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Finney County had 30½ acres of sugar-beets last season. The acreage contracted for 1905 promises to go to 1,000. It had reached 800 February 11.

An inquirer wants to know who our long-time contributor, Geo. C. Wheeler, is. Mr. Wheeler is assistant in feeding experiments at the Kansas State Agricultural College. He is a

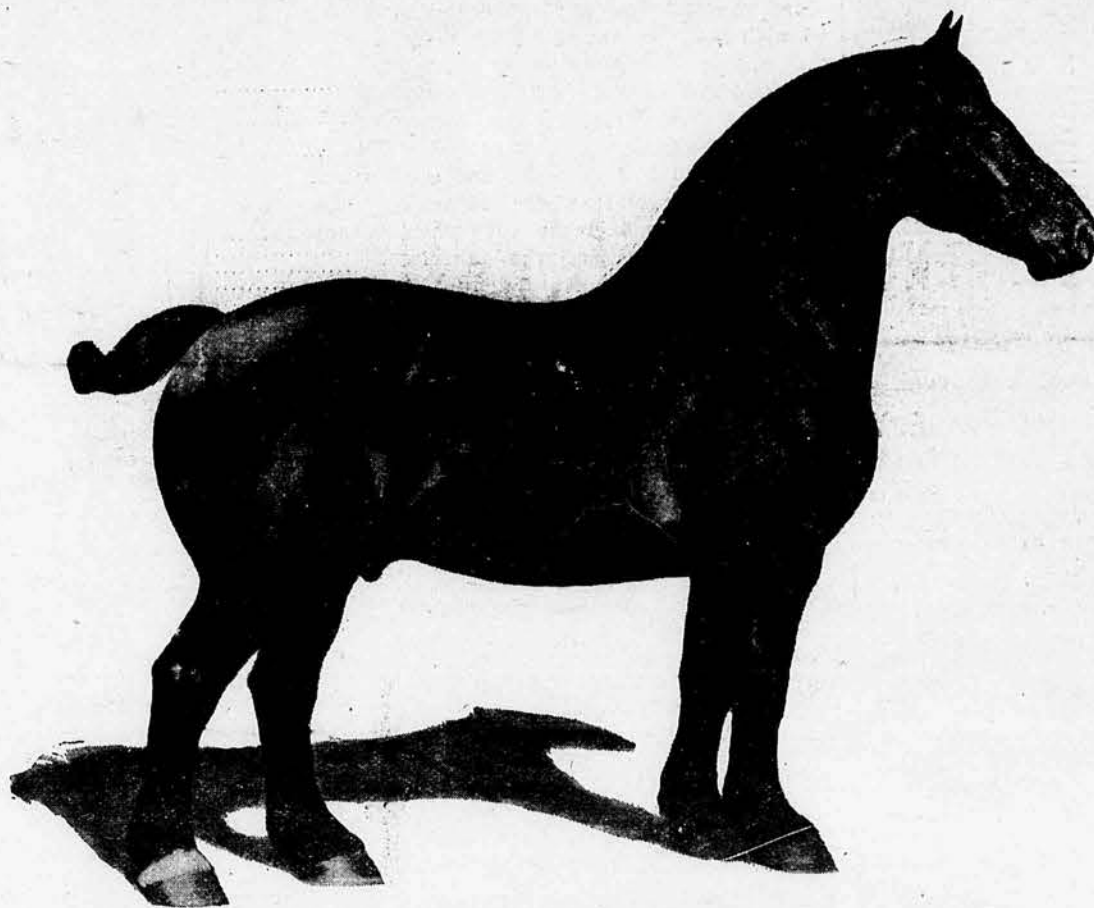
valuable man. His experiments are all recorded so that he is able to know what he is writing about. He is a good man to fire questions at.

Persons who desire trial packages of the Government's soil-inoculating material should address Department of Agriculture, Washington, D. C. This inoculating material has been de-

was covered with snow during the very cold weather makes all the difference between the present fine prospect and what might have been a very light crop. Kansas sunshine overhead and Kansas slush and mud under foot are welcomed universally.

Mr. A. L. Cottrell, who graduated from the Kansas Agricultural College

Avery is just returning from the Oklahoma Agricultural College at Stillwater where he has been conducting the short-course classes in horse-judging. As Professor Burtis, of the Oklahoma College, is also a graduate of the Kansas Agricultural College, he knew right where to go to get a man capable at once of judging and of teaching others how to judge horses.



IMP. BOSQUET 40105 (46612).

Prize-winning Percheron stallion at head of the oldest Percheron stud in the West. Owned by Henry Avery & Son, Wakefield, Kans.

scribed and discussed in the KANSAS FARMER, in the Century Magazine and in several other publications.

It is now practically conceded that the United States Senate will not at this session pass the railroad bill so much desired by President Roosevelt. An extra session in the fall seems to be on the program.

If the Kansas Legislature can enact no better railroad law than that proposed in the Smith bill, it had better plead incompetence and enact no railroad law. The present law is better than Senator Smith's bill.

Those Kansans who have in former years deplored the changeableness of the winter climate and have praised the steady cold, the continued sleighing, the lack of slush in the New England winters, were strangely silent for about six weeks in January and February. The appearance of bare ground was never before so cordially welcomed. But the fact that the wheat

in 1903, and who is a brother of Prof. H. M. Cottrell, has lately been promoted from the position of salesman for the Alfalfa Meal Co., Omaha, Neb., to that of sales manager for the same company. It is hard to keep a good man down, and the K. S. A. C. boys are good men.

Kansas has determined to have a State oil refinery unless the Supreme Court shall find the law providing for it unconstitutional. This matter will be tested before any money is expended. The Auditor will refuse to register the bonds. The Supreme Court will be asked to compel him to register them. This will bring up the entire question of constitutionality. The Standard Oil Company is strenuously opposed to the State refinery.

H. W. Avery, Wakefield, Kans., who owns the oldest stud of Percheron horses west of the Mississippi and who is a graduate of the Kansas Agricultural College, was a caller at the KANSAS FARMER office last week. Mr.

Probably there is no better judge of draft-horses in the United States than H. W. Avery.

THE RAILROAD QUESTION IN KANSAS.

The railroad question in Kansas has narrowed to two bills, one of which was last week passed in the House by a unanimous vote, while the other has been prepared by a majority of the Senate committee on railroads. If the choice must be made between these two bills, it becomes a choice between a law that will regulate and a law of doubtful efficiency. The first is known as the House committee bill, or the Garver bill; the second as the Senate committee bill, or the Smith bill.

Four of the ten members of the Senate committee have agreed upon the Garver bill, or, as it is officially designated, the "substitute for House Bill No. 449."

It will be well to consider the comparative merits of these two bills.

The most essential feature of the
(Continued on page 212.)

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Our large illustrated catalogue describing the above and many other choice novelties will be sent free if you mention this paper.
IOWA SEED CO., Des Moines, Iowa.

Agriculture

Relation of Manure to Water Soluble Potash in Soils and to Yields.

F. H. KING, MADISON, WIS.

NO. III.

It has been pointed out that the paramount importance of potassium salts for every living cell is firmly established and it is held that in green plants they are concerned not only in the upbuilding of carbohydrates but in that of protein bodies as well. Various observers have shown that where plants are placed under conditions where all potash salts are excluded not only does the formation of starch stop altogether but whatever may have been present disappears and ultimate growth stops, and that, on the admission of potash salts to the plants again, the formation of starch is renewed and growth carried forward. With vital functions like these so dependent upon this element it is easy to understand why deficiencies of potash, in forms available to crops, stand next, perhaps, to deficiencies in nitrates in determining small yields.

In the series of observation referred to in the last article it was found as a mean for eight soil types, that five tons of stable manure applied to these soils increased the amounts of potash dissolved by water 9.5 per cent in three minutes' washing; and associated with this increase of potash there was a gain of dry matter in shelled corn and in potatoes of 22.4 per cent; where 10 tons of manure were added per acre the potash soluble in water was increased 15.2 per cent and the yield 38.5 per cent; where 15 tons were added the increase of potash was 23.7 per cent and the gain in yield was 46.5 per cent. Where 300 pounds of guano were applied the increase of soluble potash was 5.3 per cent and the gain in yield was 15.4 per cent over that on the soils to which no potash had been applied.

To make sure whether the crops growing upon the soils examined were securing more potash where more had been applied, the plant sap of both corn and potatoes was examined on three dates between June 15 and July 26, and in the next table are given the mean amounts of potash still readily soluble in water, carried in the plant sap, expressed in per cent of the dry matter of the plant at the time of observation.

Amount of potash in the sap of plants growing on manured and on unmanured ground.			
Corn		Potatoes	
15 tons manure.	Nothing added.	15 tons manure.	Nothing added.
1.....2.18	1.42	2.97	2.25
2.....1.89	1.50	2.50	1.71
3.....3.60	2.35	3.63	3.02
4.....2.62	1.77	3.22	1.76
5.....2.30	1.28	2.06	1.82
6.....2.90	2.54	3.39	3.57
7.....3.69	2.12	3.10	1.81
8.....2.58	2.17	3.01	2.08
Av.2.72	1.89	2.99	2.25

These results show that where the soils have been manured at the rate of 15 tons per acre the sap of both corn and potatoes growing upon them is richer in potash than is that of the plant growing on the same soils not manured; and, as has been stated above, the mean yields of dry matter was 46.5 greater where the plant sap was richer in potash.

It was demonstrated at the Wisconsin Agricultural Experiment Station in 1899, that the application of potash salts in 4 different forms, at the rate of 90 pounds of potash (K) per acre to an unproductive black marsh soil increased the mean yield of stalks about two-fold and of shelled corn 3.4 times; and we have now found that, on similar soils in Indiana, the amount of potash readily soluble in water in the soil where the corn made a fair growth was 32 per cent greater than in the soil of the less productive immediately adjacent areas where the corn at the same time was much smaller.

In another series of observations

corn was grown in the field on each of four soil types, placed in cylinders 4 feet in diameter and 4 feet deep in each of four States, and the amount of potash readily dissolved from them with water was determined before planting and again after the crop had matured. The results showed that the potash, quickly dissolved from the soils with water, had been decreased an average of 31.6 pounds per acre from the surface 3 feet, the loss from the third foot being but little less than from the first foot.

From the observations cited, it appears, therefore, that soils producing small yields are often those containing small amounts of potash readily soluble in water; that plants growing upon such soils carry less potash dissolved in their sap; that a single crop may decrease the soluble potash a measurable amount; and that when potash is added to soils, either as a component part of stable manure or as a mineral fertilizer, a portion of it remains in the soil in a form quickly dissolved by water and to be taken up by plants in larger amounts than from similar and adjacent soils to which no potash has been added.

In another series of observations, where manure from the same bulk lot was added to 8 soil types at the rates of 25, 50, 100, and 200 tons per acre and examined after 65 days, for the amounts of potash quickly soluble in water, the results secured were those given in the next table.

Amounts of potash soluble in water 65 days after the application of different quantities of manure. Amounts are in pounds per million of dry soil.

No.	25 tons 50 tons 100 tons 200 tons			
	lbs.	lbs.	lbs.	lbs.
1.....	21.2	29.6	65.0	143.6
2.....	21.2	24.4	50.8	106.0
3.....	20.0	26.0	56.8	116.2
4.....	15.6	33.4	56.0	119.2
Average.....	19.5	28.4	57.2	121.3
Not manured....	11.8	11.8	11.8	11.8
Change.....	7.7	16.6	45.4	109.5
5.....	21.2	28.4	54.1	104.0
6.....	25.6	39.4	42.1	108.4
7.....	19.4	23.9	28.4	68.6
8.....	18.1	22.2	23.6	62.6
Average.....	21.1	28.9	37.1	65.9
Not manured....	16.8	16.8	16.8	16.8
Change.....	4.3	11.7	20.3	69.1

The group, of poorer soils not manured—1, 2, 3, 4—gave up an average of 11.8 pounds of potash quickly soluble in water per each million pounds of soil while the four stronger soils—5, 6, 7, 8—gave up 16.8 pounds per million. When 25 tons of manure were added per acre to these soils and allowed to remain 65 days the amount of potash which quickly dissolved in water from the poorer soils had been increased 7.7 pounds to the million pounds of soil; while in the case of the four stronger soils it had increased but 4.3 pounds to the million, the two groups of soils yielding nearly identical amounts of potash soluble in water after the application of 25 tons of manure per acre. But when 200 tons of manure had been added per acre the soluble potash in the poorer soils had been increased by more than 109 pounds to the million of soil but in the stronger soils by only 69 pounds. In other words, it appears that the four stronger soils, while they are able to yield as much potash to crops, when given 25 tons of manure per acre, they will hold back against the same amount of leaching larger amounts of potash. Stated in another way, these stronger soils have the power of storing about and within their soil granules larger amounts of potash. They have the capacity of laying on more of the "fat of the land" and of holding it there against leaching.

Notwithstanding their power to have and to hold, these stronger soils are yet in a condition to give back to crops the plant-food as it is needed. One of these stronger soils, which had received 15 tons of manure per acre, when repeatedly washed (11 times) in 5 times its weight of water, gave 211 pounds of potash to the million pounds of dry soil, and the same soil not manured gave 191 pounds or 20 pounds less. Again, one of the poorer soils, receiving the same amount of manure and washed in the same way, gave 155 pounds while that which had not been manured gave

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This NEW POTATO is just what everyone is looking for. Prout and blight proof, and the earliest on record; nothing can equal it; best quality and smooth, while its yielding qualities are simply marvelous. We are raising stock to offer in 1906, but want to test it this year in every section of the country to make good our claims, and we offer One Sample Potato for testing free to anyone enclosing 10c. to pay for postage and packing. It will be carefully packed from front, and it is worth many dollars to those fortunate enough to get one. Our New Seed Catalogue for 1906 is free and will be sent with every potato. If you enclose address of two families who buy seeds, we will include Free Sample Great Corn Novelty to be offered next year. Send to-day.
FAIRVIEW SEED FARM, Box 241, Boone Hill, N. Y.

126 pounds or 29 pounds less. Thus it is seen that while the stronger soil yielded 56 pounds more of potash after being manured than the poorer soil did, it lost with the same amount of leaching, 9 pounds less of what had been added with the manure than the poorer soil did. The stronger soil possessed more potash in water-soluble form, it could give out more to the water leaching through it, and yet it could retain a larger proportion of that added with the manure than could the poorer soil; and we have in these observations a partial explanation of the differences between both the immediate and the enduring productivity of soils.

To Renew Neglected Land.

I have just purchased a farm in Butler County, near Augusta, Kans. It has been desperately neglected and abused. In fact, it is simply a mass of cockleburrs. One piece (30 acres) has been literally "canned" to death. The soil is of the upland stony type found in that section. I want to know what you would advise me to do with that piece to bring it back to proper condition. I know that cow-peas are good but do not feel like using them as they are too expensive, that is, if there is anything else to use. Is there any fertility in a crop of rape turned under green? Also tell me something about Brome-grass or any grass you consider good for upland pasture, for such soil as I have mentioned—how to prepare the soil, when to plant it, and its culture in general.

Oklahoma. F. L. TOWNSEND.

Probably the best and surest way of clearing the land of cockleburrs is to plant to cultivated crops, corn, Kafir-corn, cow-peas, or soy-beans and give the crop thorough cultivation in order to germinate and grow all the weed-seeds in the ground, being sure to destroy all weeds and not allow them to seed. Doubtless the land needs thorough tillage as much as anything, yet the growing of such crops as cow-peas will likely restore the tilth and fertility of the land more rapidly than the non-leguminous crops. Probably the land is lacking in humus and would be benefited by a coat of manure, and should eventually be seeded to grasses, clover and alfalfa. A crop of rape or any other green crop plowed under will add humus to the soil, but so far as we know only the legume crops really increase the nitrogen of the soil.

A practical way to handle this field to clear it of cockleburrs and at the same time increase the humus and improve the soil texture, may be to seed early spring grain or even rape, plowing the green crop under early in the summer, reseed to rape or better to cow-peas, then after pasturing awhile plow the crop under before the weeds get too large. The field may then be seeded to grasses or alfalfa early in the spring, or better, perhaps, it may be cropped with early-maturing crops and seeded down early in the fall.

Under separate cover I have mailed you a copy of Press Bulletin No. 129, giving information about Brome-grass. So far south as Oklahoma, Bromus inermis will not succeed as well as it does at this station where it has proved to be especially hardy and productive and one of our best pasture-grasses. It is a good grass for upland, being drought-resistant and an excellent sod-producer; you should try it on your farm. However, if you should sow a large acreage for pasture I would recommend a combination of 12 pounds Bromus inermis, 8 pounds English blue-grass, 6 pounds orchard-grass and 2 pounds of red clover or 4 pounds alfalfa-seed per acre. For meadow, sow the Bromus inermis and clover or English blue-grass and clover or sow alfalfa alone.

A. M. TENBYOK.

Renewing Prairie Pasture.

I have a piece of prairie pasture, creek bottom, that is eaten out. I want to keep it for meadow. In places there is scarcely any grass. Would you advise disking and sowing grasses on it or keeping the weeds down by mowing and waiting for the grass to come back?

D. H. SMITH.

Sedgwick County.

If your stand of native grass is ex-

tremely thin, you probably will be able to secure a satisfactory stand quicker by disking and seeding a mixture of tame grasses than by simply mowing and allowing the native grass to restore itself. This process of seeding grass in pasture, however, is not entirely satisfactory, as most grasses require a very thoroughly prepared seed-bed and in this case it is not possible to secure such a seed-bed without destroying the native grass. But if the stand is very thin, you may work the soil sufficiently to make a fair seed-bed and yet not injure the native grasses very much. If the stand of the native grass is only fairly thin, I would suggest that you mow the weeds and allow the grass to renew itself. In either case, all stock should be kept from the pasture until a satisfactory stand is secured.

V. M. SHOESMITH.

Forage Crops in Southeastern Kansas.

I have been anxious to learn what plants we can grow successfully in this part of the State that will tend to increase the fertility of the land and will furnish a fair amount of feed at the same time. We do not seem to be able to grow alfalfa here on upland, and red clover does little better. I suppose we need some of the family of cow-peas or soy-beans. Among the cow-peas the Whippoorwill, Clay, and some others have been tried and do fairly well but do not seem to be as robust growers as I suppose some others may, and they grow too close to the ground to harvest well. Can you recommend any other varieties as more robust growers and that bear the pods higher? Do you know anything about a variety called the Iron cow-peas?

I have tried the Soja beans but the kind I grew seemed more dwarfish and ripened earlier than necessary for this climate. Can you recommend a late variety and vigorous grower among Soja beans?

Can you tell me how winter or sand vetch is likely to do in this part of Kansas?

I see that several of the seed catalogues list a nitro-culture for leguminous plants. Will it pay to use it at the cost of \$2.00 per acre?

RICHARD HAWORTH.

Cherokee County.

You should be able to grow clover successfully in Cherokee County, although on the uplands it is not likely to produce so well as on the bottom lands. Clover should be sown with grasses. English blue-grass and timothy are grown successfully in your part of the State and I believe the Bromus inermis will succeed well with you on upland. I would advise also that you continue to try growing alfalfa. I know that it has been the experience of farmers in Southeastern Kansas that alfalfa cannot be grown successfully in that part of the State. I have recommended to others to apply lime to the soil and also to inoculate the seeds or the land with the alfalfa bacteria.

Cow-peas ought to grow well in your section. We grew the Iron cow-peas at this station in 1904. This is a very late-maturing sort, in fact, it did not mature last season, although the crop was planted June 7. This is a very rank strong-growing variety and the vines trail on the ground probably as much as the Clay and more than the Whippoorwill. This is a characteristic of the cow-pea plant. We grew an early-maturing variety at this station last season, called the New Era. This is a more upright growing plant, but makes a little less growth of vines, produces slightly less growth of hay but more peas than the Whippoorwill variety, in fact, among thirty varieties tested at this station during the last two seasons, this variety gave the largest yield of peas. Perhaps, even for growing cow-peas to the best advantage you should inoculate the soil with the bacteria which are associated with this plant.

I am quite sure that it will be necessary to inoculate the soil in order to grow soy-beans successfully. At this station we have grown the Early Yellow soy-beans for the main crop but this is rather a dwarf variety, pro-

Salzer's Alfalfa or Lucerne



Sinks
Roots
20 Feet
Deep!

these items, with your Billion Dollar Grass, and Fodder Corn, make it possible for me to grow hogs and cattle galore."

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ducing only a small yield when cut for hay but being one of the best producers of beans. Other late-maturing sorts which make a large growth of vines are the Green soy-beans, which are sold under several names by different seedsmen, as Medium Green, Late Green, etc., but all appear to mature about the same time and are similar in character. Other large growing vines which were good producers in our trial were: Yellow, U. S. No. 1308-1; the Southern, U. S. No. 1307-1; the Large Yellow, U. S. No. 1296-1; The Small Yellow, U. S. No. 1299-1; and the Flat Back, U. S. No. 1293-1. We have a small supply of the Green soy-beans which were grown at this station last season. I believe you can secure seed of some of the U. S. varieties from the Alabama Experiment Station, Auburn, Alabama, or possibly you may be able to secure seed directly from the U. S. Department of Agriculture, Washington, D. C.

It is my judgment that the winter vetch is likely to succeed well in your part of the State, and I think it worth while for you to try seeding it with wheat, or it may be sown in the corn at the last cultivation or any time during the latter part of the summer or fall. Regarding the nitro-culture, I enclose letter discussing this subject. (Also published in this issue of KANSAS FARMER.) A. M. TENEYCK.

Nitroculture.

We notice a great deal is said about Nitroculture for small plants. Have you made any experiments along this line? If so, we would like to have your ideas; also can you tell us where we could get a supply of the same? Bourbon County. DAVIS & CO.

We have not used any of the nitro-culture in experiments at this station. You are acquainted with the fact that certain nitrogen gathering bacteria are associated with the plants of the Leguminosae or "Pulse" family, commonly called legumes. These bacteria infect the roots of the plants developing the characteristic "nodules" or tubercles commonly observed on the roots of legume plants. The soil is full of air and air is four-fifths free nitrogen. Plants cannot extract nitrogen from the air, but these bacteria living in the roots of the plants are able to absorb free nitrogen and convert it into such a form that the nitrogen thus absorbed becomes readily available as food to the plant with which the bacteria are associated. Thus the bacteria feed nitrogen to the plant and in return the plant probably feeds the bacteria from its own juices—a sort of mutual interchange known to scientists as "symbiosis," viz., when one plant lives upon another to the mutual advantage of both.

Now it appears that a special variety of these bacteria have become adapted to growing upon the roots of a certain species of legume plants; and, moreover, without the presence of these particular bacteria the legume will not thrive. These bacteria are not always present in all soils, so that when a legume crop is introduced into a soil new to that crop, the proper variety of bacteria is often not present in the soil; and before the crop will grow, or at least before it will grow and produce well on such land, the soil must become infected, or rather, the roots of the plants must be inoculated with the required bacteria.

In late years this principle has been well understood and it has been a common practice to inoculate the soil by spreading over it infected soil from a field which had previously grown the legume crop successfully. This method has been employed with good success at this station, at other experiment stations throughout the United States, and by many farmers; and there is no doubt of its utility or that profitable crops of alfalfa, clover, soy-beans, etc., have been made to grow by this inoculation treatment on land in which these crops previous to the treatment refused to grow or even to live.

More recently, scientists have been able to separate these different varieties of bacteria which are associated with the different legumes, and pre-

pare cultures of the same. The culture, which contains myriads of these germs is dried and put up in small packages called "nitroculture" by the National Nitroculture Company of West Chester, Pennsylvania.

I believe the preparation of nitro-culture was first undertaken in Germany; but in the last few years, the U. S. Department of Agriculture has continued the investigations and developed more rapid and practical methods of making the cultures, and has also carried on numerous experiments in the use of these cultures which have met everywhere with uniform success, and there is no question but that a legume crop can be successfully inoculated by the proper use of a live nitroculture. A special nitroculture is required for each species of legume, and the usual method is to inoculate the legume seed before planting, by sprinkling the seed with a solution of the nitroculture in water. The vitality of nitroculture decreases with age and the National Nitroculture Company only guarantees its vital properties for one year from the date stamped on each package.

You can get the nitroculture from the company named above, also from the U. S. Department of Agriculture, which is sending out trial packages of the same or similar cultures to farmers who wish to experiment. The National Nitroculture Company charges \$2.00 for a sufficient amount of the culture to treat the seed required to sow one acre of any common legume, such as alfalfa, clover, cow-peas, soy-beans, etc. This seems rather expensive, but it may be well worth the money to farmers who are introducing legumes into soils lacking in the bacteria required for the successful propagation of the crop in that soil. It is my advice, however, to use the soil from old fields where it can be cheaply obtained; or it would be economical as a rule to treat only an acre or a few acres with the nitroculture, and later for future planting use some of the soil from this acre or field to infect the soil of other fields.

A. M. TENEYCK.

Corn and Cane Question—To Kill Morning-Glories.

Please answer the following questions in your next week's paper:

1. When shall I plant Kafir-corn to prevent blackbirds from eating it?
2. Where could I get the Early Amber cane-seed?
3. Which is the better way, to burn corn-stalks or to plow them under?
4. How can I rid my farm of Russian morning-glories?
5. I have six acres of thin alfalfa, and would like to change it to some grain. When should I plow it, and what grain would be the best to plant?
6. Does it pay to buy high-priced seed-corn?
7. Which of your varieties of white corn, mentioned in issue of January 19, would do the best in my locality?

WM. S. LANDIS.

McPherson County.

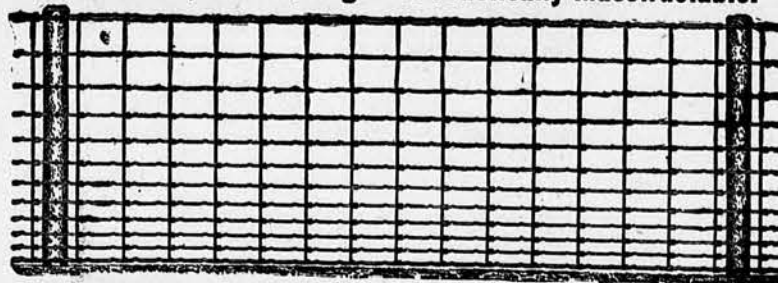
1. Blackbirds begin to work on the Kafir-corn early in the fall; possibly rather late planting, or late-maturing varieties may tend to prevent much damage from this source. However, by late planting you run the risk of the crop being injured by frost.

2. You can secure seed of the Early Amber cane from Kansas seed companies or through your local dealer, since this is one of the varieties commonly grown in Kansas.

3. As to whether the stalks should be plowed under or burned will depend upon the locality, soil, climate and season, as well as the crop which it is proposed to plant on the land. In general, especially in your part of the State, it would not be advisable to plow under a heavy growth of corn-stalks and plant immediately to corn or other crop. If the stalks had been pastured or if the growth is not extra heavy, by using the stalk-cutter, or even without its use, the stalks may be safely plowed under, but special care should be taken to pulverize and pack the soil after plowing in order to restore the capillary connection of the soil with the sub-soil. With a heavy growth of stalks plowed under, if dry weather follows,

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the furrow-slice is apt to dry out rapidly, and the connection with the sub-soil being broken, the crop is quickly injured by drought. Again, in a wet season, or on compact, sticky land an actual benefit may come from plowing down the stalks.

4. I am not acquainted with the variety, "Russian" morning-glories. The common morning-glory is one of the hardest weeds to get rid of in a cultivated field. We have a field on the college farm which is infected with this weed and for two seasons we have tried to get rid of it by cropping with different crops. It is possible to keep the morning-glory from seeding by thorough cultivation of corn or Kafir-corn but in all grains the glories have not only grown thriftily each year, but have also done great damage to the crops. Even in plots which have been kept in the cultivated crops, the weeds are yet plentiful. Kafir-corn seems to have cleared the soil of them a little better than corn and it is not so difficult to keep down the vines in the Kafir-corn as in the corn. Perhaps one of the best methods of getting ahead of the morning-glories and to clear the land of this pest, is to seed down to grass. We find that the glories do not grow in a field of *Bromus inermis* after the grass has become well established. Possibly also the same results may be obtained by seeding alfalfa. Either the *Bromus inermis* or alfalfa is well adapted for growing in McPherson County. The only way I know of to get rid of morning glories in cultivated fields is to give the crop thorough cultivation and keep the weeds from seeding. After a few seasons, if the weeds are not allowed to seed on the field, and no infection is allowed to come from outside, the vines will practically disappear.

5. The first season after breaking it would be better to plant the alfalfa land to corn rather than to grain. The land is apt to produce too great a growth of straw of any kind of grain, which will cause lodging and a light crop. I think barley would be as safe a grain to sow as any of our common grains. In a trial at this station last season in which we seeded barley, oats, emmer, and flax on alfalfa breaking, the barley stood up the best and gave the largest relative yield of grain. The oats were practically a failure, while emmer and flax were badly lodged.

6. It pays to buy carefully-selected, well-bred seed-corn even at a high price. One of the first essentials in seed-corn is that it have a high vitality and that it give a high percentage of germination. Yet there is as much in the breeding of corn as in the breeding of stock; and seed-ears which are selected from the best producing stalks and which are true to type are certainly more apt to produce stalks and ears like those from which they were selected. We have no exact figures showing the relative difference in yields between the crop from corn carefully selected in this way, and the ordinary cribbed corn, but in our trials of different ears of well-selected corn we find a variation of productiveness of from 40 to 50 per cent. If it be true of the choice ears that they vary so greatly, then the relative difference should be greater between less-desirable ears of poorer quality and the average productiveness of the less desirable ears would certainly be less than average productiveness of the selected ears, without considering the difference in the quality of the corn produced by the different grades of seed. Enough work has been done along this line at other experiment stations and by the farmers themselves to fully establish the facts of the statements made above.

7. Perhaps McAuley's White Dent or Forsythe's Favorite, which are medium late maturing varieties of corn, will do well in McPherson County. As a medium early maturing corn the Boone County White may be preferable to the Silvermine. On bottom-land it may be advisable to try the Hammett White Dent which is a medium early maturing sort. For a late maturing, hardy, large-stalked, large-eared corn you might try the Mammoth White Dent.

I have referred your letter as to time to trim apple-trees to Prof. Dickens of the Horticultural Department.
A. M. TEN EYCK.

Horticulture

Seedless Apples.

I saw in the Kansas City Star of the 7th an article on seedless apples. What can you say of them? Is not the matter overdrawn? Y. B. L. Wichita County.

The seedless apple is no new thing. There have been seedless apples for more than a hundred years. The apple written of in the Star of February 7 is one that was on exhibition at the late St. Louis Exposition.

I saw Prof. W. H. Ragan, of Washington, D. C., who was a juror who examined the specimens shown. He told me he had found one seed in one of the apples cut. The apple was not of first quality, was too small and not of an attractive color.

The article to me has the earmarks of advertising. The claim of a "wormless apple" causes one to smile who has made a study of the codling-moth which he says "makes it almost impossible for the moth to deposit its eggs." That's funny.

Should the time ever come when seedless apples supplant those now on our markets it will be by something better than has as yet been introduced. Go slow on seedless apples.

F. HOLSINGER.

Errata, "Asparagus."

In my last there occurs several egregious mistakes. These often occur and are not only an annoyance to the writer, but very misleading to the reader. Where I am made to say Mr. P. T. Quinn raised 1,000 pounds asparagus from an acre should read \$1,000. Again in my own case it should be \$317.15 from one-quarter of an acre, or at the rate of \$1,286.60 per acre. You will see by this a marked difference in the productiveness of asparagus, as in pounds it would be at least 4½ times greater than as reported, as the grass sold at about 20 cents per pound. Again in varieties, it should be Palmetto and Barr's, not Baus.

F. H.

Time to Trim Apple-Trees.

When is a good time to trim apple-trees?
WM. S. LANDIS.

McPherson County.
The old rule, "Thin when your knife is sharp and have it sharp all the time" is another way of saying that the tree should be given careful attention during its life in the orchard, not looked after once a year and then an attempt made to remedy all the faults that neglect has caused.

Trees that have been carefully grown should rarely need any more severe treatment than can be given with a good pruning knife, and such wounds heal quite readily whenever made. The cutting out of interfering branches can be done more easily when the tree is not in leaf and the grower will do well to give his trees a careful inspection before the leaves appear, or so much the better, before the buds swell.

We are coming to believe that it is better practice to cut or rub off water-sprouts during the growing season than in winter. Many bad cases of water-sprouts seem to be caused by over-pruning in winter or early spring. The tree has less foliage than the normal amount and the adventitious buds and following water-sprouts are its attempt to remedy the matter. From some work done in recent years the indication is that summer pruning of unfruitful trees is much more effective than pruning done during the dormant season. There is less danger of removing branches that will expose the bark to sun-scald if the workman can see what the immediate result of such removal will be. No man who can not look far enough into the future to see when the removal of a branch will be likely to expose some part of the tree to the hot sun, should

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be allowed to use a knife in the orchard.

In the case of trees which have been long neglected, the matter is a serious one. Attempts to "reform" orchards are rarely successful. An hour spent in looking after the "formation" will save many times the amount of time required for the "reforming" to say nothing of the wasted energy of the tree.

The man who has such a problem on his hands needs a large capital of conservatism and common sense, for the temptation is great to try to make the tree approximate what it should have been if it had been carefully grown, and such attempts are usually found to result in heavy growths of water-sprouts and a short-lived tree. Thin out the top somewhat, shorten it a little and do not try to make the tree over in a single season.

Stove-wood produced in the orchard is high-priced, the wood can be grown more cheaply in the wood-lot, and the energy of the orchard-tree should so far as possible be turned to the production of wood that may be expected to produce fruit.

Growing good trees requires good thought, and careful attention at the right time.

ALBERT DICKENS,
Professor of Horticulture,
Kansas State Agricultural College.

The Stock Interest

THOROUGHbred STOCK SALES.

Dates claimed only for sales which are advertised or are to be advertised in this paper.

March 2 and 3, 1905—C. A. Stannard, Gudegg & Simpson, and others, Herefords, at Kansas City.

March 2 and 3, 1905—E. Kemp, Nardin, Okla., Poland-China and Duroc-Jersey swine.

March 7, 1905—Jacks, Jennets, and stallions, at Limestone Valley Farm, Smithton, Mo., L. M. Monsees & Sons, proprietors.

March 8, 1905—Poland-China bred-sow sale, Herbert Haub, Whiting, Kans.

March 14, 1905—F. M. Gifford, Milford, Kans. Shorthorns at Manhattan, Kans.

March 14, 1905—Poland-China bred sow sale Herbert Haub, Whiting, Kans.

March 15, 1905—Shorthorn cattle, John McCoy & E. D. Ludwig, Sabetha, Kans. at Falls City, Neb.

April 19, 1905—J. D. Stanley, Horton, Kans., Shorthorns.

April 19, 1905—Closing out sale of Shorthorns J. D. Stanley, Horton, Kans.

May 3, 1905—Heath Stock Ranch, Republican City, Neb. Shorthorns.

American Breeders' Association.

The second annual meeting of the American Breeders' Association, held at Champaign, Ill., February 1, 2, and 3, marked the close of the first year of the history of that organization.

The members of the American Breeders' Association were the guests of the Illinois Corn-Growers' Association and of the Illinois Live Stock Breeders' Association. The sessions were held in Morrow Hall in the agricultural building of the University of Illinois, the equipment of which was at the disposal of the visiting organization. The faculty of the college and university spared no effort to make the meeting a pronounced success.

The meeting was called to order by Hon. L. H. Kerrick, of Bloomington, Ill., who made an introductory address in his happy, original manner, and then introduced Dean Eugene Davenport, of the Agricultural College, who welcomed the association in behalf of the college and university. Professor Davenport emphasized the magnitude of the problem which the American Breeders' Association has undertaken to solve, and urged the farmers and live-stock associations to cooperate with the new association and the State and National Governments, by furnishing data and funds necessary for the solution of the great problems of improving the yields of her fields and herds.

Mr. Grout, the president of the Illinois Live Stock Breeders' Association, welcomed the visiting association in behalf of the society which he represented. In the absence of Dean C. F. Curtiss, of Iowa, Dr. Herbert J. Webber, of the Department of Agriculture, made the response for the American Breeders' Association.

In an able address, he outlined the plan of the new association. He showed that the field is unlimited, spoke of the progress already being made in the theory and practice of breeding in the Department and throughout the country, and extend-

ed the thanks of the society for the hearty welcome received from the people of Illinois.

The secretary, Prof. W. M. Hay, followed with a short address on "Breeding Hardy Alfalfa," in which he set forth the progress already made through the introduction of hardy sorts, combined with their systematic improvement in the nursery, and showed the possibilities for the future on the basis of what had been done in Minnesota and elsewhere.

The convention then gave its attention to the papers and discussions upon the program. Dr. George T. Moore, of the U. S. Department of Agriculture, presented the subject of "Breeding Nitrogen-Fixing Bacteria." In popular language he showed how bacteria cultures were obtained in the laboratory, how they were distributed, and what results were obtained from field tests. He indicated that special bacteria should be bred for particular purposes. His address was followed by a long and animated discussion of the ideas he had presented. A paper entitled "Breeding Grapes," by T. V. Munson, was read, in his absence. The paper contained many practical suggestions from this veteran breeder. Mr. F. E. Beatty, of Three Rivers, Mich., gave an address upon "Improvement of the Strawberry by Selection." Mr. Beatty, as a practical breeder, showed how by careful, conscientious attention to the individuality of each plant, it is possible to obtain varieties of any desired type. Mr. C. W. Ward, of Queens, N. Y., gave a lecture upon "Carnation Breeding," illustrating his talk with beautiful lantern slides, and showing what can be done in the way of improving the carnation.

Mr. Ward was elected chairman of the plant section to succeed Dr. H. J. Webber, resigned.

Hon. John Dryden, of Toronto, Can., sent a paper entitled, "Fads in Breeding," which was read. He held that the breeder should not be led astray by fancy points of color or form, but should keep in mind the three realities, viz., quality, quantity, and projected efficiency. Prof. A. J. Glover, of Hoard's Dairyman, presented a paper upon "Form vs. Performance in Cattle Breeding." While nature generally adapts the form to meet the performance demanded, he showed that statistical data were very essential to a correct theory for practical breeding. Director Chas. D. Woods, of Orono, Me., presented a paper upon "Investigations Relating to Breeding to Increase Egg Production in Hens." Professor Woods and Professor Gowell have devised apparatus and records by means of which they have increased the egg-producing power of their poultry. Mr. Frank Hastings, of Stamford, Texas, gave an address upon "Breeding Range Cattle." In his excellent paper he presented the difficulties and possibilities of range breeding. He made a plea for wider recognition of the cow as a factor in this improvement.

Hon. N. H. Gentry, of Sedalia, Mo., presented a paper on "Inbreeding Berkshires." He showed how inbreeding tempered with judgment is a safe and profitable practice. Prof. N. E. Hansen, of Brookings, S. Dak., read a paper on "Breeding Mildew-Resistant Sand Cherries," in which he showed how disease resistance can be bred into these plants. Prof. R. L. Bennett, of the Texas Agricultural College, outlined experiments carried on at that place in "Cotton-Breeding for Earliness and Productiveness." A paper by A. W. Edson, of the U. S. Department of Agriculture, on "Breeding New Cotton Varieties for Boll Weevil-Infected Regions;" another by W. A. Orton, also of the Department, upon "The Breeding of Disease-Resistant Plants," and a third upon "Breeding Tobacco," by A. D. Shamel, of the U. S. Plant-Breeding Laboratory, were read and discussed by Dr. H. J. Webber in the absence of those gentlemen.

Prof. L. H. Bolley, of Fargo, N. Dak., sent a paper entitled "Breeding Wilt-Resistant Flax." In addition to the subject of breeding for wilt-resistance, Mr. Bolley suggested many new and promising lines of work in breeding, based upon work already in progress under his direction. Mr. H. H.



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is not a condimental food, but a scientific stock tonic and laxative, the famous prescription of Dr. Hess (M.D., D.V.S.), which combines naturally with the ration fed, and is eagerly taken up by the organs of assimilation, causing increased vigor and a greater flow of richer milk. Dr. Hess Stock Food prevents indigestion, keeps the milk cow free from disease and in a healthy condition during the entire milk-giving period.

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—TO—
St. Louis, Detroit, Toledo,
Pittsburg and Buffalo.
Makes the Best Time, with Best Accommodations.
Train No. 8 saves a day to New York
L. S. MCGLELLAN,
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Groff, of Simcoe, Ont., sent a paper upon "Plant Improvement by Hybridization." He outlined a plan for improving tame species by crossing with wild species. Dr. W. B. Castle, of Harvard University, sent a paper upon "Recent Discoveries in Heredity and Their Bearing upon Animal Breeding." The paper was illustrated with lantern slides. Dr. C. E. Saunders, of Ottawa, Canada, presented a paper upon "A New Hybrid in Wheat," discovered at his station. Prof. E. P. Sandston, of Madison, Wis., gave a paper upon "Heredity in the Light of Recent Investigations." Mr. C. P. Bartley, of the Department of Agriculture, presented a paper on "Corn-Breeding," and Prof. C. G. Hopkins, of Illinois, with the subject of "Inbreeding Corn," explained the methods by which Illinois leads all others in the improvement and production of corn.

Prof. Oscar Erf, of Manhattan, Kans., presented a paper on "Cooperative Breeding," in which he emphasized the necessity for wide cooperation and systematic methods. An able paper, entitled "Heredity," by Hon. Luther Burbank, was read by Prof. W. M. Hays. Mr. Burbank's papers was full of suggestions; but the crowded condition of the program prohibited its extended discussion by the audience. The presentation of Mendel's laws by Prof. W. J. Spillman and Dr. H. J. Webber, was listened to and discussed with intense interest. Professor Hays, in discussing "Our Breeding Interests," showed the relation of the science of breeding to agricultural improvement and the other interests of the country. He indicated the lines along which breeding should be pushed forward, and urged that cooperation of the State, the Nation, and of private enterprise, should be effected to bring about the desired results. In a later talk upon "Inbreeding Wheat," he illustrated, by lantern slides and moving pictures, the theory and technique of improving wheat. Prof. W. T. L. Tallafiero, of College Park, Md., was called upon for a short address, as was also Mr. Albert von Schelle, of Belgium, who was present in the audience. Of the speakers unable to be present, there were Mr. O. E. Bradfute, Prof. Andrew Boss, Hon. Thomas Clark, Prof. C. P. Bull, Col. W. A. Harris, Mr. Alex. Galbraith, Prof. T. L. Haecker and Mr. W. T. Swingle.

On the evening of Thursday, February 2, President Edmond J. James gave an address to the two associations. He said that this was the age of the accumulation of wealth, of practical democracy, and of popular education. Neither of these characteristics of the time is possible without the others. The public looks to secondary and technical education to enable it to cope with the practical conditions of the present and future. A technical agricultural education, though last to receive recognition, is coming rapidly forward. Following his address an informal reception at the home of Mr. and Mrs. Eugene Davenport was given to the members of the American Breeders' Association and the Illinois Live Stock Breeders' Association.

At the close of the three-days session, a business meeting was held, at which sufficient pledges were obtained to insure the publication of the annual report and directory. The advisability of raising the annual membership fee to \$2 was suggested, and it was decided to let it remain at \$1, each member to receive a copy of the annual report and other publications. The American Breeders' Association has passed the experimental stage. It can now go forward and become the progressive, conservative factor in the upbuilding of agriculture which its broad plan intended and the times have demanded.

The Fredonia, Kansas, Sales.

The combination sale of thoroughbred cattle and hogs, held at Fredonia, on February 17 and 18, was well attended and the prices realized were very satisfactory to the sellers. The thirty-two Shorthorn cattle averaged \$99 per head. The average on the Herefords being \$70. The enthusiastic young breeder, I. L. Swaney, of Lafontaine, topped the sale of Shorthorns, paying \$200 for Hanna & Co.'s Scotch roan Shorthorn bull, Captain. This is a very promising young bull out of im-

ported Colynic. J. E. Thompson, of Fredonia, Kans., took another one of Hanna's young roan bulls at \$195. D. O. Cripps, of Independence, Kans., topped the cow sale at \$195, taking home with him one of H. M. Hill's choice "Golden Victor" heifers. A. J. Beasley, of Toronto, Kans., secured the best Crutckshank bull Mr. Hill contributed to the sale at \$150. Mr. J. E. Brooks, of Parsons, Kans., bought the best bull bargain at the sale, securing No. 83 of the catalogue, the very promising young red bull out of imported Meriner.

D. S. Rothle, of Oswego, was a very liberal buyer. The top price on Herefords was \$176. Mr. T. I. Woodall, of Fall River, Kans., paying this for Sam Dry-bread's choice young "Cheerful Boy." The Poland-China sow sale averaged a little above \$20. The general average on all Poland-China hogs was \$17.20; on Durrocs, \$14; English Berkshires averaged \$18.10.

It is the general opinion that this was a very successful sale. Cois. J. W. Sheets and Lafe Burger kept the thing booming along by their well-known enthusiasm and general good nature and ready wit. This is the second combination sale held at Fredonia and all the breeders agreed before leaving this one that another would be held next year and become a regular annual event.

The Annual Sale of the Wheat Belt Improved Stock-Breeders' Association.

The second annual sale of the Improved Stock-Breeders' Association of the Wheat Belt was held at Caldwell, Kans., February 16, 17, and 18.

To say this sale was a success would be putting it mildly, as it went beyond the expectation of any of the contributors and proved to be one of the best sales of the season held in the State of Kansas. The success of this sale is largely due to the untiring efforts of Chas. M. Johnston, sales manager, and two of the most popular auctioneers in the West, Colonel Sparks and Colonel Harriman. These gentlemen with the assistance of the consignors did everything in their power to make this sale a success, and certainly succeeded in doing so. The Shorthorn sale on Thursday the 16th was a great success. The top price paid for a cow was for Irvington Maid, consigned by J. H. Reibhoff, Nickerson, Kans., and sold to Joe Cake, Hunter, Okla., for \$127.50.

Top for Shorthorn bull was brought by Red Emperor, consigned by A. H. Brown, Caldwell, Kans., and sold to O. S. Rnshner, Caldwell, for \$125.

The Hereford sale on the 17th was also a great success. P. D. Vancleave, of Braman, Okla., topped the sale with his famous bull, Overton 179663, which was sold to E. W. Ames, Caldwell, Kans., for \$150.

Galloway cattle also sold well and brought out strong competition among bidders. Susie 3d 21087 brought top price. This cow was contributed by S. M. Croft & Son, Bluff City, Kans., and sold to John Falkenberg, Caldwell, for \$87.50.

The height of enthusiasm was not reached until Saturday the 18th, when the hog sale commenced, and to say the best leading strains, and to say they were good would be putting it entirely too mildly. They were certainly the best sold in the Southwest this season. The Poland-China sale was topped by Lady Tecumseh 61442, contributed by Wm. Knox, South Haven, Kans., and sold to A. H. Brown, Caldwell, for \$60. J. R. Roberts, of Deer Creek, Okla., one of the leading breeders of Oklahoma, was

(Continued on page 218.)

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DAN PATCH 1:56, CHAMPION HARNESS HORSE of the WORLD. VALUED AT \$150,000.

The Colored Lithograph we will send you is a large reproduction of the above engraving, and is made from a photograph taken of Dan while he was going at his highest rate of speed. It is one of the finest motion photographs ever taken and is as natural and life like as if you actually saw Dan coming down the track. It shows Dan flying through the air with every foot off of the ground.

It is Printed in Six Brilliant Colors. Size 24 by 34 inches. Free of Advertising.

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- 1st.—How Much Stock Of All Kinds Do You Own?
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625-POUND HOGS SHOW A BIG PROFIT.

International Stock Food Co.

Gilmer, Illinois.

Gentlemen:—I took one of my Chester White hogs and made a special test of "International Stock Food" as per your directions, and at 18 months of age he weighed 625 pounds. When I dressed him he was the best hog I ever saw, and my neighbors told me the same thing. I would not be without "International Stock Food" for my horses, cattle or hogs. Please send me a picture of Dan Patch.

Yours,

WM. H. SMITH.



Largest Stock Food Factory in the World. Covers Over a City Block. Contains 16 Acres of Floor Space. Also Large Factory at Toronto, Can., Containing 50,000 Feet of Space. Capital Paid in \$2,000,000.00.

We Have Thousands of Similar Testimonials. We Will Pay You \$1000 if They Are Not the True Experience of Practical Feeders. Beware of Cheap and Inferior Imitations and Substitutes. "International Stock Food" is Fed Every Day to Our World Famous Stallions, Dan Patch 1:56, Directum 2:05 1/4, Arion 2:07 1/4, Roy Wilkes 2:06 1/4, and to Our One Hundred Brood Mares and Their Colts.

WOULDN'T TAKE \$25 FOR IT



OLD WAY

If I couldn't get a New Model Harrow Cart, is a common expression among farmers. WHY? Because it is the greatest labor saver of any single piece of farm machinery. Covers more ground in a day. Farmers write us that their 10 year old boy now does nearly double the work they did the old way. Holds harrow steady, does better work and avoids jading team. Runs easy, turns on castors. We guarantee the New Model to work like a charm or refund your money. 30 days free trial. We have said enough. See what others say. Postal us today for free booklet.

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Vaccination with BLACKLEGIDS is the best preventive of Blackleg—simplest, safest, surest. Each BLACKLEGID (or pill) is a dose, and you can vaccinate in one minute with our Blacklegoid Injector.

Every lot tested on animals, before being marketed, to insure its purity and activity.

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Farmers and Breeders! We Will Insure Your Hogs Against Death by Cholera

And other malignant blood diseases. Don't waste time and money experimenting with cheap stock food. Use a medicine prepared especially for the hog. Twenty years' test without a failure. We run all risk and in case THE GERMAN SWINE POWDER fails to eradicate the disease from your herd, we refund your money. The greatest conditioner and growth-promoter ever discovered, and the biggest money-maker for hog-raisers known. Prices: 100 lbs., \$25; 25 lbs., \$7; 10 lbs., \$3; 5 lbs., \$1.75; 2 1/2 lbs., \$1. Send for our Treatise on Swine—it's free. Make all checks and drafts payable to

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Karsolene Disinfecting Dip is a scientific preparation made from a Creosote base, combined with other chemicals. Is sure death to lice, and small vermin of all kinds; will not burn or irritate the most tender skin. Cures all skin diseases and promotes health. Sold on a positive guarantee. We will send a free sample of Karsolene Dip—you can give it a trial before you buy. Write today for the sample and catalogue giving directions and prices. STOCKMAN'S MERCANTILE COMPANY, 1504 W. 12th St., Kansas City, Mo.

IMMUNE HOGS

Immune your pigs by feeding virus to the sow costs 1 cent a pig and have their barn cholera-proof. ONE MILLION successful tests. Indorsed by thousands of able veterinarians and scientists; satisfaction guaranteed in writing, backed by \$10,000 security. Agents wanted. ROBERT RIDGEWAY, Box 8 Amboy, Ind.

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is no experiment, having been thoroughly tested the past three years under the most trying conditions, and it has proved its worth. Price, 100 chick size, at Topeka, \$7.50. Write for particulars.

W. L. Bates, Topeka, Kans.

WHEN WRITING ADVERTISERS PLEASE MENTION THIS PAPER.

The Young Folks

CONDUCTED BY RUTH COWGILL.

English Language.

We'll begin with box, and the plural is boxes, But the plural of ox should be oxen, not oxes. The one fowl is a goose, but two are called geese, Yet the plural of moose should never be meese. You may find a lone mouse, or a whole nest of mice, But the plural of house is houses, not hices. If the plural of man is always called men, Why shouldn't the plural of pan be called pen? The cow in the plural may be called cows or kine, But a bow, if repeated, is never called bine, And the plural of vow is vows, never vine. If I speak of a foot and you show me your feet, And I give you a boot, would a pair be called beet? If one is a tooth and a whole set are teeth, Why shouldn't the plural of booth be called beeth? If the singular's this and the plural is these, Should the plural of kiss ever be nicknamed keese? Then one may be that and three would be those, Yet hat in the plural would never be hose; And the plural of cat is cats, not cose. We speak of a brother, and also of brethren, But though we say mother, we never say methren, So the English, I think, you all will agree, Is the greatest language you ever did see.

—Commonwealth.

Miss Dean's Counsel About Books.

Dear Dorothy:—I am sending you a little book which I have just read, and which I believe you will enjoy. It is called "Squirrels and Other Fur Browsers," and is written by John Burroughs, who is, I suppose, the greatest naturalist in America to-day. He writes very simply of things that he himself has observed in the common wild life of the country. You doubtless have yourself observed many of the things he describes, and when you have read this perhaps you will have your eyes opened to discover more. The life of the wild things is intensely interesting to me, and I only wish I had your opportunities for studying them at first hand. I am sure your small brothers, if you question them, can tell you a great deal that they have noticed in their free out-of-door life. If you only realized it, you can learn a very great deal from the young boys, for boys are almost always keen observers and good reasoners.

While we are talking about books, I want to tell you about some others that I should like you to read—not all at once, you know, but when you do read. For I think some of your past reading has been a mere waste of time. Do not, I beg you, read any more of Mrs. Carey's novels, or E. P. Roe's, or any of that class. When you read, choose something that will make you wiser and better and nobler, great books, happy books, books of culture and books of inspiration. The books that move you to sentimental tears, or thrill you, but do not impel you to act and live more nobly; or to think new thoughts, are harmful. If you lay down a book with a pleased smile, and say, "There, I like that book—it says just what I have always thought"—then that book was not worth your reading. What good can you receive from being confirmed in your old opinions, from hearing your own trite thoughts repeated? The book that challenges your mind with a new idea, that upsets your little preconceived notions of right and propriety, that makes you dissatisfied with yourself and seems to remove your ideals farther off by making them greater—that is the book to read. I do not mean that you need accept all the new ideas that you read—far from it—but you must weigh them, and your own old ones, and sift them together, and see what you have after that. It is a fool who never changes his opinions, and an imbecile who changes them easily. You can only be wise by sincere, honest thinking, and a good deal of it.

But to return to my original subject. I was going to tell you some

books that I want you to read. Felix Holt and Adam Bede, by George Eliot are splendid, in just the ways I have been speaking about. They are books that insist "a man's a man for a' that"—wonderful visions of the worth of real manhood. George Eliot has written other books which I would not want you to read till you are older, for they would only sadden you; but these two will come like your own fresh prairie wind into the cobwebby room of your mind. Then I should like you to read a translation of "Les Misérables," that book which has inspired many with its visions of noble goodness in a rough, work-a-day world. You ought to read two or three of Dickens, remembering that all the world is not full of the exaggerated types he pictures, but that it is full of queer people, with foibles and weaknesses that are just as interesting. You must choose Pickwick Papers, by all means, for its pure fun, Tale of Two Cities, for its heroic plot and historical setting; and David Copperfield because it is Dickens, through and through. Add something of Scott's and Lorna Doone, and you have a good list of novels to begin upon.

I should be glad to have you begin to love some of the poets that I love. Read Tennyson's Stories of King Arthur and His Round Table, and Enoch Arden; Burns' Tam O'Shanter; Scott's Lady of the Lake, Shelley's Ode to a Skylark, Wordsworth's Daffodils, and "She Was a Phantom of Delight"—well, I will stop there, for having read those, if you have appreciated them, you will know how to choose then for yourself.

Looking over my list, I notice that it sounds rather strenuous as advice to a young girl of eighteen. We old people are so eager to see the young folk grow up just right, that we forget that they can not be old and wise in a minute. If we could only give you what we have learned, and let you go on from that! But, no, each one has to learn for himself and often, alas, by sad and costly experience. Well, my dear little girl, do not take any more of my advice than you want to—but I really think it is all good! For of course I do not mean you to read all of these great books one immediately after another. Read one and think about it and enjoy it, for a long time. Then read some poetry and some of the best of the current magazines. Then when you feel the need of a tonic again, take another of them. But in this as in all things, I wish I could impress you with a desire for the very best. Compare, and discriminate, and learn to value things at their true worth. Perhaps I shall write to you at some other time about books, for it is a subject that I love to talk about.

When you write tell me what you are reading and what you think about it, for I shall learn much from your opinion, I do not doubt. The world moves on, from year to year, and we old people often need younger minds to help us keep up.

Yours very affectionately,
DOROTHY DEAN.

Lamb and Lion.

A lamb is the playmate of one of the fiercest lions in Bostock's hippodrome on the Place Clichy, Paris. Mr. Bostock tells how it took nine months to bring about the friendly relationship.

"I lost a whole carload of lambs," he said, "before succeeding—lambs of the kind children play with. I placed in the cage all sorts of toys of the animal variety—cotton sheep, horses, rabbits—in fact, a regular Noah's ark.

"Then I specialized on sheep, but it took a long time for the lion to find out that they were not good to eat. Finally a live lamb was introduced. At first the lion looked surprised, and then lay down and gently pawed the stranger. The lamb did not like this, and drawing back a pace or two, butted the lion in the mane.

"This appeared to greatly amuse the lion, who playfully rolled over on his back, while the lamb butted again.

"Now," says Mr. Bostock, "they are fast friends, and an insurance company would be justified in taking the lamb as a first-class risk."

For the Little Ones

A Sewing Song.

Oh, it's thread and needle and thimble, too,
It's wax and scissors and emery too,
Oh, wonderful, wonderful things I'll do,
With my thread and needle and thimble too.

I'll make a bag for my own mamma,
I'll hem a kerchief for dear papa;
And a doll I'll dress for our little wee Bess,
With a frock and mantle and petticoat too.

Oh, it's cutting and basting and hemming too,
It's stitching and felling and gathering too;
There's really no end to the things I can do
With my cutting and basting and gathering too.

And oh, what pleasure to sing and sew,
And feel I am helping mamma, you know;
And still more pleasure, beyond all measure,
When work is finished and off I go.

—Laura E. Richards, in More Five Minute Stories.

Charles and Mary and the Snow Man.

Charles was a little boy about eight years old, and he had a little sister about two years younger, whose name was Mary. One day Charles and Mary wanted to go out and play in the snow, so their mother put on their coats and their leggings, and their caps and their mittens and rubbers, and they were as warm as toast.

"Oh, let's make a snow man," said Mary, clapping her hands at the idea. "No," said Charles, decidedly, "I'm going to make a fort and you're going to be my enemy and we'll have a snow fight, and we'll have it to show to papa when he comes in."

"No, sir," said Mary, "I'm going to make a snow man, and I'll be done first, too—see if I am not." And she set to work. First she picked up some snow in her little hands and made it into a ball. Then she put it down upon the snowy ground and rolled it about; and it kept taking up more snow all the time, and growing larger until it was so big she could not roll it over once more. Then she started another one, and while she was busy with that, a snowball came sailing through the air and struck her coat. It did not hurt a bit—for of course Charles wouldn't throw a hard one at a girl—and Mary laughed and called out to him, "Charles, oh, Charles, see my big snow balls!"

Charles was very busy making his fort just then and he just looked up and nodded, and went on with his work. It was getting along beautifully. After a while he happened to look up toward Mary again, and she was having a very hard time. She had three balls by that time, and was trying to roll one into the other one, to make the snow man's body. But it was so big and heavy that she could not begin to get it up.

Then Charles did something that I think showed that he was a man and a gentleman. He looked at his fort so nearly done, and thought about how soon his father would be home, and then he looked at his little sister working so hard to finish first, and then he dropped the snow ball he was holding and ran over to help her.

"That's too hard for a girl like you," he said good-naturedly. "Come, let's both push together."

So they pushed just as hard as they could, with might and main, and at last it was up. Then Charles picked up the smallest ball of all, and set it on top for the head, because Mary could not reach high enough.

When he started away, Mary said, "Why did you stop your work? Are you done with your fort?"

"Well, you know, Mary," answered Charles, "whenever a girl is having a hard time, a boy must go help her, because I am stronger than you are, you know."

Then he went back to work again merrily on his fort. Presently, while he was very busy piling up the snow at a great rate, Mary came over and began helping.

"I guess it is right for a girl to help her brother, whenever I can," she said.

Charles looked over toward the

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snow man, and saw that he was finished. He was standing with his face toward them, and he looked very, very funny. His eyes were big and black, and one was bigger than the other; and his mouth was so very big and crooked it looked as if he was crying. Charles and Mary both laughed, and then set to work with a will, to finish the fort before papa came in. And they did it, too, and their father thought it was ever so nice, and they all had worked so hard, they had splendid appetites for dinner.

THE INTERNATIONAL SUNDAY-SCHOOL LESSON.

(Copyright Davis W. Clark.)

First Quarter. Lesson IX. John 6:1-14.
February 26, 1905.

The Miracle of the Loaves and Fishes.

Crucial times had come. John Baptist was martyred. Prudence suggested retirement. Weariness demanded it. The retreat would also afford the apostles an opportunity to report more minutely to the Master the experiences of their trial-trip, two and two, through Galilee, from which they had just returned. So the boat which had been chartered for Jesus and "waited upon Him" was employed to put the weary toilers beyond the reach of the multitudes that pressed upon them even at mealtimes.

Headwinds probably drove the little bark near shore and retarded its progress. Clandestine as the departure had been it failed of its purpose. An ever-augmenting throng hurried around the head of the lake, and probably apprised some pilgrim caravans to the Passover of the coming of the great Nazarene. So when Jesus' boat ran its keel upon the pebbly shore, there stood five thousand men, not to mention the women and children.

So far from being irritated by the falling of His plans, Jesus' heart was touched to pity at sight of the shepherdless flock, and He began at once to instruct them in many phases of the doctrine of grace. In the absorbing interest of the theme neither Teacher nor taught observed how the sun was tipping to the western horizon.

But the commissary of the apostolic college suddenly awoke to the situation. Five regiments, and no stores on hand or any country to forage upon! After some questions on Jesus' part, calculated to test His disciples' faith, but to which they responded with phenomenal obtuseness, He proposes to work what, in some respects, was His most remarkable and significant miracle.

The material basis of the miracle was paltry in the extreme.

But one poor fisher's rude and scanty store
Is all He asks (and more than needs),
Who men and angels daily feeds.

There is a vivid, descriptive touch in the Greek which does not appear in our version. Under Jesus' direction the confused throng was resolved into the order of a French parterre. He had them sit platwise, so that they looked, in their high-colored garments, like veritable flower-beds with green turf intervening.

After the cheerful grace, which Jesus never omits, he puts a morsel of bread and fish in the hand of each apostle, and sends him forth to serve. What each breaks off is larger far than what remains. But that which remains is undiminished. And all are fed and filled. As a lesson in frugality, the unused fragments are ordered to be gathered up. Each hesitating apostle holds in his hands the tangible evidence of the reality and magnitude of the miracle wrought.

Even a casual reader of the Bible will hardly fail to note that St. John has a philosophy of his own, in accordance with which he arranges the facts, miracles, and discourses of Jesus. He does not do violence to chronology, but he is not hampered by it. His purpose is to show the evolution of Jesus' character and work in the most effective way possible. The material is vast and bewildering. In fine hyperbole John exclaims that if all the things that Jesus said and did were recorded the world would not contain the books that would be written. Selection is necessary. To this end he

makes choice of scenic incidents and the sermons which they evoked. So follow in order the first and second miracles at Cana, the conversations of Jesus with the woman and Nicodemus, the miracle of healing at Bethesda, and of feeding beside the sea. Nothing could be more spirited! There is a philosophic continuity which is far more effective than a bald, chronological one could possibly be.

The Teacher's Lantern.

Lovely evidence is here of the implicit confidence which maintained between Jesus and His apostles. They came to Him. They told Him what they had done, what they had taught. They were sure of His sympathy. If they needed correction, they knew it would be done in love.

The eldest disciples have no monopoly, however, of Jesus' sympathy. He is touched with a feeling for us, too. We can come to Him also, to "tell Jesus" is still the disciples' blissful recourse.

The same considerateness which Jesus showed for the health and comfort of His toilers, He still feels for those who in this latter day are engaged in His service. Seasons of respite are indispensable for the highest effectiveness. A Church imitates the Master when it gives an industrious pastor a vacation. It says, "Go apart, and rest awhile."

But apostles nor preachers have a monopoly of Jesus' sympathy. It sweeps out to inclose all sorts and conditions of men. Jesus was as compassionate toward the five thousand as toward the twelve. So His heart goes out toward the great unchurched masses to-day.

This boy went into partnership with Jesus. His little store was not taken from him by force. The moment he heard the Master had need he came running, and exclaiming, "Lord, if you can use these, you are welcome to them!" With a boy's lunch Jesus fed five thousand. Young people have talents the Master can employ to-day. General Booth says, "Shake the napkin at every corner!" The hidden "pounds" will be sure to roll out.

Five crackers and two dried hering—talk of feeding five thousand with them! But add to the crackers and fish the almightiness of Jesus, and the proposition ceases to be ridiculous. The resources of the Church for spiritual sustenance for the thousand millions of earth are palpably inadequate, until the Savior's power and blessing is added to the equation. Then there is enough and to spare.

The heavenliness of this miracle is evident in its orderliness. There was no unseemly scramble, inequality, or waste. All was precision, method, order.

Beware of Misjudging.

Perhaps it were better for most of us to complain less of being misunderstood and to take more care that we do not misunderstand other people. It ought to give us cause at times to remember that each one has a stock of cut-and-dry judgments on his neighbors, and that the chances are that most of them are erroneous.

What our neighbor really is we may never know, but we may be pretty certain that he is not what we have imagined, and that many things we have thought of him are quite outside the mark. What he does we have seen, but we have no idea what may have been his thoughts and intentions. The mere surface of his character may be exposed, but of the complexity within we have not the faintest idea.

People crammed with self-consciousness and self-conceit are often praised as humble, while shy and reserved people are judged to be proud. Some whose whole life is one subtle, studied selfishness get the name of self-sacrifice, and other silent, heroic souls are condemned for want of humanity.—Ian Maclaren.

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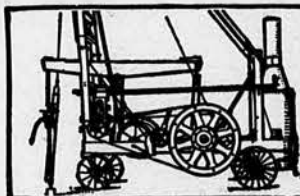
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The Home Circle

CONDUCTED BY RUTH COWGILL.

Little Tom.

I know he's harum-scarum like,
An' makes a heap o' noise,
No matter whether here at home,
Or out among th' boys;
An' yet, if little Tom wa'n't here
'Twould be almighty slow,
Becuz he thinks a pile o' me,
An' that's a heap, you know.

'Twould be so sort o' lonesome-like
Without him 'round th' place;
I know I'd miss th' smiles that play
About his roguish face;
I'd miss the questions he kin ask,
That oftentimes puzzles so,
Besides, I love th' little chap,
An' that's a heap, you know.

He 'minds me of his mother, too,
Her plecter, so folks say;
He's growin' more to look like her,
I see it ev'ry day;
What if he's kind o' bolst'rous like?
I laugh an' let it go;
He's such a cunnin' little chap,
An' that's a heap, you know.

He'll climb up in my lap, an' when
I stroke his curly head,
I git to wonderin' what I'd do
If little Tom wuz dead.
An' when his little dimpled han's
Creep soft-like 'round me—so,
I like to have him keep 'em there,
It means a heap, you know.

The neighbors they complain o' him,
An' often I hev tried
To bring myself to punish him
Instid o' jest to chide,
But when I'd see his sober face,
I couldn't strike a blow.
Her face is pictured there in his,
An' that's a heap, you know.

He ain't no bother, not a bit—
That is, I mean to me,
Becuz in ev'ry act an' word,
His mother's face I see.
Folks say he's jest a little scamp,—
Well, that may all be so,
But I—I love th' little chap,
An' that's enough, you know!

—E. A. Brininstool, in Sunset Magazine for January.

"For Love and Home."

MRS. S. Q. ADAMS.

I was much interested in Mrs. Kellogg's, "Pleas for Love and Home," in the KANSAS FARMER of February 2, but I can not feel that she puts the problem fairly.

That there are some such homes as she depicts in our fair "Kansas land" must be sorrowfully admitted, but I can not believe they are numerous.

But what I wish to protest against is that all the blame is laid upon the husband. Has not the wife also had a share in the estrangement which comes to such homes?

With the coming of little ones into the home, and the added duties which they bring, the wife's strength and patience are taxed to the utmost limit. After a day of toil and responsibility, passed entirely within doors, it is no wonder that when night comes her strength and patience and courage are gone. The husband comes from his work tired in body, but his labor has kept him all the day in the great out-of-doors, and his nerves have been quieted by the contact with nature. He has had his trials, of course; the stubborn horse, the rebellious calf, or the kicking cow; but he has met them out of doors and the free, bright air soon causes the annoyance to effervesce (as would many of the wife's trials if they could but be exposed to the air for awhile). Moreover, he has not had these annoyances with him every minute of the day, and he can leave them entirely behind when the day's work is done.

So he turns with a comparatively care-free mind to the home, and is disappointed and troubled to find his wife in a far different mood. He does not realize the constant, exacting strain upon the mind and nerves which she has undergone all day; and so he can not understand the tension which is responsible for the irritable reply, or the lack of interest in the plans which she was formerly glad to talk over with him. He only sees that his wife is "cross," and evidently wants to be let alone; so he burrows himself in his paper, or romps with the babies, and leaves her to her "dumps."

Now, who is to blame? Not the husband; he simply misunderstands the conditions. Not the overworked, overburdened wife. It is a plain case of misunderstanding, and trouble lies ahead unless a remedy be found. A good girl in the kitchen would work a great change, but good girls do not

come simply for the wishing, and in many cases there is no money for their wage. The conditions must be met and conquered as they are.

It takes grace, to be sure, but if the wife can, at the first opportunity, go to her husband and ask his forgiveness for the fretful word, and explain to him quietly and honestly, but not bitterly, that it is because she is overburdened, not because she does not love him, or has ceased to care for his attentions, or to be interested in his affairs, the breach will be quickly healed.

The husband, in all probability, will not understand her trials (he looks at things from a different standpoint), but he will at least cease to misunderstand her motives, and will strive to be more helpful and loving. The wife, strengthened by love and comforted by sympathy, will strive more earnestly for self-control.

In no situations of life must the command of Christ to "forgive till seventy times seven" be more earnestly heeded than in the relation of husband and wife.

[The discussion of such subjects as this one can not but be helpful so long as it is carried on in the spirit of fairness and sincerity and without bitterness. We welcome all such contributions and shall be glad if others will contribute the results of their experience or thinking on this or any other of the subjects of real importance.]

A Journey West.

MRS. FREDERICK C. JOHNSON.

"I am glad to see you home again, Mrs. Richards. It has been real lonesome to look over and see the shades down and no smoke out of the chimney for so long. I know you had a good visit. How did you find Sarah and Janette?"

"I should say I had a good visit, and saw so much it makes my head whirl to think about it. It does seem good to have my quiet little home to come back to after all, Mrs. Wayne. It is true, 'There is no place like home.' We were in Chicago one day and night to see the sights and do a little shopping. I wanted to take some little presents to the girls and the grandchildren, you know. To a person who never has been in a large city it is something almost beyond belief. I was in such a hurry to get on to the girls that I hurried John. He wanted to stay longer—said we would never come again, but I believe we will if the girls don't come home in a year or two. It will not be so hard to start out again, now we have been once."

"We left Chicago over the Burlington and did not get off until we got to the town where Sarah lives. We saw some of the finest country in the world through Illinois, Iowa, and Nebraska. Some of it was too flat to suit me, but there the greatest crops of corn grew, and such fine stock. I told John it was like being at a fair all the time. Sarah and her husband met us at the station with a nice, two-seated carriage and pair of fine black horses, fat and sleek (you don't see poor

Health of American Women

A Subject Much Discussed at Women's Clubs—The Future of a Country Depends on the Health of Its Women.



Mrs. T. C. Willadsen Miss Mattie Henry

At the New York State Assembly of Mothers, a prominent New York doctor told the 500 women present that healthy American women were so rare as to be almost extinct.

This seems to be a sweeping statement of the condition of American women. Yet how many do you know who are perfectly well and do not have some trouble arising from a derangement of the female organism which manifests itself in headaches, backaches, nervousness, that bearing-down feeling, painful or irregular menstruation, leucorrhœa, displacement of the uterus, ovarian trouble, indigestion or sleeplessness? There is a tried and true remedy for all these ailments. Lydia E. Pinkham's Vegetable Compound has restored more American women to health than all other remedies in the world. It regulates, strengthens and cures diseases of the female organism as nothing else can. For thirty years it has been curing the worst forms of female complaints.

Such testimony as the following should be convincing.

Mrs. T. C. Willadsen, of Manning, Ia., writes:

Dear Mrs. Pinkham:—
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Lydia E. Pinkham's Vegetable Compound Succeeds Where Others Fail.

horses through that country—the 'corn belt' they call it), it did not take them long to travel the two miles to their home. You know, Sarah and husband went West when the country was new and took a homestead and also a timber claim which makes them three hundred and twenty acres. They have splendid groves on the north and south side of the buildings, and orchards. They told us it was as important, if not more so, to have orchards protected on the south from the hot winds as from the cold of the north. Their house is large and plain and is all used every day. I asked Sarah where her parlor was. She laughed and said, 'No spare, shut-up rooms for me.' There is a large sitting-room with library opening out of it with arch between.

"They are both great enthusiasts on farming—take lots of agricultural papers and write for them, too. You ought to see their garden, everything in rows, and wide enough between to run horse and cultivator. They don't hoe in that country as we do here, and I never saw nicer vegetables. There was pleplant and horseradish in rows and cultivated the same as the rest of the garden; you would not think cultivation could make such a difference.

"The apple-trees are all headed low and were full of apples. They spray and cultivate their orchard. Some of the neighbors did not, and had no

fruit. I did not see any of my favorite apples, Rhode Island Greening, Spitzenzurg, Gravenstein, Northern Spy, etc., and I must say our apples have better flavor.

"Sarah does her own work, but she has everything so handy there are no false steps. I never supposed one could have things so convenient on a farm. And the funny part of it is I had to go 'away out West' to find it out. Her daughter Helen was away to school but came home to visit with us a few days. She is a bright girl. Her fingers just flew over the piano keys and she is a sweet singer. She knows how to work, too. The two boys are at home. Corn-husking began just before we left. They feed the corn to cattle and hogs. The money seems to come easier and in larger lumps than here.

Janett lives one hundred and fifty miles south and west of Sarah and it is a newer country. Janett never wrote much about their home, only that it was comfortable. It was five o'clock when we got to the town and her son, Earnest, met us at the station with a big lumber-wagon, but it had good spring seats and rode very comfortably, although I was pretty tired, as it was a ten-mile drive. The horses were big, heavy fellows and did not like to travel very fast. It was long after dark when we got there so I could not tell how it looked outside. But you can imagine my surprise next morning when told I was in a sod

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house. It was plastered and papered inside so nice and on the outside plastered, then marked off like stone. The walls are three feet thick and make such wide window-sills for flowers, and Janett had sights of them. There were four rooms, a good shingled roof, and brick chimney, and really I fell in love with a sod house. But there were lots of them not so nice; some even had only the ground for floors and poles covered with sod for roof. The wind does not effect these sod houses as it does the frame, and the wind blows very hard many times. They have trees and an orchard set out. Fruit-trees do not do well until the sod has been broken and subdued. I fell in love with their cellar (or cave they called it); it was a few steps from the house. Janett keeps her milk there in warm weather, and when those bad storms come we read about they all go to the cave for safety. As they have no fruit they make much of wild plums and grapes which grow along a stream a few miles from them. Tomatoes and melons are made up in various ways. Here is a can of watermelon preserves I brought home to show. Are they not beautiful to look at? You see Janett leaves just a little of the red flesh, and when soaked in salt water over night it hardens—looks like candy. When I have a quilting I am going to have them for tea. They had over five hundred chickens. A sod henhouse was kept clean and sweet with whitewash. Thrashers came while we were there but they board themselves. They have a covered wagon where they sleep and a tent to cook and eat in—have a cook and furnish all the help except to draw the grain from the machine. Three thousand bushels of wheat seemed a sight to me, but Janett said that was a small amount to what some had.

"The schoolhouse was a frame building with tower and bell. It was used for preaching and Sunday-school every Sunday. All seemed so kind and friendly. We all went in the big wagon one day to visit a neighbor five miles away. Such a jolly time as we had and such a good dinner. There were more people than chairs so for seats a board was laid on boxes. These people came from New Hampshire, and their nearest neighbor from Ohio. You find people from all over. We had a good visit all around and I am glad to know just how the girls are situated. My own home among the hills never seemed dearer than now. I guess I am too old to get Westernized. But it is a grand, wonderful country. You can have no idea of it until you see with your own eyes."

As Mrs. Richards rose to go, her friend followed her to the door, her face full of interest. "Come over often, Mrs. Richards," she said, "I want to hear much more of this interesting country in the West."

Electric Wire.

If a person is tangled in a live electric wire and you want to extricate him therefrom do not take hold of the victim's hands, as is often done in a case of this kind. You will be shocked if you do. Be sure to grab the clothes alone, and then you are safe, and the current can not reach you. Do not let anything come in contact with your bare hands but his coat and trousers. Of course if you have thick leather gloves on you can handle with impunity the individual in distress.

Out of the Mouth, Etc.

The Sunday-school teacher was telling her scholars about the fall of Jericho.

"And the people marched around and around," she said, "singing songs and blowing trumpets, until all of a sudden down came the walls and—"

"If they sang like my sisters does," interrupted the littlest chap, "it ain't no wonder they fell down."—Lippen-cott's.

A United States flag made entirely of corn husks, the work of the high school girls of Atchison County, Kansas, floated over that State's exhibit in the Palace of Agriculture at St. Louis.

Club Department

OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.

President.....Mrs. Cora G. Lewis, Kinsley
Vice-Pres.....Mrs. Kate E. Applington, Council Grove
Corresponding Secy.....Mrs. Eunice H. Brown, Olathe
Recording Secretary.....Mrs. F. B. Hine, Kinsley
Treasurer.....Mrs. J. T. Willard, Manhattan
Auditor.....Mrs. D. W. Wilder, Hiawatha
State Secretary for General Federation.....Mrs. C. C. Goddard, Leavenworth

Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).
Give and Get Good Club, Berryton, Shawnee County (1902).
Woman's Literary Club, Osborne, Osborne County (1902).
Woman's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage County (1888).
Ladies' Crescent Club, Tully, Rawlins County (1902).
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).
Chautau Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literary Club, Ford, Ford County (1903).
Sabeau Club, Mission Center, Shawnee County, Route 2 (1899).
Star Valley Woman's Club, Iola, Allen County (1902).
West Side Forestry Club, Topeka, Shawnee County, Route 8, (1903).
Fortnight Club, Grant Township, Reno County (1903).
Progressive Society, Rosalia, Butler County (1903).
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
The Lady Farmers' Institute, Marysville, Marshall County (1902).
The Woman's Progressive Club, Anthony, Harper County.
Taka, Embroidery Club, Madison, Greenwood County (1902).
Mutual Improvement Club, Vermillion, (Marshall County (1903).
[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

Be strong!
We are not here to play, to dream, to drift.
We have hard work to do, and loads to lift.
Shun not the struggle; face it. 'Tis God's gift.
Be strong.
Say not the days are evil—who's to blame?
And fold the hands and acquiesce—O, shame!
Stand up, speak out, and bravely, in God's name.
Be strong.
It matters not how deep entrenched the wrong,
How hard the battle goes, the day, how long,
Faint not, fight on! To-morrow comes the song!

—Maltbie D. Babcock.

KANSAS HISTORY PROGRAM.

Famous Kansans Past and Present.
Roll-call—A tribute to your native State.

- I. Politicians.
- II. Writers.
- III. Farmers.
- IV. Schemers and cranks.

Kansas has comparatively few native sons and daughters. Her children have come to her from far and wide. It is probable that in each club circle, there are representatives of as many States as there are members. For roll-call let each member name her native State, and speak some word of tribute which shall express her feeling for it.

Kansas, from the day of her opening as a Territory, has been rich in politicians. They seem to thrive and multiply on her soil. Some of her politicians have been widely known, some have even already made themselves known beyond her borders. The writer of the first paper will surely have plentiful material for it.

Even more widely than in politics, Kansas has sent her light abroad through literature. Senator Ingalls, with his polished prose that has come to be considered classical; Dr. Sheldon, who preaches to the world through his simple stories; Secretary Coburn, perhaps the only man in his position whose reports are recognized as literature; Professor Carruth, who has written poetry that is ranked with some of the best in the language; J. W. Gleed, William Allen White, Eugene Ware—already Kansas can be proud, with such names on the roll of her writers.

To be famous as a farmer is rather a unique honor. Yet in Kansas we have at least a few who have practiced this profession so successfully, or in so unusual a way, that they have been heard of. We have an apple king and a potato king, an irrigation expert and a ranching genius. It is truly a wholesome thing to consider what men of fine minds are on our Kansas farms.

Perhaps the class by whom Kansas is most frequently and loudly identified, is her cranks. All kinds of gigan-

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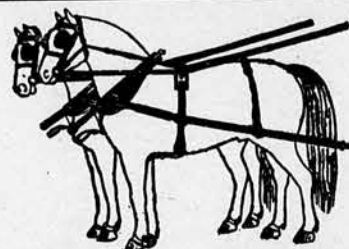
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Write us for our beautiful illustrated pamphlet, maps and full information, sent postage paid.

Address, SPOKANE CANAL COMPANY, 512-13-14 Fernwell Bldg., Spokane, Wash.

tic schemes have been hatched here. Agitators thrive, and anything new can get a hearing. Many a far-sounding noise has started from Kansas.

HOUSEHOLD PROGRAM.

Reading and Self-Culture.

Roll-call—The most beautiful thing I have ever read.

- I. The best books.
- II. Keeping up with the times.
- III. "God's Out-of-Doors."

IV. The dearth of time and opportunity and how to obviate it.

In discussing the matter of reading, the first question is what to read. There are many books, as of course every one admits, that were far better poked into the stove than read. There are other books which are not particularly harmful, but neither are they helpful. Still other books are there—and many of them—which are good to read and enjoy. It is only this last class that is worth considering at all, and the question then is one of selection. Of all these good and helpful books, what shall I, overburdened with care, overworked with work—what shall I choose as best and most valuable to me? This question can be answered only by each individual for himself; yet help and good advice can be given, and this is the duty of the writer of the first paper.

Every mother wishes to "keep up with the times," to be able at least to follow intelligently the conversation of her children. Only by keeping inter-

COMBINE business with pleasure. See the Great Lewis & Clark Exposition at Portland, Ore., June 15, to Oct. 15, and make expenses by investigating what Spokane and surrounding country has to offer in the way of profitable investment. Real estate is cheaper and advancing more rapidly than in any other city of the Pacific Northwest. This is also true of farm lands which can be had for \$5 per acre and up. Volcanic ash soil, producing more per acre in fruit and farm products than any other section of the United States with never a crop failure. Climate is unsurpassed. Stop-over granted on all tickets. For detailed information address Spokane Chamber & Commerce, Spokane, Wash.

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ested in the progressing life and thought of the world can the mother retain her youth, her influence over her children, and her joy in life.

One of the surest and safest means of self-culture, is that communion with nature of which the poet speaks. To look at the gorgeous sunrise, to feel the greatness of our illimitable prairies, to live out of doors with the wild things and the grass and flowers, all this makes one's nature finer and more responsive to beauty everywhere. "God's Out of Doors" is the best school in the world.

The last topic faces the real issue. Of course every one wants to read, and to learn to think and feel finely. But there are other things in this world for us to do. We were not put here merely to enjoy. We must cook and scrub and wash and iron and sweep and sew and mend and darn and get the children ready for school and attend to the poultry and visit the sick, and a hundred other things. Where then appears our time for reading and self-culture? But many women, as busy as ourselves, do find the opportunity, somehow. Then let us consider it, as we close our pleasant program, and let us see what we can do.

THE RAILROAD QUESTION IN KANSAS.

(Continued from page 201.)

Garver bill is contained in section 4, which in definite and precise terms confers the power and authority upon the commissioners to determine just rates and to put them into effect as follows:

"Sec. 4. The power and authority is hereby vested in the Board of Railroad Commissioners, and it is hereby made its duty, to supervise all railroad, freight, and passenger schedules of rates, tariffs, and classifications, and all rules and regulations governing car service, the transfer and switching of cars from one railroad to another at junction points or where entering the same city or town, all charges made therefor, as well as the rules and regulations adopted by any railroad company for the operation of its road in the running of trains. It shall be the duty of said board, from time to time, to alter, change, amend, or abolish any schedule, classification rate, rule, or regulation established by any railroad company or companies which the board, either upon complaint as hereinafter provided, or upon its own motion, may find to be unreasonable, unjust, or discriminative; and such amended, attired or new schedule, classification, or rate, rule, or regulation, shall be put into effect by such railroad company or companies within not more than thirty days after receiving written notice of the order of the board; provided, that before such order is made by the board, notice and a hearing shall be given as required in sections 9 and 10 of this act."

Methods of procedure and other matters of importance are covered in the other sections of the bill. The feature of any railroad law essential to making it fit the situation as now developed is that it shall place the rate-making power in the hands of a disinterested board; that the rates made by this disinterested board shall go into effect within a reasonable time; that suitable provision be made for enforcing the board's rates; and that the board's rates shall be in effect during any litigation that may ensue concerning them.

All laws that have contained these provisions have been effective. The omission of any of them will leave Kansas subject to pay the high rates that have prevailed in this State heretofore, and subject to the unjust discriminations which have hampered Kansas development.

Heretofore, as shown in the KANSAS FARMER of February 10, Kansas railroads, as well as their patrons, have been powerless to remedy the evils complained of. Whether the late acquisition of vast influence in the management of these roads by the Standard Oil interests make the case more hopeful for justice at the hands of the railroads is a question on which Kan-

sas may well take council of their recent experiences in the oil industry.

The way to regulate the railroads is to regulate them. Effectual and reasonable regulation, just alike to the people and to the railroads, can be had by placing the authority in the hands of the Railroad Commissioners, not in a doubtful, verbose, or uncertain manner, but specifically and in plain words that can have but one meaning, and not omitting to impose suitable penalties for non-compliance with the law.

SOME KANSAS PERCHERONS.

To Kansas belongs the distinction of having the oldest herd of Percheron horses in the West and one of the oldest in the United States. It is also claimed for this herd that its owner has used a better class of herd sires than any other breeder in the United States. This herd belongs to Henry Avery & Son, Wakefield, Clay County, Kansas, who had the distinction of winning the first prize, the junior champion and reserve grand champion for mares at the Louisiana Purchase Exposition and the first prize on young stud of stallion and four mares. They also won first prize and gold medal on best pair of mares any age, the champion mare 2 years old or under, and the reserve grand champion mare any age in the American Percheron Horse-Breeders' Association specials. In support of the claim that the best of sires have been used in the Avery herd we give the following partial list: Quimper 400, the first registered Percheron in Kansas.

Nyanza 869, a winner at Kansas State and Bismark Fairs, and wherever shown. His sire was Success 452, and his dam was Mignonette 584, the greatest prize-winning mare in France and America.

Paladin 2175 (998), sired by Dunham's great Brilliant 1271 (755).

Voltaire 3d 4320 (2963), sired by the \$5,000 Voltaire 3540 (2963), and was selected by Rosa Bonheur, the great live-stock artist, as a typical Percheron.

Waterloo 16th 19287 (14946), winner in class and grand sweepstakes over all breeds at Kansas State Fair 1889.

Fier A Bras 15746 (13555), winner in the 4-year-old class at the World's Fair at Chicago 1893.

Brilliant 3d 11116 (2919), acknowledged by all Percheron Horse-Breeders to be the greatest sire of prize-winners ever used in France or America.

Favorite 22937, sired by Brilliant 3d and his dam a Voltaire mare, and a producer of the quality that his rich breeding would indicate.

Dublin 44533 (24680), his sire Theudie, a prize-winner in France and America and half-brother of Dublin have won all important prizes at the International for the past two years.

Illustre 20489 (our present herd stallion). Illustre weighs 2,200 pounds. His sire, Introuvable 16875 (24146), won the grand sweepstakes at the World's Fair at Chicago, and his dam, Bertha 5340 (7008), was also a winner in class and sweepstakes at same fair.

The Averys have just acquired a new herd stallion in Bosquet 40105 (46612), who was imported by Dunham, Fletcher & Coleman in 1903. He is a solid black in color, weighs 2,200 pounds, and has already made a record as a prize-winner. In 1903 he was shown at the International at Chicago as a 3-year-old and was given second place. In the same year he received the same placing in the same ring at the Minnesota State Fair.

At the Illinois State Fair 1904 he won third place in the aged stallion class and at the International of 1904 he was given third place, defeating the second prize-winner at the World's Fair. He has always been shown in the largest draft-horse shows in the United States and, being of the same age as Pink, a well-advertised favorite, and belonging to the same exhibitor he has shown at a disadvantage although many expert judges consider him a better horse than Pink. At any rate there is but one other Percheron stallion that has a better winning record for the past two years in the United States. His victories have been won in hot competition and we take pleasure in presenting his picture on

our front page this week. We think he will have a place and a creditable one at the end of the long list of famous stallions that have been used in this herd.

Brilliant 3d, the greatest sire of his breed, spent the last three years of his life on the Avery farm and there is more of his blood in their herd at the present time than is to be found in any one place on earth.

The great uniformity of type found in this herd speaks volumes for the quality represented. The attention that has been given to the mare classes is one of the things which has contributed to the success attained by the Averys at St. Louis and elsewhere.

No breeder of any breed can hope for success unless attention is given to the keeping up of the quality of the females of the herd as well as the males. This is the only plan by which sure success can be attained and it is a pleasure to record the fact that such success here is the result of the skill exercised by Kansas men and on a Kansas farm.

THE TERRORISTS IN RUSSIA.

Events of great importance are taking place in Russia. The Grand Duke Sergius, uncle of the Czar, has met death by a dynamite bomb, thrown under his carriage by a "terrorist." Until the birth, a few weeks ago, of a son to the present Czar, the fear was that Sergius would presently succeed to the throne. Czar Nicholas is reported to be physically weak, subject to epilepsy, so that a succession may become necessary at any time. While Sergius lived the succession would have fallen to him had there been no heir, and in any case the chief direction of the government during the minority of the heir. Sergius was said to be the most reactionary of the grand dukes. The grand dukes are reported to wield the influences which hinder the institution of needed reforms, as well as to absorb much of the wealth produced by the people.

The terrorists, some time ago, gave out the information that Sergius was condemned to death. They have now included the Czar, his wife, his son, and others in the list of the condemned.

The grand dukes are staying in their castles and will not even venture to attend their relative's funeral.

The world is interested in these events as a part of the revolution now ripe in Russia, a revolution in which the middle and some even of the lower classes mean to acquire rights of participation in the government. This trouble at home is greatly weakening the Russian power to combat the Japs in Manchuria. One of the effects is more peace talk than has occurred since the opening of the war. The withdrawal of a Russian war loan, recently offered in Paris, lends confirmation to this peace talk.

MISSOURI STATE DAIRY ASSOCIATION MEETING.

The fifteenth annual meeting of the Missouri State Dairy Association was held at Brookfield on February 15-17, 1905. The meeting was a conspicuous success in every particular. In spite of the stress of weather the attendance was very large and the program one of the most interesting that has ever been listened to.

The city of Brookfield is a handsome place of about 8,000 inhabitants, each one of whom tried to make the visitors feel at home. The hotel accommodations were very satisfactory as to quality but the large attendance at the meeting resulted in some crowding. The officers of this association had evidently done a vast amount of preparatory work, and great credit is due to President W. W. Marple, of St. Joseph, and Secretary C. H. Smalley, of Kansas City, for the very satisfactory program prepared, the convenient arrangements made for the meetings and for the exhibition of machinery and appliances and for prizes provided for the exhibitors of butter, cheese, and cream.

Kansas was represented on the program directly by Mr. W. H. Phipps, of Wichita, and indirectly by Mrs. Nellie Kedzie Jones, formerly of the Kan-

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sas Agricultural College, but now at Kalamazoo, Mich; also by President Marple, of St. Joseph, Mr. L. G. Humbarger, of St. Joseph, and Mr. J. H. Walker, also of St. Joseph, all of whom were formerly of Kansas.

Prominent men from other States than Missouri were also introduced and made addresses. Among these were Professor C. B. Lane, of the Dairy Division of the United States Department of Agriculture; Hon. A. J. Glover, of Wisconsin; Prof. D. L. Haecker, of the dairy department of Minnesota Agricultural College; President W. H. Moore, of the National Good Roads' Association of St. Joseph.

Hon. H. J. Gurler, De Kalb, Ill., had a place on the program. Mr. Gurler is the gentleman who shipped milk from his dairy farm in Illinois to the Paris Exposition and delivered it sweet and pure, with no preservatives but cleanliness and cold. Mr. S. W. Coleman, of Sedalia, the man who cleared \$1,000 in one year with ten cows on ten acres, also had a prominent place on the program.

Perhaps the event of the meeting was the speech delivered by Mrs. Nellie Kedzie Jones, whose subject was "The School, the Ally of the Home." Of Kansas people who have heard of Mrs. Jones, no word can be said to convey any new information as to her ability as a public lecturer. There were among the people in attendance at Brookfield, however, some who had never listened to her and who found in her speech a revelation and inspiration.

It is a satisfaction, therefore, to be able to announce that all of the papers presented by this meeting have been secured for publication in the KANSAS FARMER. As this is the only paper that will publish them in full, we feel that the number containing these papers will be of special interest to farmers and dairymen throughout the West.

THE FARMERS' SHORT COURSE AT THE OKLAHOMA AGRICULTURAL COLLEGE.

Oklahoma is great because she possesses a liberal portion of nature's good gifts, and a variety of good soil, which means a diversity of crops and agricultural wealth. But her remarkable progress and the place she has suddenly attained in the rank of the great agricultural States is due in a great measure to the intelligence, energy, and pluck of her citizens. The successful initiation of her first farmers' short-course at the Agricultural College, at Stillwater, was a conspicuous example of her enterprising ambition brought to a successful conclusion.

Under plans matured by Director Fields and Professor Burtis, and their assistants a very instructive and valuable program was arranged, the complete success of which was aided very materially by the enthusiastic cooper-

ation and support of a host of enterprising citizens of the college town of Stillwater, who extended a hearty welcome to the visitors from all over the Territory. Only those who were privileged to attend can tell how much was lost to those who could not attend the week's work at the Stillwater institution. The weather was very cold and doubtless kept many from attending, but while the mercury was sinking below the zero point in an unheard of manner, the appreciation and enthusiasm for this new undertaking continued warm up to the last minute.

Ex-Senator Harris was present in the interest of the American Shorthorn Breeders' Association and gave a valuable address in addition to some practicable talks in the judging ring on Breed Types. H. W. Avery, the well-known Percheron breeder of Wakefield, Kans., was present during the entire session and assisted in the draft-horse work. A host of prominent Oklahoma stock-breeders and agriculturists were present and added to the interest of the work.

BLOCKS OF TWO.

The regular subscription price of the KANSAS FARMER is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to receive the paper at half price. While the subscription price will remain at one dollar per year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year and one dollar to pay for both. In like manner two new subscribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

Special to Our Old Subscribers Only.

Any of our old subscribers who will send us two NEW SUBSCRIPTIONS at the introductory rate of fifty cents each, will receive any one of the following publications as the old subscribers may choose, viz., "Woman's Magazine," "Western Swine Breeder," "Vicke's Family Magazine," "Blooded Stock," "Poultry Gazette," "Dairy and Creamery," or "Wool Markets and Sheep."

The best fruit paper in America—that is the same as saying the best in the world—is "The Fruit-Grower," published at St. Joseph, Mo. The February number contains 56 pages, each 11 by 16 inches. It is elegantly printed on fine paper and superbly illustrated. Best of all, it is edited by a live man and contains the writings of the best authorities. The February number makes a specialty of spraying. Every farmer ought to file this number away so that the information it contains can be reviewed at any time. The March issue will be a "gardening" number. Get it either through the KANSAS FARMER clubbing proposition or by sending directly to "The Fruit Grower," Box 42, St. Joseph, Mo.

Among the many puzzling missives received by our subscription department now comes one of our self-addressed envelopes containing twenty two-cent stamps and nothing more. The postmark is Council Grove. Who sent it?

50 Bu. Macaroni Wheat Per Acre,



introduced by the U. S. Dept. of Agr. It is a tremendous cropper, yielding in good land in Wis., Ill., Ia., Mich., Ind., O., Pa., N. Y., 80 bu. per acre, and on dry, arid lands, such as are found in Mont., Idaho, the Dakotas, Colo., etc., it will yield from 40 to 60 bu. This Wheat and Speltz and Hanna Barley and Bromus Inermis and Billion Dollar Grass, makes it possible to grow and fatten hogs, sheep and cattle wherever soil is found.

JUST SEND 100 AND THIS NOTICE to the John A. Salzer Seed Co., La Crosse, Wis., and they will send you free a sample of this Wheat and other farm seeds, together with their great catalog, alone worth \$100.00 to any wide-awake farmer.

Miscellany

Interested in Southwestern Agriculture.

The great Rock Island Railroad takes a commendable interest in the development of the country through which it runs. Its officials are alert in promoting the interests of their road by assisting in making the country productive. An instance is presented in the following letter from John Sebastian to the committee of Congress having in charge the agricultural appropriation bill:

Chicago, January 24, 1905.
Hon. James R. Mann, Washington, D. C.
Dear Sir:—As you are doubtless fully advised regarding the very successful work accomplished during the past two years by the United States Department of Agriculture (Bureau of Plant Industry) covering investigations and experiments in the raising of durum wheat in the Middle West, and more particularly in Nebraska, Southwestern Oklahoma, and Western Kansas, which, on account of the insufficiency of rainfall is not adapted to the successful growth of the regular varieties of spring and winter wheats, I would respectfully call your attention to the fact that I have made a very careful study of this subject for over two years and kept in very close touch with the experiments with durum wheat made by the farmers located in territory tributary to the lines of this system in the West and Southwest, and I can conscientiously say that the results secured have far exceeded our expectations and have demonstrated that when the great and lasting benefits which will be attained by a thorough exploitation of this cereal will result in adding millions of dollars annually to the products of this country, and 75 per cent of the same will originate in territory at present a very small factor as a grain-producer.

As I understand that the amount available at present for the prosecution of this great work is not at all adequate, considering the importance of the subject and the great and lasting benefits assured the West and Southwest by a series of systematic, thorough, and practical educational demonstrations conducted by the Department of Agriculture, I feel justified in asking you to introduce a bill at the next session of Congress providing for an appropriation of at least \$75,000, and thereby make it possible for the Department of Agriculture to continue its good work along more extended lines than in the past. I can assure you that a \$75,000 or \$100,000 appropriation for the above purpose would be a good and wise investment and tend to produce results running into the millions, opening up for agricultural purposes millions of acres of land at present adding practically nothing to the revenue of the country, and providing a home and independence for the thousands of families at present located in the congested districts of the East.

Secretary Wilson is deeply interested in this subject and will no doubt gladly furnish you with such information as you desire. We are doing everything possible to cooperate with the Department, and if I can be of any service to you please command me.

Yours truly,
JOHN SEBASTIAN,
Passenger Traffic Manager.

And Mr. Mann said:

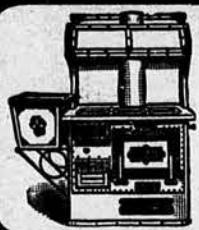
Mr. Chairman, I did not ask to have the letter read for the purpose of affecting the amount of the appropriation. That is a matter that I am perfectly willing, so far as I am concerned, to leave to the discretion of the committee in making its report. My purpose is to call attention to the information given by this gentleman, who is one of the best posted men on the subject of the products of the territory through which the Rock Island Railway system runs, and to show the interest which the people generally have in this subject. I believe that that letter is an indication of the value of the work that is being carried on through the appropriation which we are now considering.

And the sequel is, it is probable that an appropriation of \$25,000 will be available for a continuation of the work so well begun. There is no more potent force in promoting the development of our Southwestern territory than the railway companies whose lines traverse that section. The varied channels through which this influence is exerted and its beneficent effect for all interests should be fully appreciated.

There is also a moral to this: If legislation is desired in any cause, write to the legislators a presentation of the case.

Snow in the Mountains.

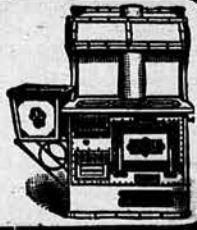
The Colorado snowfall bulletin for January, 1905, is as follows for the Arkansas watershed: Leadville—Very little drifting. Malta—Snowfall light. Buena Vista—Outlook favorable for prolonged flow. Granite—More than usual on range. Salida—Much in mountains, and gulches well filled. St. Elmo—Have had more than usual. Turret—South slopes bare. Winfield—Winter has been open; snow well settled. Cotopaxi—Deep drifts in gulches will probably last until late in spring. Whitehorn—More



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ing fast, and water being absorbed; snow on north hillsides will prolong flow later than usual. Rosita—Fall of 18 inches on 17th-19th well settled and solid. Westcliffe—Outlook good; ground in mountains well filled with moisture, and frozen. Gardner—More than at any time heretofore since 1885. La Veta—Fall of 15 inches swept into gulches. St. Mary's—Most for January in five years. Guinare—Owing to winds, more snow below timber line than above; outlook excellent. Tercio—Heavier than for January a year ago, but below normal.

Rough Floors.

EDITOR KANSAS FARMER:—How shall I fill the cracks in a kitchen floor to make it smooth enough to cover with oil cloth? H. MORTON.

Ottawa County.
We submitted this inquiry to the A. B. Whiting Paint Company, Topeka. From this company we learn that for floors that are not excessively worn "Cripper's Crack and Crevice Filler" is to be recommended. It is sold at 20 cents per pound and is applied like putty.

If the floor is so rough that this treatment would be very expensive, the cheapest way out is probably to lay a new floor. Something may be done to mitigate the wearing effect of a rough floor upon oilcloth by covering the floor with several thicknesses of paper—old newspapers are good—before laying the oilcloth.

Publisher's Paragraphs.

The Chamber of Commerce at Tacoma, Wash., advertises in these columns the great advantages for business and residence of that wonderful, growing city where centers the products of land and sea. It sends full information and finely illustrated publications to all those contemplating a change to the Pacific Coast.

The tide of travel the coming summer will be toward the West, with Colorado as the center, because it's there that all the big 1905 conventions are to be held. If you have never taken a trip through the Rocky Mountains, make your plans to do so while the low rates for convention visitors are in force. C. H. Speers, General Passenger Agent, Colorado Midland Ry., Denver, will tell you all about Rocky Mountain trips and Denver as a convention city, if you drop him a postal.

A Guaranteed Apple.

When a great nursery produces an apple so hardy and prolific that it can afford to positively guarantee a bushel of fruit from every tree, it makes one wonder "what next?" This is exactly what L. L. May & Co., of St. Paul, Minn., are doing with their "Minnetonka Apple," which is not only an ideal cooking and dessert apple, but a better keeper than even the well-known "Wealthy." Their advertisement, which appears elsewhere in this issue, gives full particulars.

Big Presents Free.

On page 224 of this issue our readers are given an opportunity to earn some most valuable prizes. The complete list of prizes offered by Successful Farming includes among other things six pianos, fifteen incubators, half dozen guaranteed 17 jewel gold watches, buggy, harness, elegant bedroom furniture, complete set of parlor furniture, besides many other valuable articles and a large list of cash prizes.

Successful Farming is a most handsome agricultural paper and is as instructive as it is handsome. The publishers are perfectly responsible and our readers may depend upon their offer being carried out to the letter. We would like to see our readers win a large number of these prizes and they can if they count and plan better than others. Look up the offer on page 224 and send in your counts at once. This is really an opportunity you should not fail to take advantage of.

Sherlock Holmes Again.

Conan Doyle's detective stories, with the marvelous Sherlock Holmes as their hero, have achieved the greatest success of recent years. Appreciating this fact the publisher of Collier's Weekly, New York, induced Mr. Doyle to write a final series of the great detective's adventures. Repeated refusals were followed by increased inducements and finally Mr. Doyle agreed to write thirteen stories for

\$45,000 or about 60 cents a word. The entire correspondence was by cable. The amount paid out by Collier's is the largest ever paid for such work and does not include the right to publish the stories in book form. By special arrangement with Collier's, these famous stories are being printed in the Kansas City Star, one story each week, beginning in the daily edition, Saturday, February 11, and in the weekly, Wednesday, February 15. None of the present popular features of the Star will be cut down or omitted to make room for this remarkable set of stories. Practically the contents of a \$1.50 book will be added to the contents of the Star, in three months, without any increase of the subscription price, 10 cents a week the daily Star (morning, evening and Sunday, 13 complete papers a week), and 25 cents a year for the Weekly Star.

Agricultural Uses for White Lead.

"White lead and oil is a very common application to apple-trees, both to the wounds where limbs have been sawed off and to the trunks of the trees. As to injury from this, I have never heard of a case of trees being injured by its application, and I have used it for eight or ten years continuously myself. I do not think there is any possibility of injury from the use of a mixture of pure lead and oil. Where commercially mixed compounds are taken with other ingredients, however, I would not like to say positively, although I think even here that the probability of injury would be very small," writes Mr. N. O. Booth, of the Geneva Experiment Station, in the Rural New Yorker.

Purity in White Lead for apple-trees is no more important than purity in White Lead for houses. The different substances in common use as adulterants for White Lead have no paint value whatever and are injurious inasmuch as they take the place of the pure lead that is necessary to insure perfect protection for the surface painted. The standard brands of strictly pure White Lead will be found to be both the best and cheapest paint that can be put on a house.

Smoking Meat for Summer Use.

At this season of the year, it becomes a matter of anxiety, how best to prepare our meat for summer use. We have all experienced the trials incident to butchering, curing, and smoking meat, and it is with apprehension that we always approach the last part of this work, the process of smoking.

During the last eight years a firm in Kansas City, Mo., has been exploiting a new way of smoking meat and where their method has been adopted all the work and worry attending the old way has been done away with.

They manufacture what is known as Wright's Condensed Smoke which is a liquid made by burning selected hickory wood, condensing the smoke into a liquid, which is then put up in quart bottles, one of which is sufficient to smoke a barrel of meat.

By referring to the advertisement of The E. H. Wright Company, Limited, on page 211 of this issue you will learn how to procure a small sample of their preparation free of charge.

In writing them please mention this paper.



To Whom It May Concern: The stockholders of the Topeka Independent Telephone Company have thought best to incorporate as a Kansas corporation, the organization having been originally made under the laws of West Virginia. With this end in view and in order to enlarge their capital the business has been transferred to the Independent Telephone Company, organized under the laws of Kansas. There will be no change in management or in the conduct of the business. At a meeting of the stockholders of said company held at 519 Kansas Avenue, Topeka, Kan., on Tuesday, January 3, 1905, the following resolution was adopted for the purpose of securing the dissolution of the old company:

"Be it resolved by the stockholders of the Topeka Independent Telephone Company, in general meeting assembled, that all business of this corporation be discontinued and that no further business be transacted by its officers and directors save and except such as may be necessary to wind up its affairs and conclude its operations, and to this end the president of this company is hereby authorized to cause public notice of this resolution to be made in the Kansas Farmer, a weekly newspaper published at the City of Topeka, Shawnee County, Kansas, near the principal office or place of business of this corporation once a week for six weeks, and he shall also forthwith forward a certified copy of this resolution under his hand and the seal of the corporation to the Secretary of State of the State of West Virginia."

B. F. FANKEY, President.

PILES

NO MONEY TILL CURED. 27 YEARS ESTABLISHED. We send FREE and postpaid a 232-page treatise on Piles, Fistula and Diseases of the Rectum; also 108-page illus. treatise on Diseases of Women. Of the thousands cured by our mild method, none paid a cent till cured—we furnish their names on application. DRS. THORNTON & MINOR, 2360 Olive Street, St. Louis, Mo., and 1007 Oak St., Kansas City, Mo.

In the Dairy

Experimenting With Dairy Cows.
Excerpts from Bulletin No. 125, Kansas
Experiment Station, by D. H. Otis.
(Continued.)

Alfalfa Hay.—This station has had such excellent results from feeding alfalfa hay that we consider it an indispensable factor in dairying. Usually the rough feeds are rather poor in protein, but alfalfa contains eleven pounds of digestible protein in every 100 pounds of hay. This per cent of protein is for average hay; good quality, well cured, with the leaves on, will test much better than this. Recently the department sent samples of alfalfa hay from Riley County to be analyzed, with a view of its being used at the St. Louis test of dairy cattle. The analyses of this hay, which were common samples, showed that the total protein contained was 19.1 per cent, or 4.8 per cent higher than the average. Our experience indicates that to a certain extent alfalfa can be made to take the place of bran; the analyses of digestible nutrients of these two feeds follow.

Table XXIV.—Composition of alfalfa and bran compared. (Henry.)

Name	Protein	Carbohydrates	Fat
Alfalfa	11.0	39.6	1.2
Bran	12.2	39.2	2.7

As far as analysis of digestible nutrients is concerned, the alfalfa is fully as good as bran in carbohydrates, is nearly equal to it in protein, but falls a little behind in fat. There is doubtless greater range of variation with alfalfa than with bran, and with good quality of alfalfa the digestible nutrients will undoubtedly equal or be superior to bran.

During the winter of 1902-03 this station tried running the hay through an ensilage cutter, and we found that there was a great saving of feed where the hay was thus treated. When our cows were fed the whole hay there was plenty left for bedding; when they were fed the chopped hay they ate it stems and all. From our experience with feeding chopped alfalfa to dairy cows and to steers, we have estimated that there is a saving of 30 per cent where the alfalfa is cut up.

A comparison between alfalfa hay and soy-bean hay was made with dairy cows, and it was found that soy-bean hay was not equal to alfalfa—the leaves were broken off and there were many coarse stems which the cows did not relish. However, when the soy-bean hay was placed in the racks in the yards the cows would pick at it and evidently received a good deal of good from it.

The same experience was realized in attempting to feed cow-pea hay, here the stems being still coarser. At the time of harvesting the cow-pea stems are very full of water, and it is difficult to cure them. This would frequently injure the leaves, so as to materially decrease the value of the hay. As far as our experience goes, the cow-peas furnish a better soiling or ensilage crop than they do a hay crop. The composition of soy-bean and cow-pea hay approaches very closely to that of alfalfa, but on account of the physical condition of these hays they are less valuable for cattle-feeding.

The Kansas Experiment Station has still further tested the feeding value of alfalfa for wintering cows not in milk. Seven head were fed entirely on this hay, commencing September, 1901, and continuing through the entire winter. The results obtained with these cows, which varied more or less in weight and age, are shown in the following table:

Table XXV.—Results in wintering cows entirely on alfalfa hay.

Name of Cow	Breed	Age	Wt. Sept. 2, 1901.	Wt. April 4, 1902.	Total gain	Daily gain.
		Yrs. Mos.	lbs.	lbs.	lbs.	lbs.
Mary	Shorthorn	2 7	1,000	1,330	330	1.54
Agatha	Hereford	1 10	840	1,111	271	1.27
College Gerben	Holstein	2 6	980	1,268	288	1.35
College Mechthilde	Holstein	2 6	950	1,238	288	1.35
Buttercup	Red Polled	1 5	450	701	251	1.18
Sunset	Galloway	1 10	651	810	159	1.06
Velvet	Galloway	1 10	829	1,039	210	1.40

In the selection of a cream separator you should be guided by three essentials: 1—simplicity and durability of construction; 2—ease and economy of operation; 3—ability to skim close and produce a heavy, high per cent cream; 4—ease of cleaning. All these essentials are combined in highest degree in



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Every man who uses it will substantiate these claims. These and its many other advantages are fully described in our book, "MILK RETURNS," which we mail on request. Write for it today. We want a good, active agent in each locality. Maybe you are the man for your locality. Better write us about it. Special inducements to experienced separator salesmen.

The Omega Separator Co.,
23 Concord St. Lansing, Mich. or Department F, Minneapolis, Minn.

The cattle gradually improved in their appearance when fed alfalfa hay.

Red Clover.—Riley County is practically outside of the clover section, and we have had very little experience in feeding red clover, except as we have had it in our pastures for a short time. What little experience we have had indicates that it is a feed greatly relished by cows, and that it keeps up the flow of milk next to alfalfa. This experience coincides very closely with the composition of these feeds.

Sorghum.—Sorghum is a heavy yielder and furnishes probably more succulence than any other dry feed we have. Cattle will eat the saccharine varieties, stalks and all, with but very little waste. Our experience teaches us that it is necessary to add other feeds rich in protein. When sorghum hay is fed alone or in connection with corn there is liable to be a lessening of the milk yield, for the reason that the cow does not get enough protein to give the best results. The difference in the composition of sorghum, as compared with alfalfa, is shown in Table XXVI.

Table XXVI.—Analyses of alfalfa and sorghum compared.

	Protein.	Carbohydrate.	Fat
Alfalfa	11.0	39.6	1.2
Sorghum	2.4	40.6	1.2

We can see from this that sorghum is greatly deficient in protein. This should be supplied in some way when feeding it.

During the past winter we have experimented with running the sorghum through the ensilage-cutter, and we find that the cows eat it up cleaner and give better results than when fed whole. When cutting up sorghum only small quantities can be stored at once, for the reason that it will heat and spoil.

Stover from Corn and Kafir-Corn.—As corn is one of our greatest crops, and will doubtless continue to be, it is very important to be able to utilize the fodder. Where there is young stock to "rough through the winter," our experience indicates that the problem is a comparatively easy one; even milch cows on alfalfa or clover will eat a little stover when it is placed in a rack where they can get it at will. If stover is used for the sole roughness, it will require considerably more grain than with the roughness containing more protein. We have tested both the corn and Kafir-corn stover and find them to be of about

equal value. Stover will be eaten up much cleaner when it is run through an ensilage-cutter than when it is fed whole.

Millet.—When cut while the seed is in a hard-dough state millet makes excellent hay for dairy cows. Millet is a fair yielder, contains a large amount of nutrients, although these are rather deficient in protein, and for this reason should be fed in connection with feeds that contain a large per cent of this important ingredient. If the seed is allowed to ripen, we find it does not give nearly so good results for hay.

Hay from Prairie Grasses.—We have fed prairie hay at this station only a short time. While it may be classed as an ideal roughness for horses, it is not nearly so well adapted to cows. If grains rich in protein are fed with it, it may give fair results. On the Manhattan market prairie hay has been selling for practically the same as alfalfa, and as it is only about one-half as nutritious as alfalfa, it is usually ruled out of consideration as a roughness for dairy cows.

Orchard-Grass, English Blue-Grass, and Red Clover.—This mixture has produced an excellent hay crop which is greatly relished by the cows and gives good results. The more clover it contains the better the feed. Orchard-grass has practically the same composition as millet, and can be fed in its stead.

(To be continued.)

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SEPARATORS
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Illustrated 64 to 80-page monthly journal about game, steel traps, deadfalls, trapping secrets, raw furs. Published by experienced hunter, trapper and trader. Subscription \$1 a year, sample 10 cents. Box 73, A. R. HARDING, Ed., Gallipolis, O.

Practical Economy

If you are a practical man and realize the value of a dollar, tell us if this proposition doesn't seem fair and square. We will ship you a **Cleveland Cream Separator** to work for you on your own farm, under your own conditions. You can give it the severest test for **30 days, absolutely free**, then, if you don't believe you have a bargain you can ship the Cleveland back to us and we will pay the freight. Here are a few of the reasons why we can make this offer.



The Cleveland

the only Cream Separator with ball bearings throughout; it is fully 200% easier to operate than any other Separator made. The Cleveland has a simple, perfect working skimming device that is made of aluminum, is easy to handle and will not collect dirt or wear on the surface. The Cleveland bowl is so simple that it is as easy to clean as a dinner plate. The Cleveland is sold at from \$20.00 to \$30.00 less than any other good Separator because we put no money into expensive selling systems, or agent's commissions. We put more money into good work and still save you on first cost. You can prove these things on your own farm, before you invest one cent. Let us send you the book that tells the whole story. It is free, **The Cleveland Cream Sep. Co.** 334 Michigan St. Cleveland, O.

No expense to you to receive, try and return the Separator. We pay the freight both ways.

Direct to Your Farm

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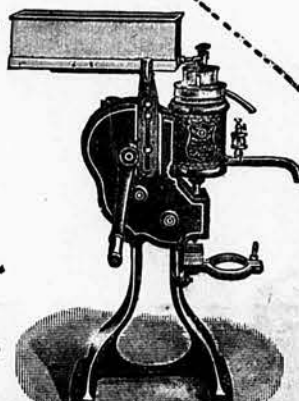
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for 50 consecutive runs:
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Solid frame, has no joints to work loose.

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New way to smoke meat in a few hours with KRAUSER'S LIQUID EXTRACT OF SMOKE. Made from hickory wood. Delicious flavor. Cleaner, cheaper. No smokehouse needed. Send for circular. E. KRAUSER & BRO., Milton, Pa.

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\$3 a Day Sure

Send us your address and we will show you how to make \$3 a day absolutely sure. We furnish the work and teach you free, you work in the locality where you live. Send us your address and we will explain the business fully, remember we guarantee a clear profit of \$3 every day's work absolutely sure. Write at once. BOWEN MANUFACTURING CO., Box 888, Detroit, Mich.

Brange Department

"For the good of our order, our country, and mankind."

Conducted by E. W. Westgate, Manhattan, to whom all correspondence for this department should be addressed. Papers from Kansas Granges are especially solicited. The Kansas Farmer is the official paper of the Kansas State Grange.

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Lecturer.....N. J. Bachelder, Concord, N. H.
Secretary.....C. M. Freeman, Tippecanoe City, Ohio

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Overseer.....A. P. Beardon, McLouth
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Steward.....R. C. Post, Spring Hill
Assistant Steward.....Frank Wiswell, Ochiltree
Chaplain.....Mrs. M. J. Ranage, Arkansas City
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W. G. Obryhim.....Overbrook

Michigan State Grange.

The following inspiring report from the Michigan State Grange is worthy the careful attention of all Grange members. Let progress be the watchword for 1905:

Michigan is one of the most progressive and aggressive States in Grange work. There is something doing all along the line. George B. Horton, State Master, is one of the large men in the National Grange. From his last interesting annual report to that body we make a few extracts:

"It is a pleasure to report that the Michigan branch of the great National body represented here is in a prosperous condition. The Michigan State Grange, which, when referred to regarding matters of public concern, such as education, social progress, nonpartisan influence, and meaning more properly the Grange democracy of the State, occupies a position second to no other legitimate influential agency. It is popular with the farmers and respected by all the people.

"We have not during the year just passed, given so much encouragement to organization of granges as in years previous, but as a natural result from plans already in operation we have added 81 granges to our list, making a total at the present time of 719 in active operation.

"According to recent reports from our State secretary we had, September 30, 1904, 44,013 members, none of whom were delinquent for more than one quarter. If we add the probable number which are delinquent for two quarters yet are active workers and considered in good standing, we fall short very little, if any, of 50,000 working members at the present time.

"Educational and program work in all subordinate granges is systematically nurtured through the efficient work of our worthy State lecturer. In August we held, under State and local cooperation, a series of 110 Grange rallies over different parts of the State. Besides these, there were many held independently, thus giving a universal State hearing to able advocates of the Grange cause. The public ear seemed receptive and the whole plan was declared a success.

"Cooperation in buying through trade contracts is made a prominent feature in our working plans. The record shows that over \$200,000 in aggregate business was transacted through this channel. Our receipts from this source for the benefit of the State Grange treasury will amount to about \$4,000 for the current year.

"Our fire insurance companies are generally doing well and prove to be a great aid to greater membership. We have about twenty county and district companies and one State company for the especial benefit of the thinly settled counties in the upper part of the on each \$1,000 for the aggregate companies is about \$1.25 per annum.

"Our efficient State committee on woman's work has accomplished much for the good name of the Grange.

"In the general Grange management we aim to teach the importance

of holding regular meetings at least every two weeks, promptness on the part of officers and members, the observance of ritualistic forms, cooperation in bringing about success in every Grange enterprise, good treasurers for all granges, county, subordinate and State, self-reliance in Grange maintenance, and a fraternal charity and good will among the members at all times.

"Our State Grange treasury possesses \$20,000 invested in long-time municipal bonds; also have ample subject to draft, working funds.

"Our State has been fully alive to the importance of owning the Grange homes and from reliable statistics I am able to report the ownership of over 400 Grange halls by our subordinate granges. In one county alone 24 of these two-story, well-equipped structures stand to the credit of the order and to proclaim the stability of the Grange to all who pass by.

"Harmony and good will prevail among our granges and members and progress is our watchword. There is no evident reason why great gains will not be made in our ranks the coming year."

Query No. 1—Why not the same be said of all States?

Query No. 2—What's the matter with Kansas?

The Veterinarian

We cordially invite our readers to consult us whenever they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the Kansas Farmer. Give age, color and sex of animal, stating symptoms accurately, of how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply, all letters for this department should give the inquirer's postoffice, should be signed with his full name, and should be addressed to the Veterinary Department, Kansas Farmer, Topeka, Kans., or Dr. C. L. Barnes, Manhattan, Kans.

Callous on Shoulders of Mare.—I have a 5-year-old mare that has a caloused bunch on her shoulder. How can it be cured? M. O. K.

Topeka, Kans.
Answer.—The best cure for a caloused shoulder is to remove the calous with a knife and then heal up the wound by the use of disinfectants.

Mange on Calves. Lice.—Please tell me the cause and cure of eruptions or mangy spots on calves, usually about the eyes, head, and sometimes on the body of cattle. Also please give me a good remedy for lice on horses or cattle. W.

Missouri.
Answer.—A disinfectant for the eruptions on your calves is made by using an ounce of iodiform, to three ounces of lard. This makes a very valuable preparation and is healing for the scabs. To remove lice, one of the coal-tar preparations used in the proportions advised by the various dealers is very beneficial.

Kicking Colt.—Please tell me a remedy for a yearling colt that kicks freely. D. U. G.

Lauton.
Answer.—If your colt kicks in the stable, attach two feet of a small chain to a strap that is buckled just above the gambel joint of the leg that he kicks with. If he kicks in the harness when driving, apply a kicking-strap over the rump.

Mangy or Itchy Horses.—Will you please tell me how to cure itch or mange on horses? It looks like mange. C. P.

Gove City, Kans.

Answer.—We will send you under separate cover a bulletin for the preparation of a lime and sulfur dip if you will write us giving your name. You can make up what you think you will need for your horses, and apply hot by scrubbing it onto the parts with a scrubbing brush. C. L. BARNES.

ZENOLEUM

Famous OOAL-TAR Carbolic Dip

For general use on live-stock. Send for "Piglets" Troubles" and "Zenoleum Veterinary Advisor" and learn its uses and what prominent stockmen say about it. Books mailed free. All druggists, or one gal., exp. paid, \$1.50; 5 gal., freight paid, \$4.25. FERRER DISINFECTANT CO., 64 Bates St., Detroit, Mich.

Sharples Tubular SEPARATORS

Tubulars Find Gold In Milk

Good butter is worth 20 to 30 cents a pound. Butter is worth only one cent a pound as stock food, yet farmers using gravity skimmers—pans and cans that leave half the cream in the milk—feed that half the cream to stock, then wonder why dairy-ing don't pay. Can't find gold without digging. Can't make dairying pay big profits without getting all the cream.



TUBULARS

Dig Right Down

to the paying level—squeeze the last drop of cream out of milk—make dairying pay. Tubulars are the only modern separators. The picture shows them. Write for catalogue G-165.

The Sharples Co.
Chicago, Ill.

P. M. Sharples
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\$25.00 Cream Separator



FOR \$25.00 we sell the celebrated DUNDEE CREAM SEPARATOR, capacity 300 pounds per hour; 350 pounds capacity per hour for \$25.00; 500 pounds capacity per hour for \$34.00. Guaranteed the equal of separators that retail everywhere at from \$75.00 to \$125.00.

OUR OFFER. We will ship you a Separator on our 30 days' free trial plan, with the binding understanding and agreement if you do not find by comparison, test and use that it will skim closer, skim colder milk, skim easier, run lighter and skim one-half more milk than any other Cream Separator made, you can return the Separator to us at our expense and we will immediately return any money you may have paid for freight charges or otherwise. Cut this ad out at once and mail to us, and you will receive by return mail, free, postpaid, our LATEST SPECIAL CREAM

SEPARATOR CATALOGUE. You will get our big offer and our free trial proposition and you will receive the most astonishingly liberal Cream Separator offer ever heard of. Address, SEARS, ROEBUCK & CO., CHICAGO.

Not Fatal.

No Matter What Doctors Say—We Know That Heart Trouble in Many Cases Can Be Cured.

There are seven main features of heart disease, viz.: (1) Weakness or Debility; (2) Rheumatism or Neuralgia; (3) Valvular Disorder; (4) Dilation; (5) Enlargement; (6) Fatty Degeneration; (7) Dropsy.

Documentary evidence will prove thousands of so-called "incurables" have been absolutely cured by Dr. Miles' New Heart Cure.

Patients often have no idea their disease is heart trouble, but ascribe it to Indigestion, Liver Complaint, etc.

Here are some of the symptoms: Shortness of breath after exercise. Smothering Spells. Pain in Chest, left Shoulder and arm. Discomfort in Lying on one side. Fainting Spells. Nervous Cough. Swelling of Feet and Ankles. Paleness of Face and Lips. Palpitation. Nightmare. Irregular Pulse.

"I have great faith in Dr. Miles' New Heart Cure, and speak of its merits whenever opportunity presents. I can now go up and down stairs with ease, where three weeks ago I could hardly walk one block." One year later, "I am still in good health; the Heart Cure did so much for me, that I find it a far greater medicine than you claimed it to be."—S. D. YOUNG, D. D., 697 North Pine St., Natchez, Miss.

Money back if first bottle fails to benefit.

FREE Write us and we will mail you a Free Trial Package of Dr. Miles' Anti-Pain Pills, the New, Scientific Remedy for Pain. Also Symptom Blank for our Specialist to diagnose your case and tell you what is wrong and how to right it. Absolutely Free. Address: DR. MILES MEDICAL CO., LABORATORIES, ELKHART, IND.

POULTRY BREEDERS' DIRECTORY

S. C. BROWN LEGHORNS—Exclusively. Pure-bred cockerels, \$1. Eggs, 15 for \$1; 100 for \$4. Poor hatch replaced at half price. Frank T. Thomas, Irving, Kans.

FOR BUFF PLYMOUTH ROCK eggs, from best stock, send to Gem Poultry Farm; 15, \$2; 30, \$3.50. Pure M. Bronze turkey eggs, 11, \$3. C. W. Peckham, Haven, Kans.

SINGLE COMB BROWN LEGHORNS—Would like to trade one dozen good hens for the same number of good White Plymouth Rocks. Eggs for hatching in season. J. A. Kauffman, Abilene, Kans.

FOR SALE—Eggs, express prepaid. B. P. Rocks, \$1 per 15; \$4.50 per 100. S. S. Hamburgs, \$1.50 per 15; \$7 per 100. Mammoth Pekin Ducks. Also a few high-scoring Hamburg cockerels for sale. Circular giving score and full description free. Mrs. Walter Rosewurm, Route 2, Council Grove, Kans.

WHITE WYANDOTTES—15 choice, pure-white cockerels cheap. F. H. Sutton, Minneapolis, Kans.

WHITE WYANDOTTES—50 choice cockerels for sale. Prices reasonable. Eggs, \$1 for 15. S. W. Artz, Larned, Kans.

A LIMITED NUMBER OF CHOICE WHITE Wyandottes cockerels for sale, at \$1 each. Mrs. C. E. Williams, Irving, Kans.

M. B. TURKEYS—Young toms and pullets; large-boned, healthy stock. Call and see them, or write for description and prices. J. E. Miller, Pawnee Rock, Barton County, Kans.

FOR SALE—Barred and White Plymouth Rocks. Now is the time to secure your breeding stock. Won all first premiums and sweepstakes at Ottawa Fair, September 1904. Choice cockerels and pullets and eggs in season. Mr. & Mrs. Chris. Bearman, Ottawa, Kans.

FOR SALE—Two male Scotch Collies, nearly full grown. Eligible to registry, strong in the blood of Metchley Wonder. Price, \$10 each. Geo. W. Maffet, Lawrence, Kans.

SINGLE COMB RHODE ISLAND COCKERELS \$2.50 to \$5 each. H. C. Staley, breeder, Rose Hill, Butler County, Kans.

FOR SALE—Silver Wyandottes, choice hens and pullets, score 90 or more. Eggs \$1 for 15. Orders booked. Address W. C. Koenig, First National Bank Building, Nortonville, Kans.

CHOICE B. P. Rock cockerels and pullets—Collie pups; send for circular. W. B. Williams, Stella, Neb.

S. C. BROWN LEGHORNS—Only a few choice cockerels left. First come, first served. Prices reasonable. Stock guaranteed to be pure-bred. J. A. Kauffman, Abilene, Kans.

TO GIVE AWAY—50 Buff Orpingtons and 50 Buff Leghorns to Shawnee county farmers. Will buy the chicks and eggs. Write me. W. H. Maxwell, 921 Topeka Ave., Topeka, Kans.

SCOTCH COLLIE PUPS—Four more litters of these high-bred Collies, from 1 to 3 weeks old, for sale. Booking orders now. Walnut Grove Farm H. D. Nutting, Prop., Emporia, Kans.

356 TO 278 EGGS A YEAR EACH. Our Barred Rocks bred for business. Profits doubled by new methods in breeding, hatching, and feeding. Instructional catalog free. F. Grundy, Morrisonville, Ill.

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White ones, pure-bred, and good layers. Eggs in season.

ALVIN LONG, Lyons, Kans.

"PARTRIDGE COCHINS"

A few extra nice cockerels for sale. Pure-bred, and only \$1 each. R. J. CONNEWAY, Elk City, Kansas

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40 BREEDS Fine, pure-bred chickens, ducks, geese and turkeys. Northern raised, hardy and very beautiful. Largest poultry farm in the Northwest. Fowls, eggs and incubator at low prices. Send 4c for fine 70-page poultry book and catalogue. R. F. NEUBERT, Box 894, Mankato, Minn.

PRESERVE YOUR EGGS.

Highest known market prices will be paid this season, inevitable; scarcity, great demands; preserve yours with my Reliable Egg Preserving Method. Keeps eggs fresh indefinitely, prevents staleness and spoiling; peerless, indispensable, economical, guaranteed. Price \$1. Order now. Send stamp for further particulars. Address,

W. L. JOHNSON, Dept. N, Clarksville, Tenn.

BARRED ROCKS AND COCHINS

Bred for winter laying as well as beauty. My 1st 1904 pullets laid first egg at 4 months and 18 days old. They lay much earlier than most strains and lay in winter when most strains are idle. World's fair winners. Send for beautiful catalog with photos of prize winners, etc. Sharpest and best gilt, 50c. per 100 pounds; \$1 per 500 pounds. Agent for CYPHERS INCUBATORS.

O. E. SKINNER, Columbus, Kansas.

ACME BARRED ROCKS

Always invincible. Won in all classes and championship at Kansas State Poultry Show in 1904, with scores from 92% to 94 on individuals and 188% for pen. Also championship at Kansas Agricultural College Show, the classic of the west. Championship and grand medal at the Kansas City show. Five yards specially mated. Choice cockerels and pullets for sale. Also eggs in season.

JAMES R. YOUNG, Manhattan, Kans
The Barred Rock Specialist.

White Plymouth Rocks
EXCLUSIVELY.

Good for eggs, good to eat, and good to look at

W. P. Rocks hold the record for egg-laying over every other variety of fowls: eight pullets averaging 289 eggs each in one year. I have bred them exclusively for twelve years and have them scoring 94 to 96%, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay expressage to any express office in the United States. Yards at residence, adjoining Washburn College. Address

THOMAS OWEN, Sta. B, Topeka, Kans.

The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Standard Black Langshans.

EDITOR KANSAS FARMER:—Would you please print in your next paper (if practicable) the score-card standard for the Black Langshan breed of chickens?

F. G. FULTON.

Morris County.

Answer.—The Standard of Perfection is a copyrighted work and this notice is printed on its first page:

"To whom it may concern: The publishing of any portion of this Standard by any newspaper, periodical, magazine, circular, book, or any other publication whatsoever, will be prosecuted to the extent of the law." Hence, to accede to the request of our correspondent would subject us to a fine of several dollars or a term in the penitentiary, and as we have none of the former the only alternative for us would be the latter. But we will give him a few points about the Black Langshan, out of our own noddle.

It is a large, feathered-leg, black fowl of Chinese extraction. The standard weights are, cock, 9½ pounds, cockerel, 8 pounds, hen 7 pounds, pullet 6 pounds. For every pound they are deficient in weight 2 points are extracted from their score. The color of the plumage should be a glossy, metallic black. One prime characteristic of the true Langshan is that the web and bottom of the feet are pink, if they should be yellow, the bird would be disqualified. The comb is single and should be rather large and perfectly straight and upright.

Every person raising thoroughbred poultry should own a Standard of Perfection. A new one is soon to be issued, which will be illustrated with cuts of all the standard breeds. Its price will be \$1.50. The publishers of the KANSAS FARMER can procure it for you.

The Scarcity of Fresh Eggs.

In a daily paper, under a Leavenworth date line of February 10, we find the following:

"Those who are suffering most at the present time because of the high price of eggs are commission merchants who took contracts in the summer to provide eggs for the public institutions around Leavenworth at 20 cents per dozen. One man who has such a contract recently offered as high as 45 cents a dozen for fresh eggs, but could not get half enough.

"The man who enjoys his sherry and egg may have to forego the pleasure of such, if eggs do not get cheaper. Furthermore, restaurant and hotel keepers may have to raise the price on fried eggs or scratch such from their bills of fare altogether.

"Report has it that all of the cold-storage eggs are gone, for which some people will give thanks, and that the only source of supply now for the city people is the helpful hen of the country adjacent to Leavenworth. But farmers have a hard time getting together enough eggs to supply their own tables and few of them care to sell them at any price.

"However, it is said the hens will commence laying again as soon as the weather becomes warmer and February, always the 'bad egg' month, will have to give way to March, with plenty of hen fruit in sight and cheaper prices for the same.

"A reporter made inquiries concerning the supply of eggs at a number of down-town groceries yesterday. The prices quoted on eggs were the same in every instance, 35 cents per dozen for packed eggs and 40 cents for the fresh product. At that, it is doubtful whether all the eggs retailed as fresh are strictly so."

We quote the above so as to emphasize what we may have to say about the desirability of farmers catering more to the egg trade than they now do. What product of the farm pays the farmer like eggs at 40 cents per dozen? Not one. Then why not pay more attention to this profitable phase

Proper Care and Feeding of Poultry.

The above is the title of an entirely new book, just from the press, which covers the entire subject of raising all classes of poultry. A compact little manual of 32 pages, written by an expert poultry-raiser, treating of the starting of the young of all fowl, their wants, habits, common diseases, treatment, feeding of all ages and all classes of fowls, etc. No other work ever written gives so much and such reliable information in so small a space. As a special offer and for a limited time this invaluable little work will be sent, together with one year's subscription to a 50 cent first class poultry paper, for twenty-five cents. You may not see this offer again. Take advantage of it now. Address, J. S. Gilcrest, Dept. 3, Des Moines, Iowa.

of farm life? It is true, that one can not obtain 40 cents per dozen for eggs every winter, but there is no winter when he can not get a good round price for them, and in exceptional years, like the present, can obtain an extraordinarily good price. On February 14 a farmer told us he brought several dozen eggs to the Topeka markets and received 45 cents per dozen for them. There ought to be many more like him.

As we have repeatedly stated in these columns, the way to get eggs in winter is to have good, warm houses and give the fowls proper feed and care. The houses need not be expensive at all; indeed, they can often be made with materials right on the farm. Make a frame-work of posts and poles and cover the same with straw or fodder of any kind. A few openings of glass in the south side and a door in the end of the building is all that is necessary. In such a house, when fed properly, hens will lay all winter. The cheap portions of lean meat or the liver and lights of sheep, hogs, or cattle make the best food for eggs, especially if it is cooked and made into a mess composed of a variety of food. A very cheap and nutritious mess can be made by cooking a few pounds of lean meat in pieces, adding a few small potatoes or turnips, as well as a quantity of finely cut alfalfa. The ground grain should be equal parts of corn-meal and bran, stirred in until the mess is thick. This should be fed once a day and is a complete food. Feed this mash sometimes in the morning, then change the time of feeding till the last thing at night. Some claim that a hen when she comes off the roost in the morning, has an empty crop and needs something that is easily digestible to fill it pretty quick. Others claim that if you give the mash early in the morning, the hen becomes sluggish and mopes around, and that you should give only grain in the morning and that scattered among straw so that she must scratch for it, and thus become warm and active. By changing the time of feeding the mash, you will avoid the two extremes and be more apt to get larger quantities of eggs than by persistently sticking to one method. Hens like a change and variety of food and a variation in feeding them will also be beneficial.

Many a farmer and raiser of fowls for market might increase his revenues by establishing a special trade in eggs and extra fine meat. This can be done by attending strictly to the gathering of the eggs and the marking of each one with a rubber stamp—bearing name and date of laying in plain manner. The fowls sold as meat should be dressed and packed with care, observing neatness in every detail. A trade of this sort once established will yield a steady income, for hosts of private families are willing to pay above the market price for reliable eggs and table fowls. Eggs should

POULTRY BREEDERS' DIRECTORY



NATURAL HEN INCUBATOR

The only one that's different. Uses the hen all through the hatch. Nature's own way. Avoid high prices. 200 Egg Hatcher costs but \$3. Agents wanted. Catalog with 250 line formula free. Natural Hen Incub. Co., 93 Columbus, Neb.



YOU WILL TRANSFORM all fertile

eggs into strong, healthy chicks by using the TRIUMPH INCUBATORS. It is thoroughly tested, built by an experienced poultry breeder, very durable, copper tanks, double walls, automatic regulator, etc. 30 days trial. 40 broods northern raised, fine poultry. Prices low. Large catalog free. R. F. NEUBERT, Box 894, MANKATO, MINN.



*12.80 For 200 Eggs

INCUBATOR

Perfect in construction and action. Hatches every fertile egg. Write for catalog today. GEO. H. STAHL, Quincy, Ill.



HAWKEYE SPECIAL

INCUBATOR

100-Egg Capacity TRIAL GIVEN FREE

WRITE for details of our free trial offer. Hawkeye Instruction Book Free with machine. Hawkeye Incubator Co., Box 34, Newton, Iowa.

9

Don't even think of buying an incubator and brooder without first sending for our catalogue. It tells of nine new

INCUBATOR AND BROODER

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which no other machines possess. They are fully explained by words and pictures in this free catalog. Send for it today.

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CYPHERS

INCUBATORS

are guaranteed to hatch more and healthier chicks than any other or your money back. Used and endorsed by 42 Government Experiment Stations. Complete catalog and poultry guide, 214 pages (8x11) free if you send the address of two neighbors who keep good poultry and name this paper. Address nearest office.

CYPHERS INCUBATOR CO., Buffalo, N. Y. Boston, Chicago, New York, Kansas City or San Francisco.



The Victor

BOOK

tells how to make money—how to raise young chicks for early spring markets when prices are high. How to make a profit on ducks. How to feed for heavy fowls. How to make hens lay. Why not get an adequate return from poultry? Why not try modern methods this year?

Why not learn about incubators and brooders from a firm who have been in business since 1867, and who know how to make satisfactory machines? Write us for the book today. It is free.

GEO. ERTEL CO., Quincy, Ill.



No Guessing

You know in advance what will come if the eggs are fertile when you use the self-regulating

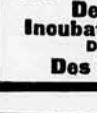


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Incubators and Brooders

The machines for busy people and the inexperienced because they run themselves. That's the unqualified experience of thousands. The same under all conditions. 100 pens standard fowls. Incubator, poultry and poultry supply catalog FREE. Poultry paper one year ten cents.

Des Moines Incubator Company, Dept. 83, Des Moines, Ia.



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TRUSTY

In First Rank the First Year.

Incubator Johnson's 12 years making 50,000 other incubators put it there.

40 DAYS TRIAL.

5 YR. GUARANTEE.

The Incubator Man has new patents. He'll tell you in a personal letter what "Old Trusty" is. His big Catalog and Advice Book handles poultry raising in a practical way. And it shows what Johnson has done to high incubator prices. Ask for it. It's Free.

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Incubator Book

The Best That Was Ever Written.

A man who has devoted 23 years to perfecting incubators has written a book. It tells all that he learned by hundreds of tests with different incubators in his hatchery. It tells in a fascinating way just the facts you should know before buying. We send the book free because the man who writes it is the man who has made the Racine Incubators and Brooders. He shows them as they are today, and tells why you should have one. No one can read this book without wanting this man's machine. Write today. We Pay the Freight.

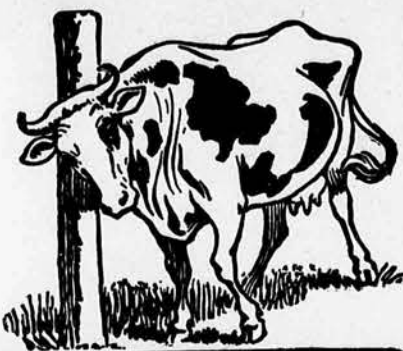
Racine Hatcher Co., Box 88, Racine, Wis.

We have Warehouses at Buffalo, N. Y.—Kansas City Mo. and St. Paul, Minn.

POULTRY PAYS

When you have good stock. Eggs for Hatching, extra fine Barred and White Plymouth Rocks, S. C. White Leghorns at a special low price. Sixteen years a breeder of Fancy Birds. Write for free Art Folder of the largest

Fancy Poultry Farm in this country. J. C. Heath's Imperial Poultry Farm, Valley Junction, Ia. Dept. B.



The Louse Question

When your animals rub incessantly at this season of the year, look out for lice. This is especially true of calves and colts. To meet this condition Dr. Hess (M.D., D.V.S.) formulated the famous Instant Louse Killer, which kills lice on stock and poultry.

INSTANT LOUSE KILLER

kills ticks on sheep. It, being a powder, can be applied in zero weather. Do not wait for warm weather; do not let the tick eat up your profits; kill him on the spot with Instant Louse Killer. Put up in round cans with perforated top, full pound 25 cts. Sold on a positive written guarantee. Be sure of the word "Instant" on the can; there are 25 imitations.

1 lb. 25c { Except in Canada and extreme West and South.
3 lbs. 60c {

If your dealer cannot supply you we will forward 1 lb. by mail or express, prepaid, for 35 cents.

Manufactured by
DR. HESS & CLARK
Ashland, Ohio.

A LIMITED NUMBER OF CHOICE WHITE Wyandotte cockerels for sale, at \$1 each. Mrs. C. E. Williams, Irving, Kans.

WHITE PLYMOUTH ROCKS Exclusively. Two grand pens scored stock. Eggs from my best matings, \$1.50 per 15; \$2.50 per 30. Incubator eggs, \$5 per 100. J. C. Bostwick, Route 2, Hoyt, Kans.

"A Nine Times Winner"

Bates Pedigreed Strain of White Plymouth Rocks have been shown in nine poultry shows the past two years and

Won in Every One of Them. If they win for us, their offspring ought to win for you. Eggs, \$1.50 per 15. Elmwood strain of White Wyandottes also hold their own in the show-room. Eggs, \$1 per 15.

W. L. BATES, Topeka, Ks.

Our Belle City INCUBATOR

is the newest incubator. It misses all the weak points in incubation and hits all the good ones. It is so made that you can't make a mistake. Light the lamp—put in the eggs—the regulator does the rest. Double walls and dead air space all around. Big nursery—copper tank. The double walled brooder raises every chick. "Our book tells all about them. Write for it. Mailed free. We pay the freight."

Belle City Incubator Co., Box 18, Racine, Wis.

Get One Hatch Free
Don't buy an incubator until you first try a
Prices Right.
Royal
30 Days Free.

It is the best hatcher in the world. If you don't like it send it back. Incubator, poultry and poultry supply catalog free. Poultry paper one year 10 cents. Write now.

ROYAL INC. CO.,
Drawer 66, Des Moines, Iowa.



DUFF'S POULTRY

All our Fine Breeders of this season, also Spring Chicks for sale after the first of June. Barred Rocks, White Rocks, Buff Cochins, Partridge Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, Silver Spangled Hamburgs, Black Minorcas, S. C. Brown Leghorns, and Belgian Hares. Buy the best now at the lowest prices. Write your wants. Circulars free. Choice Breeders and Show Birds.

A. H. DUFF, Larned, Kan.

be gathered daily and stored in a dry place. Fifty degrees is a safe temperature. Eggs intended for hatching should be gently turned once a day. Egg-cases holding two or more dozen are handy for this purpose. It repays the farmer to properly care for the eggs and not permit them to remain longer than a day in the nest. Under a Chicago date line of February 11 we find the following, which tells its own moral:

"It is estimated that there are 45,000,000 eggs in cold storage in Chicago. Notwithstanding this, a famine in that product exists and householders are paying 38 cents a dozen. The big meat packers are said to have a corner on the market. Last spring, when eggs were cheap, the meat packers and a few heavy dealers secured hundreds of thousands of cases of eggs which were put away for a time when, owing to natural conditions, the market supply of fresh eggs would be unequal to the demand. The eggs were bought at a price ranging from 15 to 17½ cents a dozen."

Poultry Notes.

In buying poultry to breed from, with the intention of raising choice birds to compete with your neighbors, either for eggs, flesh, or the show-room, secure your fowls from men who can not afford to injure their reputation by selling poor stock.

There are many considerations to be thought of and decided upon when you intend to keep fowls for market and for egg-laying. Those that are prolific, and will put on fat kindly and make good eating when slaughtered, are the kind you want.

The French Department of Agriculture reports that the income derived by the people of France from the rearing of fowls is over \$100,000,000, exclusive of all meat and eggs sold direct to consumers from the yards or used by the breeders themselves. This is simply the returns through the regular market channels.

Fence Facts.

A good fence is an investment. Any other kind is an aggravation, an expense and an eye sore.

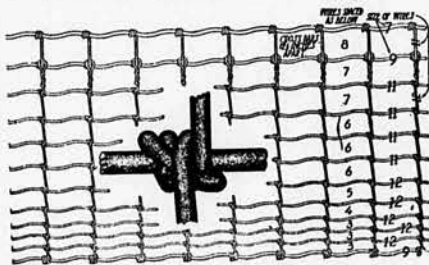
It is your intention to buy a good fence when you buy any. No man ever sets out to buy an inferior fence, knowingly, yet some have been induced by considerations of price to take a fence that has proven more costly and less satisfactory in the end. The good fence is the cheapest fence, in the long run.

The only fence now in existence that has been in use for 19 years is Page Fence, manufactured by the Page Woven Wire Fence Co., Adrian, Mich.

This is a case of the "survival of the fittest," for Page Fence has been made on honor from the first and is easily the highest quality fence.

United States Government contracts for fence specify "Page Fence quality." This makes Page Fence the Government standard for quality.

One of the reasons for the supremacy of Page Fence is that every horizontal wire in all Page Fences is double strength, high carbon, open-hearth, spring steel wire, with, at least, double the tensile strength of common fence wire of the same size.



Page Fences are springy. It has happened hundreds of times that falling trees have crushed Page Fence into the ground and on removing the tree the fence has returned to position without injury. This is the work of Page spring steel wire with its wonderful, permanent lengthwise coil.

Just to show you what Page spring wire is, the Page Woven Wire Fence Co., Adrian, Mich., will send free to any of our readers who expect to buy fence at any time, a thoroughly practical paring knife made from this wire. They do this as a practical illustration of what Page wire is, and with it they send a new Page Fence catalogue describing all the styles for different farm, stock, poultry, lawn and park purposes, and the characteristics of Page Fence that make it superior to ordinary wire fencing.

It is expected that our readers will write for this free knife and catalogue, and upon arrival, it is requested that attention be given to the matter on pages 18, 19, and 20 of the book, which gives in concentrated form the real reasons why Page Fence is entitled to consideration; why it is more enduring, more resilient, better constructed and worthy of a better price than inferior fence that is made to sell.

To insure getting the knife, mention this publication when you write.

Challenge

That name stands for the best of everything which has to do with securing and applying power from the wind. The Dandy Wind Mill here shown is our leader. We don't hesitate to claim that it is the strongest, most sensitive, most durable and most efficient wind mill made. Extra heavy castings, extra long steel shafts, extra long bearings and extra heavy gears help to make it so. Then there are the extra broad, end crimped fans with just the right set and gather to make the best use of the wind. These are doubly riveted and bracketed to two cross bands of steel, making a wheel that cannot warp or buckle in any wind. With all, it is the most simple, easy to handle wheel made. No annoyance, no repairs. Send today for illustrated circulars, showing our entire Challenge Line. The Challenge Gasoline Engines are most economical and efficient.

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No. 629½. Combination buggy on bike gear with extra stick seat and ¾ inch rubber tires. Price complete \$10. As good as sells for \$30 more.

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but ship anywhere for examination and approval, guaranteeing safe delivery. You are out nothing if not satisfied as to style, quality and price. We make 200 styles of vehicles and 65 styles of harness.



No. 304½. Canopy Top Surrey. Price complete \$88. As good as sells for \$30 more.

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Elkhart Carriage & Harness Mfg. Co., Elkhart, Indiana.



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During March and April tickets will be sold to Los Angeles, San Francisco, Portland, Seattle, Tacoma, and other points in California and the Northwest.

Through tourist car service at slight additional cost. Free chair cars all the way and only 3 nights out to above points.

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POULTRY FEEDING AND FATTENING

A handbook for poultry keepers on the standard and improved methods of feeding and marketing all kinds of poultry.

The subject of feeding and fattening poultry is prepared largely from the side of the best practice and experience here and abroad, although the underlying science of feeding is explained as fully as needful. The subject covers all branches, including chickens, broilers, capons, turkeys and waterfowl; how to feed under various conditions and for different purposes. The whole subject of capons and caponizing is treated in detail. A great mass of practical information and experience not readily obtainable elsewhere is given, with full and explicit directions for fattening and preparing for market. The broad scope of the book is shown in the following

TABLE OF CONTENTS

Thrifty Growth, Expert Chicken Feeding, Broiler Raising, Nutrition for Layers, Special Foods, To Finish and Dress Capons, The Art of Poultry Fattening, Lessons from Foreign Experts, American Fattening Methods, At Killing Time, Preparing for Market, Marketing Turkeys and Waterfowl, Finish and Shaping.
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DR. C. M. COE, 915-B Walnut St., Kansas City, Mo.

Annual Sale of the Wheat Belt Improved Stock-Breeders' Association.

(Continued from page 207.)

one of the large contributors and received some very complimentary prices for his stock.

Duroc-Jerseys were contributed by R. K. Akers, South Haven, Kans., and M. O. Ruthrauff & Son, also of South Haven. Mr. Ruthrauff & Son topped the sale with a beautiful gilt sired by Corrector 25781, Dam Rose 3d 46938. This gilt was sold to R. F. Ingraham, Caldwell, for \$40. The average for the Poland-Chinas was \$24; Duroc-Jerseys, \$27.10.

The members of the association met on the evening of the 17th and elected the following officers: President, P. D. Van Cleave, Braman, Okla.; vice-president, J. P. Corneliuss, Braman, Okla.; secretary and treasurer, C. M. Johnston, Caldwell, Kans.; board of directors, J. E. Knox, Nardin, Okla.; J. R. Roberts, Deer Creek, Okla.; S. M. Croft, Anthony, Kans.; J. F. Corneliuss, Braman, Okla.; C. M. Johnston, Caldwell, was unanimously re-elected sales manager. Dates were set for the third annual sale to be held February 14, 15, 16, 1906, at Caldwell.

Purchasers of Shorthorns were: P. Wyckoff, Corbin; Daniel Grove, Caldwell; Joe Calk, Hunter, Okla.; Henry Metzinger, Caldwell; W. R. Stout, Waketa, Okla.; J. H. Atkinson, Caldwell; A. Richardson, Jefferson, Okla.; Daniel Love, Caldwell; T. J. Duggan, Corbin; J. N. Hill, Caldwell; M. F. Rains, Caldwell; S. G. Proctor, Lamont, Okla.; D. Cooper, Freeport; Z. Cooper, Caldwell; T. W. Putzman, Wellington; P. M. Drake, Caldwell; O. S. Rusher, Caldwell; Thos. J. Kent, Pond Creek, Okla.; R. W. Swain, Caldwell; W. R. Hammett, Caldwell; C. T. Lang, Pond Creek, Okla.; D. F. Mossman, Caldwell; John Baxter, Nardin, Okla.; Conrad Roath, Caldwell; H. Berline, Caldwell; Chas. Carnell, Nardin, Okla.; C. T. Webber, Caldwell; A. D. Grimm, Caldwell; Jas. Balaban, Blackstone, Okla.; A. R. Squires, Deer Creek, Okla.; S. W. Huett, Deer Creek, Okla.

The buyers of Herefords were E. S. Forsythe, Nardin, Okla.; John Bobek, Caldwell; E. L. Berry, Lambert, Okla.; J. H. Stonehocker, Caldwell; S. T. Tuttle, Caldwell; J. A. Butcher, Caldwell; C. M. Johnston, Caldwell; W. O. Proctor, Braman, Okla.; B. T. Rurick, Jefferson, Okla.; J. E. Oathout, Caldwell; E. W. Ames, Caldwell; Josiah Lockhart, Nardin, Okla.; C. T. Davis, Caldwell; Anton Hanzlick, Renfrow, Okla.; Geo. Miller, Bluff City; J. T. Allen, Gage, Okla.; C. E. Williams, Caldwell; Albert Subera, Caldwell; S. Miller, Bluff City; J. J. Fancher, Caldwell.

Galloway cattle were sold to P. Wyckoff; Jas. Worley, Pond Creek, Okla.; John Falkenberg, Caldwell.

The buyers of Poland-Chinas were: J. S. Butcher, Caldwell; Tom Parker, Caldwell; T. L. Scott, Caldwell; Ed Garver, Caldwell; H. A. Garver, Caldwell; J. C. Stoube, Caldwell; L. P. Patton, Caldwell; S. F. Neiswender, Caldwell; E. M. Fisk, Caldwell; C. W. Vandervort, Caldwell; John Atkinson, J. A. Rurick, Corbin; F. W. Baum, Caldwell; A. W. Baker, Caldwell; J. T. Neal, Caldwell; T. J. Roberts, Mayfield; Jas. McKittick, Corbin; A. H. Brown, Caldwell; J. B. Hummel, Wellington; S. B. Adams, Braman, Okla.; T. J. Dugan, Corbin; A. E. Dally, Wellington; A. W. Bertling, Deer Creek, Okla.; G. W. Craven, South Haven; F. H. Manning, Caldwell; L. Lambdin, Caldwell; C. E. Moore, Caldwell; E. G. Williams, Caldwell; L. B. Martin, Belle Plaine; A. A. Hafer, Blackwell, Okla.; L. E. Wooderson, Caldwell; A. H. Brown.

Duroc-Jersey purchasers were: R. F. Ingraham, Caldwell; M. M. Harvey, Corbin; David Hortin, Caldwell; C. W. Vandewert, Perth.

Ohio Improved Chester White purchasers were: G. M. Stoner, Corbin; J. N. Shade, Caldwell; J. W. Moore, Caldwell.

Percherons That Pay.

Speaking of profitable investments in good stock, the Agricultural College of Oklahoma has good example of what can be done with moderate amount of money under normal conditions. Four years ago they purchased a pair of pure-bred Percheron mares. One was a medium size mare of good breeding from the Avery stock and the other was supplied from the Robison herd; these mares have been in almost constant use at regular farm work since they were purchased by the college and in the three years that they have had them, have produced five colts, three stallions and two fillies. Draft-horse men who are considered competent judges and are in close touch with the demand for this class of stock are the authority for the statement that this little herd which represents an original expenditure of only \$560, has a selling value to-day of at least \$4,000. Good stock with good care at an agricultural college is not only a good example for the students, but it may be a good investment as well. And what is more in this case this team performed as much work as would be required of the average farm team and with the less favorable condition of being under the care of a number of teamsters. We think there is enough good news in this experiment to justify the Oklahoma institution in publishing a bulletin on Percheron horses.

Spriggs' Blue Ribbon Sale Postponed.

Mr. S. A. Spriggs, Westphalia, Kans., has decided to postpone his blue-ribbon sale of Percheron stallions and mares, Coach and saddle stallions and Black Mammoth jacks and jennets from Wednesday, February 15, to Monday, February 27, 1905. Mr. Spriggs has the best offering for this sale that he has ever made in his long experience as a breeder. The offering will include the show herd with which Mr. Spriggs made his winnings at the Missouri and Kansas State fairs as well as at many other fairs. He will also include several American Royal winners in this offering.

Mr. Spriggs' stallions sold at former sales have given satisfaction to the purchasers and his offering this year is better than ever before. One of his young Percheron stallions sold in last year's sale was bought by Mr. J. M. McConnell, of Shawnee County, who is better pleased with him than any Percheron horse he has owned in the last thirty years.

One of the strong features of this sale lies in the quality of the Percheron mares

to be sold. No one can estimate the amount of good that can be done for a neighborhood by a good stallion, but good mares are equally necessary. Among those to be sold at Keota Luciana 21704 and Keota Stripe 21711, who won first and second prizes respectively at the American Royal; Bernice 18851, who won second prize at the Missouri State Fair and was only beaten by the mare who later won first prize at St. Louis. Bernice is the dam of Bijou, the 1,400-pound yearling stallion that won second prize at Missouri State Fair and whose sire, Casino, was first in class and reserved grand champion at St. Louis. There are many other good Percherons in the Spriggs' catalogue. There are also a lot of mighty good Mammoth jacks and jennets. This herd is headed by King Jumbo, who stands 16 hands high and weighs 1,200 pounds in service and who is undoubtedly one of the best Mammoth jacks in America to-day. All of the jennets in this sale are bred to King Jumbo. This great jack was grand champion at the Missouri State Fair in 1904, showing in a State that has long been famous for the best jacks and mules in the world. This will be a great sale and catalogues may be had by writing for them. Remember the date is Monday, February 27, 1905, and the place is Westphalia, Kans.

Cottingham & Son's Horse and Hog Sale.

W. H. Cottingham & Sons' ninth annual public stock sale was held at McPherson, Kans., February 15 and 16. This year they sold horses and Poland-China hogs. The sale was held in their private sale-barn at their ranch one mile south of the city. The offering of horses consisted of drafters and drivers. Forty-one head, including a number of colts averaged \$108 and twenty-one broken horses averaged \$140. A number of head were bought by shippers for Eastern markets.

The second day was "hog day." The crowd was not as large as at the horse sale. The offering of bred sows was a good one and everything in excellent shape—in fact, Mr. W. H. Cottingham said, "This is the best stuff and in the best condition of anything we ever offered." No. 2 in the catalogue, My Queen 203414, topped the sale at \$40 and went into that well-known herd of M. O. Kilmer's, McPherson, Kans. The bred sows and gilts averaged about \$20.64, and the entire offering of 53 head, including several small gilts and 5 boars, averaged a little over \$15 each. Taken altogether it was a very good sale and Messrs. Cottingham are to be congratulated for its success. Colonels Sheets of Fredonia, Potter of Sterling, and Seward of McPherson, did the selling in a highly satisfactory manner. The principal buyers were: M. O. Kilmer, McPherson; Geo. Hess, Lyons; J. W. Myers, Galva; C. G. Proffit, Chase; H. A. Lundbeck, J. N. Sheldon, Ray Jones, O. K. Chapin, Chas. Hulse, E. E. Strohm, and E. A. Eastham, of McPherson.

Spangler's Percheron Sale Postponed.

On account of the disastrous storms over the country in general for the past few days, blockading railroads, delaying trains and making the public roads impassable, it was impossible to hold the sale on February 15 as previously advertised. Therefore the sale is postponed and set for Wednesday, March 1, to be held at same place, Milan, Mo. Our 700 catalogues are nearly exhausted, but we will supply parties with same by request as long as they last. Don't delay, but write to-day. Remember the date now fixed on March 1, 1905.

On account of midday trains arriving at Milan, sale will commence at 2 p. m.

The Best of Fourteen.

"I advertise in fourteen papers and the Kansas Farmer brings more inquires than any other."—R. F. Norton, breeder of Duroc-Jersey hogs, Clay Center, Kans. This explains Mr. Norton's statement in the stock gossip this week.

STOCK TONIC AND PROFIT.

A Stock Tonic that Will Feed Fifteen Steers Thirty Days for Seventy-five Cents.

The wisdom of feeding a stock tonic at all times of year, especially during the season when stock can not be on pasture, has been endorsed by leading medical writers and veterinarians everywhere.

The value of bitter tonics for improving the appetite and increasing the flow of juices necessary to assimilation, as well as laxatives for stock on dry feed, is well known. Less known but nevertheless valuable are salts of iron, which act as a tonic, and aid in making rich, red blood, while nitrates of sodium and potassium assist in the elimination of poisonous waste material.

The food which contains all the above mentioned medicinal properties as well as others in proper combination, is Dr. Hess Stock Food, endorsed by leading medical colleges and numberless farm and stock papers. Not the least interesting information concerning this celebrated food tonic is the cost. It only takes seventy-five cents worth of Dr. Hess Stock Food to feed fifteen steers thirty days, feeding twice a day as directed, two tablespoonfuls at a feed. Compared to the extra cost of feeding Dr. Hess Stock Food, the gain is many times greater, as the food certainly does increase growth and milk production, and also prevents many forms of disease by keeping stock healthy.

Dr. Hess Stock Food is probably the best of food tonics because it is from the prescription of a veterinarian and M. D., and is prepared by Dr. Hess & Clark, Ashland, Ohio. This food tonic produces natural hunger—an evidence of good digestion and assimilation. Where this particular food tonic has been thoroughly tested it has been demonstrated to be of exceeding value in not only keeping the animal fed in a healthy condition, but aids in the proper assimilation of all rations fed, making it a valuable adjunct to feeding for any purpose.

The manufacturers give a written guarantee and agree to refund money if it does not increase flesh and milk produc-

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St. Jacobs Oil

The old monk cure, strong, straight, sure, tackles

Hurts, Sprains, Bruises

The muscles flex, the kinks untwist, the soreness dies out. Price 25c. and 50c.

tion sufficient to cover the cost of the food many times over.

This paper is also back of the guarantee, and will see that the same is enforced.

If you can not buy this Stock Food in your own town and would like to try 100 pounds at \$5, write to Dr. Hess & Clark, Ashland, Ohio, who will be glad to give further information about their stock tonic or the care of the herd.

Gossip About Stock.

D. C. Van Nice, Richland, Kans., in a recent letter reported the sale of the young Polled-Durham bull to H. E. Hostetler, Conway, Kans.

We call our readers attention to the advertisement of J. R. Roberts, proprietor of the Dirgo Breeding Farm, Deer Creek, Okla. Mr. Roberts has some of the best Poland-Chinas to be found in the Southwest. Buyers should watch Mr. Roberts' advertisements for good bargains.

Those wanting bred gilts or sows from Orchard Hill Herd will have to hurry for they are going fast. Even this stormy weather doesn't seem to stop buyers. I never had such sales before. Just sold at a good price a Fancy Wonder gilt to Morris Bond, Rossville, Kans., and I venture the guess he would not take twice the amount paid for her when he has seen her.—R. F. Norton, Clay Center, Kans.

C. F. Hutchinson & Son, Bellaire, Kans., who are well-known breeders of Poland-China swine and Standard-bred horses, have now added Percheron horses in accordance with the wise suggestion of Madame Hutchinson, and have recently purchased a number of mares and stallions of E. F. Kleinmeyer, of Wilton Junction, Iowa, with ten head of horses, won twenty-four prizes at the World's Fair. This purchase gives Mr. Hutchinson the foundation for a great horse-breeding establishment in Northern Kansas.

We call special attention of our readers to the advertisement of the Wheatland Farm Herd of Duroc-Jerseys, owned by George W. Wiley & Son, South Haven, Kans. This noted herd are descendants from the well-known herd boar, Nathan 6397, which headed the herd of W. L. Addey, of Parnell, Mo., and was sold by him to Chas. Herman, of Lincoln, Neb., for \$150, his weight being 1,030 pounds. The grandam to Mr. Wiley & Son's herd boar, Nathan 6397, sold at W. H. Taylor's sale at Lincoln, Neb., in February, 1902, for \$165. Parties wanting a good herd boar or Durocs of any kind should not neglect to write Messrs. Wiley & Son.

A Shorthorn event extraordinary is the twenty-first annual sale of Elmwood Herd Shorthorns to be held as advertised by F. M. Gifford, Manhattan, Kans., on March 14, 1905. It is simply a top-notch offering of well-selected Shorthorn cattle such as is seldom offered by a single breeder at an annual sale. So well selected are the cattle that the offering is mainly show animals, all suitable for herd conditions. However, the great attraction of the sale is the handsome array of 16 bulls, the best bunch, in the opinion of the writer, that will be offered at any Shorthorn sale in the West this year. At least a dozen are suitable herd-headers or show animals for the best pure-bred herds in the country. Every animal is mainly Scotch blood upon the best American foundation as the catalogue shows. Next week some interesting facts concerning the blood lines represented in the offering will be given.

Kansas has made a great reputation as the home of draft-horses. It has been found that she is equally interested in the coach classes as well, and our advertisers who are importers and breeders of both German and French Coach horses report a great revival of interest in these two breeds. One of the best-known importing horse companies that handle these classes of horses is J. Crouch & Son, Sedalia, Mo., and Lafayette, Ind., whose advertising card appears in this issue. Messrs. Crouch have been showing at all of the prominent Western State and other fairs where they have been uniformly successful in winning prizes. It is claimed that they now own, in Hannibal, the best coach-horse on this side of the water. They have established a large sale barn at Sedalia, Mo., for the accommodation of their Western trade. Sedalia is only three hours from Kansas City and is easily accessible to Kansas and Oklahoma buyers. Messrs. Crouch are now making especially attractive offers of both French and German Coach stallions and they will be glad to see farmers or others and to show them their large and attractive exhibit of horses now in their Sedalia barns. A correspondence is invited and it will pay to write them a letter to find just what they have to offer.

Hagerman Pass is one of the crowning glories of the Rocky Mountains. The Colorado Midland Railway has issued a magnificent steel engraving, 26 by 40 inches, showing a view of this pass. It is suitable for framing, and will be sent to any address on receipt of 15 cents, in stamps. Write C. H. Speers, G. P. A., Denver.

Wheatland Farm Herd Duroc-Jerseys

For Sale—At reasonable prices, some fine October pigs, male and female; also some tried sows, bred and open. Our yearling herd boar Nathan 6397, dam Lincoln Lass 827782, will also be sold. GEO. W. WILEY & SON, South Haven, Kans.

DIRGO BREEDING FARM

J. R. Roberts, Proprietor, Deer Creek, Okla. Breeder of Poland-Chinas of the leading strains. Stock of all kinds for sale at all times. Satisfaction guaranteed. Write us and we will tell you what we have.

EIGHT JACKS FOR SALE



Running from 14 to 15 hands, by standard measure, white points, 4 years old. Don't write, but come and see them.

JAMES M. OLIVE, Hame, Bates Co., Missouri

FOR SALE

Agricultural College Live Stock

Thirty head of imported and home-bred Shropshire ewes, 1 to 3 years old. Strong, healthy and safe in lamb. Also the Galloway herd bull, First King of Avondale 19420, calved April 9, 1900. Sire, King Hensol 9967, dam, Maid of Bellewood 12334. The Ayrshire bull, Marquis of Woodroffe 12945, calved September 27, 1900, sire, Glencairn of Maple Grove 6973. Three young Ayrshire bulls, one yearling Red Polled bull, one Jersey bull calf, and a few Ayrshire and Galloway cows. All in good condition, well bred and sold for no fault. Prices very reasonable. Visitors always welcome. Address,

PROF. R. J. KINZER,

Kansas State Agricultural College, Manhattan, Kans.

HAVE YOU A HORSE FOR SALE?

I can sell him no matter where you live. Do you want to buy? I have them in every state. Particulars for a stamp.

W. L. HUBBS, EASTON, PA.

Asthma

Cured to Stay Cured

Attacks stopped permanently. Cause removed. Breathing organs and nervous system restored. Symptoms never return. No medicines needed afterward. 21 years success treating Asthma and Hay Fever. 58,000 patients. Book L Free. Very interesting.

Write P. HAROLD HAYES, Buffalo, N. Y.

Learn About Pacific Northwest

Our new and handsomely illustrated 88-page book (with map) tells you about the leading industries in Oregon, Washington and Idaho, where the best of everything grows and where there are more openings for the man with small means or the man with thousands, than anywhere else in the Union. Four cents in postage will bring it to you. Write today.

A. L. CRAIG, GENERAL PASSENGER AGENT THE OREGON RAILROAD & NAVIGATION CO. PORTLAND, OREGON

Don't forget the Great Lewis & Clark Exposition, Portland, Oregon, June 1, to October 15, 1905

M. S. BARCOCK, NORFOLK, KANS.

DUROC-JERSEY SWINE.

D. M. TROTT ABILENE, KAS., famous Duroc-Jerseys, Poland-Chinas.

COUNTY SEAT HERD DUROC-JERSEY SWINE.
Geo. Briggs & Son, Clay Center, Neb.
Young stock for sale.

Registered Stock, DUROC-JERSEYS, contains breeders of the leading strains.
N. B. SAWYER, CHERRYVALE, KANSAS.

DUROC-JERSEYS—Large-boned and long-bodied kind. A fine lot of fall pigs (either sex) for sale. Prices reasonable.
E. S. COWEE, R. F. D. 2, Scranton, Kans.

MAPLE AVENUE HERD **J. U. HOWE,**
Wichita, Kansas
Farm two miles west of city on Maple Avenue
Duroc-Jerseys

FAIRVIEW HERD DUROC-JERSEYS
Now numbers 150; all head for our two sales, October 25, 1904, and January 31, 1905.
J. B. DAVIS, Fairview, Brown Co., Kans.

THE OLD RELIABLE KLONDYKE HERD.
For Sale—One April and four September males. Two June and eight Sept. gilts. Choice of 80 head. Prices right. Quality right. Write Bros., Whiting, Mo.

PEARL DUROC-JERSEY HERD.
Write **C. W. TAYLOR, Pearl, Dickinson Co., Kans.,** for prices on Duroc-Jersey hogs. He has them. Can ship on four roads, Rock Island, Union Pacific, Santa Fe and Missouri Pacific.

FOR SALE
Forty head of pedigreed Duroc-Jersey boars or bred gilts; weigh from 125 to 175 pounds; at farmers' prices, \$9 to \$12 each.
CHAS. DORR, Route 6, Osage City, Kans.

The Famous Fancy Herd DUROC JERSEY SWINE
A few gilts and 7 fine young boars for sale. Breed sow sale at Concordia, Feb. 21, 1905.
JNO. W. JONES & CO., R. F. D. 3, Delphos, Kan.

Some Fine August and September Pigs—Duroc-Jerseys
Either sex, as wanted. Price \$10 each. They are of good red color, good ear, back and feet; also some bred sows at low prices. All stock registered. Brood sows to farrow in March. Mr. & Mrs. Henry Shrader, Route 1, Wauweta, Kans.

DUROC-JERSEY BRED SOWS
Fifteen choice bred sows and gilts and two young male pigs for sale. Write for prices, breeding, etc.
R. F. NORTON, - Clay Center, Kans.

DUROC-JERSEY HOGS.
All stock registered. Pigs for sale weighing 150 to 200 pounds, both sexes. Will have sows for early farrowing at \$20 each. Spring males and gilts, \$10 to \$15. Address
Mr. & Mrs. Henry Shrader, Wauweta, Kans.

PLAINVILLE HERD DUROC-JERSEYS
For sale, an extra fine lot of young boars large enough for service. Bronze turkeys, Barred Plymouth Rocks and Brown Leghorn chickens for sale.
J. M. YOUNG, Plainville, Kans.

DUROC-JERSEYS
A few very superior boars out of Gold Dust 20401, our premier herd boar, now ready for sale.
BUCHANAN STOCK FARM, Sedalia, Mo.

Rockdale Herd Duroc-Jerseys
All reserved for bred sow sale Feb. 20, 1905. 40 head of tried sows, fall yearlings and spring gilts, the tops of my herd. Remember the date.
J. F. Chandler, Frankfort, Kansas.

MINNEOLA HERD DUROC-JERSEY SWINE
Prince 17799 and Red Rover 27685 at head of herd. Young boars and bred and open gilts for sale.
L. A. KEELER, Route 7, Ottawa, Kans.
Phone 891 G.

Rose Lawn Herd Duroc-Jerseys
Now offering males only. Bred sows and gilts reserved for Feb. 22, 1905 sale. Visitors welcome and prices right. Can ship on Santa Fe, Mo. Pacific and Rock Island railroads.
L. L. Vrooman, Hope, Dickinson Co., Kans.

Maple Grove Stock Farm DUROC-JERSEY SWINE

Twenty-five gilts bred to farrow in March and April. A few boars and the herd boar Royal Top-Notcher 28075—12329, for sale at reasonable prices. Also a nice lot of yearling pigs.
DULANEY & DE BROT, Route 1, Wichita, Kas

Walnut Oak Durocs FOR SALE.

Ten yearling sows, including our World's Fair premium sows sired by Surprise 10817, champion at Kansas City Royal 1902, and bred to son of Bell's Chief and Bishop's Choice. Fifteen June boars, including our World's Fair fifth prize boar under 1 year. All the very best of the breed. Our motto is to please all.

Powell & Rudy, Smithton, Mo.

POLAND-CHINA SWINE.

FOR SALE Poland-China Hogs, Holstein-Friesian Cattle; either sex. Best strains represented. H. N. HOLDEMAN, Rural Route No. 2, Girard, Kansas.

SHADY NOOK HERD.
Poland-Chinas. Up-to-date breeding. Correspondence solicited, inspection invited.
Wm. Plummer, Barclay, Kans.

MAPLE VALLEY STOCK FARM
Pure-bred Poland-Chinas from leading strains. Visitors welcome and correspondence solicited. Satisfaction guaranteed. C. F. Brown, R. 2, Whiting, Kas

Pecan Herd of Poland-Chinas
Model Tecumseh 64183, American Royal (S) 80783, and Best Perfection 81507 at head of herd. Write us your wants.
J. N. Woods & Son, Route 1, Ottawa, Kans.

POLAND-CHINA SWINE.

Pure Bred Poland-Chinas.
of the Chief Tecumseh 24, Black U. S., Wilkes, Free Trade, Corwin and Short Stop strains. Address
E. E. WAIT, Altoona, Wilson County, Kans.

Elm Grove Stock Farm Poland-Chinas.
Woodbury 33838, Highroller 33839 and Perfection's Profit 33233 at head. Sows of the most popular strains. Visitors always welcome.
F. A. DAWLEY, Waldo, Kans.

Kansas Herd of Poland-Chinas.
Has fifteen Sunshine gilts bred to a son of Mischief Maker, and some sows carrying their second litter and some good boars. Also White Rose Comb Leghorn eggs.
F. P. MAGUIRE, Hutchinson, Kansas.

ROME PARK POLAND-CHINAS and BERKSHIRES.

I have about twenty boars ready for use and twenty-five sows bred, and some unbred, and a large number of good pigs, both breeds.

T. A. HUBBARD, (County Treasurer Office.) Wellington, Kans.

HIGHLAND FARM HERD OF PEDIGREED POLAND-CHINAS

Twenty serviceable boars at special prices for next 20 days, sired by Black Perfection 37122, Black Perfection 32604, Perfection Now 32590, and Ideal Perfection. They are lengthy and good-boned pigs, with plenty of finish. Write me description of what you want and I will guarantee satisfaction.
JOHN BOLLIN, Route 5, Leavenworth, Kas

Main's Herd of Poland-Chinas

Empire Chief 30879 S, 62445 A, head of first prize herd at Iowa and Nebraska State Fairs. Mammoth bone and size, full brother to the champion Logan Chief. Chief Tecumseh 4th, sired by Chief Tecumseh 3d, whose get have won 110 prizes at State Fairs, heads the herd of

JAMES MAINS, Oskaloosa, Jefferson Co., Kan.
All ages and sex, out of sows of all the leading strains of the Poland-China breed. Write what you want.

GUS AARON'S POLAND-CHINAS
Route 5, Leavenworth, Kans.

Choice young boars of April and May farrow sired by Beauty's Extension, for sale. Also bred sows and gilts, all with good colors, bone, fancy head and ears. The head boar, Beauty's Extension 27966, for sale. Some snaps here. Visitors welcome. Mention Kansas Farmer and write for prices.

Big-Boned, Lengthy Poland-Chinas

I have for sale two herd boars, one sired by the great Missouri's Black Perfection, the other by Perfection Chief; they are extra good. Also 25 large, big-boned, growthy spring boars and about the same number of gilts. My specialty is to breed the kind that is the most profitable.

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CLEAR-CREEK HERD OF POLAND-CHINAS

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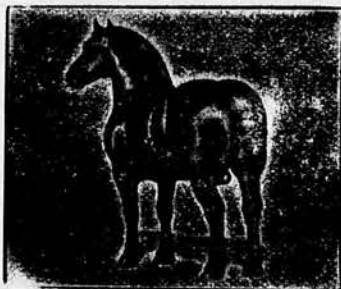
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Sunny Slope Farm, Emporia, Kans.

TWENTY-FIRST ANNUAL SALE OF ELMWOOD SHORTHORNS

AT MANHATTAN, KANS., TUESDAY, MARCH 14, 1905.

37 EXTRA CHOICE SHORTHORN CATTLE 37

This offering includes 16 HIGH CLASS SHOW BULLS, 12 Herd Headers among them. All red except two dark roans. Ten are sired by Red Gauntlet, 3 by Orange Champion and 3 by King's Guard.

21 CHOICE YOUNG COWS AND HEIFERS,

Some with calf at foot; and all bred to Scotch bull. This sale will comprise the best offering as a whole ever made from Elmwood Herd. Catalogue sent on application.

Address **F. M. GIFFORD,** :: **Wakefield, Kansas.**

BLUE RIBBON SALE

OFFERING THE

Champions of Two State Fairs



40 HEAD 40



Percheron Stallions and Mares

Coach Stallions and Saddle Stallions

Big Black Mammoth Jacks and Jennets

Sale Postponed to

MONDAY, FEBRUARY 27, 1905

12 O'clock m., at WESTPHALIA, KANS., on K. & A. Div. Mo. Pac. Ry.

In this sale I offer my Show Herd of 1904, they were never defeated—showed in hot competition—several of them champions of two state fairs. To any one intending the purchase of breeding stock, I would say this is the opportunity of a lifetime to buy stock of this class at your own bid. If interested write for catalog. Excursion rates in effect.

S. A. SPRIGGS.

Auctioneers: Col. Jas. Sparks, Marshall, Mo.
Col. L. A. Burger, Wellington, Kan.
Col. H. H. Green, Homewood, Kan.

RED POLLED CATTLE AT AUCTION . .

L. K. HASELTINE, of Springfield, Mo., and others, will offer at Public Sale at Divers Stock Barns, (one block west of Mo. Pacific depot) Wichita, Kans., at 1 o'clock p. m., Thursday, March 9, 1905, one carload of registered Red Polls, consisting of both bulls and heifers, 8 to 24 months old. Terms of sale will be cash. For catalogue address

L. K. HASELTINE, Springfield, Mo.

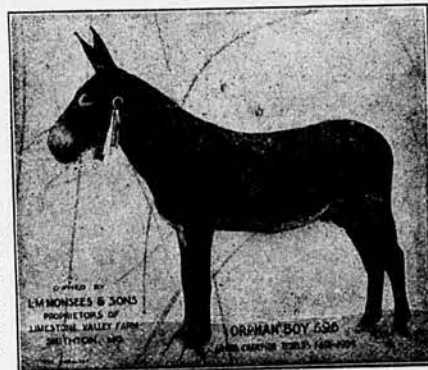
Remember

The 26th semi-annual and greatest Jack and Jennet Sale ever held in the United States will take place at

LIMESTONE VALLEY FARM
Six miles east of Sedalia and two miles north of Smithton, Pettis County, Missouri.

Tuesday, March 7th, 1905

65 HEAD of all black registered Jacks and Jennets, including 24 head of World's Fair prize-winners; also a few Saddle Stallions. We sell nothing but our own stock, and every animal guaranteed as represented. We will show you the best herd in the United States or pay all your railroad fare. Nothing priced or sold privately. Write for catalogue.



L. M. MONSEES & SONS
Smithton, Missouri.

Auctioneers: Cois. E. W. Stevens, R. L. Harriman, Jas. W. Sparks, J. Z. Wells, C. J. Hieronymus

YOU'RE NEEDED

The Southwest is really in need of nothing save people. More men are needed—**you're needed.** There are vast areas of unimproved land—land not yielding the crops of which it is capable. The same thing in a different way is true of the towns. Few lines of business are adequately represented. There are openings for mills and manufacturing plants, small stores, banks, newspapers and lumber yards. The oil and gas fields of Kansas, Indian Territory and Oklahoma, are practically new and offer wonderful opportunities for development along commercial lines.

THE OPPORTUNITY IS NOW.

The M. K. & T. has no lands for sale, we are simply interested in the upbuilding of the country. We believe in the Southwest, and know that with its present needs and opportunities, the prospects are brighter and the future more hopeful than in the older and more densely populated States. We want you to investigate conditions and satisfy yourself of the truthfulness of this.

On February 21st and March 21st, the M. K. & T. Ry. will sell excursion tickets from St. Louis, Hannibal and Kansas City to Indian Territory, Oklahoma and Central and Eastern Texas at

\$15 For the Round Trip

One way second class **COLONIST** tickets will be sold on the same dates at one-half the standard one-way rate, plus \$2.00.

You should take advantage of this opportunity to see the Southwest for yourself. We are in possession of all sorts of information valuable alike to the investor and homeseeker. If you are interested, tell us what you want, how much you have to invest, and we will gladly furnish the information.



Write today for a copy of our book "Business Chance." It's free. Address.

"KATY," ST. LOUIS, MO.

WHEN WRITING ADVERTISERS PLEASE MENTION THIS PAPER.

Wire Fence 29c
48-in. stock fence per rod only.
Best high carbon cold steel spring wire.
Catalog of fences, tools and supplies FREE.
Buy direct at wholesale. Write today.
MASON FENCE CO. Box 62, Leesburg, O.

GRISWOLD SQUARE FENCE
is scientifically built. We make the wire and weave the fence. Specially galvanized to last. Stays 6 or 9 in. apart. All heights for all purposes. Prompt shipments from factory. Free catalogue.
Dillon-Grissold Wire Co., 57 Wallace St., Sterling, Ill.

FARMERS FRIEND FENCE
AT FACTORY PRICE.

A farmer knows what it takes to make a good fence. This Ideal Hog Fence was invented on a farm by a farmer to supply his needs. Your needs are no different. It's just the thing for hogs, and so very good for large stock that everybody wants it. Stay and line wires are inter-twisted. You Can't Slip Them. It costs so little because sold direct to you. Catalog free.
FARMERS FENCE CO. Box 20, Melvern, Kans.

FIELD POST Made where used. No freight charges. Simple of construction. Excels in beauty, convenience and strength. Costs little more than oak or locust, will last for all time. Renders universal satisfaction. Reliable men wanted who can work territory. Descriptive matter free. Address with stamp.
ZEIGLER BROS., Hutchinson, Kans.

THE FARMER'S JOY
Sickle and Tool Grinder, with Emery Dresser and Wrench. \$3.45
Sharpens Mower Knives, all Tools, Skates, Shears, etc. Guaranteed satisfactory or money back. With all Steel Foot Power Frame, and Polishing and Disc Grinding Attachments, \$3.50 extra.
Western Implement Co., Dept. I, Fort Washington, Wis.

The Split Hickory Plan
We sell direct, allowing 50 days Free Use, and Guarantee Satisfaction. Price \$35 up Split Hickory Vehicles.
We make vehicles in 100 styles, and sell to user at wholesale. Split Hickory Buggies excel in Style, Durability, and all-around Satisfaction. New 1905 Vehicle and Harness Catalogue, 192 Pages, Free. Write for it.
The Ohio Carriage Mfg. Co., (H. C. Phelps, Pres.) Station 251, Cincinnati, Ohio.

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THE BIG OLD ESTABLISHED HOUSE BUYING
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WRITE FOR CATALOGUE AND GET OUR CIRCULARS AND PRICES AND DISCOUNTS

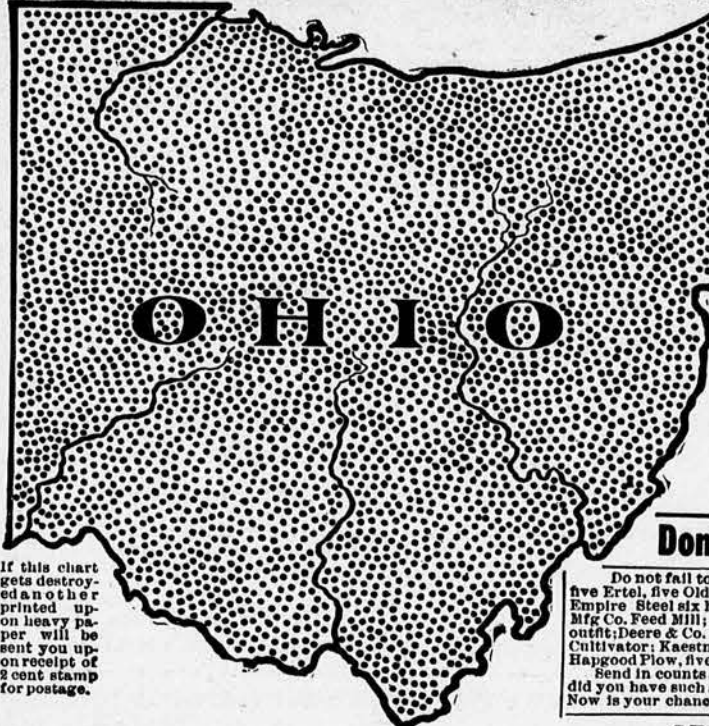
When Frost Heaves the Ground
and leaves the surface like powder to dry out by wind and sun, then you should use the Topeka Foundry Packer.
For prices and circulars, write
TOPEKA FOUNDRY, Topeka, Ks

The Kansas State Agricultural College

A ten weeks' summer course in Domestic Science and Art for teachers will begin May 23, 1905. The regular spring term of the college begins March 28th. All of the common school branches are taught each term, and classes are formed in all of the first-year and nearly all of the second-year studies each term. Write for catalogue.

PRES. E. R. NICHOLS,
Box 50, Manhattan, Kans.

BIG PRIZES FREE! TWO PIANOS! CASH!



GASOLINE ENGINES, INCUBATORS, CREAM SEPARATORS, BUGGIES, BONE CUTTERS, ETC.
FREE! If You Can Tell How Many Dots in Ohio?

IF YOU CAN COUNT AND PLAN YOU CAN WIN!

SUCCESSFUL FARMING will give to those who can count the dots in Ohio correctly or nearest correctly, the following list of prizes: CAN YOU DO IT?
TWO ELEGANT PIANOS, one to a lady and one to a gentleman.
2nd. AN ELEGANT CABINET GRAND SIX OCTAVE ORGAN.
3rd. \$150 CASH. 4th. \$100 CASH. 5th. \$50 CASH.
6th. WEBER GASOLINE ENGINE.
7th. DeLAVAL CREAM SEPARATOR.
8th. ELEGANT ELKHART TOP BUGGY.
9th and 10th. EACH A 100 or 150 Egg INCUBATOR.
11th. EMPIRE SIX-HOLE STEEL RANGE.
12th. F. W. MANN BONE CUTTER.
NEXT 20, \$5.00 EACH. NEXT 25, \$2.00 EACH.

CONDITIONS: Counts must be accompanied by subscription. 50c pays for one year and one count. \$1.00 pays for two years and three counts. You get \$50 extra if you have three counts. It will pay you to have three. See conditions below.

Don't Delay! If you want a Piano or other Prizes Win! Win!

Do not fail to get counts in as once. Our complete list of prizes contains six pianos; five Ertel, five Old Trusty and five Sure Hatch Incubators; five Galloway harrow carts; five Empire Steel six hole ranges; Hoover-Prout Potato Digger; Smith Mann's Spreader, Star Mfg Co. Feed Mill; Parlin Orendorf Corn Planters; Osgood Scales; a \$175 DeLoach Sawmill; Deere & Co. Cultivator; an Electric Handy Wagon; Campbell Fanning Mill; Tower Cultivator; Kaestner Feed Grinder; Mule Stump Pul; Stearns' Bone Cutter; Carriages; Hagood Plow, five C.A.S. Farm Forges, Wilson Bone Cutter; Elkhart Driving Harness, etc. Send in counts and subscription as above and get our complete premium offer. Never did you have such an opportunity before. Don't delay, you want some of these premiums. Now is your chance.

Test of Skill This contest is not to be confused with the guessing or estimating contests which are not permitted by the Post Office Department. Our contest is a test of skill in counting and getting up best plans and the best man wins. It depends upon you. There is no guess or chance about it. Do not hesitate about entering but get your counts in at once.

Conditions—50 cents pays for one full year's subscription to SUCCESSFUL FARMING, and entitles you to one free count: \$1.00 pays for two years and entitles you to three counts and makes you eligible for the \$50.00 prizes given to winners of 1st prizes if they have three counts. See below.
\$50 Prizes—We believe everybody should have three counts so they can sure to hit it. To encourage this we will give \$50.00 extra to winners of 1st prizes if they have three counts. Remember if you have one count you get 1st prize only, but if you have three counts you get \$50 extra.

Awards will be made as follows—The person giving correct or nearest correct count will get first prize. Next nearest correct, second prize, etc. In case of a tie for any prize it will be awarded to the person giving best plan for counting the dots. State whether you enter ladies' or gents' contest, as one piano goes to lady sending best count or plan, the other to gentleman sending best count or plan.

Time Prize—We feel early counters should be rewarded and will give \$50 to person sending best count or plan by Mar. 31. If you send best count or plan before Mar. 31, you get \$50 extra.

Judges—The awarding of prizes will be wholly in the hands of disinterested judges. We have chosen bankers, ministers, public officials, etc., to act as judges in our contests. Ex-Governors, Mayors, Treasurers, etc., have acted as judges. We are bound our contests must be absolutely fair.

Our Financial Responsibility—As to whether we are abundantly able to do as we say, we are glad to refer to Des Moines Savings Bank and Central State Bank. Our offer will be carried out to the letter.

In the event more than one person should submit the same plan and this was considered the best plan by the judges, each person so tying will be asked to tell in 50 words how best to improve Successful Farming. The one making best suggestions gets first prize, next best next, etc. Understand this is only in case of tie in plan, which is not at all likely.

Nobody connected with our paper will be allowed to compete. Contest closes April 30, but get your counts in at once. See about time prize above. Any body having three counts entered may enter additional counts at 25 cents each. Be careful to give your plan of counting, as the best plan used will decide all ties.

Publisher SUCCESSFUL FARMING, 280 Plum St., Des Moines, Iowa.
I enclose \$..... for subscription to Successful Farming, and I wish to enter the..... (write ladies' or gents') Contest. If \$1.00 is paid send three counts; if more than \$1.00 send one additional count for each \$1.00 over \$1.00; if only 50c is paid send only one count. The extra \$50.00 go only to those having three or more counts entered.

My Count is: (1)..... (2)..... (3).....
Name..... P. O..... State.....
Remarks: My plan of counting is.....

Address all letters to **SUCCESSFUL FARMING, 280 Plum St., Des Moines, Iowa.**

PRIZE WINNERS IN PAST CONTESTS

A Piano for \$1.00. Surely people may enter your contests knowing that they will receive fair treatment. How glad I was to win a piano for so small an amount and wholly unexpected. The paper alone is worth all I paid. MRS. L. W. NOTT, Marion, Ia.

A Piano An elegant Piano for a Dollar! That is what I got and anybody that thinks your prizes are not awarded fairly don't know. They can be no favorites or I would not have won. MIRA E. FETTERMAN, Paola, Ill.

A Piano for Pennsylvania. Easiest way I ever saw to get a piano and you people are surely fair. Friends laughed at me and said friends received the prizes. Now they are sorry they did not enter. Will never be without your paper. D. L. FREEBORN, Knoxville, Pa.

He Won a Piano. Refer people to me if they want to know whether you are honest. I got a piano for a prize and never heard of you until I answered your ad. Your paper is worth twice the subscription price. W. C. ELLIOTT, Audubon, Ia.

\$100.00 Prize. I got my \$100 and it was the easiest I ever earned. The dots are hard to count but I know the prizes go to those who win them fairly. AMY R. BARNES, Van Horn, Ia.

Won \$350 Cash. To Whom it May Concern: I won grand prize of \$350.00 Cash in last contest. I was much surprised. I want to vouch as to Successful Farming's fairness to any and everybody. JOHN A. GOODWIN, Akron, Ohio.

\$50.00 for Canada. Way up here in Canada I won \$50. Never knew there was such a paper until I answered ad. Now I will never be without it again. MISS E. FOURNIER, Matane, Quebec.

\$50.00 NEWTON RARICK, Ligonier, Indiana.

Others Who Won: \$100—Eva I. Buckner, Fredonia, Kan. \$25.00—Clara Allers, 1209 Wal., Cincinnati, O. \$100.00—C. S. Wyman, Vinton, Ia. \$50.00—S. Irving Storer, 225 E. Balt., Baltimore, Md. \$100.00—E. M. Hall, Montrose, Mo. \$25.00

NEWTON RARICK, Ligonier, Ind.

\$50.00 CASH

\$50.00 CASH

\$50.00 CASH

\$50.00 CASH

\$50.00 CASH



SPECIAL



Homeseekers' Rates

via

Santa Fe

On February 21st and March 7th and 21st Special Homeseekers' tickets will be sold to Ft. Worth, Dallas, Galveston, Houston, San Antonio and other Texas points at the extremely low rate of \$15.00 for the round trip. Points in Pecos Valley and return \$20.00. El Paso and return \$26.50. Rate of one fare plus \$2.00 to points in Oklahoma, Indian Territory, Arizona, New Mexico, Arkansas and Texas, tickets limited to 21 days from date of sale and stop-overs allowed on the going trip within 15 days.

For full information, literature, etc., address

T. L. KING, C. P. & T. A., Topeka, Kan.