas.**

**SCOTCH SHORTHORN BULLS** Reds and roans, mainly Captain (205741) Archer blood, from 8 months up. Two good roan herd bulls. Reasonable prices. Write for prices, breeding and photos.

**MRS. WYATT STANLEY, Anthony, Kan.**

When writing advertisers, please mention Kansas Farmer.

**RED POLLED CATTLE**

**PHILIPS COUNTY RED POLLS.**

For Sale—Cows and heifers, sired by the great Launfal and bred to Creme 22d. Five excellent bulls from 8 to 18 months, some out of 60-pound, 5 per cent cows.

**Chas. Morrison & Son, Phillipsburg, Kan.**

**RED POLLED CATTLE** A few choice bulls, ready for service, priced reasonable.

**I. W. POULTON, Medora, Kan.**

**Coburn Herd of Red Polled Cattle and Percheron Horses.** 25 extra good young bulls and 7 first class young stallions for sale at bargain prices. Also young cows and heifers.

**GEO. GROENMILLER & SON, Pomona, Kansas.**

When writing advertisers, please mention Kansas Farmer.

**POLLED DURHAM CATTLE**

**ROAN HERO, THE INTERNATIONAL CHAMPION, AND ARCACIA PRINCE X 8079-308159**

the first prize winners, head my herd of Double Standard Polled Durhams. M. P. Ry. 17 miles S. E. of Topeka, Kan. Farms adjoins town. Inspection invited.

**D. C. VAN NICE, Richland, Kan.**

**FIELD NOTES**

**Strauss Opens Circuit.**

On Monday, February 3, Mr. O. R. Strauss, the very successful breeder of big-type Poland Chinas, opens the sale circuit of which he is a member. Mr. Strauss lives about two miles out from the town of Milford, Kansas, located on the Junction City and Belleville branch of the Union Pacific. Every convenience is being arranged for the comfort of those in attendance on sale day, and every good hog man of the community is invited to attend, whether he is in the market or not. Mr. Strauss is cataloguing 40 head, of which 27 are spring gilts of early farrow. The others are tried sows, fall yearlings, and a few June and September boars and gilts. The sows and spring gilts are practically all bred to or sired by the herd boars, Model Taft and Model Wonder, a pair of very large, smooth boars. The last named is a grandson of the noted A Wonder. The tried sows included, and the dams of the gilts, are largely of Missouri Chief breeding. These sows are very large and have lots of quality. The gilts are smooth and well grown out and are splendid prospects for brood sows. The June boars are good ones, large and strong, and just right for hard service. A couple of very choice September boars and a gilt were sired by Model Wonder and out of a sow that is a daughter of old Expansion. The Strauss offering will be presented in their every day clothes and will go out and do good for those fortunate enough to own them after the sale is over. Write now for catalog, and either come or send bids to Jesse Johnson in Mr. Strauss' care at Milford, Kan.

**Anderson Sells February 4.**

On Tuesday, February 4, the day following O. R. Strauss' sale at Milford, Kan., Mr. J. W. Anderson of Leonardville, Kan., will hold a sale of registered, strictly big-type Poland China tried sows, gilts and summer boars. The sale will be held on the farm near Leonardville and Lasita, Kan. Mr. Anderson is cataloguing 45 head, about 25 of which are tried sows that would not be for sale but for the fact that Mr. Anderson is compelled to change locations this spring. A large per cent of these sows were sired by Mr. Anderson's great breeding boar, Clay Jumbo, a son of Nebraska Jumbo and out of a Gold Metal sow. Clay Jumbo is one of the best sow sires in the west, and the sows in the sale not sired by him are nearly all bred to him. Others are by some mighty well known sires, among them Gold Metal, Expansion's Son, Looks Choice and Colossus. Tried sows by such boars should be sought by breeders who want the best. Sows and gilts not bred to Clay Jumbo will be bred to Mr. Anderson's new boar, Joe Wonder, a splendid and big son of Big Joe. His dam was the big Iowa sow, May Wonder, by A Wonder. Mr. Anderson has been a good liberal buyer in person and by mail bids at some of the best stock sales in half a dozen states, and at this, his first sale, he is including most of the best original purchases. The offering will lack in flesh, but this will be all the better for the buyer. They will not sell quite as high as highly fitted animals, but will give much better results. Plan to attend this sale, along with the others of the circuit. File application early for a catalog and either come or send bids to Jesse Johnson in Mr. Anderson's care at Leonardville, Kan.

**Griffiths Sells February 5.**

Kansas Farmer readers will remember the very successful sale of big-type Poland China sows and gilts made by Mr. J. L. Griffiths of Riley, Kan., last winter. In fact the sale mentioned was about the best sale held in Kansas last year. Now Mr. Griffiths has another bunch just like the ones sold last winter, a little better. Mr. Griffiths has a bunch of the biggest and widest sows that can be found in any herd. These great old sows are in the 700-pound class and are of the big Iowa breeding. A big per cent of the offering are gilts from these sows and mostly sired by the rightly named boar, Big Bone Pete, bred by one of the best breeders in Iowa. Others of the gilts were sired by John Osborne and one or two by Mogul's Monarch. The offering of tried sows are all bred for early farrow to Big Bone Pete. John Osborne and Chief Price Best by Chief Price Again. The tried sows are sows of merit and sired by such boars as Colossus, Grand Look, etc. There will not be a poor animal in the sale, every one standing on the strong, straight limbs that are always found in this herd. Included in the gilt division will be Numbers 7, 8, 9 and 10, all just alike and excellent brood sow prospects. Their dam, Lady Wonder 4th, is one of the greatest of the great Wonder sows in the herd, and their sire was Big Bone Pete. Mr. Griffiths has a full brother to these gilts a litter younger that he is developing for a herd boar, and those who have seen him say he is one of the best prospects of the year. Numbers 1 and 2 are gilts out of Lady Wonder 3d. No. 31 in the sale is a gilt out of a Colossus sow, litter mate to H. J. Griffith's herd boar, Colossus Pan. The gilt was sired by Mogul's Monarch. The gilt division is very uniform and contains a good brood sow prospect as can be found in any sale to be held this winter. Mr. Griffiths is in a four-days circuit and all four sales can be attended without extra cost. Write Mr. Griffiths at once for catalog and plan to attend these sales.

**Arkell Sells February 6.**

James Arkell, Junction City, Kan., one of the progressive Poland China breeders of the state, is advancing a bred sow sale for Thursday, February 6. Mr. Arkell has been breeding this kind of Poland for a good many years, always buying just what suits him, no difference about what it costs. His private sales are always good and his customers always satisfied. The writer, who inspected this offering recently, thinks that here is as good a chance to buy the right type as can be found anywhere in the west. Mr. Arkell's are of the large, smooth sort, heavy bone and with rather more finish than most of the big kind have. The sale will contain 40 head, composed of tried sows, spring gilts and a few summer boars and gilts. The gilts and younger stock was all or nearly all sired by Mr. Arkell's great breeding boar, Fine Quality, he by Blue Valley's Quality, and his dam was the fine sow, Blue Valley Ex by Exception. First Quality is one of the smoothest, strongest boned big boars in service in the state. His gilts are very good and have wonderful heavy bone. They are excellent brood sow prospects and will prove good buys for whoever is fortunate enough to secure one or more of them. A few others were sired by Victor Perfect, a son of Big Victor. The spring gilts are bred to the young herd boar, Pan Look, a grandson of Pan Jr. He comes from the very biggest strains and is sure to cross well with such gilts. The dams of these gilts are by such boars as Smith's Big Hadley and others tracing to Growthy Perfection, Expansion, etc. Not a bad one will be catalogued, and not one that isn't a first class prospect. Catalog will be sent for the asking and transportation will be provided from Alida to the farm. Sealed bids may be sent to Jesse Johnson in Mr. Arkell's care at Junction City.

**JERSEY CATTLE**

**REGISTER OF MERIT JERSEYS.**

The only herd in Kansas that makes and keeps official records. **FOR SALE**—Two extra choice yearling bulls sired by Imp. Oakland Sultan. They are out of tested 500-pound cows. Also 25 choice heifers and a few tested cows. Inspection invited.

**E. J. LINSOTT, Holton, Kansas.**

**BANKS' FARM JERSEYS**

Quality with milk and butter records. One of the best sons of CHAMPION FLYING FOX, imported, at head of herd. Stock for sale.

**W. N. BANKS, Independence, Kan.**

**GOLDEN RULE JERSEYS.**

Richly bred heifers and bull calves for sale. The blood of Golden Lad and other noted sires. Farm one mile north of town. Inspection invited.

**Johnson & Nordstrom, Clay Center, Kan.**

**WINELAND FARM JERSEYS.**

One of the strongest official record herds in the west. For sale, 10 choice young bulls, sired by Imp. "Duke's Raleigh," and other good bulls. Out of cows now undergoing or having authenticated tests. Also, 25 females of different ages. **H. C. YOUNG, Lincoln, Nebraska.**

**50 HEAD** Solid fawn colored, registered Jersey cows and heifers; a nice lot of springers; Forfarshire, Imp. Stockwell, Fox and Guenon Lad breeding. Three light fawn bull calves, St. Lambert blood.

**S. S. SMITH, Clay Center, Kan.**

**REGISTERED JERSEY BULL.**

**BLUE BELL'S BOY** No. 76800, half-brother to Noble of Oaklands; 5 years old; gentle. Price reasonable.

**J. S. TAYLOR, Iola, Kan.**

**JERSEY BULLS.**

For Sale—An extra good tried sire of Tormentor breeding. Cannot use any longer. Also, a 2-months-old calf of St. Lambert breeding. **O. E. NICHOLS, Abilene, Kan.**

**OXFORD DOWN SHEEP**

Largest flock west of Mississippi River. Fifty rams, 100 ewes for sale. All stock sired by imported rams. 140 ribbons at the Iowa State Fair in last eight years. Call on or address, **John Graham & Son, Eldora, Ia.**

**SHROPSHIRE SHEEP**

**Twenty** Yearling and Two-Year-Old Shropshire Rams, sired by imported sire and out of registered ewes, priced right for quick sale.

**ED GREEN, Howard, Kan.**

When writing advertisers, please mention KANSAS FARMER.

**AUCTIONEERS.**

**Missouri Auction School.**

(Largest in the World.) The school that gives you practice in actual sales in their own auction rooms. Next term January 5, at Kansas City. Address

**W. B. CARPENTER, 14th and Grand Ave., Kansas City, Mo.**

**LAFE BURGER**

LIVE STOCK AND REAL ESTATE Auctioneer Wellington - - Kansas

**COL. MOSS B. PARSONS**

Pure-bred Stock Auctioneer and General Salesman. A number of years experience. Terms reasonable. Write me for dates for fall sales.

**J. E. BUMPAS**

The Missouri Big Type Hog Auctioneer. Write for date and terms. **WINDSOR, MO.**

**Col. W. B. RYAN** LEBANON, KANSAS.

Live stock and farm sales auctioneer. The man that gets the high dollar and works for you like a brother.

**COL. OSCAR H. BOATMAN**

Live stock auctioneer. Graduate American Auction School. Write, phone or wire for dates.

**J. R. Triggs** LIVE STOCK AUCTIONEER

Valley Falls, Kansas.

**Col. L. R. Brady** Live stock auctioneer.

Manhattan, Kansas. Ask about my work.

**Col. L.H.Grote** Morganville, Kan.

Live Stock and General Auctioneer.

**James T. McCulloch** Live Stock Auctioneer.

Clay Center, Kansas. Write Early For Choice of Dates.

**W. B. CARPENTER**

Live Stock and Real Estate Auctioneer 14th and Grand Ave., Kansas City, Mo.

**Col. C. A. Hawk;** Live Stock and General Auctioneer.

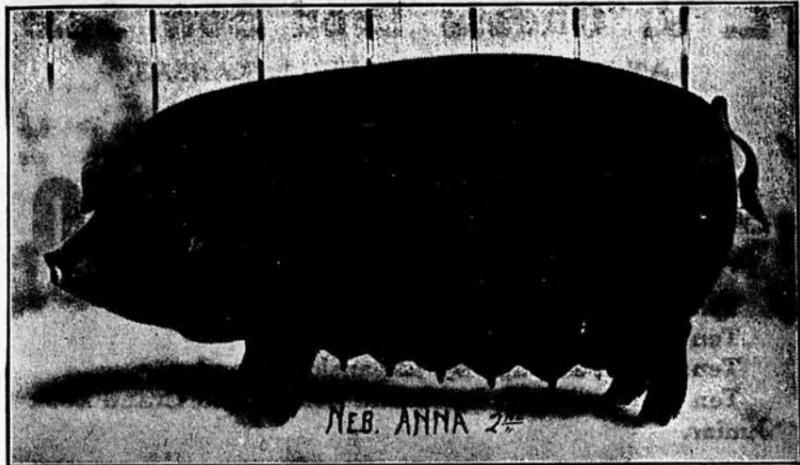
Effingham, Kan.

**JOHN D. SNYDER,**

Kansas Live Stock Auctioneer. Write or wire for date. **Hutchinson, Kan.**

**COL. N. B. PRICE**

Live Stock and General Auctioneer Mankato, Kansas.



# HIGGINS' GREAT BROOD SOW SALE

Friday, January 24, 1913

TEN TRIED SOWS AND THIRTY FALL AND SPRING GILTS.

They are sired by such noted boars as "The Professor," "Good Enuff Again," "King the Col.," "Crimson Wonder Again," "Valley King," and other prize winners. They are bred to "Cherry Col." and "Good Enuff Model 2d," two of the best high-priced young boars sold the past season. Send at once for our illustrated catalog describing the offering. Sale held in heated building, on Fair Grounds, at Abilene. Free hotel accommodations.

## JOHN T. HIGGINS, ABILENE, KAN.

COLS. REPPERT & BURTON, Auctioneers. JESSE JOHNSON, Fieldman.

### 40 HEAD CHOICELY BRED SOWS AND GILTS

## COMBINATION POLAND CHINA BRED SOW SALE

NORTON, KANSAS, SATURDAY, JANUARY 25, 1913

FORTY — HEAD SELECTED FROM TWO GOOD KANSAS HERDS — FORTY  
TEN TRIED SOWS  
THREE FALL YEARLINGS  
TWENTY-TWO SPRING GILTS  
FIVE FALL BOARS

This offering is a carefully selected one, and the sows and gilts are bred for March and April farrow to Big Bob, Reserve Chief, Blain's Last Hadley and Blue Valley Look. The offering includes daughters of Blain's Last Hadley, Blue Valley Look, King Hercules, Hadley Hutch, Gold Metal, Blue Valley Look, Union Leader. These sows are the 700-pound kind and will please all that see them. No offering of the season will contain more of the blood of noted big hogs. Write to either consigner for catalog. Free entertainment for breeders. Come or send bids.

J. W. LEEPER, Norton, Kansas

J. F. FOLEY, Oronoque, Kansas

Auctioneer—JOHN BRENNEN. Fieldman—JESSE R. JOHNSON.

## IMPORTED DRAFT HORSES



Importation arrived September 15, 1912. I have personally selected the best young stallions and mares I could buy in France and Belgium, two and three years old. They all have good breeding quality, sound and good colors, and will make ton horses. Every horse absolutely guaranteed. If you are looking for a first-class stallion or a good pair of mares, come and see me. I mean business. My barns three blocks from Santa Fe depot.

W. H. RICHARDS, - - EMPORIA, KANSAS

## BREEDERS' SALE

### 350 --- HORSES --- 350

In Coliseum, Bloomington, Illinois

JANUARY 28, 29, 30 and 31, 1913

On Tuesday, Wednesday, Thursday and Friday, We Will Sell

250 Imported and Native-Bred Registered Percheron, Belgian, French Draft, Shire and Clydesdale Stallions and Mares.

100 HEAD of Imported Stallions and Mares that will land by sale day.

100 HEAD of Imported Stallions and Mares that have been here a year.

100 HEAD of the BEST Registered Mares that ever went into an auction ring.

50 HEAD of Imported Fillies, one and two years old.

100 HEAD Reg. Stallions of the very choicest of breed'g and individuality

On Friday, January 31, 1913,

### 100 HEAD REGISTERED TROTTERS

Grade Draft, Single Drivers, Saddle and All-Purpose Farm Horses, Stallions, Mares and Geldings.

## 50 HEAD PONIES

IMPORTED and NATIVE-BRED REGISTERED Shetland, Welsh and Cross-Bred, from the best breeders in the state. Stallions and Mares good enough to head any herd; Mares and Geldings, broke, and safe for your wife or child to drive.

Catalog Ready January 12, 1913.

D. Augstin, Pres.

C. W. Hurt, Mgr., Arrowsmith, Ill.

## LAMER'S PERCHERON STALLIONS and MARES

### 75 Head of Imported and Home-Grown Percheron Stallions and Mares, at "Let Live" Prices

### Two-Year-Olds That Weigh a Ton

C. W. LAMER & CO.

Salina, Kansas



IMPORTED PERCHERON STALLIONS, JACKS AND JENNETS.

FOR SALE—5 imported black Percheron stallions, 4 to 6 years old; all tried and regular breeders; can show colts; weigh 1,800 to 2,200 pounds. One Morgan stallion, 7 years old; 10 large black jacks, 2 to 7 years old, all broke; good performers; can show colts and mares in foal. 10 head big black jennets, all bred to our imported jack. Prices reasonable. Write or come to farm 4 miles from Raymond or Chase. Our horses and jacks were shown at the Kansas State Fair at Hutchinson, September, 1912, in six different classes, and won in every class. Come and see us. J. P. and M. H. MALONE, CHASE, KAN.



PARK & FIRKINS' PERCHERONS AND JACKS. Imported and American-bred stallions. All blacks and grays, all registered in P. S. of America. Some ton 3-year-olds. Also Kentucky and Missouri Mammoth Jacks from 15 to 15 1/2 hands high, heavy bone and good performers, registered. Everything sold with safe breeding guarantee. Barns in town, 50 miles north of Kansas City, on Rock Island Railroad, 35 miles east of St. Joseph on Burlington Railroad. J. E. PARK AND A. A. FIRKINS, CAMERON, MO.



## ROBISON'S PERCHERONS

One hundred fifty percheron stallions, mares and colts. Fifty imported. All for sale.

J. C. Robison, Towanda, Ks.

## CARNOT PERCHERONS

Carnot colts won over everything at the great Iowa State Fair, in both male and female classes, and in heavy competition. Carnot is now proved to be one of the greatest breeding stallions of the breed, and his colts are sought everywhere. A number are still for sale, out of the best mares. Prices right. Address: W. S. COBSA, White Hall, Illinois.

MENTION KANSAS FARMER WHEN YOU WRITE.

## Imported Stallions: Percheron, Shire, Belgian

Each year we show our new importation the same month they land. Each year they win more than all other exhibitors combined. At the American Royal this year they won second on 4-year-old Percheron; first, third and fourth on 3-year-old; first and third on 2-year-old, and first and champion group of five stallions. Our horses are handsome and the best to buy; our guarantee and insurance the very best. PERCHERON IMPORTING CO., Chas. R. Kirk, South St. Joseph, Missouri.

## BRED SHROPSHIRE EWES

Both imported and American bred, and all mated to the best imported rams obtainable. These rams have won many important English prizes, as well as the most coveted American blue ribbons, and now head the flocks at Henley Ranch. Our flocks are large and we can offer you the best values on all classes of Shropshires. We absolutely guarantee all stock shipped. Place your order with us early, while the ewes can be safely handled.

HENLEY RANCH, GREENCASTLE, MO.

Members American Shropshire Registry Association. Henley & Vrooman, Managers.

## Closing Out Sale of Jacks and Jennets

At E. G. Davis & Son's Barn  
Columbia, Missouri

**Thursday, Feb, 6, 1913**

**FORTY HEAD.**

**Twenty-five Jacks, old enough for service; 15 Jennets.**

Everything registered, 15 to 16 hands high, 2 to 6 years old. These jacks are the tops of three states. They were bought at weaning time and several of them cost over \$500 a head at five months old. There are some herd headers in this bunch, good enough to head any herd. As this is a closing out sale, everything will be sold without reserve or by-bid. You will find more jacks in this sale with 9 to 9½-inch bone than you ever saw in a sale of this size. For catalog or other information, address

**A. E. Limerick & Son**

or

**W. E. Bradford**

**Columbia, : Missouri**

C. J. Hieronymus and Kemp Hieronymus, Auctioneers.  
W. J. Cody, Fieldman for Kansas Farmer.

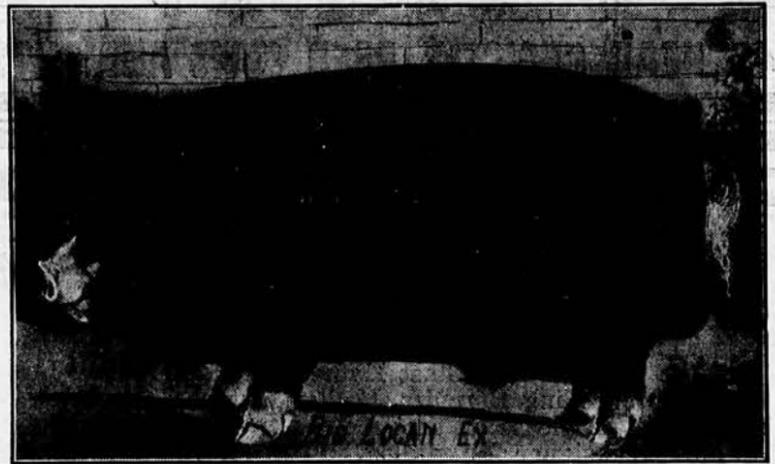
## L. V. Okeefe Bred Sow Sale

AT FARM NEAR STILWELL, KANSAS,

**February 4, 1913**

**50 Head of Bred Sows and Gilts 50**

Twenty Fall Yearlings by Big Logan Ex.  
Ten Fall Yearlings by John Hadley.  
Ten Fall Yearlings by Expansion Wonder.  
Ten fall yearlings by Grand Leader and Grand Look Junior.



I am selling 50 head of the best sows and gilts I ever offered, and they are all bred to my herd boars for early March and April litters. They will make large, roomy brood sows. Send for my catalog and arrange to come and spend a day with me whether you buy or not. Your presence will be appreciated. If for any reason you can not come, send a bid to O. W. Devine, representing Kansas Farmer, who will buy for you, and I guarantee satisfaction.

**L. V. OKEEFE, Stilwell, Kans**

Auctioneers: Col. R. L. Harriman, Col. Andy James.

## Monnesmith's Annual Duroc Jersey Bred Sow Sale

At Formoso, Kansas,

**Wednesday,  
January 29,  
1913**

**35 Representatives  
of the Best Families  
and all Good Individ-  
uals.**



**THREE TRIED SOWS SEVEN FALL YEARLINGS  
TWENTY-FIVE SPRING GILTS**

**All bred for March and April farrow to Kansas Special  
by Valley Chief and Col. Gene by B. & C.'s Col.**

The gilts were sired by Missouri Goldfinch Climax, Bancroft's Wonder by Bonnie K., Valley Chief Again by Valley Chief, and Mankato Col. by G. C.'s Col. The gilts by Mankato Col. are all bred to Col. Gene, making line breeding of the very best. The tried sows include some of my best breeding sows and are put in for attractions. The offering is a good, useful one, and has had my personal attention, so I feel sure it is one of the most useful that will be sold this year. Write for catalog and send bids to fieldman for this paper in my care.

**W. E. MONNESMITH, FORMOSO, KANSAS**

Auctioneers: John Brennen, N. B. Price, C. A. Landreth.  
Fieldman, Jesse R. Johnson.

## Duroc-Jersey Bred Sow Sale

TO BE HELD AT THE

**Golden Rule Stock Farm**

**Asherville, Kansas**

**Thursday January 30th, 1913**

Fifty-five head, consisting of 10 tried sows, 30 fall yearlings, 5 spring gilts and 5 fall boars ready for service. This offering represents the leading families of the Duroc breed and are bred for early farrow to Dreamland Col., L. C.'s Defender and River Bend Col., three as good boars as can be found in the West. The blood of Crimson Wonder, Ohio Chief, Kant Be Beat, Tip Top Notcher and the Col. families predominates, and their individual merits are up to the blood they represent. You will find some show prospects among them, and all are of the useful kind that will make good anywhere. All are fully immuned and are an absolutely safe investment. These sows have plenty of size, plenty of bone, and are very smooth, the easy feeding kind. The fall yearlings are litter mates to the barrows that I sold in Kansas City, weight 356 pounds at 15 months old, topping the packer market that day at \$7.82½. This will be one of the big sales of the season. Write for catalog and plan to attend. If you cannot attend, send your bids to J. R. Johnson in my care and they will be handled properly. Dinner will be served at 12 o'clock and sale will begin at 1 p. m.

**Leon Carter, Owner**

Auctioneers: Col. John Brennan, Col. Will Myers, Col. N. B. Price.  
Fieldman, J. R. Johnson.

# FRANK IAMS' 1912 TOPNOTCHERS

**Key Buyer:**—  
Get into "Iams' Money-Saving Game." See Iams and his "Peaches and Cream" Imported Stallions, "Prize Winners" that he sells at \$1,000 and \$1,400 (few higher). Imported Mares—"Topnotchers"—at \$700 and \$1,000.  
"Ikey," Be a "Wise Guy"—Buy "Show Horses" of Iams—who has crossed the Ocean 50 times for horses and sold 4,444 Registered Horses. "Iams' 30 years of success" makes him a safe man to buy from at Special Low Democratic prices. "Everybody is Doing It."



**IAMS AND PEACHES AND CREAM PERCHERON PARIS WINNERS.** for \$2,500 to \$5,000. Imported mares, \$700 and \$1,000. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance at cost. IAMS buys and sells every stallion himself. Saves buyers \$1,000 in commissions and middlemen's profits. He buys stallions by "trainload." He speaks the languages—(saving 20 per cent). He is not in the "Stallion Trust." He pays no "Slick Salesman" a commission to help "do you." He has no 2 to 10 partners—to share profits. He "pays cash" for his horses—and sells "top notchers" by "hot advertising" and having "the goods." "Bik Ikey," leave your "happy" home and buy a "top" stallion or pair of imported mares (of Iams) that bring colts that sell at \$500 each. Papa, don't let those "auction men" "hand you a lemon" in one of those "so-called" "American full-bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." Then we will "all wear diamonds." Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half-million dollars." References—1st Natl. and Omaha Natl. Banks, Omaha; Packers Natl. Bank, So. Omaha, Citizens State, 1st State and St. Paul State Banks, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

Are the real "medal winners"—sensational show and business horses of note, "ripe peaches" from the "select 400." Big, classy "Peaches and Cream"—"Black Boys." The "Iams Brand" of drafty "top notchers." Iams' 1912 importation of Percheron and Belgian stallions and mares has arrived by "special train." "Ikey Boy," smile sweetly, and hundreds of Iams' satisfied customers "will sit up and take notice" that Iams, the "King Pin" horse importer, is still "doing business" at the "old stand" (and good for 50 years). Iams is "pushing" his horses to the front. The big "Peaches and Cream" "Boys and Girls" are attractions that can't be overlooked. Iams mesmerizes buyers with "real drafters" at "bargain prices," and having the "horses as advertised," Iams' "competitors" and "hammer knockers" are "boosting Iams" by their "knocks," until now he is known as the "Millionaire Horseman," and on "Easy Street," and growing fast. Ikey, "Come on along, come on along," and sing Iams' song. He is selling these "aristocratic," fancy "Black Boys" cheaper than ever—or better horses for less money—\$1,000 and \$1,400 (few little higher). Iams has

## 100---PERCHERON AND BELGIAN STALLIONS AND MARES---100

They are "Models"—"Humdingers." They are 2 to 5 years old, weigh 1,700 to 2,500 lbs.; 80 per cent blacks, 50 per cent ton horses. All "registered," approved and inspected by Governments of France and U. S. and certificates "stamped O. K." All "sound," "bell-ringers" ("Iams' kind"—need no "State Law" to make "them sound"). Many "prize winners" and "gold medal horses." Big, drafty "top notchers," with big bone, quality, style, finish and action to burn. They are "Eye-openers." Larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "buyer's hat." "Georgie, dear," Iams made a "big killing" by buying his horses in Europe in October, 1912. "Dry weather," "bad crops," "close money," "war scare" and "Iams' cash" caused the "prize winners" and "tops" to be thrown on the market for a "good selling."

## 'IAMS' 'CUT THE MELON' AND BOUGHT 'RIPPERS'

at "knockout prices." Iams will give his customers the benefit of his "good buy." "Ikey, boy," come on down town—get into Iams' Get Rich Wagon and save \$1,000 on a "top stallion." Everybody is doin' it" (and you wear the diamonds). Iams is a "big fly in the ointment" in the horse world. "He keeps the Gang guessing." "He is up-to-the-minute." Iams' "daily horse show" will be a day of "profit and pleasure," and worth going 2,000 miles to see. Iams sells only "prize winners" and best big drafters. He sells no "International tail-ends." No "auction stuff" or "peddlers' horses." No American so-called full-bloods with questionable breeding (only imported horses). Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D," waltz me around once again "Ikey;" land me at Iams' box office and importing barns. Full to "the roof" with "Black Boys" (and all must be sold). Reduced prices. All the world knows Iams and his "Peaches and Cream" horses. 1912 was Iams' best business year. 1913 promises to be a bumper year to Iams and his customers. He saved \$300,000 to stallion buyers in 1912. Watch "Iams' smoke." Iams' 30 years of successful business makes him a safe man to do business with. Iams sells horses "on honor." A boy or a lady can buy as cheap as a man.

## IAMS, THE "SQUARE DEAL" HORSEMAN

makes every statement in ad. or catalog good—or you get the \$500 he hangs up. Iams guarantees to sell you a better imported stallion at \$1,000 and \$1,400 (few higher) than are sold to stock companies 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance at cost. IAMS buys and sells every stallion himself. Saves buyers \$1,000 in commissions and middlemen's profits. He buys stallions by "trainload." He speaks the languages—(saving 20 per cent). He is not in the "Stallion Trust." He pays no "Slick Salesman" a commission to help "do you." He has no 2 to 10 partners—to share profits. He "pays cash" for his horses—and sells "top notchers" by "hot advertising" and having "the goods." "Bik Ikey," leave your "happy" home and buy a "top" stallion or pair of imported mares (of Iams) that bring colts that sell at \$500 each. Papa, don't let those "auction men" "hand you a lemon" in one of those "so-called" "American full-bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." Then we will "all wear diamonds." Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half-million dollars." References—1st Natl. and Omaha Natl. Banks, Omaha; Packers Natl. Bank, So. Omaha, Citizens State, 1st State and St. Paul State Banks, St. Paul, Neb. Iams buys big ad space because it is cheaper than flannel-mouthed horse salesmen.

# ST. PAUL, NEBRASKA.

## Platte County Jack and Jennet Sale of Eighty Head

at the  
**FAIR GROUNDS, PLATTE CITY, MISSOURI**  
**Tuesday, February 4th, 1913**

**FIFTY HEAD OF JACKS** from 14 1/2 to 16 hands high. Yearlings to matured jacks, many with show records. Others that have sired American Royal and State Fair winners.

**TWENTY JENNETS**, yearlings and up, including jennets with jack colts at side.

**No Better Offering Was Ever Placed Before the Public.**

Each animal offered will be sold under the owner's statement and guarantee.

**These Jacks are Sired by Mammoth Missouri, Kentucky and Tennessee Jacks**

The kind that our state and nation are proud of. You are invited to come the day before, as all of the jacks will be in their stalls and numbers on them corresponding with the catalog numbers.

Coming the day before will enable you to measure and mark the animal that you wish to buy.

If you desire a catalog, write the sales manager for one.

**J. B. DILLINGHAM, Manager of**

## Platte County Jack Sales Company

Dillingham Sells 100 Head Big-Bone Poland China Sows,  
**February 15, 1913.**

W. J. CODY, Fieldman for Kansas Farmer.

## Long's Great Offering of MASTODON POLANDS

At Harlan, Iowa

**FRIDAY, JANUARY 24, 1913**

THE SENSATIONAL OFFERING OF BIG-TYPE  
BRED SOWS OF THE SEASON.

Nine tried sows, 33 fall gilts and 24 spring gilts that are right in every way—strictly big type.

Tried sows sired by A Wonder and out of Lady Mastodon 85th, she by Columbia Chief 2d. Tried sows by A Wonder and out of Lady Mastodon 79th, she by Longfellow B.

The great sow, Lady Mastodon 90th, by A Wonder, dam Lady Mastodon 85th, will go in this sale.

Fall gilts sired by Mastodon Leader, dams A Wonder sows. Fall gilts by B Wonder and out of Duchess bred sows. Spring gilts by B Wonder and Mastodon Leader and out of Mouw bred sows. This will be the greatest offering in the history of Maple Hill Mastodon Poland herd. Some of the offering bred to B Wonder by A Wonder, some to Mastodon Leader by Mastodon Sign; others to Black Surprise by Gold Metal by Bell Metal, three of the great boars now in service.

Bids sent to fieldman or auctioneer in my care will receive careful attention. Write at once for catalog, mentioning Kansas Farmer. Catalogs sent only on application.

**JAS. G. LONG, Harlan, Iowa**

W. J. CODY, Fieldman

W. H. COOPER and N. G. KRASCHEL, Auctioneers.

### PIONEER STOCK FARM HORSES AND JACKS.

Percherons, Belgians and German Coach stallions and mares, also mammoth jacks. Five-year-old horses weighing from 2,100 to 2,250 pounds; two-year-olds from 1,650 to 1,975; yearlings weighing 1,425. We have an extra good lot of big, high-class jacks. We give a safe breeding guarantee with every animal and we price our stock well worth the money.  
JOHN W. WADDILL, Brashear, Missouri.

MENTION KANSAS FARMER WHEN YOU WRITE.

### 50—PERCHERON STALLIONS—50

Bishop Brothers have 50 big boned stallions that weigh 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business, quality considered. Write us what you want.  
BISHOP BROS., TOWANDA, KAN.

# BIG BONE BIG TYPE POLAND BRED SOW SALE CIRCUIT

## 40 Carefully Selected, Big, Smooth Polands

AT FARM NEAR MILFORD, KANSAS,

Monday February 3, 1913

3 TRIED SOWS            5 CHOICE JUNE BOARS  
4 FALL YEARLINGS    27 SPRING GILTS

Sows and gilts all sired by or bred for spring farrow to my big smooth boars, Model Taft and Model Wonder, grandson of A Wonder. They are out of a line of the biggest and most prolific sows of the breed,



many of them tracing to Missouri Chief. Among the attractions will be two choice gilts and one boar of September farrow sired by Model Wonder and out of a daughter of Old Expansion. The offering will be sold in nice breeding form and not fat. Catalog upon application. Send bids to fieldman or auctioneer in my care at Milford. Parties from a distance, stop at Milford Hotel as my guests. Free transportation to J. W. Anderson's sale the day following.

### O. R. STRAUSS

MILFORD, KANSAS

Auctioneer, James T. McCulloch.

Fieldman, Jesse R. Johnson.

## Clay Jumbo Polands at Auction

At Farm Near Leonardville, Kansas,

Tuesday February 4, 1913

45 Head, Mostly Sired by or Bred  
to the Great Clay Jumbo

25 TRIED SOWS            5 SELECTED FALL GILTS  
10 SPRING GILTS        5 FALL BOARS

About half of the tried sows were sired by Clay Jumbo, others by Expansion's Son, Tulon Prince, Gold Metal, Looks Choice, Colossus and Expansive Wonder. On dam's side rich in the blood of Wisconsin Giant, Hadley, What's Ex, and Chief Golddust. I am changing locations and this is the only reason for selling these tried sows. About all of the gilts were sired by Clay Jumbo by Nebraska Jumbo and out of a Gold Metal sow. These gilts are bred for spring farrow to my young herd boar, a son of Big Joe and out of Wonder, Giantess by the noted A Wonder. I will also sell about 30 head of grade Shorthorn cows and heifers. Cattle sale at 10 o'clock. Write for catalog. Free entertainment at either hotel in Leonardville. Free transportation to the J. L. Griffiths sale next day. Send bids to auctioneer or fieldman in my care at Leonardville.

### J. W. ANDERSON

LEONARDVILLE, KANSAS

Auctioneer, James T. McCulloch.

Fieldman, Jesse R. Johnson.

## Griffiths' Mastadon and Wonder Poland China Bred Sow Auction

AT FARM NEAR RILEY, KANSAS,

Wednesday February 5, 1913

36 Head in All, Big, Wide as a  
Wagon and Prolific

EIGHTEEN TRIED SOWS AND YEARLINGS

Four July Boars

Fourteen Spring Gilts

The tried sows include daughters of Colossus, Grand Look, and other great boars. The fall yearlings and spring gilts were sired by Big Bone Pete, bred in Iowa and coming of the biggest strains. Few gilts by John Osborne. Sows and gilts are in pig for spring farrow to the two boars mentioned and Chief Price Best by Chief Price Again. The attractions in the sale will be four litter sisters by Big Bone Pete and out of the great sow, Lady Wonder 4th, and two spring gilts by the same boar and out of Lady Wonder 1st. These gilts are outstanding. Two more sisters are out of Lady Wonder 3d. This family of Big Wonder sows must be seen to be fully appreciated. No. 14 in the sale is a gilt out of Lady Wonder 5th, the sow that topped our last sale at \$107. A catalog of this sale will be sent for the asking. Breeders will find entertainment at Riley or Leonardville. Free transportation to the James Arkell sale day following. Send bids to fieldmen or auctioneers.

### J. L. GRIFFITHS

RILEY, KANSAS

Auctioneer, James T. McCulloch.

Fieldman, Jesse R. Johnson.

## Arkell's Big Poland China Sows at Auction

At Farm Near Alida, Nine Miles Northwest of

Junction City, Kansas.

Thursday February 6, 1913

40 Head Bred and Fed For Size  
and Prolificacy

Six Tried Sows.

Twenty-five Spring Gilts.

Ten Summer Boars and Gilts.

The sows and spring gilts are all bred for spring farrow, the tried sows nearly all to our great breeding boar, First Quality, and the gilts to Pan Look. The gilts are daughters of First Quality, and for size, quality and heavy bone are the equals of any that will be offered this year. They are out of dams by Smith's Big Hadley and other boars of like note. The sows included are among our best and go in because we want to put up a creditable offering. Among the gilts are a few by Victor's Perfect by Big Victor. Write for catalog. Attend, or send bids to the fieldman for this paper in my care at Junction City. Free entertainment and transportation to and from the farm.

### JAS. ARKELL

JUNCTION CITY, KANSAS

Jas. T. McCulloch, Auctioneer.

Jesse R. Johnson, Fieldman.

# Charters' Greatest Poland China Bred Sow Sale

## Butler, Mo., Thursday, February 6, 1913

### Fifty Head of Tried Sows, Fall Yearling and Toppo Spring Gilts, Six Boars, Every Hog Absolutely Immune

Sows Bred for Early Farrow to Our Two Great Boars, **WHITE SOX CHIEF** by **A WONDER**, and **LONG PRICE** by **BIG TOM**.

The offering is sired by Grand Look Jr., Long Price, and Charters' Grand Look, and a few by other noted sires. Iron-clad guarantee on every sow sold. Sale right in town, in heated pavilion. We extend to all the finest entertainment our city affords. Write at once for catalog. You can not afford to miss this sale. Come early.

**W. H. Charters, Jr.**

**Butler, Mo.**

Send bids to O. W. Devine, Fieldman, representing Kansas Farmer.

Auctioneers: COL. JAMES W. SPARKS, COL. C. E. ROBBINS.

## J. O. JAMES' BIG ORANGE SALE, FRIDAY, FEB. 7, 1913

### AT BRADYVILLE, IOWA

SIXTY HEAD OF THE GREATEST BIG TYPE POLANDS

Twenty-three head, mostly fall gilts, sired by Big Orange and bred to Big Sensation, one of the best breeding boars in service. Gilts by Colossal, Long King's Equal, Big Sensation, A Wonder and Gritter's Best. Tried sows by Big Sensation, Pawnee Lad, Bix Ex, Big Hadley 2d and Ling King, bred to such boars as Big Orange, Gritter's Best and Ott's Big Orange, the best yearling boar now in service. If you want the best big-type Poland, attend this sale. Send for catalog at once.

H. S. DUNCAN, Auctioneer.

J. O. JAMES, Bradyville, Iowa

## Horton & Hale's

### DUROC SOW SALE

AT

**Rushville, Missouri**  
**Saturday, Feb., 1st, 1913**

45 HEAD OF TRIED SOWS AND GILTS.

Our offering will include tried sows by Horlon's Choice, Crimson Rambler, Butler Orion, and other good Duroc sires. Five line-bred Crimson Rambler yearling gilts bred to a Prince of Col's boar for early farrow. Gilts by Col's Pride, a line-bred Col. boar and out of Princess Surprise, champion and grand champion at Interstate Live Stock Show, St. Louis, in 1909. Gilts out of Rose Col. 2d, highest priced sow in Edmond Shade's sale, 1910. Extra good gilts by Old Crimson Rambler 78303 and out of Top Notcher Queen by Top Notcher I Am. We will sell one of the best sows of our herd with nine pigs by her side. Also sell our young herd boar, E. A.'s Crimson Rambler. Breeders will find out entire offering right in every way. For catalogs address E. A. Horton, care Wyeth Hardware Co., St. Joseph, Missouri. Bids sent to auctioneer or to fieldman in our care will be treated fairly.

**HORTON & HALE**

**RUSHVILLE, MISSOURI**

W. W. CARSON, Auctioneer. W. J. CODY, Fieldman.

## ROCK BROOK FARMS

### DISSOLUTION SALE



125 REGISTERED HOLSTEIN  
FRIESIAN CATTLE



At the Live Stock Sale Pavillion  
Union Stock Yards

**South Omaha, Nebraska**

**Tuesday and Wednesday, Feb., 4 and 5, 1913**

80—HEAD OF REGISTERED CATTLE—80

Consisting of Forty Cows, Three to Eight Years Old, Milking or Soon Fresh; Twenty Yearlings and Two-Year-Old Heifers.

These females are all bred to sons of either King Segis, King of the Pontiacs, or De Kol 2d's Butter Boy 3d, three of the greatest bulls of the breed. Ten heifers under one year, some of them granddaughters of the above bulls. Ten bulls ready for service, and all out of great producing cows. More A. R. O. blood in these than any bulls offered in the west. Forty-five high grade young Holstein cows and heifers, all milking or soon due to calf by registered bulls. Every animal over six months is tuberculin tested. The results of 30 years of careful breeding is represented in this sale. Catalog ready about January 25, and will be mailed only on application.

**Henry C. Glissmann**

Rock Brook Farms Station B, Omaha, Neb.

The West's Largest Importing and Breeding Establishment.

## IMPORTERS AND BREEDERS OF

Percheron Belgians and Shire Stallions and Mares.  
120 Head to Select From.

Our stallions and mares are strong and massive, with great quality, style and conformation, with splendid color and dispositions. They are selected with an eye single to the wants of the most critical American buyers, and we can sell them for less money than any one in the business, quality considered. The stallions will go into any community and command the best mares, command the men who are the best pay and who take the best care of their stock. Let us know your wants. We can suit you in both price and quality.

**L. R. WILEY, EMPORIA, KANSAS**

### CEDARSIDE STOCK FARM, WAVERLY, IOWA

wants to sell you some nice OXFORD ewes; also, 15 rams; all from imported rams and part from imported ewes. The ewes will be bred to a 400-pound ram. Some nice HOLSTEIN bull calves, with several 30-pound records backing. Get busy and write me. C. A. NELSON.

**Be Sure to Say** When you write **I Saw Your Ad**  
our Advertisers  
In this paper. Our advertisers like to know from which papers their orders come, to the farmer.

# BUSTED!

**Biggest Price Wrecking Sale in the history of this Company. An excellent opportunity to save 30 to 50 per cent.**

# PRICES

**Never again will such remarkably low prices exist. Don't delay—Send your order at once or write us. Act now.**

## ROOFING

**Corrugated Steel Roofing**  
**1 1/4c Per Square Foot**

Here is the chance of a lifetime to buy the best roofing in the world, at a mere fraction of its real value. Our enormous buying power enabled us to pick up for spot cash a stock of this brand new, perfect corrugated, "V" crimped and Standing Seam Roofing and Brick Siding, at a tremendous sacrifice—way under what it is actually worth. Immediate cash needed made possible this purchase. Just another chapter added to the long list of our famous bargain sales.

**Corrugated Steel Roofing**  
**Practically Indestructible**

There is nothing else that compares with corrugated steel roofing for real protection. It makes a long, lasting roof—resists fire, rain, frost, wind, sun and lightning proof—warmer in winter—cooler in summer; and under ordinary circumstances does not leak, rot or warp, neither does it taint rain water. You can depend upon it that Corrugated Steel is the best material for roofing, siding and ceiling.

At 1 1/4c per square foot, we furnish our grade AB-700 Steel Roofing, in sheets 22 x 24 inches x 1 1/4 inches. This price is delivered on board cars at Chicago.

**Galvanized Steel Roofing**  
**2 3/4c Per Square Foot**

Another big Steel Roofing Bargain. Several thousand squares of the very highest grade specially coated, corrugated, galvanized roofing and siding, made of specially prepared steel, of superior quality. Best roofing and will last indefinitely. We will furnish it in suitable lengths for any purpose. Only a limited quantity on hand, so we urge you to send us your order immediately. Don't wait to write us again—order today, while this stock exists. Price only 2 3/4c per square foot, and will outfit 4 to 1. Just drop us a line, and tell us the size of your steady and general facts, and we will help you to select proper sheets. If you are not ready to use the material now, we will reserve it for future delivery. If you will give us a small deposit on account. This price of 2 3/4c per square foot is for our Lot AB-800 corrugated material, and is delivered on board cars at Chicago. If you prefer some other style, we will furnish it. We have this same grade in "V" crimped, Standing Seam and Brick Siding. Samples on application.

**Ready Roofing With Supplies**  
**62c Per 108 Square Feet**

We have several thousand squares of a superior quality Ready Roofing, which we are offering in our AJAX BRAND, 1-ply, at a price of 62c per square of 108 square feet, including necessary cement and caps to lay it. This is undoubtedly the most remarkable bargain ever offered in Ready Roofing. This famous brand is put up 8 or 4 pieces to a roll. The price of 62c per square of 108 square feet is loaded on board cars at Chicago. We will, however, make a freight prepaid price on this same grade of roofing, including nails and necessary cement of 75c per roll of 108 square feet, and at this remarkably low price

**We Pay the Freight**

in full to any point east of Kansas and Nebraska and North of the Ohio River.

We will also furnish 2-ply, at 90c; 3-ply, at \$1.05. This Ajax Roofing is guaranteed to wear as long, and give as good service as any Rubber Surface roofing on the market.

We have other grades of roofing which we offer 20 per cent lower than others quote. Samples free. Get our free Roofing Book before buying roofing of any kind. This is a chance to lay in your roofing. You must send in your reservation at once—use the coupon shown in this advertisement, or merely write us a letter and tell us where you saw this advertisement. While the stock we have on hand would be considered large for any other concern, remember we have hundreds of thousands of customers who are waiting and watching for these bargains, and who will quickly take advantage of our offer; therefore, we urge you to get in your order at once, even though you are not ready to have the material come forward today. Send us your order and tell us when you want it shipped, and we will ship it according to your requirements. Do not overlook this chance—take full advantage of this offer while it lasts.

**Send for Special Roofing Catalog and Samples**

Write at once for our Special Roofing Catalog. Free samples and full instructions for laying roofing. No need to write a letter, simply use the free inquiry coupon shown in this advertisement. We will understand that you simply want full information, samples, prices and specifications, which will be sent you at once, prepaid. Just send your name and address. If you are in a big hurry, send in your order direct from this advertisement. We will fill it for you correctly, and will ship forward without any delay. In any event, write us today.

## SMASHING BARGAINS

## EXPLANATION

The Chicago House Wrecking Company known to the commercial world as the "Great Price Wreckers" is easily acknowledged the bargain house of the earth.

Our Mammoth plant covers 40 acres, and our list of customers are numbered by the hundreds of thousands, and include people from every walk in life. We sell practically everything under the sun at unbeatable prices. We buy our goods at Forced Sales, taking advantage of Sheriff's, Manufacturers' and Auction Sales. In this way we can sell brand new, clean high-grade goods at prices, in many instances even less than the cost of manufacture.

### We Supply Everything Needed

Our stock includes everything for the farm, home and personal use. Building Material—Lumber, Roofing, Doors, Millwork, Fencing, Hardware, Plumbing, Heating Apparatus, Furniture, Household Goods, Clothing, Shoes, in fact, every single article needed to clothe a man, woman or child. Sporting Goods, Harness and Vehicles, Jewelry, Sewing Machines, Groceries, etc. You cannot think of a single manufactured article but what we can supply it to you at a saving in price.

### OUR GUARANTEE

Our capital stock is \$2,000,000. Any bank or Commercial Agency, or any publisher will confirm our responsibility. We have advertised in this paper for many years. Ask its publisher what he thinks of the Chicago House Wrecking Company; get his personal opinion of the value, and our square methods of doing business. We guarantee each and every article that we sell to be exactly as per our representations. Should you buy anything from us that fails to come up to our representations, or does not agree with your expectations, we will take back such unsatisfactory merchandise at our freight expense. We want satisfied patrons.

# LUMBER

Complete houses and barns at an enormous saving. Never before in the history of Building Material has such an opportunity existed. We offer high grade, brand new complete lumber and building material needed for the construction of houses and barns at lower prices than ever before.

**20,000,000 Ft. of New Lumber at Our Yards and Warehouses Ready for Quick Delivery**

We have upwards of twenty million feet of first-class, brand new lumber for the construction of buildings of every kind. A wonderful stock of the very finest millwork, interior trim, etc.—enough material to construct cities and villages everywhere. It is our determination that 1913 will be the "Banner" year in the history of our Great Lumber and Millwork department, and the way we will accomplish this, is by quoting prices that will undersell any possible competition. The proof of this is in our catalog and literature.

Write today and tell us what you contemplate improving or building during this Spring—talk to us plainly, and we promise you the advice straight from the shoulder. No other concern in the world is equipped such as we are. Right in our main yard and warehouses, at Chicago, we can load you out complete, at one time, and in one carload, every single article required for the improvement of the building you have in mind. No where else can you go and get such service.



**\$725.00**

**Buys the material to build this 2-story modern, 8-room residence. Write for description.**

### Personal Service To You

You can get the kind of service that will give you absolute satisfaction—satisfaction from the word "go." If you have ideas of your own as to the kind of building that you want, we will give you the benefit of the Greatest Architectural Department in the world. Will furnish you with plans according to your own ideas, and will quote you a price on the material that will make you a wonderful saving. Dollars saved are dollars earned. Write today for our Book of Plans and Latest Catalog of Building Material and Supplies.

## GET THESE CATALOGS FREE



**Roofing Catalog**  
A book covering this subject complete. Tells you how to select the best kind of roofing for general purposes; also describes our Siding and Ceiling. It's free. Write for it today.

**Wire and Fencing Catalog**  
A complete description contained in this book of all our wonderful bargains in Woven Wire, Nails, Bolts, etc.

**Book of House and Barn Plans**  
Contains 100 designs of different kinds of buildings and houses, from \$147.40 up. Also shows the latest style barns. It's free.

**Building Material Catalog**  
A 200 page book of bargains in Millwork, Lumber, Paints, Plumbing, Heating Apparatus, Hardware, etc.—just what you need. Write for it today.

## FENCING

**Brand New Wire Fencing Less Than 1c Per Running Foot**

Biggest of all offers of the past. We come to you with the most wonderful proposition ever known, and offer you the very best woven wire fencing at a fraction of its real value; lower in price than ever before, not withstanding that all other merchants and manufacturers have advanced their prices on fencing. We are determined to simply get all the business in sight, and with that in view, we bought up from manufacturer's sales, 150 carloads of High Grade Woven Wire Hog, Cattle, Field and Poultry Fencing, Barb Wire and Nails, in quantities sufficient to take care of our regular customers and those who will quickly respond to this advertisement.

**Barb Wire Less Than 2c Per Rod**

Galvanized, two-point Barb-Wire, full weight (not the light kind) put up regular on spools, containing about 100 lbs. to a spool. It is made of No. 12 1/2 wire, with good weight barbs. Price per 100 lbs. during this sale, only \$1.95. Order by Lot No. AB-600. Several thousand spools of this Barb Wire, Painted, price per 100 lbs. \$1.75. Order by Lot AB-500. Also have in stock 1000 spools of light weight, new galvanized barb wire, put up 30 rods to the spool, made of No. 14 galvanized wire, No. 15 barbs, barbs 5 inches apart; price per spool of 30 rods \$1.45. Lot AB-400. We also have several other bargains. You never had a chance like this before, and we advise that you send us your order today. Don't wait until the material is sold—we cannot hold this quotation open.

**Galvanized Hog Fencing**  
**At a Material Reduction in Price**

100,000 rods of 28 in. Galvanized Steel Spring Wire, 28 in. high, hog fence, put up in 30, 20, 40 and 60 rod rolls, made with 7 bars, spaced 12 in. apart, with No. 9 top and bottom wire, No. 11 intermediate wire, heavier than the regular fencing offered. Price per rod, during this sale, only 15c. Order by Lot AB-900. Same fencing spaced 6 in. apart, per rod during this sale, only 21c. Order by Lot AB-1000. Other heights at proportionately low prices.

**High Grade Poultry Fencing**  
**48 in. High, Per Rod 27c**

A complete stock of all heights of Woven Wire Fencing for every purpose. Do not delay your order, but send it in at once, even if you are not ready to have it shipped. We will hold the material ready to deliver when you want it.

**Several Carloads of Galvanized Wire Shorts**

This is smooth wire, put up 100 lbs. to a coil, first-class for general use. Comes in sizes from 6 to 15 gauge. Price for 9 gauge, \$1.25 per 100 lbs. Lot AB-1300. Other sizes in proportion.

**Some Big Bargains in Nails**

At last we have the bargain of bargains. 10,000 kegs of genuine galvanized wire nails; will outfit all other kinds. Put up in regular kegs. Price per keg of 100 lbs., as follows:

- 10 pennyweight, \$2.00
- 8 pennyweight, \$2.10
- 6 pennyweight, \$2.15
- Shingle Nails \$3.00

Also 5,000 kegs of Nails, mixed all kinds in a keg; good assortment, handy to have around your workshop. During this sale only, per 100 lbs., \$1.45. Order by Lot AB-1100. We have other bargains in nails.

Also, in this same job, we have 5,000 kegs of Fence Staples, galvanized; per keg, \$2.00. Lot AB-1400. Crimped wire for reinforcing, cut to any desired length; per 100 lbs., \$2.25. Lot AB-1300.

We have bargains in every line. Write us today for our Wire and Fence Catalog, but the best thing for you to do is NOT TO DELAY, BUT SEND IN YOUR ORDER, AND WE WILL HOLD FOR SHIPPING INSTRUCTIONS.

## SEND IN THIS COUPON

CHICAGO HOUSE WRECKING CO.  
35th and Iron Streets, Dept. AB 49 Chicago

I saw your "Busted Price" advertisement in \_\_\_\_\_ and am interested in the following:

Without any obligation or promise to buy, please send me the following catalogs and full information free:

- (Put a check mark opposite the books you want)
- Special Catalog and samples of Metal Roofing.
  - Special Catalog and samples of Ready Roofing.
  - Catalog of Lumber and Building Materials.
  - Book of House and Barn Plans.
  - Catalog of fencing and wire.
  - Catalog of house and Barn Paints.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
County \_\_\_\_\_ State \_\_\_\_\_  
R. R. \_\_\_\_\_ P. O. Box \_\_\_\_\_

**CHICAGO HOUSE WRECKING CO. Dept. AB 49 CHICAGO**