

KANSAS FARMER

Volume XLV. Number 10

TOPEKA, KANSAS, MARCH 7, 1907

Established 1863. Six a Year



Iams' Dragon-de-Hon (35178), Chestnut Belgian, 4 years old, weight 2,140 pounds, and a prize-winner in Belgium.

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625 Jackson St., Topeka, Kansas

CATTLE-GUARDS ON RAILROADS MUST BE MAINTAINED.

EDITOR KANSAS FARMER:—I own a farm on the McPherson branch of the Missouri Pacific Railroad, or rather, the Missouri Pacific Railroad runs over my farm, as I was on it first.

It is cutting off eighteen acres on the southwest corner of my farm, which is in alfalfa. There is a fence on the north side of the railroad but not on the south side of the track.

Last spring the railroad company had all cattle-guards on this line taken out, but have not replaced them with others. After the fourth cutting of alfalfa last fall I wanted to pasture the field, and applied for cattle-guards. They were put in at the time needed, but I had to put up the fence connection, which was also taken down when cattle-guards were taken out. The section foreman said he had no time to put up fence, and I could send in bill for my work. But I did not ask for pay, as I was glad for cattle-guards again. But now, the section men took out those guards again to put them on another man's farm, so he can pasture his wheat. When I asked the section foreman for an explanation, he said he got one of the guards four miles north of Moundridge, McPherson County, and they belonged to the other section, that they were temporary guards, and each section had but one of them.

Now, can the Missouri Pacific Railroad Company fool us farmers with one temporary cattle-guard to a section, when all the permanent guards were taken out a year ago, and are not yet replaced? That is the question I wish THE KANSAS FARMER to answer. My farm is well fenced and well improved and I want to keep other stock from it, and my own on it, especially so as my cattle are pure-bred Herefords. Under the present conditions it can not be done.

How shall I proceed to get cattle-guards, and have them to stay?

Harvey County. CHAS. BILLAN.

The General Statutes of Kansas at section 6321 provide as follows:

"When any railroad runs through

any improved or fenced land, said railroad company shall make proper cattle-guards on such railroad when they enter and when they leave such improved or fenced land."

Subsequent sections provide for the collection of damages that may be sustained by reason of neglect or refusal to comply with these provisions.

No intelligent person will claim that the mere placing of such cattle-guards and their subsequent removal is contemplated by the law. On the contrary, the clear intent is that such cattle-guards shall be continuously maintained by the railway company. Failure to maintain as well as to make the guards should be held to be in violation of the law.

It is not at all likely that the order to remove the guards emanated from any very high authority of the Missouri Pacific Railway Company.

The editor suggests that this correspondent prepare a full statement of the case, making two copies thereof, that he attach this editorial to one copy and show it to the Missouri Pacific section foreman and talk the matter over fully and frankly with him. Do this in order to avoid liability of getting the foreman into trouble, as you would by taking the matter up immediately with higher officials of the railroad.

If this does not secure the desired result take the statement, signed and dated, to the Missouri Pacific station agent and ask him to forward it to the proper higher official.

Retain a full copy of your statement to be forwarded to the editor of THE KANSAS FARMER in case proper relief be not given within a reasonable time. The editor will then take up the matter directly with the higher officials. It is not at all probable that there will ever be occasion to resort to this last-mentioned measure.

KANSAS CONGRESSIONAL DISTRICTS.

EDITOR KANSAS FARMER:—What Congressional district is Reno County in since we have the Eighth District? Please give counties in each district and their representative in United States Congress. What State Senatorial district is Reno County in, and who is the Senator? What town is United States Senator Curtis from?

Who are the present State officers? How often does the Legislature meet in Kansas?

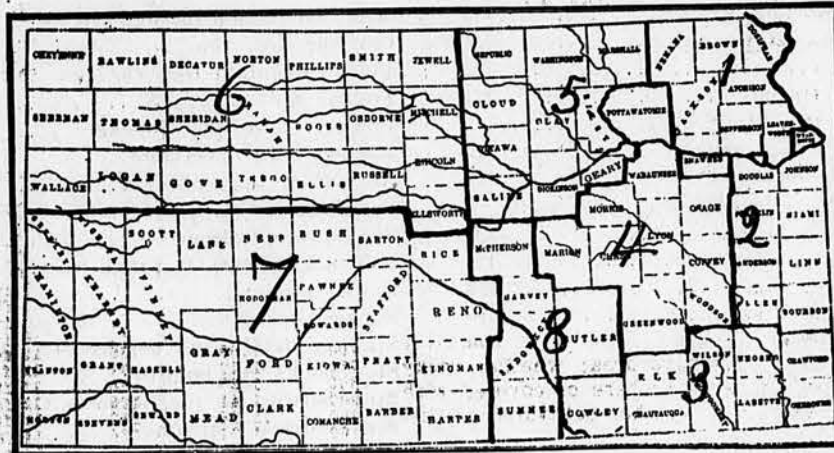
A READER.

Reno County.
The accompanying map shows the several Congressional districts of Kansas. As will be seen, Reno County is in the Seventh District.

The present representation in Congress is as follows:

Senators: Chester I. Long, Medicine Lodge, Barber County; Charles Curtis, Topeka, Shawnee County.

Representatives: First District, vacant; Second District, Chas. F. Scott, Iola, Anderson County; Third Dis-



THE CONGRESSIONAL DISTRICTS OF KANSAS.

trict, Phil. P. Campbell, Pittsburg, Crawford County; Fourth District, J. M. Miller, Council Grove, Morris County; Fifth District, W. A. Calderhead, Marysville, Marshall County; Sixth District, W. A. Reader, Phillipsburg, Phillips County; Seventh District, E. H. Madison, Dodge City, Ford County; Eighth District, Victor Murdock, Wichita, Sedgewick County.

Reno County is in the Thirty-Sixth Senatorial District. This district consists of Reno, Kingman, and Pratt

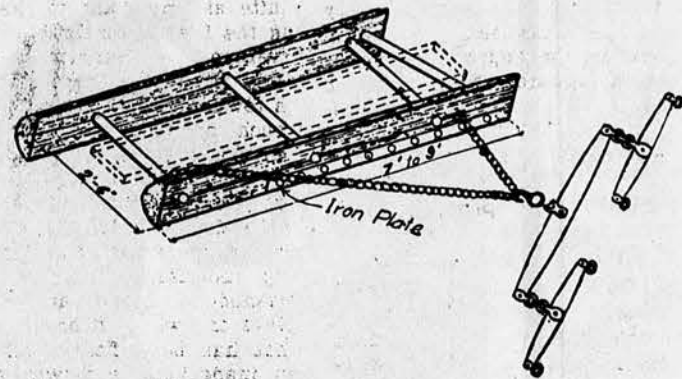
Counties. The present Senator is T. C. Carver, Pratt, Pratt County.

The present State officers are: Governor, E. W. Hoch; Lieutenant Governor, William J. Fitzgerald; Secretary of State, James M. Nation; Auditor of State, W. J. Bowen; Treasurer, Mark Tulley; Attorney-General, Fred S. Jackson; Superintendent of Public Instruction, E. T. Fairchild; Superintendent of Insurance, Chas. W. Barnes; State Printer, Thos. A. McNeal; Railroad Commissioners, Frank J. Ryan, Chas. A. Ryker, Geo. W. Kanavel.

The Legislature meets once in two years, convening on the second Tuesday in January of every odd-numbered year. The time for which legislators receive pay is fifty days for each biennial session. They usually remain longer but without pay.

THE SPLIT-LOG ROAD-DRAG.

EDITOR KANSAS FARMER:—Some months ago I saw in THE KANSAS FARMER a description of a road-drag. I mislaid the paper containing it and would like for you to publish it again. Our township will make several of them this season, and of course want the best design we can get. A. F. Coffey County.



THE KING DRAG.

The above cut represents the original split-log drag as made and used by Mr. King. In many parts of Kansas, logs suitable for making such a drag are not obtainable. Excellent drags may be made of two-inch planks. When well made, they are durable and effective. The drag is the best road machine ever invented. It has its limitations but after a road has been properly graded and shaped, the drag used as soon after every rain as it can do good work prevents the formation of ruts and other depressions and gives the road a surface which wears well.

PROVISIONS OF THE GOPHER LAW.

EDITOR KANSAS FARMER:—Will you kindly publish the gopher law that was passed by the Legislature two years ago? W. P. STILWELL.

Ottawa County.

The gopher law of 1905 is too long for insertion here. In brief it pro-

vides that upon the petition of ten landowners, in any township, the county commissioners may direct the township trustee, or some other suitable person, in any road district, to exterminate gophers. Such person is authorized to poison, or kill, or otherwise exterminate gophers on the lands of any owner who neglects or refuses to do so. The gopher-exterminator is to be paid two dollars per day, and for all poison and other necessities used in the performance of

such work, to be paid by the township. This is to be taxed to the person who shall neglect or refuse to exterminate the gophers on his land, and to be collected as other taxes are collected.

The full provisions of the law are contained in sections 1948, 1949, and 1950 of the General Statutes of Kansas.

KANSAS GRAIN RATES BEFORE THE INTER-STATE COMMERCE COMMISSION.

The inequalities of freight rates are so great and so plain that they are not denied. If questioned as to whether rates on the average are too high, the average man may hesitate to answer, because he may be confronted with a complicated array of figures and assertions, which he can not controvert. If it be admitted that rates on the average are about right, the fact remains that the discriminations which favor some localities at the expense of others, are sufficient to enrich, or to impoverish, according as locality is on the favored or the unfavored list. Nor is it to be assumed that these discriminations are willingly made. The writer is of the opinion that the most unjust discriminations are extorted from the railroads, by communities which are in position to successfully practise such extortion.

That Kansas producers and consumers are the victims of the discriminations is clearly evident from the showings made in two cases now pending before the Inter-State Commerce Commission. These cases were brought by the Farmers', Merchants', and Shippers' Club of Kansas, for the purpose of securing a readjustment of rates on grain shipped from Kansas points. In its statement, this club shows that there is a great variation in the rates, per ton, per mile, on shipments of wheat from various points in Kansas to Kansas City.

The following from different parts of the State will illustrate:

RATES ON WHEAT TO KANSAS CITY, PER TON, PER MILE.	
Sabetha.....	.....
Topeka.....	.....
Herington.....	.....
Salina.....	.....
Pratt.....	.....
Belleville.....	.....
Emporia.....	.....
Wichita.....	.....
Concordia.....	.....
McPherson.....	.....
Great Bend.....	.....

But the greatest contrasts are shown when these rates are compared with the rates from Kansas City to Galveston, on wheat intended for port.

RATES ON EXPORT WHEAT TO GALVESTON, PER TON PER MILE.	
Kansas City.....	.....
Emporia.....	.....
Wichita.....	.....
Great Bend.....	.....
Hutchinson.....	.....
Salina.....	.....
Arkansas City.....	.....

Among the features of rate-making which the ordinary man finds difficulty in understanding, may be noted the difference between the charge for hauling a car-load of wheat from Kansas point to Galveston for "port," and the charge for hauling like load from the same point to Galveston for "domestic" use. It costs as much in the one case as the other; the risks are the same; the value of road-bed and equipment used are the same. If a given rate is not remunerative for transporting grain for use of American citizens at Galveston, by what magic does it become remunerative when the grain

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to be sent abroad to be used by foreigners?

Here are some of the examples of this discrimination in favor of the foreigner:

EXPORT AND DOMESTIC RATES ON WHEAT TO GALVESTON, IN MILLS, PER TON, PER MILE.

	Export.	Domestic.
Emporia	5.4	7.9
Wichita	7.0	9.0
McPherson	6.6	8.3
Great Bend	6.5	9.0
Pratt	6.8	9.3
Topeka	5.1	7.7
Abilene	6.7	9.2
Herington	7.2	10.2
Belleville	6.3	9.0

There are many other inequalities which, like the samples given above, can probably be cured only by order of the Inter-State Commerce Commission. The cases in which these points are involved and are to be reviewed, and it is hoped decided, are set for hearing at Topeka on April 8, 1907. This is conceded to be the most important case ever brought before the Inter-State Commerce Commission. The result will have much to do with the farm prices of every bushel of wheat and corn produced in Kansas.

The Farmers', Merchants', and Shippers' Club of Kansas deserves great credit for bringing the matter to the attention of the tribunal before which it is to be heard. This club should have a membership in every school district in Kansas. By becoming more largely representative, it will have far greater influence. For information and blanks for organization write a postal card to D. W. Blaine, president, Pratt, Kans.

GALVANIZED IRON PIPE vs. LEAD PIPE.

EDITOR KANSAS FARMER:—Would you please tell me through THE KANSAS FARMER if rain water corrodes common galvanized pipe? I am thinking of making a cistern by a machine shed to avoid the coal soot on the dwelling house from getting into the rain water, but if galvanized pipe could not be used, it would be too costly to use lead pipe.

JOHN O. HOLT.

Saline County.

In the experience of the people in Topeka who repair and replace pipes used as contemplated by this correspondent, galvanized iron pipe lasts better than lead pipe. They think, however, that the vast amount of electricity which passes through the ground in Topeka may have something to do with the destruction of lead pipes. Be sure to get galvanized iron and not galvanized steel pipes. Steel pipes do not last well where exposed to corrosion.

LIABILITY FOR SERVICE OF STALLION.

EDITOR KANSAS FARMER:—Will you please answer the following question through the columns of your paper?

A breeds a mare to B's stallion. A sells the mare at a sale, to a shipper, before it is positively known whether the mare is with foal or not, stating when the mare is put up, that the buyer must pay for the foal. Can B hold A for the service?

AN OLD SUBSCRIBER.

Dickinson County.

Services of stallions are usually accompanied with a guarantee, the condition of which, either specified or implied, is that in case of failure of results from service the mare shall be returned for further service, and again and again returned throughout the season if necessary for success. If the owner fail to comply with this condition he should be held liable for the service, the same as if the first service were successful. The transfer of ownership of the mare does not deprive the stallion-owner of his lien for service, neither does it release the man who first contracted the debt from the obligation to pay.

BLOCKS OF TWO.

Every opportunity to do a favor to friend or neighbor should be improved. The subscription price of THE KANSAS FARMER is \$1 per year. It is worth the money. But the publishers are extending the circulation rapidly by means of their blocks of two proposition. It is this:

Every old subscriber on sending his

dollar for renewal is authorized to send the name and address of some one not now taking THE KANSAS FARMER and the dollar will pay for both subscriptions for one year. Address, The Kansas Farmer Company, Topeka, Kans.

Miscellany

Permanent Culverts for Highways.

PROF. U. C. HOAD, LAWRENCE, KANS., BEFORE THE KANSAS GOOD ROADS' ASSOCIATION.

One of the most gratifying results of the current interest in better highways is an increasing demand for permanent bridges and culverts, as distinguished from the temporary structures so largely employed heretofore. This is especially true of the culverts and minor bridges which, in Kansas, are usually built and maintained by the townships, the larger bridges ordinarily built by the counties usually being given much more serious consideration on account of their assumed greater importance. Because of their very large number, however, in the aggregate, these smaller structures are quite as important to the community as the few larger bridges and, on the average, cost much more to maintain. Only those who have had experience in township work can fully realize how much of the township funds every year goes for buying new planks for bridge floors, replacing rotten stringers, tearing down and rebuilding side walls that were laid up without mortar or that were not protected against being undermined, replacing broken or washed-out pipe, hauling back into place the whole floor of some culvert that has been floated off because of an inadequate waterway area provided, and the hundred other things that ought not to have to be done at all, but which really do have to be done many times over.

The writer wishes in the present paper to consider the subject of permanent structures for the smaller waterways with which the township boards have to deal. He does not intend to attempt to point out the advantages of these permanent structures over temporary ones, for these are known so well that every one recognizes them. As a general rule, township boards build permanent waterways whenever they have the money to do it with. It is the writer's intention, however, to place before the association certain established principles of engineering design that apply to structures of this kind, and to present a series of tables from which estimates of size and cost may be made, together with a set of plans that have been carefully worked out to fit our Kansas conditions.

SIZE OF WATERWAY.

The size of the waterway required at a culvert opening will depend upon: First, the size of the drainage area tributary to the culvert. Second, the general slope and shape of the drainage area; for example, a somewhat smaller waterway will be required for an area with gentle slopes than for one with steep slopes, and also for a long, narrow drainage area than for one nearly as broad as long. Third, the intensity of the rainfall; this does not mean the yearly or monthly rainfall, but the heaviest rainfall lasting for one or two hours, or even for ten or fifteen minutes in the case of small areas. Fourth, the surface character of the drainage area; whether rocky or not, whether bare or covered with vegetation, whether cultivated or pastured or timbered.

These are the principal factors that determine the size of waterway. The first, the size of the tributary drainage area, should be estimated as closely as possible. This is very easily done by walking around the ridge line that separates the particular area in question from those adjoining, and noting how much of each tract of land is included in the area. The writer has run out many drainage areas in this way, the

ONLY ONE "BROMO QUININE"

That is LAXATIVE BROMO QUININE. Similarly named remedies sometimes deceive. The first and original Cold Tablet is a WHITE PACKAGE with black and red lettering, and bears the signature of E. W. GROVE, Zec.

accuracy of the method being as great as is warranted by the conditions of the problem. The "forty-acre" lines of most farms are known, approximately at least, and these are the best-sized tracts to keep in mind. Small drainage areas, say less than 30 or 40 acres, should be looked at from several different viewpoints before being estimated. Minute accuracy in getting the exact areas is, of course, not necessary, but the true area should be obtained within 5 or 10 per cent.

All the other factors may be lumped together. The rate of rainfall is about the same over perhaps the Eastern one-third of Kansas; in this part of the State also the general character of the slopes and shape of the areas, the nature of the soil covering and the vegetation, are all approximately similar. It is the custom among engineers, in cases of this kind where the conditions are fairly similar, to make up a table or devise a formula which shall give the proper size of waterway for various sizes of drainage areas. For instance, the Santa Fe engineers have a table which they have used for many years in proportioning culverts in Missouri, Eastern Kansas, and the Indian Territory, with factors to apply to the tabular values for other localities. The Burlington engineers use a formula which gives the right size for culverts in Nebraska and Iowa. Many railroads in Illinois and Indiana use a formula derived by Professor Talbot, of the University of Illinois, which fits the conditions in that region. All these railroads first make a survey, or at least a very close estimate from good maps, of the area draining into the stream at the point where the railroad crosses it, and then apply the formula or table to determine what size of culvert to build.

The writer has examined all these formulas and tables, together with many others not mentioned, as it is a subject in which he has long been interested. The Santa Fe table gives culverts somewhat larger than is necessary for the ordinary slopes of Eastern Kansas. The Burlington and Talbot formulas, while perhaps suitable for Nebraska and Illinois, respectively, give values too small.

The writer offers the following table No. 1 from his notes, which is believed

to represent the average conditions of Eastern Kansas. In the first and second columns are given drainage areas in acres and square miles, respectively, and in sizes ranging from one acre to about ten square miles. In the third column are given the waterway areas required at the culvert for these drainage areas. In the fourth and last column are suggested certain forms and sizes of culverts which will meet the requirements. The specific culverts referred to will be discussed further on.

The table represents average conditions. If the slopes of the drainage area are steep and rocky, the waterway area of the culvert should be increased from 10 to 20 per cent. On the other hand, if the area drained is very flat, especially if covered heavily with vegetation, the waterway may be decreased by as much as 25 per cent. For the western part of the State, where the soil is more porous and the slopes somewhat more gentle, the waterway areas should be decreased by about 20 per cent.

The table is based upon velocities of flow through the culvert of from about 4 feet per second in the case of the smaller pipe culverts to 10 feet or more per second in that of the larger arches. To secure these velocities the culverts should be built on a grade of not less than one inch in 10 feet for the large culverts, and 2 inches in 10 feet for the smaller ones.

The materials of which permanent culverts may be constructed include vitrified clay culvert pipe, steel and cast-iron pipe, stone masonry, and concrete.

(To be continued.)

The Oat Question.

The farmers of Kansas are deeply interested in the problem of growing more oats as well as corn, and the following questions were propounded to Prof. A. M. TenEyck, of the Kansas State Agricultural College. We give here the replies as he dictated them:

Question.—What varieties of oats do you recommend, early- or late-maturing varieties?

Answer.—Early-maturing varieties of oats succeed best in this State. Oats

TABLE 1.—Waterway required for various drainage areas in Eastern Kansas.

Size of Drainage Area in acres	In Sq. Mi.	Waterway area required at culverts Sq. Ft.	Size and Dimensions of Culverts Suggested.
1	0.002	0.3	10 in. pipe.
2	.003	.6	10 in. pipe.
3	.005	.8	12 in. pipe.
5	.008	1.3	15 in., or 12 in. and 10 in. pipes.
7	.011	1.8	18 in., or 15 in. and 10 in. pipes.
10	.016	2.6	21 in., or 18 in. and 12 in. pipes.
15	.023	3.8	24 in., and 10 in., or 21 in. and 15 in. pipes; 2 ft. x 2 ft. box.
20	.031	4.9	30 in., or two 21 in., or three 18 in. pipes; 2 ft. x 2 ft. 6 in. box.
30	.047	7.0	36 in. pipe; 2 ft. 6 in. x 3 ft. box; 3 ft. arch, as in plan.
40	.063	9.1	42 in. pipe; 3 ft. x 3 ft. box; 3 ft. arch, 2 ft. side walls.
60	.094	12	48 in. pipe; 3 ft. x 4 ft. box; 4 ft. arch as in plan.
80	.12	15	54 in. pipe; 4 ft. x 4 ft. box; 4 ft. arch, 3 ft. side walls.
100	.16	18	60 in., or two 42 in. pipes; 5 ft. arch, as in plan.
120	.19	21	60 in., or 48 in. and 42 in. pipes; 5 ft. arch, 3 ft. side walls.
140	.22	24	60 in. and 30 in., or two 48 in. pipes; 5 ft. arch, 3 ft. 6 in. side walls.
160	.25	26	60 in. and 36 in., or two 48 in. pipes; 6 ft. arch, as in plan.
180	.28	29	60 in. and 42 in., or two 54 in. pipes; 6 ft. arch, 3 ft. 6 in. side walls.
200	.31	31	60 in. and 48 in., or two 54 in. pipes; 6 ft. arch, 4 ft. side walls.
220	.34	34	60 in. and 54 in. pipe; 6 ft. arch, 4 ft. 6 in. side walls.
240	.38	36	two 60 in. pipes; 6 ft. arch, 4 ft. 6 in. side walls.
260	.41	38	two 60 in. pipes; 8 ft. arch, 3 ft. side walls.
280	.44	41	two 60 in. pipes; 8 ft. arch, 3 ft. 6 in. side walls.
300	.47	45	8 ft. arch, as in plan.
350	.55	49	8 ft. arch, 4 ft. 6 in. side walls.
400	.63	55	8 ft. arch, 5 ft. side walls.
450	.70	60	8 ft. arch, 5 ft. 6 in. side walls.
500	.78	65	10 ft. arch, 4 ft. 6 in. side walls.
550	.86	70	10 ft. arch, as in plan.
600	.94	76	10 ft. arch, 5 ft. 6 in. side walls.
650	1.02	81	10 ft. arch, 6 ft. side walls.
700	1.09	86	10 ft. arch, 6 ft. 6 in. side walls.
750	1.17	91	12 ft. arch, 5 ft. side walls.
800	1.25	96	12 ft. arch, 5 ft. 6 in. side walls.
900	1.41	106	12 ft. arch, as in plan.
1000	1.56	116	12 ft. arch, 7 ft. side walls.
1100	1.72	126	14 ft. arch, 6 ft. side walls.
1200	1.88	136	14 ft. arch, as in plan.
1300	2.03	145	14 ft. arch, as in plan.
1400	2.19	155	14 ft. arch, 8 ft. side walls.
1500	2.34	165	16 ft. arch, 7 ft. side walls.
1600	2.50	175	16 ft. arch, 7 ft. 6 in. side walls.
1700	2.66	184	16 ft. arch, as in plan.
1800	2.82	193	16 ft. arch, 8 ft. 6 in. side walls.
1900	2.97	202	16 ft. arch, 9 ft. side walls.
2000	3.12	211	18 ft. arch, 8 ft. side walls.
2200	3.44	227	18 ft. arch, as in plan.
2400	3.76	244	18 ft. arch, 9 ft. 6 in. side walls.
2600	4.06	261	18 ft. arch; 10 ft. 6 in. side walls.
2800	4.38	277	20 ft. arch, 9 ft. 6 in. side walls.
3000	4.68	292	20 ft. arch, as in plan.
3200	5.00	306	20 ft. arch, 11 ft. side walls.
3400	5.32	320	20 ft. arch, 12 ft. side walls.
3600	5.62	334	two 16 ft. arches, 7 ft. side walls.
3800	5.94	348	two 16 ft. arches, 7 ft. 6 in. side walls.
4000	6.26	361	two 16 ft. arches, as in plan.
4500	7.04	391	two 16 ft. arches, 9 ft. side walls.
5000	7.82	421	two 18 ft. arches, 6 ft. side walls.
5500	8.60	450	two 18 ft. arches, 8 ft. 6 in. side walls.
6000	9.38	479	two 18 ft. arches, 9 ft. 6 in. side walls.
6500	10.16	507	two 20 ft. arches, 8 ft. 6 in. side walls.

should mature before the hot summer weather begins, or else the crop is apt to be blighted, and late-maturing oats will be likely to produce a heavy growth of straw with but light grain.

During the past four years some thirty or forty varieties have been grown in comparative trials at the Kansas Experiment Station, including all of the varieties commonly grown in this State and adjoining States, and also several varieties recently introduced from Russia and other foreign countries. Three varieties have yielded so much better, on the average, than any of the others, that usually name them as the ones best adapted for growing in this State. These are Sixty-Day, Kherson, and Red Texas. The average yield of each for the last four years has been 43.24, 42.11, and 40.44 bushels per acre respectively. A number of varieties of oats which are standard in Iowa and Nebraska have been grown each year in comparison with these varieties, and the best-producing of these was the Silvermine, which yielded 37.81 bushels per acre as an average for the four years.

Promising varieties which have been tested for less than four years are the Danish, Swedish Select, and Sparrowbill, all being varieties introduced from foreign countries, seed having been secured from the United States Department of Agriculture. The Stavropol oats, seed of which was secured from Stavropol, Russia, by the Kansas Experiment Station in 1905, is also a promising variety. As an average for the last two years the best-producing varieties rank as follows: Red Texas 54.32; Danish 48.72, Kherson 47.27, Sixty-Day 45.75, Swedish Select 45.15, Stavropol 43.16, and Sparrowbill 42.18. This period included one good oat year, 1905, and one low-yield year, 1906. In both these seasons the Red Texas oats ranked first. All of these varieties are early or medium early in maturing. The Sixty-Day and Kherson oats have required on the average about ninety-two days to mature, while the Red Texas and the other varieties required from ninety-five to ninety-eight days to mature. The agronomy department of the Experiment Station has been growing several of these varieties for seed-production, and now has for sale some two hundred bushels of the Sixty-Day oats, the variety which has given the highest average yield for the four seasons.

Question.—How much oats should be sown to the acre?

Answer.—Two bushels of oats per acre is a sufficient amount to sow, and if the seed is well-cleaned six or seven pecks will be enough to sow on fertile land, in a well-prepared seed-bed. When oats are not well cleaned but contain chaff and light grain it is necessary to set the drill to sow a larger amount per acre than is required when the oats are well cleaned.

Question.—Why do we not get seventy-five bushels per acre as we did years ago?

Answer.—Other conditions being equal the yield of oats depends very largely upon the season, and this is true of other grains also, but perhaps not to the same degree. We have harvested from sixty to seventy bushels of oats per acre two years out of the last four, from land which was not especially fertile. I believe it is possible to raise as large crops of oats as we did years ago, provided good seed is sown in a well-prepared seed-bed on fertile soil, choosing varieties which have been tested and have proved to be adapted for growing in our soil and climate. In order that oats may not deteriorate, it is necessary to grade the seed very carefully and sow only the heaviest grain from year to year. It is a general experience that oats seem to "run out" and farmers find it necessary to secure new seed every few years. The reason why oats "run out" in Kansas is primarily because we do not have a soil and climate particularly well adapted for growing oats. Some years are favorable but other seasons are unfavorable and the oats make a light crop. If the light seed is sown and this practise is continued, the

oats will soon deteriorate and become unproductive. It then becomes necessary to secure new seed-oats from regions which are better adapted for growing oats or from farmers who are more careful in cleaning and grading their seed.

Gossip About Stock.

Some recent sales of jacks made by J. F. Cook & Co., of Lexington, Ky., and Newton, Kans., are: Majorca King 1139, 5-year-old, imported from the Island of Majorca, a premium-winner on the island, and one of the finest jacks imported by them, sold to The Chehalis River Lumber Co., Centralia, Wash.; imported 3-year-old Majorca Lucero 1120, was sold to S. D. Makeever, Rensselaer, Ind.; 2-year-old imported Larsagora 1128, Catalonian, to Stanley Turner, Water Valley, Texas; to J. D. Burns, Moorefield, Ky.; 3-year-old Doctor McCord Jr., fifteen and three-quarter hands high; to James Merrick Jr., of Suddersville, Maryland, a 4-year-old, fifteen and a half hands high; to Mr. D. Hart, of Del Rio, Texas, eleven yearlings and 2-year-olds; and at their branch barn, Newton, Kans., a 3-year-old imported Majorca King of Kings, one 6-year-old and two 2-year-olds.

We wish to call the attention of our readers to the announcement made by the great importing and breeding firm of Truman's Pioneer Stud Farm, of Bushnell, Ill., and Kansas City, Mo., that they will hold a sale of thirty imported Shire and Percheron stallions at their own stables in the Stock Yards at Kansas City, Mo., on Wednesday, March 27, 1907. Never before in the history of the horse-world has there been thirty as high-class imported stallions offered at public sale in the United States. These horses have been selected in the old country by Mr. J. H. Truman, who is acknowledged to be one of the best judges of Shire horses in England. He bought more for exportation to this country than any other living man. Every horse was purchased by him, not with a view of selling at auction, but for the trade of the Trumans, both at Bushnell and at Kansas City, and only after seeing the prices the stallions offered at the different public sales have been bringing recently did they conclude to risk these first-class horses in an auction ring. Evidently the farmers and breeders prefer to buy their stallions at auction where they can buy them at their own price, and believing that the farmers of Kansas, Missouri, Nebraska, and Oklahoma are good enough judges to appreciate a first-class imported stallion, the Trumans decided to give them that opportunity. They will bring into the ring on March 27 horses of outstanding merit, not only good prospects for future show horses but some of them already have won prizes at the great Illinois, Iowa, and Indiana State Fairs, and at the Kansas City Royal Show last fall. In ages they run from rising 3 to 6 years old, in colors bay, browns, blacks, chestnuts, and dark greys. Full of quality with all the substance possible to get. Don't fail to attend this sale under any circumstances. Every stallion will be absolutely guaranteed just the same as though he were purchased at private sale, and as to the responsibility of Truman's Pioneer Stud Farm our readers are referred by permission to the Interstate Bank of Kansas City, Mo., or to the Bank of Bushnell, Bushnell, Ill. The Trumans further wish to state that this sale will in no way interfere with their business at Bushnell, Ill., as they have there at the present time upwards of 100 stallions for sale, but the horses that they sell at Kansas City are at the present time in their stables at that point, where they will be pleased to show any prospective buyers wishing to call. Catalogues are now being printed, and will be forwarded upon application to them at their Kansas City address.

What A Prominent Horseman Says.

Walcott, Beers & Grant, Horse and Mule Market, Kansas City, Mo. I have used Leonard's Barb Wire Liniment for eight years. It is the best liniment I ever used. It does its work quickly and satisfactorily. No first-class barn can afford to do without it.

We endorse what Mr. Walcott says: J. C. MILLER, State Reformatory. We have bought it by the gallon for eight years. E. E. MARSHALL, Supt. Ex-Governor Keedy's daughter says: "It cured me of catarrh."

EV. LEEDY. Leonard's Barb Wire Liniment cures the worst barb-wire cut without leaving a scar; cures heaves, colic, roup, nail wounds, galls, sore shoulders, pink eye, burns, sore throat, piles, catarrh, coughs, croup, tonsillitis, distemper, poison from corn-stalks, pneumonia, blood poison, caked udder, cracked teats. Price, \$1 pint; \$1.75 quart; \$3.50 one-half gallon; \$6.00 gallon. HARRY LEONARD, Mgr., Hutchinson, Kans.

Stallion and Jack Sales.

W. L. DeClerk, of Cedar Rapids, Iowa, writes: "I have 55 jacks on hand at this writing, the largest and best ones in the United States. Public sale advertisements are rather alluring to prospective customers, but those who attend sales please remember that if they fail to buy, they should come direct to my place. I have the largest number of large, fine, big-boned, heavy-set, tried-out jacks of any man in America. No other man has as large a number as I have on sale, and you can get what you want. My prices are lower than those of any other man in the business. Also remember I am selling big, fine, ton stallions every day at prices ranging from \$900 to \$1,250 each. I will prove to you that no other importer is offering such bargains. A list of my sales of jacks

and stallions in the last few days appears below:

Jacks.—Haynes & Lowry, Garwin, Iowa, private; Christian Baker, Milford, Cal., \$500; G. H. Stowell, Wilmet, S. D., \$1,000; A. P. Brownell, Central City, Neb., \$800; A. C. Palmer, Elgin, Neb., \$1,250; Frank Lee, Olmstead, N. D., \$1,000; J. W. Patterson, Sterling, Col., \$1,550; W. S. Pound, Churdan, Iowa, \$750; Edward Segrist, Ceresco, Neb., \$1,150; Seward Berhaw, Huxley, Iowa, \$1,100; Thomas Bell, Lusk, Wyo., \$1,000; Company at Staunton, Ill., \$1,650; Miles & Phillips, Savanna, Ill., \$1,200; Thomas French, Veederburg, Ind., \$1,250.

A New Tomato.



At the great Royal Agricultural Show of England, there was exhibited a plant of a new variety of tomato called the "Golden Nugget," which attracted the attention of probably hundreds of thousands of persons by its vigorous growth, beautiful shape and color, and immense productiveness, there being about seventy-five full-sized fruits on a single plant, growing in a seven-inch flower-pot.

A Des Moines seed-dealer who was present at once made arrangements to introduce it into America. When grown in the open ground here it astonished every one by producing 150 to 200 fine-shaped golden yellow fruits of unusually fine flavor, different from and superior to any other variety, especially for eating from the hand. Prizes amounting to \$25 are offered this year by the introducers for the largest number of tomatoes grown on one plant.

We have just made arrangements with the introducers to send a prize competitor's packet of 25 seeds of the "Golden Nugget" tomato free to any of our readers who desire it, provided they mention this paper in their request. Write direct to the Iowa Seed Company, Des Moines, Iowa, enclosing a two-cent stamp to partially pay the postage on the seed, and a copy of their catalogue, which describes also many other desirable novelties, will be sent you.

New Advertisers.

R. C. Follett & Co., pig forceps. Lot, the land man, 80 acres for \$400. Frank Dunable, R. C. Brown Leghorn eggs. Mrs. D. A. Sheaks, Rhode Island Red eggs. Mrs. James Pringle, Barred Rock eggs. B. D. Hungerford, Buff Orpingtons. Wm. Brown & Son, small fruit plants. P. H. Mahon, Brown Leghorn eggs. J. L. Moore, White Wyandotte eggs. Ginette & Ginette, White Wyandotte eggs. Shedd Realty Investment Co., wanted. P. A. Peterson, Leghorn eggs. T. K. Tomson & Sons, Shorthorn sale. Truman's Pioneer Stud Farm, stallion sale. J. C. Bostwick, White Rock eggs. E. L. Rice, Percheron stallion. E. Holtzschue, Partridge Cochins. Scientific Farmer, newspaper. Bentley & Olmsted, Buffalo Calf shoes. Newton Remedy Co., heaves. Mrs. W. J. Grist, Leghorn eggs. Harry Leonard, barb-wire liniment. D. N. Hill, Barred Rock eggs. Bing Burned Co., Kerosene lamps. W. Wyatt Mfg. Co., Jay Hawk stacker. Lowe Bros. Co., high-standard paints. L. D. Speenburgh, farm bargains. Auto-Fedan Hay Press Co., hay presses. Aspinwall Mfg. Co., potato machinery. Farmers' Cooperative Shipping Association, annual meeting. H. F. Brueggeman, White Wyandottes. Empire Cream Separator Co., separators. J. H. Brown, White Wyandottes. A. B. Heath, farm for sale. Int. Stock Food Co., stock food. Manhattan Realty Co., homes in Manhattan.

Valuable Silage Book Free.

We are advised by the publishers, The Silver Manufacturing Co., Salem, Ohio, that they will send a free copy of their new book "Modern Silage Methods" to all who will write for it and mention THE KANSAS FARMER.

This book is an authority on the subject—many Agricultural Colleges are using it as text book in teaching. It contains 216 pages, with 40 illustrations, is of library size and well indexed—a mine of information for those interested.

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A safe, speedy and positive cure. The safest, Best BLISTER ever used. Removes all bunches from Horses. Impossible to produce scar or bluish. Send for descriptive circulars.

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I will send a full pint of Beardslee's Guaranteed Gall Cure postpaid to any part of the United States for 50 cents, with a guarantee to cure or money returned. Also other valuable information to horse owners free.

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Stock Interests

LIVE STOCK REPRESENTATIVES.

C. E. SHAFER.....Northern Territory
L. K. LEWIS.....Southern Territory

PURE-BRED STOCK SALES.

March 15, 1907—Registered Hereford cattle, G. B. Little, Olathe, Kan.
March 15, 1907—Dispersion sale of Poland-Chinas, Russell French, Salem, Neb.
March 21, 1907—Kilderlawn Shorthorns at Manhattan, Kan., T. K. Tomson & Sons, Dover, Kan.
March 23-27, 1907—Herefords at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.
March 27, 1907—Truman Bros., Kansas City, Mo., Shire and Percheron Stallions
March 28-29, 1907—Shorthorns at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.
April 3, 4 and 5, 1907—Herefords, Aberdeen-Angus and Shorthorns, Kansas City, Mo., W. C. McGavock, Mgr., Springfield, Ill.
April 13, 1907—Shorthorn cattle, Annual sale of S. E. Kansas Stock Breeders' Association at Fredonia, Kan., H. M. Hill, Mgr.
April 16, 17, 18, 1907—All beef breeds at South Omaha, Neb., D. R. Mills, Mgr., Des Moines, Iowa.
April 19, 1907—John McCoy & Son, Seneca, Kan., Shorthorns.
May 1, 2 and 3, 1907—Aberdeen-Angus, Shorthorns and Herefords, South Omaha, Neb., W. C. McGavock, Mgr., Springfield, Ill.
May 14, 15, 16, 1907—All beef breeds at Sioux City, Iowa, D. R. Mills, Mgr., Des Moines, Iowa.
October 16, 1907—Ford Skeen, Auburn, Nebraska Duroc-Jerseys.

Fundamental Principles in Breeding and Feeding Swine.

PROF. GEO. C. WHEELER, BEFORE THE KANSAS IMPROVED STOCK BREEDERS' ASSOCIATION.

It gives me great pleasure to meet with you on this occasion, and I am sure we will find something interesting to all in our discussion of this subject of the fundamental principles underlying the profitable growing and production of pork. It is a subject in which practically every farmer of Kansas is vitally interested, whether he be a breeder or simply a producer of market hogs.

The oft-repeated quotation that "The hog is the mortgage-lifter" was never more true than at the present time. There is no animal kept on our farms which will so surely and quickly return us a profit upon feed consumed and care given as the humble and lowly hog.

The history of the swine husbandry and the United States is one of the most interesting features of our livestock development. The hog population of the United States for 1905, was over 52,000,000, 62½ per cent of which was credited to ten States, all with the exception of Georgia and Texas being centrally grouped in what is commonly known as our corn-belt district. In other words, the bulk of our pork is produced in our great corn States of the Central West. In fact we may almost say, that the hog has made possible the development of this section of our country.

In the short time at our disposal, it will be possible to touch but briefly upon the various breeding and feeding problems which underlie this great industry. The type of hog grown is of course, an important factor in the problem. We are all strong for an animal which shall have the utility feature strongly developed. We want a hog which will fill the market requirements and which can turn the greatest amount of corn and other farm-grown feeds, into pork at the lowest possible cost.

There is no domestic animal which adapts itself so readily to changed conditions and environments as the hog. The animal of the present day has been gradually evolved by selection and methods of feeding and care until we have a smooth, symmetrical, compact type, with the early-maturing and fattening character highly developed.

Our various breeds have been developed and refined, and we have black hogs, white hogs, and red hogs; hogs with erect ears, hogs with drooping ears, and various other fancy breed characters, which all are of value in far as they determine breed character, but of no value from a strictly market standpoint. The farmer's hog may be any of these, and there are breeds enough to fill the personal tastes and preferences of all, while from the market standpoint many of the strictly breed characters have no value. But there are some few characters which all must have, and I am going to mention one or two of the most important.

In order to be highly profitable the

"I had a colt cut on barbed wire fence - my sheep were alive with ticks"



"I mixed one part Dipolene with one part sweet oil and the oil did well." The sheep I bought and they were alive with ticks. I dipped them in Dipolene and could not find a live tick on them soon after. One of them was full of maggots. I dipped it twice and that ended the maggots. Dipolene certainly gives excellent satisfaction. I use it for pretty nearly everything and would not be without it. I don't think a man that has any stock around him can afford to be without it."

Cushing, Ia. C. B. DANIELS.

Read the last two sentences of this letter again. He uses Dipolene for "pretty nearly everything"—that means Dipolene is more than a dip—it's a remedy that has a wide range of usefulness on the farm—it's something above the ordinary. That's why he says "no man with stock can afford to be without it"—and we just want the privilege of convincing you that Dipolene is one of the best friends the farmer and stockman can have at hand.

Dipolene is a pure coal tar preparation for the cure and prevention of disease among farm stock and also for ridding them of all animal pests.

When we say pure—we guarantee it. If you'd keep it 20 years it would be just as clear, free from sediment, and as effective as the day it was purchased. Its purity is proof of its quality—there's none "just as good."

It's non-poisonous—that means there's no danger in its general use even if stock take it internally.

What it is good for—"nearly everything," as Mr. Daniels says and he said it from experience.

It is especially good for Scab, Mange, Eczema, etc., it kills lice on hogs, poultry and cattle, sheep ticks, maggots, fleas, mites, etc., and does it in a minute. It works so quick that it has been termed the "one minute stock dip."

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Its greatest value is found in its preventive qualities because it no doubt has saved hundreds of thousands of dollars for farmers and stock raisers by preventing the spreading of contagious diseases. Disease can't get a foothold where Dipolene is used. A few cents worth occasionally sprinkled in the pens, troughs, sheds, barns, etc., provides the best safeguard and insurance against disease a farmer can procure.

Why take chances? You can't tell when disease is going to break out in your hogs, sheep or cattle. You can stop it—you can prevent it with Dipolene.

Suppose you send for a can of Dipolene on our free trial offer, and be prepared. You've nothing to risk in doing so—we take all that—here's the offer that per-

mits you to test Dipolene at our expense if it is not what we claim.

30 DAYS FREE TRIAL OFFER

Buy a can of Dipolene from your dealer. If he does not handle it then send to us direct—we pay the freight. Try it 30 days and if not as represented, send it back at our expense. All dealers have authority to make this liberal offer. Accept no substitute—there's none "just as good."

Isn't that fair? Let us send you our "Budget of Real Letters" telling of the experiences of many more users like Mr. Daniels for many other diseases.

If you need a tank our Improved Dipping Tank will give you more service and value than you can get for same money.

Made of No. 20 galvanized steel and so constructed as to prevent drowning. See round back. Ordinary tanks have square back—see dotted line. Animal slides in—can't fall in or turn over. Equipped with ladder. A durable and most satisfactory tank. Sold by dealers or sent direct, freight paid.

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farmer's market hog must, first of all, have a great store of inherited vitality and vigor. Any inherited tendencies to constitutional weakness of any kind will be fatal to the most profitable results. The animal must transform a large amount of material into a marketable produce in a very short period of time, and any weakness or lack of vitality and vigor would result in a breaking down of the animal, and a failure to carry out to a profitable consummation its purpose in life. This coupled with a lack of fecundity in the breeding sows is the commonest cause of complaint among our swine-breeders and farmers.

The strong, vigorous sow, producing and successfully raising seven or eight pigs at a litter, is more than double the value of the sow which will produce and raise but four. It is a fixed law in breeding that certain characters are in a way correlated. For example, the most highly developed beef-cow is seldom a heavy milker, and again the light milker is not so sure and regular a breeder. Nature seems to limit the production of offspring by the ability to nourish and care for that offspring.

The man who in selecting his brood-sows always picks for the smoothest and chubbiest of the lot is most surely reducing the fecundity of his herd. The character of early fattening and quick maturity seems to be in a measure opposed to great prolificacy, and if we constantly select with that one character only in view, we may develop a very refined, quick-maturing type, in doing it have so reduced the powers of reproduction as to make the product unprofitable. In order to overcome this tendency, great care should be exercised in the selection of the brood-sows for the following year. Go carefully over the old sows and discard those which have produced the small litters, the ones which have been such poor sucklers as to be unable to raise a good litter of pigs—the cross, nervous sows which are always getting excited and killing their pigs.

Some which have been good mothers may be getting old and careless, and it is best to discard them. A tried brood-sow which has fulfilled all the above requirements is worth keeping for several years, or as long as she continues to be profitable. In the selection of the gilts study first the dams, giving the preference to those from large, even litters, and from mothers having the desired qualities. It is well to look to the breeding of the sire, for, while the boar probably has but little influence upon the number of pigs per litter of his immediate offspring, a sire of large litter would be likely to transmit that character to his female offspring.

Throw out the short, chunky gilts,

those having contracted heart-girth or narrow between the eyes. The gilt most likely to make a good brood-sow will be well developed and vigorous, broad between the eyes, having good heart-girth, with fair length and good depth of body, and standing on strong legs and feet. With such methods as these in the selection of breeding stock, coupled with rational care in their feeding and management, we would hear far less complaint of the sort so common.

The average farmer when he finds his breeding herd in this condition usually turns to some other breed or begins crossing with other breeds. Very often he secures a market hog which is highly satisfactory. Crosses between pure breeds produce exceptionally good market animals in many cases, and the man making the cross thinks he has solved the problem. The trouble is, however, that these cross-bred animals are the worst of mongrels when it comes to breeding and constant use must be made of pure-bred animals in order to produce the market animal. The same results could be obtained by using a little care and attention in the mating of the animals of the one breed.

Two many of our pure breeds have been injured by too much purposeless inbreeding. Inbreeding has for its only excuse the fact that the breeders all want to have as much of the blood of certain prize-winning and popular individuals in their herds. It is really quite difficult in some of our breeds to secure animals which are not quite closely related. Inbreeding and linebreeding, in the hands of a breeder who knows his animals thoroughly, has been of great value many times in fixing desired characteristics, but the farmer pork-producer had better steer clear of it.

In connection with carelessness in the selection and maturing of breeding stock, the average farmer probably errs as often in the kind of feed and care which he gives his brood-sows and young growing stock, as in any one particular. Corn is the great fattening feed and has made possible this great development of the pork industry in our corn-belt States, but we can not keep up the vigor and vitality of our breeding animals if we feed continually on corn.

It is so easy to throw out a few scoops of corn to the bunch of brood-sows, and it is the way many of them are fed. The brood-sow must be looked upon as a pig factory, and the pig is a bundle of protein as it were. The sow developing a litter of pigs must have this protein supplied in her food; her system fairly craves it, and she ravenously devours the chance flesh or carcass

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No More Blind Horses. For Specific Ophthalmia, Moon Blindness and other Sore Eyes. BARRY Co, Iowa City, Ia. Have a cure,

which comes her way. The few wisps of alfalfa or clover hay falling from the load are eagerly licked, and if she is allowed to go to farrowing time undergoing this protein starvation, she is feverish and constipated, and the condition are all there to produce a pig-eating sow. Even if this does not occur, the pigs are lacking in vigor and vitality and oftentimes the mother does not have a proper supply of milk.

When the brood-sows have been selected in the fall, they should be placed apart from fattening hogs. It is not necessary to have the brood-sow in a poor condition of flesh; in fact it is not desirable, but it must not be a corn fat. The sow which receives all the alfalfa hay that she will eat, with a small amount of grain, is almost certain to farrow a strong, lusty litter of pigs. Exercise should be encouraged, in fact compelled. If not taken voluntarily the feeding should be so planned as to induce the sows to take a reasonable amount of exercise. If alfalfa or clover hay is not available to supply the protein required recourse must be had to oil-meal, bran, tankage, and other concentrated protein feeds. The brood-sows should have pasture as long as possible, it is absolutely essential to their health. They should never be allowed to run after cattle.

If brood-sows are selected and fed in the manner above described, we will soon hear less of the general complaint that our hogs are run out, and do not produce large enough litters. We will also hear less of the cross-breeding of swine to correct some of the evils so common at present.

In feeding swine for market the whole structure must have as its foundation the brood-sow. With proper methods here the feeder will have strong, lusty pigs to begin with. By growing them on pasture as much as possible, they will remain strong and vigorous, and when the time comes for the final fattening of corn, he will have an animal with strong powers of digestion and assimilation, and capable of withstanding heavy forced feeding without developing any form of constitutional weakness.

As to detail in the matter of feeding, little may be said in the short time allotted to this subject. It has already been said that corn is the foundation of the swine industry, and it follows that corn is the main feed in the production of pork, or at least in finishing it for market. The fattening animal requires certain nutrient material in very definite amounts, and if the ration is deficient in any respect, the gains will not be so profitable. Straight corn is not the best ration for making most economical gains. The addition of eight to ten per cent tankage or meat-meal, even at \$2.00 per hundred, will make larger gains and more economical gains. This has been clearly shown by numerous experiments.

In the foregoing discussion I have had little to say directly to the breeders of pure-bred swine. They are the men who should pay the most attention to these matters, for it is to them that the farmer feeder looks for his improved animals. They must produce types which will meet the utility demand, and I maintain that the breeders of hogs must never allow this fact to be obscured by any non-essential matter pertaining to the various breeds. There is really no war between the breeds. All are, or should be, wanted in the general campaign against the scrub, wherever he may be found.

Under What Conditions May Cottonseed-Meal, Oil-Meal, and Gluten-Meal Be Fed with Profit?

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It frequently happens that the cattle-feeder does not have alfalfa or clover hay to use as roughage in fattening cattle, and must depend upon timothy hay, corn-stover, or straw. In such instances it becomes a pertinent question whether or not it will pay to purchase nitrogenous concentrated feeds such as oil-meal, cottonseed-meal, or gluten-meal to add to the ration in order to partially or wholly balance it. In presenting the results of the following test the writer be-

lieves that conclusive evidence is available that it does pay. This test was conducted at the Illinois Experiment Station the winter of 1902-03. During this time prices for feeds and cattle were extremely high, and in order to make this test illustrate the principle involved in this discussion the price of cattle and feeds are reduced to as nearly a normal basis as it is possible to make them. The cattle used were grade Shorthorns, but of a rather low grade. On the market they graded from medium to good feeders, weighing about 970 pounds each. Ordinarily such feeders can be secured in the fall of the year for \$3.80 per hundredweight delivered in the feed-lots. The cattle used in this test were here figured at this price. Feeds used were charged at the following prices:

Shelled corn, 35 cents per bushel; gluten-meal, \$29 per ton; timothy hay, \$10 per ton; and corn-stover at \$4 per ton. There were twelve steers in each lot, one of which was fed a ration of shelled corn, timothy hay, and corn-stover; the other, shelled corn, gluten-meal, timothy hay, and corn-stover. From this it will be seen that no nitrogenous roughage like clover hay was used. Results follow:

DISBURSEMENTS.			
Corn, Timothy Hay, and Corn-Stover Lot.			
To 12 steers, 11,610 lbs. at \$3.80			
per cwt.	\$441.18		
To 228.7 bu. corn at 35c per bu.	78.99		
To 7.59 tons corn-and-corn-meal			
at \$11.44 per ton.	86.83		
To .41 ton cornmeal at \$13.34			
per ton.	5.47		
To 5.37 tons timothy hay at \$10			
per ton.	53.70		
To 3.17 tons corn-stover at \$4			
per ton.	12.68		
Expense of feeding in holding			
last week.	13.57		
Freight, Champaign to Chicago,			
commission for selling, and			
other expenses.	30.00		
Total disbursements.	\$722.42		

RECEIPTS.			
12 steers, 14,063.04 lbs. at \$5.35			
per cwt.	\$752.37		
482 lbs. pork at \$5 per cwt.	24.10		
Total receipts.	\$776.47		
Total disbursements, \$722.42; profit			
on 12 steers, \$54.05; profit per steer,			
\$4.50.			

DISBURSEMENTS.			
Corn, Gluten-Meal, Timothy Hay, Corn-Stover Lot.			
To 12 steers, 11,702 lbs. at \$3.80			
per cwt.	\$444.68		
To 138.27 bu. corn at 35c per bu.	48.39		
To 0.64 ton cornmeal at \$13.34			
per ton.	8.54		
To 6.62 tons corn-and-cob-meal			
at \$11.44 per ton.	75.73		
To 2.09 tons gluten-meal at \$29			
per ton.	60.61		
To 5.96 tons timothy hay at \$10			
per ton.	59.60		
To 3.18 tons corn-stover at \$4			
per ton.	12.72		
Expense of feed in holding last			
week.	15.42		
Freight, Champaign to Chicago,			
commission for selling and			
other expenses.	30.00		
Total disbursements.	\$755.69		

RECEIPTS.

Total disbursements, \$755.69; profit on 12 steers, \$128.45; profit per steer, \$10.70.

The foregoing financial statement clearly shows that in this test where corn was fed with timothy hay and corn-stover there was a marked advantage in the feeding of gluten-meal. Similar results would have followed the use of oil-meal or cottonseed-meal in the ration. The results are so striking that it leaves little doubt as to the advisability of purchasing these concentrated feeds where alfalfa, clover hay, or cow-pea hay are not available as a supplement to corn for cattle-feeding.

Kansas Veterinarians.

Following are the officers of the Kansas State Veterinary Medical Association: President, Dr. Geo. Pritchard, Topeka; treasurer, Dr. W. T. King, Olathe; secretary, Dr. Hugh S. Maxwell, Salina; vice-president, Dr. G. C. Furnish, Hiawatha; second vice-president, Dr. O. O. Wolf, Ottawa; third vice-president, Dr. L. H. Thurston, Girard; fourth vice-president, Dr. J. H. Hannah, Burlington; fifth vice-president, Dr. Ed. Makins, Abilene; sixth vice-president, Dr. F. W. Cook, Hutchinson; seventh vice-president, Dr. C. W. Hobbs, Smith Center. Board of directors, Dr. D. O. Knisely, Topeka; Dr. T. W. Hadley, Kansas City; Dr. C. B. McClelland, Lawrence.

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The Watson, Woods Bros. & Kelly Sale.

The annual sale of imported draft stallions made by Watson, Woods Bros. & Kelly, on February 26 and 27, at Lincoln, Neb., resulted in a fairly satisfactory manner, although for a time it seemed that they offered too many good horses, and each buyer seemed to pick on a separate horse so that there was comparatively little competition after the first twelve or fifteen head had been sold. Including some sales made after the close of the public sale, every horse in their offering was disposed of. Some of the sales look small on paper for imported animals but, taken as a whole, the sale seemed to be fairly satisfactory. Watson, Woods Bros. & Kelly have not emptied their stables to make this sale. They still have 45 head of imported Percherons, Shires, Belgians and Coachers and will be able to supply all their customers with good horses at reasonable prices.

The sales were as follows:

PERCHERONS.	
Coureur, J. R. Maynes, Hender-	
son, Ia.	\$1,300
Charmant, Jacob Ridiger, Jr., Sut-	
ton, Neb.	1,400
Gingale, Chas. Williams, Sr.,	
Cedar Bluff, Neb.	1,600
Michel, M. Schmitt, Pine Ridge,	
South Dakota.	1,130
Ventriloque, Von Seggern & Kel-	
so, Wisner, Neb.	3,000
Mirobolant, Graves Bros., Bea-	
trice, Neb.	1,000
Grivois, John C. Marlow, Lan-	
caster, Wis.	1,300
Forestier, Ora Haley, Laramie,	
Wyo.	1,000
Etudiant, Ora Haley.	1,150
Bengali, Ora Haley.	1,150
Scipion, A. J. Clark, Victor, Ia.	1,100
Major, F. J. Huron, Howells,	
Neb.	1,225
Armand, Hugh Elliott, Beatrice,	
Neb.	1,000
Rolly, Jacob Wurnsman, Cedar	
Bluffs, Neb.	1,250
Ephese, Grasham Horse Co., Gras-	
ham, Neb.	1,400

MARES AND FILLIES.	
Esther, W. H. Kerr, Bennington,	
Neb.	\$440
Wylda, W. H. Kerr.	300
Alice and Ruth, Jas. Barr, Rock,	
Neb.	510

SHIRES.	
Good Morning, E. B. Hess, Brooks,	
Ia.	\$1,900
Rangland II, Best Brothers, Shel-	
by, Ia.	1,280
Flag of Truce, Geo. Schurr,	
Stahan, Ia.	1,600
Nailstone Luke, C. M. Folett, Mal-	
venr, Ia.	1,000
Nailstone Desert Chief, A. O.	
Strong, Orient, Ia.	700
Desford Lad, Joseph Ruby, Thur-	
man, Colo.	1,200
Medborn Plunger, Ora Haley.	1,000
Tom's Drayman, Lem Moats, Gene-	
va, Neb.	1,500

GERMAN COACHERS.	
Wankebach, J. C. Rogers, Ord,	
Neb.	\$1,000

Hutchinson Sale of Shorthorns.

Although the weather was very unfavorable, the Shorthorn sale held at Hutchinson, Kans., Feb. 27, was a decided success. This was the second day's sale in the series, a very successful sale of Herefords being held on the 26th. These are the first sales of this kind to be held at Hutchinson, and to A. L. Sponser, manager, can be attributed much of the success.

Some of the best Shorthorn herds in the country were drawn on for this consignment, which was contributed by the following well known breeders: Charles E. Leonard & Sons, Bellair, Mo.; L. Sponser, Hutchinson, Mo.; A. L. Sponser, Hutchinson, Mo.; Colonel Green, Florence, Kans.; H. M. Hill, LaFontaine, Kans.; L. S. Kent, Hutchinson, Kans.; J. W. Carnes, Burrton, Kans.; C. W. Peckham, Haven, Kans.; and J. L. Martin, Hutchinson, Kans.

The top of the sale was the fine 2-year-old bull Ravenwood Grand Count, (by Lavender Viscount 124755, bred by C. E. Leonard & Son, of Bellair, Mo.) which was bought by Wm. Henn, of Kansas City, Mo., for \$300.

The general average on 35 head was \$107.40.

Forty-four bulls averaged \$134.45 per head. Twenty-one cows made an average of \$89.40.

The total amount received for the

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was \$1,882.50 and the total for was \$1,877.50, making a grand total of \$3,760.00. This offering was a trial one, both in breeding and in individuality, which was appreciated by the buyers. An association, to be known as the South-Western Kansas Live Stock Association was organized to promote the live stock interests in that part of the State, of which A. L. Boller was elected president, R. L. Edwards, vice-president, and Col. L. S. Edwards, secretary-treasurer. It was decided to hold these sales annually, the next one to be held in February 1908. Following is a list of the sales:

Countess Rosamond, Dr. Stewart, Hutchinson. \$150.00
 Lavender Rose 3d, J. W. Comes, Burrton. 150.00
 Ravenswood Grand Count, Wm. Henn, Kansas City, Mo. 300.00
 Lina's Count, Wm. Henn. 200.00
 Golden Count 2d, Wm. Henn. 115.00
 Lady Sale Crown, J. W. Comes. 65.00
 Lora's Pet, J. W. Comes. 255.00
 Rosalie, J. W. Comes. 170.00
 Scotch Sybil 21738, Dr. Stewart. 200.00
 Yeamore Daffodil, J. W. Comes. 110.00
 Yeamore Daffodil 2d, Dr. Stewart. 75.00
 Round Aberdeen, E. A. Cooper, Castleton. 125.00
 Night's Graceful, J. W. Comes. 65.00
 Empress Aberdeen, B. A. Sidnor, Mullenville. 142.50
 Len Rosabelle, A. Comstock, Hutchinson. 70.00
 Phyllis, S. B. Miller, Hutchinson. 52.50
 Autumn Lady of Hillcroft, J. L. Martin, Hutchinson. 50.00
 Rose of Hillcroft 2d, G. O. Claypool, Nickerson. 60.00
 Phyllis, L. Bowser, Darlow. 77.50
 Hillcroft's Sweet Violet, C. W. Peckham, Haven. 50.00
 Rose of Hillcroft, J. W. Comes. 60.00
 Lady of Hillcroft 2d, G. O. Claypool. 57.50
 Rose of Hillcroft 3d, Lem Bowser. 60.00
 Hillcroft's Count 2d, E. M. Zimmerman, Castleton. 52.50
 Range Minister 242274, Jas. Heston, Sterling. 250.00
 Exall, C. W. Peckham. 130.00
 Alma, C. W. Peckham. 37.50
 Duchess Mayor, J. L. Martin. 10.00
 The Fifth Maid, J. L. Martin. 72.50
 Old Belt 268399, J. J. Coffman, Pretty Prairie. 60.00
 Duke of the Cedar 249022, E. F. Stanford, Hutchinson. 52.50
 One Star 266478, A. Comstock. 25.00
 Bates 237051, Wm. Haskell, Haven. 40.00
 W. J. W. Comes. 100.00
 Wm. Henn. 95.00
 Golden Count, Wm. Henn. 100.00
 Annie, C. W. Peckham. 57.50
 Range Pride, R. A. Cheeder, Hutchinson. 42.50
 Cervera, W. D. Kennedy. \$57.00
 The Hero, J. K. Smith, Arkansas City. 50.00

The Bollin and Aaron Sale.

On Monday, February 25, John Bollin and Gus Aaron, the Poland-China breeders of Leavenworth, Kans., held their annual sale, and while the results obtained were not record breaking, the sale was a good one. The prices ranged very even and the average was high enough to show a nice margin of profit on the sows and pigs offered. There were no sensation sales, the highest price was \$140 paid by Leon Calhoun, of Potter, Kans., for the Perfection E L sow, I Know, and to Nemo L's Dude. The sow pig, also went to M. R. Calhoun for \$10. It was a bargain day for the buyers, and the good work of auctioneers Burger, Sparks, and Snyder, added to the quality of the hogs offered, and made the sale the success that it was. The sales were as follows:

BOLLIN'S CONSIGNMENT.

Oakwood Belle, E. E. Axline, Oak Grove, Mo. \$75.00
 Perfect Lady, J. R. Pfander, Gravity, Ia. 85.00
 Lady Perfection 2d, Chas. Kolterman, Onaga. 36.00
 Magic, Leon Calhoun, Potter. 100.00
 Silky, O. N. Thorsen, Everest. 38.00
 Slick Lady, C. B. Duncan, Camden Point, Mo. 36.00
 Fancy, Ecton Bros., Liberty, Mo. 41.00
 Proud's Lady, C. O. Timple, Fontanelle, Neb. 50.00
 Shine On, W. J. Honeyman, Madison. 30.00
 Nellie Picket, P. L. Ware & Son, Paola. 37.50
 Pet Keep On, Chas. Kolterman. 48.00
 Picket's Maid, Jno. Carr, Basehor. 35.00
 Lady Mascot, Howard Reed, Frankfort. 45.00
 Guaranty, E. Daniels, Leavenworth. 36.00
 Picket's Lass, C. B. Duncan. 31.00
 Superb Lady, M. M. Gallagher, Easton. 35.00
 Litter sister to No. 19, H. C. Duncan, Kickapoo. 35.00
 Lady C. M. M. Gallagher. 37.00
 W. A. Braner, Basehor. 35.00

AARON'S CONSIGNMENT.

I Know, Leon Calhoun. 140.00
 Truce Flag, R. E. Maupin, Attonburg, Mo. 75.00
 Right Promise, A. C. Lanham, Battle Creek, Ia. 65.00
 Bright Jewell, H. C. Lanham, Bethany, Neb. 70.00
 Lady Darkness, C. P. Brown, Whiting. 52.00
 Perfect Darkness, B. P. Smith, Langford. 56.00
 Lady Dude, H. C. Snyder, Higginsville, Mo. 40.00
 A's Beauty 2d, H. L. Brewster, Hanes, Mo. 55.00
 On's Roseland, F. D. Winn, Randolph, Mo. 94.00
 Good Style, F. A. Dawley, Valdo. 71.00
 Darkness Crescent, S. A. Wolf, Keystone, Mo. 42.00
 Pleasant Hill, Mo. 71.00
 L. Pet 2d, W. J. Honeyman. 99.00

38. Leo's Fancy, J. E. Daniels. 35.00
 39. Roller Trust's Daughter, Jas. Mains, Oskaloosa. 50.00
 40. Corrector's Model, J. H. Hastings, Edgerton. 50.00
 41. Missouri Favorite, J. W. Henninger, Potter. 40.00
 42. Susie M's Best 2d, J. L. Darst, Huron. 34.00
 43. Superior Darkness, Geo. Perry, Kickapoo. 28.00
 44. Keep On Lass, J. W. Henninger. 29.00
 45. Nellie's Picket, E. E. Axline. 34.00
 46. Darkness Belle, Leon Calhoun. 60.00
 47. Belle Darkness, Dietrich & Spaulding, Richmond. 45.00
 48. Truce Flag 2d, J. M. Ross, Valley Falls. 37.00

SUMMARY.

24. Aaron's consignment average. 51.92
 21. Bollin's consignment average. 50.02
 45. Bred sows and gilts average. 51.03

Sale of Herefords at Hutchinson.

The combination sale of Hereford cattle held at Hutchinson, Kans., Feb. 26, with J. A. Larson as manager, was a success, and made the highest average of any Hereford sale held in this part of the State during the past twelve months. The offering was an exceptional strong one with not a poor animal in it. It consisted of 15 young bulls (most of them yearlings) and 13 young cows and heifers.

Breeding and individuality was of the best and stuff brought fair prices. The average for bulls was \$113.50 and for cows \$77.00. The total amount received for the 28 head was \$2,705.00.

The contributors to this sale were the well known breeders, L. P. Larson, of Powhattan, Kans., F. O. Grubbs, Whiting, Kans., J. A. Larson, Everest, Kans., and Jas. W. Freeland, Horton, Kans.

As breeders these gentlemen have every reason to be proud of the quality of the animals sold. The sale successfully demonstrated, that it pays to offer only the best and to have them properly fitted for the sale ring, although the prices received were not what they should have been for this class of stuff. The quality of the offering was an advertisement for the consignors.

A list of the sales follows:

BULLS.

Beau Royal 2d, 238287, Wm. Henn, Kansas City, Mo. \$100.00
 Calvin 234067, Wm. Henn. 110.00
 Hannibal 234070, M. Lidey. 150.00
 Horace 221984, Wm. Henn. 150.00
 Keep On 34th, 142503, J. H. Elward, Castleton. 130.00
 Leander 234072, Wm. Henn. 105.00
 Louis 234043, E. F. Murray, Hutchinson. 100.00
 Minier 234076, Wm. Henn. 110.00
 Monarch 15th, 228497, Wm. Henn. 77.50
 Monarch 16th, 228499, Wm. Henn. 80.00
 Monarch Jr. 238291, J. F. Smith, Castleton. 100.00
 Napoleon 234077, Wm. Henn. 175.00
 Plainview Hesiod 25th, 220262, Wm. Henn. 110.00
 Queen's Monarch 233119, P. O. Halloran. 100.00
 Weston 212407, R. A. Elward, Castleton. 110.00

COWS.

Bess 189320, E. F. Murray. 80.00
 Coroline 222472, E. F. Murray. 65.00
 Columbine 188202, E. F. Murray. 75.00
 Cute Lass 208769, E. C. Wellman, Sterling. 65.00
 Daisy 208767, J. W. Dawson, Nickerson. 92.50
 Lady Columbus 29th, 125896, J. A. Larson, Everest. 70.00
 Lady Improver 183923, E. F. Murray. 90.00
 Lady Whitney 122336, E. F. Murray. 87.50
 Marie 221981, E. F. Murray. 80.00
 Mayflower 221982, J. W. Dawson. 85.00
 Monica (Twin) 99243, E. F. Murray. 80.00
 Pauline 224097, E. F. Murray. 60.00
 Ruby, 150138, E. F. Murray. 80.00
 Bulls averaged. \$113.50
 Cows averaged. 77.00

Dietrich & Spaulding's Sale.

When everything is considered, Dietrich Spaulding of Richmond, Kans., made a very successful sale of Poland-China bred-sows at the Ottawa sale pavilion on February 23. This firm of breeders is an old one and has long been known for the high quality of the hogs in their herd. They generally have excellent sales but this time seemed to depend upon their past reputation to bring them business, and undertook to make the sale with out advertising. Their average of \$40.90 was entirely too low for the quality of the hogs consigned to the sale, and if the sale had been properly advertised there is no doubt but that the results would have been widely different. Comparatively few breeders were present and a considerable number of the hogs went to neighboring farmers. The top of the sale was No. 4 of the catalogue which went to T. T. Gentry, Guthrie, Okla., for 98.00. The prices throughout the sale ranged very even, and Colonels Sparks and Burger had the satisfaction of knowing that they got every dollar that was to be had from the crowd present.

The sales were as follows:

1. By Grand Perfection, J. M. Spaulding, Ottawa. \$45
 2. By Grand Perfection, Leon Calhoun, Potter. 50
 3. By Grand Perfection, P. L. Ware & Son, Paola. 36
 4. By Francis Perfection, T. T. Gentry, Guthrie, Okla. 98
 5. By Chief Perfection 2d, G. E. Lewis, Richmond. 75
 6. By Grand Perfection, A. M. Jordan, Alma. 50
 7. By Perfect I Know, A. J. Wood, Council Grove. 58
 8. By Meddler, W. J. Honeyman, Madison. 75
 9. By Cecil, Ed McDaniel, Parsons, Kans. 48
 11. By Prince Proud, W. J. Honeyman. 55
 12. By Prince Darkness, T. T. Gentry. 50
 14. By T. R.'s Sunshine, Geo. Haas, Lyons. 41
 15. By Cecil, Geo. Haas. 35
 17. By Cecil, G. G. Van Dresser, Ottawa. 36

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18. By U. C. Perfection, Lee Stanford, Lyons. 40
 19. By Grand Perfection, J. R. Kilgough & Sons, Ottawa. 41
 20. By Grand Perfection, A. L. Albright, Pomona. 38
 26. By Proud Sunshine, E. N. Chaterton, Colony. 30
 29. By Mo's Keep On, E. E. Axline, Oak Grove, Mo. 50
 31. By Designer, W. S. Corkhill, Baldwin. 39
 33. By Grand Perfection, W. A. McDonald, Baldwin. 33
 34. By Dietrich's Darkness, A. Sweasey, Olivette. 30
 36. By Perfect Mischief, H. Davidson, Waverly. 29
 38. By Mischief Meddler, Lon Whitaker, Quenomo. 29
 40. By U. C. Perfection, H. Kling, Ottawa. 30
 41. By Corrector Chief, Ed McDaniel. 50
 42. J. F. Hastings, Edgerton. 35
 47. C. J. Reed, Ottawa. 28
 52. T. S. Sweet, Ottawa. 31
 54. A. E. Whytal, Lane. 39
 55. W. P. Higdon, Richmond. 37

SUMMARY.
 46 sows, \$1,878.50; average. \$40.90

Cottingham & Sons' Eleventh Annual Sale.

In spite of the fact that the weather was at its worst February 27-28, Cottingham & Sons' eleventh annual sale was a decided success.

The sale was held two miles south of McPherson, at the big Cottingham farm, where there is an abundance of barn room to accommodate a large crowd. On the 27th the first day of the sale forty head of high grade horses and mules were sold at good prices. Twenty-eight head with only twelve horses broken in the bunch, and most of them only 2 and 3 years old, averaged \$148.50. One span of mules sold for \$410.00 and one for \$375. The total amount received for the horses and mules was \$5,200.

On the second day the weather conditions were so unfavorable the Short-horn sale was called off and only Poland-China hogs were sold these made an average of nearly \$27 per head.

On account of the cattle sale being called off, Cottingham & Sons have a number of good young Shorthorn bulls for sale, and they will be priced right, any one needing a pure-bred Shorthorn bull, should write or call at once for they won't last long.

Messrs Cottingham & Sons are constantly improving the quality of their stock, and they promise the public a still better offering at their twelfth annual sale next spring. They have recently placed at the head of their Shorthorn herd Scottish Secret 231954, a straight Cruickshank bull. He was bred to Hanna & Co of Howard, Kans., and was sired by Improver Collynie. His dam is Wistaria, by Royal Knight 117203. She is one of Mr. Hanna's best breeding cows and a great milker. They will have a number of Scottish Secret's get in their sale next spring.

Harvey County Breeders' Association Sale.

The combination sale of Poland-China hogs, Herefords and Shorthorn cattle and Percheron horses, held under the auspices of the Harvey County Breeders' Association was held as announced and attracted a good crowd of buyers.

The consignors were:—Percherons, J. H. Tangeman, H. W. Tangeman and L. E. Fife; Standard bred, Dr. J. T. AxteLL; Herefords, N. Molzen; Poland-Chinas, L. E. Fife, Dr. J. T. AxteLL, J. H. Becker, C. C. Lindamood, and G. D. Stratton & Son, Shorthorns, M. Wenger, J. Smith and J. Whiteacre.

The offering was a good one and well fitted for the salering, and everything considered brought good prices. The horses and hogs sold exceptionally well. The stallion Perfection, coming

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2 years old owned by H. W. Tangeman brought \$540. He was bought by Dick Brothers of Whitewater, Kans. The stallion Dixon, coming 3 years old sold to H. Lehrman, Goessell, Kans., for \$410, while the mares sold for from \$200 to \$400. The cattle sold low, but brought higher prices than some lots that have been sold in larger places, and with a bigger crowd of buyers.

Cols. L. S. Kent and L. E. Fife did the selling. The prices received are a credit to their ability as auctioneers. The sale was a success in every respect, and the Harvey County Breeders' Association can be proud of the results.

The Silver Creek Shorthorn Sale.

Owing to the crowded condition of our columns, the details of the sale of the Silver Creek Shorthorns made by J. F. Stodder of Burden, Kans., at Wichita were postponed. As the general average of this sale is pretty nearly double that of any other Shorthorn sale in that section of the country this season it is well worthy of record. Mr. S. C. Hanna, Howard, Kans., and Marshall, Brothers, of Burden, Kans., each consigned a few topy animals from their herds. The sale was conducted by Colonels Harriman, Sparks, and Brady, each of whom did excellent work. The details follow:

J. F. STODDER'S CONSIGNMENT FEMALES.

Red Lady 4th, by Prince of the But-
terfly's, H. M. Hill, Lafontaine... \$160
Queen of Heart's 2d, by Phyllis Boy,
T. K. Tomson & Son, Dover... 150
Firefly 2d, by Dare Devil, O. R.
Smith, Belle Plaine... 105
Victor's Rose by Victor of Wild-
wood, Clark Kincaid, Wichita... 135
Third Silver Creek Pansy, by Imp.
Aylesbury Duke, J. D. Brewster,
Belle Plaine... 115
Gwendoline's Queen, by Gwendoline
Prince, Chas. Caseman, Sedan... 140
Fourth Bright Eyes Princess, by
Imp. Aylesbury Duke, J. D. Brewster... 100
Mysie's Melvin, by Mysie Hero 2d,
A. L. Barner, Belle Plaine... 95
Lady Sharon, by Lord Thistle, C. E.
Clinger, Augusta... 75
Young Valentine, by Sommers Duke
A. L. Barner... 125
Beautiful Belle 6th, by Valiant, O.
R. Smith... 145
Victoria Ramona, by Victor of
Wildwood, E. C. Brewster... 75
Miss Goldie, by Joe Wheeler, Chas.
Caseman... 160
Fifth Bright Eyes Princess, by
Lord Thistle, A. L. Barner... 75
Royal Sonata Third, by Violet's
Baron Dudding, J. D. Brewster... 150

BULLS.

Royal Scott, by Imp. Aylesbury
Duke, J. P. Schermerhorn, Rifle
Colo... \$175
Valentine Duke, by Imp. Aylesbury
Duke, J. R. Ebert, Caldwell... 160
Silver Creek Thistle, by Lord Thistle,
Clark Kincaid... 125
Aylesbury Barrington, by Ayles-
bury Duke, J. B. Riggs, Matfield
Green... 140
Lord Filbert, by Lord Thistle, J. B.
Riggs... 135
Prince Thistle by Lord Thistle, W.
J. Beedles, Reece... 110
Bonny Thistle, by Lord Thistle,
Wm. Henn, Kansas City, Mo... 125
King Thistle, by Lord Thistle, F. H.
Hardesty, Hazelton... 65
Silver Thistle, by Lord Thistle, John
Kressl, El Dorado... 100
Corbin's Pride, by Orange Lad, Wm.
Stout, Udall... 115
Climax, by Imp. Aylesbury Duke,
A. E. Clingler... 70
Merry Lad, by Imp. Aylesbury
Duke, Wm. Henn... 100

HANNA'S CONSIGNMENT—COWS.

Queenly, by Imp. Collynie, H. M.
Hill... \$260
George Archer, by Captain Archer,
E. C. Brewster... 200
Josie Cowslip, by Imp. Lord Cow-
slip, H. M. Hill... 210
Colleen, by Imp. Collynie, A. L.
Barner... 155

BULLS.

New Years by Imp. Collynie, J. P.
Schermerhorn... 230
Golden Archer, by Imp. Collynie, J.
P. Schermerhorn... 200
Symmetrical, by Symmetry, E.
Stout, Udall... 175

MARSHALL BROS.' CONSIGNMENT—COWS.

Florence 2d, by 8th Waterloo Duke
of Kearney, H. M. Hill... 80
Fanny, by Lord Norton, J. D. Riggs... 80
Duchess Pansy, by 8th Waterloo
Duke of Kearney, Clark Kincaid... 80
Pansy, by Lord Norton, O. H. and
A. W. Roberts, Ponca City, Okla... 90

BULLS.

Spring Hill Valentine, by 8th Wa-
terloo Duke of Kearney, G. A.
Wilson, Wichita... 80
16 Bulls... \$2,105; average... \$131.56
24 Females... \$2,010; average... 125.50
40 Head... 5,115; average... 127.88

The Kansas City Hereford Sale.

Under the management of secretary C. R. Thomas of the American Hereford Breeders' Association, the two days sale of Hereford cattle at Kansas City on February 27-28 was a success. The cattle were all contributed by well known breeders and were in the finest condition. The crowd in attendance was a good one and Colonel Edmonson was at his best. The average was not as high as Herefords have made in this ring in years past but it was much better than sales this season have generally been. The top price of the sale was brought by Homeseeker, consigned by Gudgell & Simpson and sold to F. H. Stannard, Ottawa, Kans., for \$550. The sales were as follows:

BULLS.

Buford, F. M. Gittenger, Leon, Ia... \$75
King Oscar, N. Oschner & Co., Madison, Neb... 75
Monogram, J. A. Carpenter, Carbon-
dale... 100
Braddock, N. Oschner & Co... 80
Rex McDonald, N. Oschner & Co... 80
Homeseeker, F. H. Stannard, Otta-
wa... 550
Beau Boy, N. Oschner & Co... 70
Opdyke, Fred Miller, St. Marys,
Kans... 65

Beau Mansan, J. E. Summers... 195
Clifton Hill, Mo... 125
Bright Lad, John Gosling, Kansas
City, Mo... 85
Lincoln 43d, Will Henn, Kansas
City, Mo... 185
Othello, J. E. Rake, Richland... 155
Tacitus, C. W. Armour, Kansas
City, Mo... 95
Dromino, O. Harris, Harris, Mo... 150
Printer 2d, John Gosling Kansas
City, Mo... 85
Sir Knight, Will Henn, Kansas
City, Mo... 80
Dandy Andrew 9th, Fred Miller... 95
Charming Lad 16th, Fred Miller... 70
Glendale, Fred Miller... 50
Beau Clair, Fred Miller... 80
Sir Claude, Will Henn... 75
Royal Lad, N. Oschner & Co... 95
Tip Top, C. N. Moore, Lees Summit,
Mo... 130
Handsone Harry, J. C. Riddell,
Rossville, Mo... 160
Protocol 9th, John Gosling, Kan-
sas City, Mo... 95
Beau Leader, R. J. McAninch, Man-
hattan... 90
Commodore, N. Oschner & Co... 140
Simoon 16th, Will Henn... 80
Protocol 11th, John Gosling... 100
Lincoln 33d 358123, Norman
Oschner & Co., Madison, Neb... 65
Ambition 217323, Norman Oschner &
Co... 75
Tom 231769, Norman Oschner & Co... 100
Simeon 226894, N. Oschner & Co... 50
German Boy 209143, N. Oschner &
Co... 200
Protocol 10th 223685, J. G. Green,
Eldorado... 80
Beau Bright 202640, R. G. McAn-
inch, Manhattan... 200
Beau Delaware 259127, Scott &
March, Belton, Mo... 355
Dandy Andrew 6th 231956, Noah
Wills, Platt City, Mo... 100
Beau Cherry Boy 210733, J. E.
Rake, Richland, Kans... 85
Warwick 223260, M. Paronto, Law-
rence... 90
Lort Saxon 16th 228879, A. Lalou-
ette, Cedar Point... 135
Keep On 61st 228876, W. A. Ho-
ward, Comiskey... 90
Elector 218316, Jacob Hood & Son,
Perry, Ia... 70
Dupont 218315, Leon Doty,
Armour, Nebr... 75
Derby 232388, E. E. Monroe... 65
Frederick... 95
Goldfinder 226691, N. Oschner... 75
Don Q 25938, Ed. C. Weeks... 250
Eldon, Mo... 155
Hazard Brummel 223671, C. L.
Goodwin, Pleasant Hill, Mo... 80
Sir Henry 209004, L. B. Duff & Sons,
Norton... 75
Frank 228874, N. Oschner... 60
Adonis 228871, N. Oschner... 70
Benjamin, N. Oschner

FEMALES.

Lady Corrector and bull calf, A. L.
Miller, Platte City, Mo... 170
Blanca, J. A. Carpenter, Carbon-
dale... 170
Pamela Congreve, Ed Rice, Vine... 55
Marcel, L. R. Brady, Manhattan... 50
Princess Marie, J. W. Lennox, In-
dedendence, Mo... 70
Pricilla 10th, Est. W. W. Guthrie,
Atchison... 250
Pauline, Ed Rice... 180
Germania, J. A. Carpenter... 155
Lady Trixy, Fred Miller, St. Marys... 90
Angellina, O. Harris, Harris, Mo... 105
Dollie Brown, Ed Rice... 270
Miss Catherine 6th, S. J. Gabbert,
Dearborn, Mo... 225
Bright Lass 18th, Wallace & Rags-
dale, Kingsville, Mo... 165
Leola, Est. W. W. Guthrie... 85
Portia, Est. W. W. Guthrie... 75
Graceful, Est. W. W. Guthrie... 100
Buttercup, G. K. Cogswell, Castle-
ton... 90
Minnie B., G. K. Cogswell... 285
Capitola 29th, S. J. Gabbert, Dear-
born, Mo... 275
Dollie 8th, Est. W. W. Guthrie... 120
Miss Dandy Andrew, Est. W. W.
Guthrie... 95
Norma, Ed Rice... 95
Olive, G. K. Cogswell... 65
Royal Lass 5th, G. K. Cogswell... 65
Lornada, G. K. Cogswell... 75
Anna Pearl, Ed Rice... 90
Duchess, Jones Bros., Comiskey... 60
Lucille, G. K. Cogswell... 80
Rebecca 207188, E. E. Monroe... 65
Frederick... 65
Vesta 138350, J. C. B. Lansdown,
Lawrence... 50
Fay 244912, J. G. Spencer, Cottage
Hill, Mo... 175
Bonny Lucy 5th 249383, Est. W. W.
Guthrie, Atchison... 225
Blanche 36th 256949, Ed. C. Weeks,
Eldon, Mo... 90
Mandarin 3d 188239, Est. W. W.
Guthrie

SUMMARY.

52 bulls sold for \$5,875, average \$112.98
35 fems sold for \$4,070, average \$116.29
87 head sold for \$9,945, average \$114.31

Samuelson's Duroc-Jersey Sale.

At Bala, Kans., on February 27, Samuelson Brothers held a sale of Duroc-Jersey bred sows. The animals consigned to this sale were of excellent breeding, and went into the ring in fine shape. They deserved better prices than they brought, and failed of this solely because of the weather conditions. It rained practically all day, and consequently the crowd was small. There was but a limited number of breeders in attendance, but the farmers did nobly. The crowd was nicely entertained and pleased with the bargains they secured at this sale, and everybody voted the Samuelson Brothers to be first-class gentlemen as well as first-class breeders. As this is their first annual sale they will hope to do better in the future. The average on fifty head was \$35.30. The details of the sale are given herewith:

1. Sub. A. Anderson, Leonardville... \$28.00
2. A. H. Williams, Riley... 60.00

IMPORTANT PURE-BRED SALES NEXT WEEK.

March 14. Poland-Chinas, J. T. Ellerbeck and C. A. Lewis, Beatrice, Neb.
March 15. Hereford cattle, G. B. Little, Olathe, Kans.
March 16. Shorthorns at Hiawatha, D. E. Reber, Morrill, Kans.
March 16. Poland-Chinas, E. McDaniels, Parsons, Kans.

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6. Thos. Brooks, Manhattan...	43.00
7. A. H. Williams...	36.00
8. Mr. Howe, Garrison...	32.50
9. C. D. Lee, Riley...	32.50
10. Jas. Brooks, Garrison...	34.00
11. T. E. Gothe, Leonardville...	38.00
12. Thos. Brooks...	30.00
13. A. J. Johnson, Leonardville...	24.00
14. Albert Erickson, Leonard- ville...	29.00
15. Sub. James Brooks...	30.00
16. E. H. Erickson, Oldsburg...	55.00
17. J. H. Williams, Riley...	40.00
18. L. G. Reath, Manhattan...	36.00
19. Albert Erickson...	23.00
20. Ward Bros., Republic...	30.00
21. Thos. Jenkins, Leonardville...	27.00
22. C. D. Lee...	34.00
23. S. C. Miller, Leonardville...	23.00
24. M. O. Bergren, Leonardville...	33.00
25. P. Skow, Leonardville...	35.00
26. P. Skow...	40.00
27. O. Swedberg, Leonardville...	23.00
28. Jas. Colthart, Leonardville...	27.00
29. S. S. Smith, Clay Center...	27.00
30. P. Skow...	39.00
31. S. S. Smith...	70.00
32. R. F. Norton, Clay Center...	75.00
33. E. H. Erickson...	40.00
34. E. H. Erickson...	36.00
35. Carl Thompson, Garrison...	31.00
36. Henry Swartz, Leonardville...	36.00
37. Ward Bros...	29.00
38. R. Bohnenblust, Leonardville...	30.00
39. Herman Hades, Keats...	29.00
40. Chas. Howe...	31.00
41. Albert Erickson...	35.00
42. Jas. Colthart, Bala...	30.00
43. E. H. Erickson...	26.00
44. P. E. Olson, Leonardville...	35.00
45. J. E. Jones, Clyde...	30.00
46. John L. Johnson, Salina...	27.00
47. Herman Harbes...	28.00
48. P. E. Olson...	35.00
49. F. C. Miller, Leonardville...	25.00
50. Carl Thompson...	

March Asthma Conquered to Stay Cured. No Hay Fever This Summer.

New York, March 6.—Previous experiments have proven conclusively that asthma can be cured permanently and hay fever prevented if a course of Toxiclo treatment is taken during the months of March and April. During these spring months the entire system is more susceptible to treatment than any other season of the year. Toxiclo is the new discovery which gives quick relief and is pleasant to take. The Toxiclo Laboratory, 1269 Broadway, New York City, has generously offered to send a free trial of Toxiclo by mail to any sufferer who will send name and address.

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Agriculture

Seed-Corn Questions.

I am writing you for information in regard to seed-corn-sorters or graders. I have been using an ordinary farm fanning-mill for grading my seed-corn, but it is not an entire success. I thought perhaps you might be able to inform me of some machine that will sort or grade corn perfectly. How do you people grade your seed-corn? Is it done by machine or by hand? I know it can be done by hand for small quantities but for large lots it is too slow.

W. S. McAULEY.

Lyon County.

We select all of the seed-corn by hand which we plant on the Experiment Station farm. Our plan is to select the ears having kernels uniform in size and shape, and the tip and butt kernels are shelled from these ears, and usually the irregular shaped kernels are picked out before the corn is shelled for planting. In order to get uniform corn for planting, it is necessary to select ears which are alike in type. Of course there is some work in taking off the tip and butt kernels, but if the seed-ears are carefully selected, the tip and butt kernels are practically the only kernels which will be removed by sorting corn with a good grader. Where corn is not selected carefully and where the tip and butt kernels are not discarded before shelling the corn, a good grader is a very useful machine to use in order to secure a uniform type of kernels for planting.

We have an attachment to the Chatham fanning-mill which does very good work in grading corn. The Racine fanning-mill also has a good attachment for grading corn. One of these mills was given as a premium in the farmers' exhibit at the State Corn Show held here last January. The agent was on the grounds and demonstrated the use of the machine in grading corn. This demonstration was very satisfactory.

Several corn-sorters or graders are now sold. The addresses of the companies manufacturing the mills referred to, are as follows: M. Campbell Company, Detroit, Mich., manufacturers of the Chatham mill; and the Rock Island Implement Company, Rock Island, Ill., manufacturers of the Racine fanning-mill with corn-grading attachment. I can find only one manufacturer of corn-sorters in the buyer's guide, namely: Beall Implement Company, Decatur, Ill. A. M. TENEYCK.

Alfalfa in Southwestern Kansas.

I have 1,000 acres of smooth, almost level prairie land near Bear Creek, in northeastern Stanton County, Kansas. I would like to know if I can raise alfalfa on it and how best to proceed.

The soil is a chocolate color, some sand, deep, seventy feet to apparently unfailing water supply. Two hundred acres of this land have been in cultivation a few years.

Do you advise the preparation of the soil the year previous to sowing according to the Campbell system?

When would you sow the seed, how much per acre, and what variety? Is there a probability that I could induce the United States Department of Agriculture to make some experiments there?

J. F. McCLELLAND.

District 9, Indian Territory.

I have requested Director Burkett to mail you a copy of bulletin No. 134, regarding the seeding of alfalfa. Perhaps you can grow alfalfa in the section of the State named, although I doubt whether it will produce very profitable crops by dry-land farming, unless you have good bottomland. To be sure some alfalfa is being sown on the uplands in Western Kansas with some success. The alfalfa will probably live from year to year, but may not be very productive, the crop depending, of course, upon the amount of rainfall.

It is advisable to prepare a seed-bed several weeks or months before seeding in order that the soil may become well settled, accumulate moisture, and

get into a good physical condition for germinating the seed. It would be advisable in the extreme west to summer-fallow the year previous to seeding to alfalfa, thus securing two years' supply of moisture to start the crop, and also put the land in good physical condition by cultivation.

I would advise to sow in the spring, choosing a time when the soil is in a suitable condition for sprouting the seed. Sow about fifteen pounds of good alfalfa-seed per acre. The Turkestan alfalfa is considered a better drouth-resister and hardier for sowing in Western Kansas than the common alfalfa. However, little Turkestan alfalfa has yet been grown in this State, and pure seed of this variety is not easy to secure. F. Barteldes & Co., Lawrence, Kans., advertise seed of the Turkestan alfalfa, and you can also secure seed from Northrup, King & Co., Minneapolis, Minn. On the whole I would about as soon sow common alfalfa, preferring seed produced on dry land in the West, as to sow the Turkestan alfalfa.

For answer to your question regarding irrigation, I have referred your letter to Prof. L. E. Call, assistant in charge of the soil-physics department of this college. I would advise you also to write to Prof. E. C. Chilcott, Bureau of Plant Industry, Washington, D. C., with reference to undertaking experiments in Western Kansas, in co-operation with the Department of Agriculture.

A. M. TENEYCK.

In your description of your farm you say that it is level with a fairly retentive soil and seventy feet to apparently unfailing water supply. In the consideration of an irrigation system, the first step would be to test your water supply before placing an expensive irrigation outfit. If you were to irrigate alfalfa in Western Kansas you would likely apply water about three times to a depth of about three inches which would require 4,344,000 gallons of water for each application. To supply this water, pumping ten hours per day for thirty days, would require a pump of a capacity of 724 gallons per minute if none of the water was lost. As a pump never, or seldom, works up to its capacity, it would be necessary to figure on a pump throwing 1,000 gallons per minute. A centrifugal pump with an eight-inch suction pipe and a six-inch discharge would throw this amount of water. However, to operate this pump to draw water from a depth which you have to go, ninety to one hundred feet, would require at least a sixty-horsepower engine. This engine would consume in the neighborhood of two tons of coal in a ten-hour day, or sixty tons of coal for each irrigation, or 180 tons of coal each year, and at \$5 per ton would cost for each year's irrigation, \$900, not counting for labor of running the machine. A pump of this capacity would cost in the neighborhood of \$250. The price of a sixty-horsepower engine, I can not quote you.

As you say the land is fairly level, you could doubtless irrigate it from a central plant as I have described above and apply the water by flooding method, which is undoubtedly the most economical. When it is time to apply the water, the fields are divided into lots 60 to 120 feet wide, by parallel furrows made with a V-shaped plow, at a cost of about a dollar per acre under the most favorable conditions for labor. If it is necessary to make other conduction flumes for the water, the expense would be increased. In my opinion the advisability of such an outlay of capital for the irrigation of alfalfa is doubtful.

There are a number of irrigation plants in Kansas where more than 160 acres are irrigated by pumping. At Sherlock, Kans., a ranch of 1,000 acres is irrigated by pumping, but the lift is only twenty-five feet. I know of no ranches in the State, where irrigation is practised on a large scale, where the water is raised to the height to which you have to raise it. Although a large plant is the most economical, it might be in your case more satisfactory to undertake the irrigation of a smaller area, say twenty acres, which would require a pump with a capacity of 185 gallons per minute and about a



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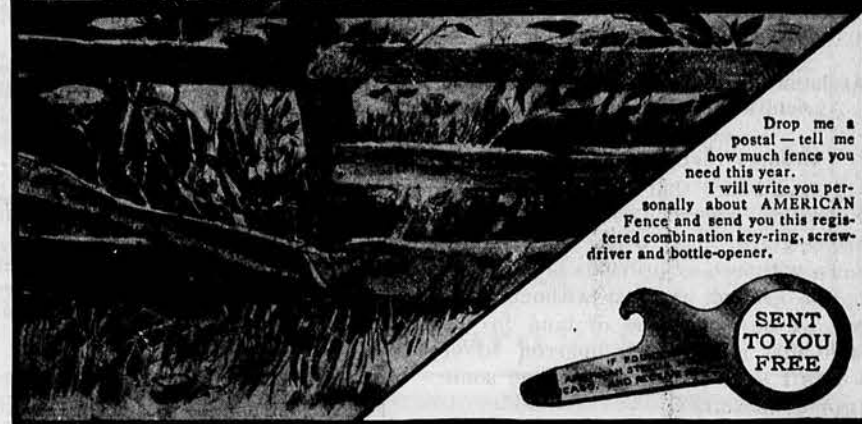
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costing thousands of dollars in research, experiment and brain-work—in reality only cost us one-half as much per rod of fence as they would cost any other fence manufacturer. That's why we have been able to make and keep AMERICAN Fence the Standard of the World. That's why we have been able to make so many improvements in AMERICAN Fence—thus decreasing its cost to you per rod per year's wear.

NOTE—I want to send you the combination key-ring, shown in the corner, with our compliments, as a continual reminder of AMERICAN Fence. We register your name and number on our books, and return keys without cost, if found and sent to us.

FRANK BAACKES, Vice-President and General Sales Agent
American Steel & Wire Co., Chicago, U. S. A.



Drop me a postal—tell me how much fence you need this year.

I will write you personally about AMERICAN Fence and send you this registered combination key-ring, screw-driver and bottle-opener.

SENT TO YOU FREE

Are You Up-to-Date on Paint?

The way to profit by progress is to keep in step with it. There is no more reason for mixing paint in the old-fashioned hard, hand way than there is for plowing with a stick, reaping with a cradle, or driving to town for your letters when there is a rural mail box on your gatepost.

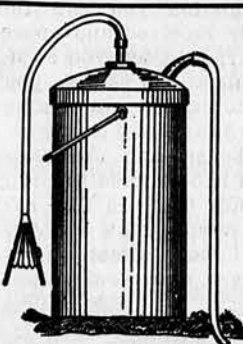
Untiring, unerring machinery does the work for you now—far better and surer than human hands could ever do it.

Lowe Brothers "High Standard" Paint Gives Best Results

It is always uniform—one gallon like another—each fresh brushful like the last—the best paint-making materials, combined in the proven "High Standard" proportions, and ground superfine. Don't figure your paint cost on price per gallon, but on square feet covered, and total cost, divided by number of years of service. Judged in this way, "High Standard" Paint is by far the cheapest. "High Standard" will cover one-third more square feet to the gallon, and last two to three years longer than ordinary paint. There is a Lowe Brothers Paint for every requirement about farm and home—Barn Paint, Implement Paint, etc., etc. Use "Little Blue Flag" Varnish—the best.

The best handbook on the paint subject is our booklet, "Paint and Painting," which tells you how to select paints; how to prepare surfaces for painting; how to choose brushes, how to use them, etc., etc. This valuable booklet will be mailed free if you will write for "Paint and Painting," and we will tell you who is your nearest "High Standard" agent. Address today.

The Lowe Brothers Company, 450-456 Third St., Dayton, O.
Paintmakers Varnishmakers
New York Chicago Kansas City



Patent applied for.

Destroy the Gophers

In Your Alfalfa Fields by Using
Saunders' Gopher Exterminator

This apparatus forces a deadly gas through their runways and is warranted to kill gophers within 100 feet of operation. With it a man can clear from five to six acres of gopher-infested land in a day at a cost of twenty cents per acre. The poison we use can be gotten at any drug store. Satisfaction guaranteed or money refunded. Complete outfit for \$5.

Flint Saunders, Lincoln, Kans.
Mention the Kansas Farmer.

fifteen-horsepower engine to run it. This engine could be used for other work on the farm and after the well was sunk the pump would only cost about \$100. On a field of this area there will be no necessity for other than dirt flumes for conducting the water.

If you found your water supply was not sufficient to furnish you a flow of 185 gallons per minute you might put in a smaller pump and engine and build a reservoir to store up water when you are not irrigating to be used at the next irrigation. Usually reservoirs of this character can be built if the soil is fairly stiff and retentive by simply scraping out the dirt up onto the sides, flooding the reservoir with water and completely puddling its surface by thoroughly tramping the muddy surface-dirt by driving over it, horses or cattle. If this puddling is well done, taking care to puddle the sides of the reservoir as built, there will be little loss from seepage.

Reservoirs of this character have been made where the seepage did not exceed two feet for the whole year. When the soil is open and sandy, it is necessary to haul common clay for puddling, or cover the reservoir with coal-tar, or asphalt, or cement. A reservoir 200 feet on a side and four feet deep will supply enough water to irrigate fourteen acres to a depth of three inches. Of course if such a reservoir is used it must be placed on a high enough level to supply all the land which you irrigate, but also as low as possible so as to make the lift of water no higher than necessary.

If you undertake the construction of an irrigation plant, the best procedure would undoubtedly be to turn the matter over to some responsible construction company, binding them by contract to place a plant that would draw a required amount of water.

L. E. CALL,
Assistant in Agronomy, Kansas State
Agricultural College.

Bromus Inermis in Nebraska.

I have heard that in some places in Nebraska where it is very sandy, bromegrass has been successfully sown without any previous preparation of the ground, at least without plowing. I have a piece of land in the sand-hills along the Cimarron River where I have thought of sowing some Bromus inermis.

Please tell me what are my probable chances of success. The soil is so sandy that it would "blow out" if plowed; there is a thin covering of bluestem and bunch-grass. I have thought of sowing the seed broadcast and disking it in; if a disk drill would sow it I would drill it in.

How early should it be sown and how much per acre?

Clark County. LEWIS B. PERRY.
I have had no personal experience in seeding Bromus inermis on sandy land, such as you describe. We have made one experiment in attempting to seed the grass on sod land at this station without success. However, the season was unfavorable for starting the young grass. I doubt whether the Bromus inermis will make much growth on such land as you describe. However, it may be possible to start the grass in the sand-hills by simply seeding broadcast and covering the seed with the harrow or disk, or drill it in as you have suggested. I think the plan is worthy of trial.

You may sow Bromus inermis with the ordinary grain-drill by using a shaker or agitator in the bottom of the grain-box. This should be made of two strips of board, which may be joined in the middle of the box and nailed together, thus making one continuous strip. Through these pieces of boards, two ten-penny nails should be driven at each feed-cup. A handle is attached to the board about the middle of the box. Put only a small amount of seed in the box at a time and keep the seed well agitated so that it will feed freely. This may be done by moving the shaker back and forth by means of the handle. To operate this machine, requires a man to drive and a boy to move the shaker. It is best to remove the cover of the

How do you Shred Fodder—Grind Feed—Pump Water—Saw Wood—Shell Corn?

Do you do it in the old slow hand-power way, or do you do it up in a hurry with a gasoline engine?

The easy way, the cheap way, the quick way, and the labor-saving way, to do these jobs and many others on the farm is with gasoline engine power.

It will cost you but 5c an hour to run an I. H. C. gasoline engine generating three horse power. The engine is always ready when you want it—right when you want it—you don't even need to light a fire to start it. Just close the switch, open the fuel valve and give the fly-wheel a turn by hand—that's all.

It's so easy to start and to run; it is so simple an operation that before you've had one a month you will be using it for all sorts of things.

A gasoline engine is almost indispensable on the modern, up-to-date farm, but be careful when you buy. Some gasoline engines are better than others, and it will pay you to do a little investigating.

Learn all about I. H. C. Engines.

—About their simple construction.
—About their strength and durability.

—How little fuel they use and

how they waste none.

—How easy it is to operate them.

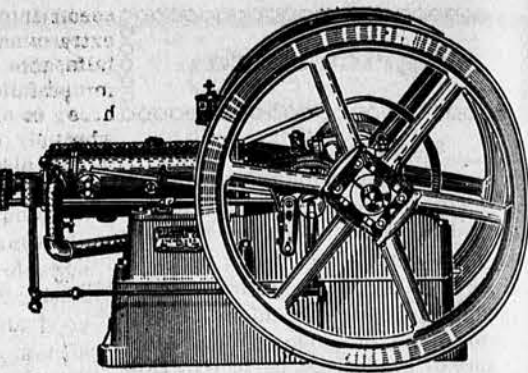
—How much power they furnish.

I. H. C. gasoline engines are made in two styles and several sizes:—Vertical, 2 and 3 horse power. Horizontal (portable and stationary), 4, 6, 8, 10, 12, 15 and 20 horse power. Ordinary stove gasoline is used for fuel and there is no danger whatever.

Go to our local agent for a talk about power for the farm, or if this is not convenient, write for catalog.

INTERNATIONAL HARVESTER COMPANY OF AMERICA, CHICAGO, U. S. A.

(INCORPORATED.)



3 Necessary Points In a SEPARATOR

—IT MUST Be a Clean Skimmer
—IT MUST Run Easily
—IT MUST Be Durable



IF a separator does not have these points it is not what it should be. It is easy to say of any machine that it is the best skimmer, the easiest runner, and the most durable; but a claim without proof never freed nor convicted a criminal.

THE BOWL

of the GREAT WESTERN separator is built on scientific principles. The whole milk is fed into the bowl so that it is sprayed between the disks and the greatest portion is delivered toward the top half of the bowl, so the cream has but little distance to travel after it is separated before it is delivered into the cream spout. The skimmed milk travels down the sides of the bowl where the centrifugal force is the greatest.

NINE TENTHS of the cream is separated from the milk between the disks. The balance is separated as it travels down the wall of the bowl. When delivered at the bottom of the bowl the milk has traveled the full length of the bowl and about seven-tenths of this distance has been traveled after nine-tenths of the cream has been separated. It is an easy matter under the high pressure to liberate the little portion of cream that the milk contains after it leaves the disk. For this reason the GREAT WESTERN bowl is superior to all other makes.

THE NATURAL tendency in the gravity system is for the cream to rise and the milk to fall. In the GREAT WESTERN we carry out the same principle, combining the force of gravity and the centrifugal force as we draw the cream from the top and the milk from the bottom of the bowl.

IN OTHER BOWLS where both the milk and cream are delivered at the top, the whole milk is carried to the bottom of the bowl, and when the cream is liberated it must travel back the full length of the bowl before it can arrive at the cream spout. It travels side by side with the skimmed milk and in doing so there is great liability of them becoming mixed again. This is always true where there is slight vibration of the bowl. Also, when the milk and cream are both traveling upward side by side there is not the opportunity for separation that there is when the cream is traveling up and the milk down. The volume of milk drawn from the bowl is fifteen times greater than the volume of cream. The large flow of milk from the opening so close to the cream in the bowl often carries with it a portion of the cream.

You can now understand why the GREAT WESTERN separator skims so much closer than any other machine. It is the only machine that is absolutely guaranteed to take out practically all of the cream and not re-mix it.

WE HAVE made a claim of the cleanest skimmer and when you understand the principle you can readily see why the GREAT WESTERN is the cleanest skimmer. You only have to understand the principle to know that the GREAT WESTERN is made absolutely in accordance with scientific principles.

EASY RUNNING No machine can run easily unless it has the right kind of bearings, is made simple and strong so it will not cramp or bind.

THE EIGHT bearings on the GREAT WESTERN separator are the most approved style and cause the least friction. Seven of these eight bearings are ball bearings. The bearings are turned out of crucible steel, then trued and hardened so the race that the balls travel in is perfectly true and almost as hard as a diamond.

THE BALLS are the highest grade and are guaranteed not to vary one ten-thousandth of an inch. The ball bearings used in the GREAT WESTERN separator costs more than twice as much as the bearings used on any other separator, but they will last a lifetime if properly cared for. They cause no friction but make the machine run easy.

F. A. TRUE.

Pottawatomie County, Iowa.
In a letter I can hardly take sufficient time and space to answer all the

advantage of the ball bearings is that the shafts of the GREAT WESTERN separator never wear out, and the way some separator bearings are made, is by boring a hole through the cast frame and putting the shaft through this hole, calling this bearing. This causes friction, the hole soon wears larger and the shaft smaller.

ANOTHER CHEAP WAY is to put in a bushing of babbit or composition metal but in this style also the shaft and bushing wear.

EITHER of these methods are cheap constructions. The bearings soon get out of alignment and make the machine run hard, and it means that new bearings must be had. Usually the machine has to go back to the factory, making an expense of \$8.00 to \$15.00, and the loss of the machine while it is being repaired.

THE BEARINGS in the GREAT WESTERN separator cost about \$3.00 more than the bearings in any other separator. Wouldn't you rather put this extra cost into the purchase price and have a machine in which you know the bearings were right, a machine that you knew would run easily, and a machine that would never have to go back to the factory for repairs.

THERE ARE TWO other reasons why the GREAT WESTERN separator is so easy to operate:

FIRST: A law of mechanics is that "to produce speed requires power." The higher the speed the more power required. The GREAT WESTERN separator bowl travels at a speed of from 3,000 to 10,000 revolutions less than the bowls in other machines. Therefore it does not require as much power to run it.

SECOND: The larger the body to be rotated or moved the more power required. As the bowl of the GREAT WESTERN separator is much smaller than the bowl in other makes of separators, and, therefore, holds less milk, less power is required to revolve it.

These three features make our machine fulfill our claim of the easiest operated machine.

DURABILITY is shown in the GREAT WESTERN separator in every part. Bearings, frame, shafts, gears, and the whole machine is made with the view of having it durable. Every part is made as fine as a watch and as strong as a threshing machine. It's made for the man who wants the best.

THE MILK TANK is low down. The top is only 3 feet 4 inches from the floor. It saves spilling the milk. The crank is exactly the right height to make easy turning. Which would you rather do, buy a cheap machine that will give you only half of your cream, that will run hard, that will have to go back to the factory to have new bearings put in within a few months, at an expense of \$8.00 to \$15.00.

OR put more money into a machine and get one that will save all of the cream, that will run easily and that will not wear out in the bearings or any other place, a machine that will be ready for service twice a day as long as you are in the dairy business?

SEND FOR our catalogue. It tells you more about cream separators and how they should be built than was ever printed before. It makes everything plain to you. If you decide to buy a cheap machine it will give you some pointers as to what to avoid. It tells you all about the milk, its composition, how and why the cream separates, how and why the milk sours, the changes that take place, why the cream does not rise as well some days as on others. It tells the difference in value between the sweet and sour milk for feeding purposes. It explains how you can make \$15.00 more per year from each cow. It tells you the best methods of raising calves, the most prominent breeds of cattle; in fact, it treats the whole dairy situation. It tells what thousands of men have been trying for hundreds of years to accomplish. It explains how we have revolutionized the cream separator business. If you milk two or more cows write just these words on a postal card: "I am keeping. . . cows. Send me your book No. 5081 of the GREAT WESTERN Cream Separator."

SMITH MANUFACTURING CO., 158 HARRISON ST., CHICAGO, ILL.

questions which you propose. I have called you circulars on grasses and alfalfa, also circulars 2, 3, 5, and 8, discussing the subjects of crop rotation, manuring, and fertilizing with reference to maintaining soil fertility. I believe you can grow grass and clover successfully in Labette County on the land which you describe. The difficult part will be to get the alfalfa, grass, or clover started on soil which is so deficient in fertility and in such poor physical condition. Your first proposition is to manure the land or grow some annual crops which may be turned under as green manure, and in this way and also by deep and thorough tillage, improve the physical condition of the soil and add somewhat to its fertility, before attempting to seed down to grass. Timothy, clover, or hard-grass, and Bromus inermis may all be grown successfully in that section of the State. For hay meadow, the timothy and clover, English bluegrass and clover, or Bromus inermis and clover may be recommended. For pasture, I would recommend a combination of the three grasses with clover or alfalfa, sowing about ten pounds of each of the grasses with four pounds of clover or alfalfa-seed per acre.

As a rule, farmers in Labette County have not been very successful in growing alfalfa, yet I think it advisable for you to try sowing alfalfa, perhaps in a small way, but continue to sow it, even although you may not succeed the first time. If you can get alfalfa to stand and grow successfully on the hard-pan land which you describe, the soil will be greatly benefited, not only by the accumulation of humus and nitrogen resulting from the growing of alfalfa, but also the physical condition both of the soil and subsoil will be much improved. The large, deep, penetrating roots of the alfalfa will break up the hard-pan, deepen the soil, and establish better under-drainage. Clover and grass will also have a similar effect but not in so great a degree as alfalfa.

I would advise you not to become discouraged too quickly, but to take hold of this farm in an intelligent way, restore its fertility, and make it produce profitable crops again, for the labor expended in growing the crops, keep some stock on the farm in order to feed the roughage and some of the grain, returning again to the soil, the manure made from feeding the stock. Possibly you may be able to secure manure for the hauling, from the neighboring village. With a farm such as you describe, a farmer can make no better investment in time and money than to haul manure from the neighboring villages during the winter and spread it upon the soil, which is in most need of fertilization.

A. M. TENEYCK.

Spring Crop.

I have a field that I had corn on last season and would like to seed it to alfalfa next fall. Would you advise plowing the ground to oats, barley, or millet this spring, or would it be best to plant a spring crop? Please let me hear from you soon. I would like to see of Secretary Coburn's books on alfalfa.

J. L. MEEKER.

Pawnee County. In your section of the State I would advise not to grow the oats, barley, or millet preceding the sowing of alfalfa this fall. This plan would do all right in Eastern Kansas where we have a heavier rainfall. The safest plan for you to follow would be to cultivate the field during the summer, plowing, not, as seems best. If you do plow, plow rather late this spring and cultivate the ground at intervals during the summer in order to pulverize and break the soil so as to have a good seed-bed by seeding time, the last of August or the first of September. Perhaps by disking and harrowing this ground could be kept in good condition.

For seeding next spring, your plan of sowing oats or barley or millet would do all right, but for early fall seeding in your section of the State I would recommend summer fallowing, cultivating in order to conserve soil moisture and prepare a good

seed-bed. You can afford to do this extra work to insure a stand of alfalfa, also you are not limited so much for land to grow crops as is the case here in Eastern Kansas. On the whole, I consider it preferable to sow in the spring in your section of the State, rather than to sow in the fall, but by carefully preparing the seed-bed and conserving the soil moisture during the summer, as recommended above, you may have good success from fall seeding. A. M. TENEYCK.

Bromus inermis and Alfalfa.

I wish to sow this spring some brome-grass-seed. If I sow a little alfalfa with this, will it make a mixture of seed at harvest time, or will the seed ripen at different times, so I can save the brome-grass separately and keep it pure? W. N. OTIS.

Chase County.

A small amount of the alfalfa sown with the Bromus inermis will not interfere with harvesting the Bromus inermis for seed. Doubtless the first crop of alfalfa will produce no seed, and even if it does, and the seed remains with the brome-grass-seed when thrashed, the alfalfa-seed may easily be removed from the grass-seed with the fanning-mill. A. M. TENEYCK.

Harrowing Wheat.

A. M. TENEYCK, PROFESSOR OF AGRONOMY, KANSAS STATE AGRICULTURAL COLLEGE.

The utility of loosening the surface of the soil, and keeping a mulch of mellow soil in order to break the capillary movement of water and prevent its evaporation is well recognized by farmers generally, and is practised to a greater or less extent in the cultivation of all kinds of crops. In the growing of wheat the preparation of a favorable seed-bed should leave the soil mellow at the surface. Usually, the rains in the fall after seeding are not heavy enough to pack the soil. Often the wheat makes considerable growth and covers the ground during the winter. There are usually no heavy showers early in the spring, and the wheat starts quickly, and by stooling, soon covers the ground, and protects the soil from the beating of heavy rains. Thus, wheat needs perhaps less cultivation after planting to retain the soil mulch than is required by corn and other cultivated crops.

However, if the soil becomes packed by heavy rains the soil mulch may be restored by harrowing the wheat. The weed-harrow or weeder is probably better adapted for harrowing wheat and other grains than the common straight-tooth harrow or slanting-tooth harrow. The weeder is, however, somewhat objectionable on account of the wheels. When the ground is reasonably firm the common harrow may be used without injuring the grain.

Our plan has been to harrow once or twice in the spring after the wheat has started well. It is not usually advisable to harrow wheat in the fall, and it is best not to harrow too early in the spring, but when the grain has made some start and the roots of the plants are well established, wheat may be harrowed without injury and often with much benefit. The harrowing will not only loosen the soil, producing the mulch which conserves the soil moisture, and preparing a favorable surface to receive the rain, but the harrowing also destroys the young weeds, and gives a cleaner crop of wheat than may be secured without harrowing.

I question whether it is necessary to continue the harrowing after the wheat covers the ground well, unless very heavy rains firm and puddle the soil, destroying the mulch of mellow earth. Usually this will not occur. I have harrowed wheat when it stood five or six inches high and had stoolled so as to about cover the ground, and the soil mulch thus produced was still in evidence at harvest time. Experiment in the harrowing of wheat and other methods of wheat culture are being undertaken at the Fort Hays Branch Station and also at the Experiment Station at Manhattan. These experiments have not yet been continued long enough to give definite results.

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buggy to us after you get it and see it, after you handle it, hitch up to it and use it, you may do so, and we will return you your money and you will be absolutely nothing out whatever.

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I have just received from the printer the most interesting vehicle book we have ever issued. I have thrown back the cover and shown as far as I could in print, "What is Under the Paint." I have tried to tell every prospective buyer just what he should know in order to intelligently buy a good buggy. I have talked pretty "big," but I am quite confident anyone would concede it all if I could take him through our factory, the only one owned, controlled and directly managed by a catalogue house; show him the machines and all the modern equipment used in setting our wheels, tracing our tires, our system of hanging, bracing and adjusting our gears, which insure light draft, comfortable riding and a perfectly balanced rig; and our system of painting and varnishing, which gives our work the lasting finish for which it is noted.

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Write today for the new Vehicle Catalogue, and if there is any way that I can be of service to you in answering questions or in assisting you in the selection of a rig for special purpose I shall be very glad to do it. F. L. SHAW, Manager Vehicle Factory. '06

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We will ship you a Machine on trial, with freight prepaid, and you can convince yourself that it is just what you need to produce better crops.

Otego, Kans., March 31, 1906.
Dear Sirs:—I received my mill and grader and like it all right. I enclose my money order for \$35 for the mill and corn grader. Let me know when you receive this. Yours truly, B. P. COLE.

Our separate corn grading machines will grade corn 98 per cent perfect and will insure a **BUMPER CORN CROP.**

Write us today and we will tell you all about our machines. Tell us what kind of grain you raise and we will send samples cleaned on the

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factory results will be secured by spraying twice, once in the fall and once in the spring. In lightly infested orchards one spraying carefully and thoroughly done will give very satisfactory results.

Growing Strawberries for Home Market.

EDITOR, KANSAS FARMER:—I have grown strawberries for a number of years. However, I have never had more than one-half of an acre. I dispose of the fruit here in my home market at a good price, as the supply seldom exceeds the demand. I plant only the very best varieties procurable, and have never failed to produce large, handsome berries of best quality. Last season I sold 147 twenty-four-quart crates of berries from this half-acre, which averaged \$1.80 per crate; the only expense being for picking and crates.

The varieties I have been the most successful with, and the ones I am now growing, are the Warfield, Bederwood, and Splendid.

The Warfield is a dark-colored berry of good quality and never fails to command a good price, but must be properly fertilized and thinned else the fruit will be of an inferior quality.

The variety I prefer as a fertilizer for the Warfield is the Bederwood. While the Bederwood is rather a light-colored berry, it has never failed to give the best of satisfaction and always yields a good crop. It is a vigorous grower and an excellent plant producer.

The Splendid, which I regard as being the most reliable of these three varieties, as a large, well colored berry and is of the best quality. It is a good fertilizer and a good plant-maker.

In planting strawberries I put them eighteen inches apart in rows four feet wide. I always plant in the spring just as soon as the ground can be worked well. I thoroughly pulverize the soil and put the plants in with the roots properly spread. When I plant pistillate varieties I always plant good fertilizers on each side. In cultivating I use a twelve-tooth cultivator between the rows and hoe between the plants. When the runners begin to appear and new plants start, I carefully place the runners so as to make the plants root about six inches apart. I allow the rows to get about one foot wide. When there are plants enough I throw dirt over the runners so as to check further making of plants. I find that much after-labor will be saved if the weeds are all killed and the soil is in good condition when the new plants begin to start. In hoeing the first time I carefully notice to see if a plant has been too deeply set, or to see if the rain has washed the earth over the crown. If the rain has washed the earth over the crown, the earth must be removed so that the crown will be free. If a plant is too shallow so that the roots are exposed, the earth must be drawn around it. I remove all blossoms the first year, as the production of fruit taxes the vitality of the plants. My principle aim is to produce strong plants in sufficient number to give a good crop of fruit the next year. I exercise special care to keep all weeds destroyed, for they will take possession of the crop before it is picked if let go. If I find any leaf-rollers I pick them by hand.

My chief aim in growing strawberries is to produce the very best. After picking the berries I mow the patch, burn the rubbish, cultivate the space between the rows, hoe out two-thirds of the plants in the row leaving the plant about ten inches apart. I then keep them well cultivated the balance of the season.

As to how long it will pay to keep land in strawberries before plowing up, no definite rule can be given. I have run a patch for four years, but the fourth crop of fruit was very unsatisfactory. Therefore, I do not believe it will pay to keep land in strawberries more than three years. On soil that is adapted to its growth, white clover is likely to come in and rob the soil of the plant-food, which will weaken the vitality of the strawberry plants.

In closing this article, I wish to re-

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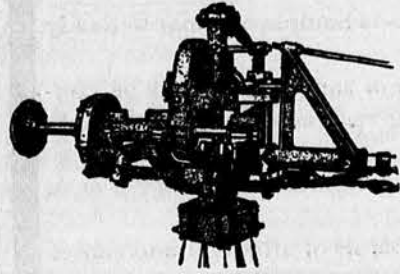
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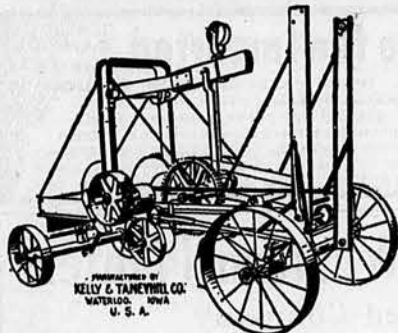
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WILLIAMS BROS., Ithaca, N. Y.

mind the readers of THE KANSAS FARMER who intend planting strawberries this spring, that while it is important to plant good varieties it is equally important to plant good plants of those varieties. Poor plants of a famous kind will not do and good plants of a poor kind will not do. They should be fine, well-grown plants of a reliable variety, well adapted to the soil and climate in which they are to be grown and then the chances of success are assured.

Johnson Co., Ill. W. H. UNDERWOOD.

A New Source for Fence-Posts.

An experiment in the preservative treatment of dead lodge-pole pine for fence-posts, just completed by the Forest Service, on the Henrys Lake Forest Reserve in Idaho, has given results of economic value both to the people of the community and to the Forest Service. It has demonstrated that fire-killed lodge-pole pine is well adapted to treatment with creosote oil by an exceedingly simple process.

The demand for durable posts by ranchmen in the vicinity of Henrys Lake has hitherto been met by the use of red cedar, but the supply of this species is now completely exhausted. The only native trees at present available for posts are lodge-pole pine, quaking aspen, and Douglas fir. Though durability varies with the soundness and dryness of the posts when placed in the ground and with the character of the soil with which they come into contact, in general, aspen posts last from six to ten years, fir posts from five to seven years, and pine posts only from three to four years.

Lodge-pole pine without preservative treatment is thus too short-lived to make desirable posts or poles. The idea of treating it was suggested by the requirements of forest management on the Henrys Lake reserve. Large bodies of dead lodge-pole pine, both standing and down—the legacy of severe fires in 1902—are a serious handicap to the forest there. This timber must be gotten rid of to make room for young growth if the future forest is to be well stocked.

Properly treated lodge-pole pine should last twenty years, which equals the life of the former favorite, red cedar. By treating the pine, and thus making it serviceable for posts, the Forest Service has found a way of removing the encumbering timber at a good price and supplying consumers with valuable posts at a reasonable figure. Since the success of preservative treatment has been demonstrated the value of the wood has risen from 25 cents to approximately 40 cents per cord.

The treatment was given in a galvanized-iron tank fitted with steam coils, in which from 40 to 50 posts stripped of bark were placed upright. Enough creosote was then run into the tank to submerge the butts for about 2 1/4 feet, heated to 200° F., or a little above the boiling point of water at that altitude, and afterwards allowed to cool.

The large quantity of fire-killed timber on many of the forest reserves, the pressing need for durable wood, the steady rise in its price due to the increasing difficulty of obtaining it, and, finally, the ease with which post timber can be treated, indicate that the preservative treatment of timber is to have an important development throughout the West. This, besides meeting the demands of the people and reducing the drain upon the forest, will lead to the improvement of conditions on the reserves and insure better crops hereafter.

It is the intention of the Forest Service to establish experimental treating plants where there are bodies of dead timber on the reserves and a demand for durable wood can not otherwise be met. Experimental work will be conducted with zinc chloride and other processes as the needs of the different regions and the thorough testing of each process may require.

As a result of the post experiment, it is understood that a company will take up the treatment of dead lodge-pole pine on a commercial scale in the spring. They are satisfied that the

simplicity and economy of the open-tank process introduced by the Forest Service will enable them, with certain modifications of apparatus, to treat and sell not only fence-posts, but telephone-poles and posts used for irrigation works. They count upon a local market already in good part developed by the confidence which the fence-post experiment has inspired.

Black Locust and Catalpa.

Last spring I planted black locusts, which grew from five to eight feet high, and were very crooked. Would it pay to cut them down? Do the catalpas make as good a growth as the black locusts? W. N. OLES.

Barber County.

If you cut your black locusts back this spring the probability is that they will make a very rapid growth, and you will secure straighter and more uniform trunks than if they are allowed to grow. It is quite probable that the roots will send up more than one sprout, and it will be necessary throughout the summer to remove the superfluous sprouts, leaving not more than one good one to grow.

The catalpa compares very favorably in rate of growth with the black locust, and in less productive, gravelly, poor soil, the catalpa has really a better growth than the black locust.

ALBERT DICKINS.

Miscellany

Farm Notes.

N. J. SHEPHERD, ELDON, MO.

No young animal is profitable that is not growing steadily.

If the land is fed well, frequent cropping will not impoverish it.

The character and development of animals are largely due to their environment.

The minute an animal stops growing, he commences to lose money for his owner.

The more an animal is exposed, the less it will produce, either of pork, wool, mutton, beef, or milk.

Stock can be fed with profit only when they make steady gain, any falling off costs doubly to regain.

Fertilizers will give quicker results than manure, but the effects of manure are, as a rule, more lasting and durable.

Even on the farm, labor is never spent in vain when it leads to the accomplishment of good results.

Manure will not waste as much fertility in the field as it will in the average pile in the feed-yard.

The best medicine for any animal is preventive, hence the food and surroundings should be such as to promote health.

The only way to get a good cow, bull, or steer is to keep the calf growing all the time.

All kinds of feed lose their nutritive qualities by exposure to rains, storms, and even to the action of moisture and atmosphere.

An excess of food weakens a working animal, and disables it from work. It induces indigestion, and is really worse than a spare diet.

The best stock for any farmer to keep is the kind that will suit him best, and is best adapted to his farm and markets.

The man who never held to any business is always the one to invest when prices are high, and sell out when prices are low.

A farmer can well afford to pay considerably more for well-bred and square, compactly built animals for feeding purposes than for lean, lank scrubs.

A surplus of feed is better than too much stock, and one animal is kept with more profit than two that are half fed.

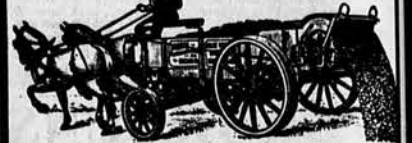
The farm products should be put in the form in which they will command the most money and yet leave the farm in the most productive condition.

In all breeds there will be some superior animals, so that if a permanent improvement is secured continued care

**\$4.00 to \$8.00
Per Acre**

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Our 70-bushel Spreader is a great big, heavy machine. The main frame is all oak, oak pole and hickory double-trees. Made in four sizes—35, 50, 70 and 100 bushels.

It has a great big, strong 16-inch malleable iron fifth wheel, double oak bolster, wide front axle; the wheels track.

It has an endless apron that is always ready to load; no reverse gears, trips, springs or contraptions to get out of order. Spreads all kinds of manure.

It has a galvanized steel hood and end gate. Keeps the manure away from the beater when loading. Prevents choking when starting. Acts as wind shield when spreading.

It has light draft, because the load is nearly equally balanced on the front and rear axles; brings the team close to the load. Front and rear wheels track. Beater shaft runs in ball and socket bearings.

It is so simple that a boy can handle it. Ask your dealer about the

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Don't let him sell you a substitute that he says is "just as good"—Because there is no other "just as good" or nearly as good.

There is no other that is as strong and heavy; the Great Western 70-bushel weighs 2250 lbs. No other has a 16-inch oscillating malleable fifth wheel, all oak frame, oak pole, double oak bolsters.

Most other 70 bushel spreaders weigh 1800 to 1900 lbs.; if you buy a light, cheap machine, don't pay as much for it as you would for the Great Western—insist on having the best and save breakage, expense and trouble.

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is necessary in the selection of the breeding animals.

A handful of linseed-oil-meal and a quart of wheat bran can always profitably take the place of a quart of oats in the ration of the horse.

The best means of making farming profitable is to turn everything to account in some way, and not waste feed on poor stock, and time in doing useless things.

The stability of any industry depends, to a great extent, on its profitability, and its profitability depends, as a rule, on its management by the men who are engaged in the business.

The future feeding qualities of a steer are shaped to a great extent the first few months of the animal's life, and unless it is started right will never make as good an animal.

Working to a purpose is the only way to succeed, and no one can work to a purpose who has not some system by which to work, and especially is this true of farming.

A Suggestion.

EDITOR KANSAS FARMER:—I have a little suggestion to make to the readers of THE KANSAS FARMER in regard to the Veterinary Department. It is that you clip from the veterinary column of THE KANSAS FARMER such questions and answers, from time to time, that will be of value to you, and paste them into a book, under the head of horses, cattle, sheep, and hogs. By doing this we would save our State Veterinarian much work, besides having constantly at hand a lot of good, reliable information on nearly every disease and trouble of animals. I have a book of this kind which I call "The Kansas Farmer Veterinarian."

Russell County. E. L. N.

Remedy for Warts.

EDITOR KANSAS FARMER:—I submit the following answer to J. W. A., Dane, Kans.: I had a mule with a large blood wart on the head, just under the eye. After trying many things I removed it by the use of Fleming's Spavin Cure (liquid).

Directions: Apply to the wart two or three times a week, or when the scab seems to be loose. Remove the scab; do not wash. When the wart has gone down to the surface of the skin put on vaseline until the sore is healed. If the wart is large enough, take a piece of shoemaker's thread three or four feet long and wind it around the wart. In about ten days the wart will drop off; then apply the Fleming's Spavin Cure to the roots of the wart as before.

J. C. BOSTWICK.

Jackson County.

Commendation.

EDITOR KANSAS FARMER:—Permit me to congratulate you upon placing the contents of paper" on the front page. THE KANSAS FARMER is more than an ordinary paper. It is really a work of reference, and the placing of a list of the contents on the exterior will greatly enhance its value, and economize the time of the reader. I feel sure that it will be highly appreciated by the great number who value it.

W. E. BARKER, M. D.

Neosho County.

A Movable Hog-Pen.

EDITOR KANSAS FARMER:—Will some kind reader of your paper give a sketch and plan of a movable hog-pen, one that a man can use for brood-pens? My pens can not accommodate all I have.

I will tell you soon all about my success with my tame grasses, as I have them.

A SUBSCRIBER.

Reno County.

Want a Buffalo Calf?

One of the most novel and interesting tests offered by any manufacturer to prove the quality and wear of shoes is made by Bentley & Olmsted company "The Western People," of Des Moines, Iowa, who make the famous Buffalo Calf shoes so well known throughout the West.

Every pair of Buffalo Calf shoes has a test tag attached to it, which is in the shape of a small Buffalo calf, and stamped from the actual



O. L. Chase
St. Louis, Mo.

I AM the paint man. I have a new way of manufacturing and selling paints. It's unique—it's better. It revolutionized the paint business of this country last year.

Before my plan was invented paint was sold in two ways—either ready-mixed or the ingredients were bought and mixed by the painter. Ready-mixed paint settles on the shelves, forming a sediment at the bottom of the can. The chemical action in ready-mixed paint, when standing in oil, eats the life out of the oil. The oil is the very life of all paints.

Paint made by the painter cannot be properly made on account of lack of the heavy mixing machine.

My paint is unlike any other paint in the world. It is ready to use, but not ready-mixed.

My paint is made to order after each order is received, packed in hermetically sealed cans with the very day it is made stamped on each can by my factory inspector.

NOTE—My 8 Year Guarantee Backed by \$50,000 Bond.

I Am the Paint Man

2 Full Gallons Free to Try—6 Months Time to Pay

I Guarantee Freight Charges.

I ship my thick pigment, which is double strength, freshly ground, in separate cans, and in another can, I ship the pure, old process Linseed Oil—the kind you used to buy years ago. Any child can stir them together.

I sell my paint direct from my factory to user; you pay no dealer or middleman profits.

My \$100.00 Cash Guarantee

I guarantee, under \$100 Cash Forfeit, that the paint I am offering you does not contain water, benzine, whitening, or barytes—and that my Oil is pure, old-fashioned linseed oil and contains absolutely no foreign substance whatever.

I guarantee the freight on six gallons or over. My paint is so good that I make this wonderfully fair test offer:

When you receive your shipment of paint you can use two full gallons—that will cover 600 square feet of wall—two coats.

If, after you have used that much of my paint, you are not perfectly satisfied with it in

every detail, you can return the remainder of your order and the two gallons will not cost you one penny.

No other paint manufacturer ever made such a liberal offer.

It is because I manufacture the finest paint, put up in the best way, that I can make this offer.

I go even further. I sell all of my paint on six months' time, if desired.

This gives you an opportunity to paint your buildings when they need it, and pay for the paint at your convenience.

Back of my paint stands my Eight-Year officially signed, iron-clad Guarantee.

For further particulars regarding my plan of selling, and complete color card of all colors, send a postal to O. L. Chase, St. Louis, Mo. I will send my paint book—the most complete book of its kind ever published—absolutely free. Also my instruction book entitled "This Little Book Tells How to Paint" and copy of my 8-year guarantee.

O. L. CHASE, The Paint Man.
Dept. 31 St. Louis, Mo.

leather which goes into the uppers of the shoes.

Dealers almost everywhere carry Buffalo Calf shoes, but if any of our readers do not happen to find these general durability shoes, if they will just write a postal card to Bentley & Olmsted Company, of Des Moines, one of these interesting tags will be mailed free, if you just say that you are one of our readers.

They will tell you also how to get their Buffalo Calf shoes promptly, and all about why they are the best shoes for practical men, and stand the hardest knocks and more wear—besides being most comfortable and of good shape for everyday wear.

If you are able to tear the little Buffalo Calf tag with your fingers, the manufacturers will send you a pair of shoes without cost to you. Try it.

Hen's Eggs Wanted.

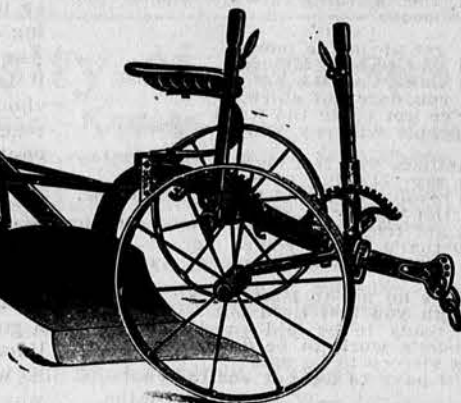
We've always had the "pie habit"—now we're coming into the lime light as egg eaters. Each year eighty millions of hungry Yankees want more "hen fruit" than sufficed for the previous year. It's really getting to be quite a serious question how we're going to get 'em fried, poached, and scrambled in quantities sufficient to satisfy us. Supply doesn't seem to keep pace with demand—which fact accounts for the other fact—that lots of times we don't get any eggs at all.

Now if you travel about the country and keep your eyes open, you will be convinced that there are hens enough in sight to give every man his "two soft" seven mornings in the week, if each hen did her full duty. Which observation brings us right square to the point where the "screw is loose"—they don't do it—no fault of the hens either. The real trouble is, the henman doesn't know his business, or else he neglects it. He doesn't treat his hens in the way self-interest would seem to dictate. You can't expect a lot of hens confined in a closed house or yard, with no systematic or rational effort to supply what they would get in a natural state, to make a profit for the owner! Now if you are planning to make your whole living, or even your "pin money" out of hens, there are two or three things you should certainly remember. First don't be satisfied with scrub hens. Second, (and here is the real point) don't attempt to keep them without giving a regular daily ration of a good tonic. Nothing in hen culture gives so large a return as this one thing, and the only tonic to use is Dr. Hess Poultry Pan-a-ce-a, prepared by Dr. Hess Clark, of Ashland, Ohio, and sold by all dealers. This has been the experience of all successful poultrymen. This preparation is not a stimulant, like pepper or something of the kind that excites unnatural production for a time.

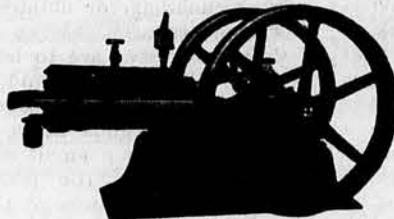
Dr. Hess Poultry Pan-a-ce-a does its work in a different way by assisting the hen to fully digest her food and send each element to its proper part in the hen economy. Thus a daily feed makes bone, flesh, feathers and eggs, each to the extent of proper elements in the food. Dr. Hess tells us that Poultry Pan-a-ce-a is a true scientific preparation. It is the result of painstaking experiments in his own yards. So certain are Dr. Hess & Clark of the wonderful value of Poultry Pan-a-ce-a and Instant Louise Killer, that they cheerfully give a written guarantee that it will do all they say. If it doesn't you get your money back. Considering cost of ingredients and care taken in manufacture, these goods are remarkably cheap. It costs but a penny a day to feed 30 hens.

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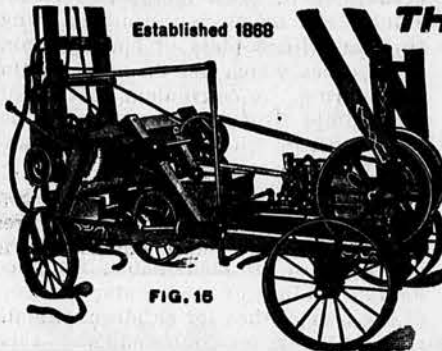
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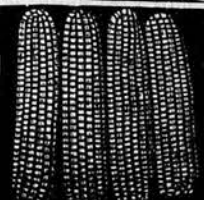


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A Farmer's Dream.

This thing of feeding cattle
Is just like a battle,
It keeps you forever on the go.
And you ought to be stout,
For you've got to hustle out
In the sunshine, the shower, or the
snow.

You begin the day
In the usual way,
By harnessing the old gray mule.
Then you go right on,
And haul hay and corn,
And you work hard enough to kill a
fool.

And then the day brings
So many other things,
That it keeps you a-humping all day.
And long ere it's done
You've missed all the fun,
For you're simply too tired for play.

You milk the old cow,
Then you go out and plow,
And it's the same thing reversed after-
noon.
You then go to bed
And cover up your head,
And the morning always comes too
soon.

You get up in the morn,
And you feel so forlorn,
And think that it's not a bit of use.
But you dare not shirk,
You've got to do the work,
Or people will say you're a goose.

Sometimes you feel right,
You say "It's fun to fight,"
You resolve then and there to be game.
Ere the victory is won,
You get tired of the fun,
And that's when you're apt to grow
tame.

But it's no use to pout,
Though you feel tired out,
And ready to be laid on the shelf.
If there's work to be done,
Or a victory to be won,
You'll have to fight it out for yourself.

—W. S. Catlin, Olathe.

March.

March is with us again with its wind and mud, but according to Secretary Coburn, we are not to allude to the weather unless it is to say something complimentary. So we will ignore the mud and see only the good in the Kansas zephyrs. These breezes are certainly a great benefit to the sanitary conditions—cleaning the atmosphere of impurities, and carrying germs and malaria, and dropping them into the lowlands of Missouri. Now this last statement I can not prove, as I have never been in the lowlands of Missouri nor investigated the problem, but judging from the amount of malaria there is in Missouri, and the lack of it in Kansas, I thought it must be that way. However that may be, the winds are a purifier of the atmosphere. They dry the mud and get the earth in a good condition for plowing and planting. That suggestion of Secretary Coburn is an excellent one and might be extended, not only to the weather but to every subject of conversation and be practised in all our thinking. When speaking about one's neighbor, speak only of his good qualities and see only that, which is meritorious in him. When speaking about yourself, which do but seldom, do not tell how bad you feel and recite your troubles but tell of the bright things, the happy hopeful things, thus you may be a blessing to your neighbor and to yourself, for "As a man thinketh in his heart, so is he."

March brings not only its purifying winds, but also bright, sunny days, inviting us out into the vivifying, health-giving air. The robin's cheering song fills us with new aspirations and brighter hopes. It requires no urging to make us accept nature's invitation and we find plenty for willing hands to do. Now is the time to remove the mulching around plants and shrubs, but do not remove it all at once. If the rose bushes were not pruned in the fall this is the time for that, cutting out all dead wood and cutting back part of last year's growth. Planting of roses and shrubs may be done this month. Do not prune your lilacs or you will rob them of their bloom. If you want a row of sweet peas, plant now, in furrows six inches deep, and cover with two or three inches of earth, then tamp it down. When they come up begin to fill in the earth around them and continue as they grow, till the furrow is full. It is said

that they do better if they are planted in rows running north and south.

There will be days in this month when we will not want to be out much. We will not say why, not think why, but find many things inside that need to be done. They will keep us so busy that the elements of nature will not disturb us. Housecleaning in general is better postponed till later, but beds and bedrooms may well be cleaned now, especially if there is any danger of there being any of those little pests of which it is hardly polite to speak and that we would all like to ignore if it could be comfortably done. The beds should be thoroughly washed and all cracks examined and freed from dust, and then gone over with corrosive sublimate, using a feather to put it in all the cracks and being careful not to get it on the hands. Any druggist will put it up for you. It is very poisonous and great care should be taken to keep it out of reach. It is safest to take the precaution to get no more than you wish to use at a time. In cleaning house, try cleaning just one room a week. To do this one shall have to begin soon, or it will extend too far into the warm weather. Where there is nothing else pushing the housekeeper will find this a good time to look over bed and table linen, repairing and replenishing. It is well to get all sewing out of the way before the hot weather and heaviest work comes on.

Spring Sewing.

Hoping to be of service to some in making up spring clothing, I copy a few fashion notes from the Woman's Home Companion for March:

"Are you about to start the spring sewing for the little people of your family? If you are, there is no doubt about the perplexities that confront you. Each year at this season it is always so difficult to know of something new and something that will prove attractive for the little daughter's spring and summer clothes. It is just because of this fact that this special page of advanced fashions for children's frocks has been prepared.

Guimpe dresses are to be more the fashion than ever, and will be shown in a variety of designs. Of course, this is good news, for every mother who has a small daughter to dress appreciates the practical and really helpful features of the guimpe dress. It is the sleeves and neck of a frock that always soil quickest, and what a comfort it is to know that though the dress may be of some light-weight woolen that can not go into the tub, yet the guimpe which is worn with it may be washed and ironed and come out looking as fresh as ever.

Guimpes of all-over white embroidery will be much worn this coming season, and a very new idea will be the guimpe of fine ecru linen. An ecru linen or lawn guimpe, for instance, will be quite the smart thing to wear with a plaid or check cotton serge dress which has an ecru tint in its coloring. A convenient feature of the guimpe dress is that it may be worn with or without the guimpe, according to the weather.

The mother who believes in simple dresses for her daughter may have the happy consciousness this year of knowing that they are fashionable. Simplicity is a feature of the greater number of the new clothes for children. Small girls will wear many-plaited skirts this spring. Blazer suits and reefer suits will be made up in light-weight woolens and mohairs, and also, a little later in the season, in linen, pique, and chambray.

A new idea for a two-piece suit for a girl is a collarless reefer coat having a vest. The vest may be of all-over embroidery or embroidered linen. With the coat is worn a box-plaited skirt.

Separate coats show many box plaits, and both in dresses and coats a yoke is seen."

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In speaking of the styles for older girls and women, it comments as follows:

"Skirts are to be more elaborate than for some time past. Kilted skirts will be worn all through the spring, and box-plaited skirts are high style, especially when the trimming is arranged on the box plaits. It is the way the plaits are introduced in the new skirts that give them their touch of novelty. Overskirt effects are also good style. Very few plain skirts will be worn this spring. No matter how varied the skirts may be as to the arrangement of plaits, tucks, folds and trimming bands, they are all alike in the fact that they are fitted carefully and closely over the hips, and have much fullness at the bottom.

The vogue for the costume is on the increase. Princess dresses, both lingerie and silk, will be much worn, which means that each individual woman must look well to the lines of her figure. Jumper dresses are to be extremely popular. They will be made up in all sorts of fabrics, from inexpensive ginghams to high-priced embroidered silk tissues, and they will be worn on all sorts of occasions.

Very simple jumper dresses will be made up in gingham, chambray, cotton voile and linen for morning wear, to take the place of the shirt-waist suit. Soft satin and silk gowns will be designed on jumper lines and worn with all-over lace or embroidery guimpes. The jumper waists are some times so cut that but little of the guimpe shows, and then again they are merely an apology for a waist—a sort of skeleton affair, and of course, made purposely this way to display to advantage the beauty of the lingerie guimpe with which they are worn.

The lingerie waist is still very much in the foreground, and is worked out in every combination of linen, lawn, embroidery and lace. Some of the plain tailored shirt-waists of linen are given a feminine touch by adding narrow knife-plaited frills, either lace edged or hemstitched, on each side of the box plait and around the cuffs. On some of these waists, the plaited frills are edged with narrow strips of lawn in attractive colors, those in blue and dull pink being the most effective and girlish. To be worn with these are embroidered linen turn-over collars, with little plaited ties of lace and linen.

Two Appetizing Recipes.

Hot Rusk.—Take one cupful of sweet milk, one-half cupful of butter, one cupful of sugar, two eggs, and one-half cake of compressed yeast. Make a stiff batter by adding a little flour and stand in a warm place to rise. When very light work in enough flour to make a rather soft dough and stand in a warm place to rise again. Mold into rolls and set in pans to rise until twice their size, then rub over the top with sugar and milk, sprinkle lightly with cinnamon and bake. These can be made of equal parts of whole wheat and white flour and are delicious, but should always be served hot. When reheating them for the table, dip into

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ROYAL BAKING POWDER CO., NEW YORK.

old water before placing in the oven. Apricot Shortcake.—Drain the juice away from the fruit, and cut it in small pieces. Set in a warm place and proceed to mix the cake. This calls for one cupful of flour, four teaspoonfuls of baking powder, two teaspoonfuls of sugar, and half a teaspoonful of salt sifted together. Into this work four tablespoonfuls of butter, add three-fourths of a cupful of milk and stir into a light dough. Roll in a floured bowl and when one-fourth of an inch thick cut into generous squares. Brush the squares with melted butter, lay one on top of the other and bake in a hot oven. When done separate the pieces, spread the fruit between the layers and on top and drizzle whipped cream over all. A sweet sauce which may be served with the shortcake is made by adding to a cupful of the fruit juice one tablespoonful of cornstarch wet in a little water and boiled for a few minutes. A tablespoonful of butter is melted into the sauce and a tablespoonful of lemon juice is added just before serving.

The Young Folks

Young Women's Christian Association.

Any Young Woman who is planning to come to Topeka, will find peculiar advantages at the rooms of the Young Women's Christian Association, 623 Jackson Street. Rest rooms, reading room and such room are at the disposal of all women at any time. A boarding house directory is kept at the rooms, and also an employment bureau, free of charge. On each Sunday afternoon, at 4:15, a gospel meeting is held to which all women are invited. The first week of October is the time set for the opening of the club work, and the classes in Bible study, in English, Parliamentary Law, Sewing, Water Color and Travel. The Gymnasium also opens then, with classes in Physical Training under competent instructor. The printed announcements will be mailed on application to the General Secretary. A cordial invitation is extended to out-of-town women, especially to make use of the rooms.

A Boy's Remedy.

In thinking over different ways a boy can get relief to lighten up his load of cares and overstock of grief, it seems to me there's only one that fills the bill at all, that's to scamper to his ma an' let her hear him bawl.

I don't need much hard thinkin' to call sometimes to mind When I had bitter grievances against the humankind, how they used to lighten up an' kind o' float away When I'd sit down an' bellow near my ma for half a day.

You get licked at fightin' or get hit with a ball, or if you're climbin' in a tree an' have a real bad fall, you don't want patent medicines to soothe your throbbin' breast, but what you need's to find your ma an' bawl your level best.

If your ma's away from home don't waste a single tear, or not a grain o' comfort comes unless she's round to hear. Just tuck your grief away till night, when she comes home again, then run an' jump right in her lap an' bawl with might an' main.

Now it often seems to me, when busy cares perplex my things all work out crisscross, my peaceful soul to vex, I could only bellow like I used to when a boy, the noise would scare my grief away and fill its place with joy.

—Youth's Companion.

The Story of a Cat.

The first time that I saw "Scotty" was surrounded by a group of ad-

mirring children on the veranda of a summer cottage in Maine. The youngsters stroked his fur and pulled his tail, and arranged and rearranged a blue ribbon on his neck, and the big cat evidently enjoyed it all, for instead of running away, he marched about with arched back and tail erect, rubbing his sleek sides against the legs of his playmates.

For a week or two after this I often saw this cat, an enormous gray fellow with black bars, romping good-naturedly with any member of the household who would play with him. But one day a telegram came for the man who lived in the cottage, and he and his family made immediate preparations to leave for the West. In the general excitement nobody thought of the cat, until the question, "Is pussy goin', too," called attention to the baby, who now appeared with "Scotty," his head clasped tight to her bosom, and the rest of his body trailing on the floor. All the children wanted to take him, of course, but their mother and father, realizing the difficulties in the way of taking the cat, decided to leave him, believing that he was popular enough to be well looked after by the neighbors. And in this they were partly right, for as soon as the house was vacant the big gray cat found a warm welcome at any of the other cottages he chose to visit. But by and by the autumn came, and, with it, chilly days, which drove the cottagers, a few at a time, back to the cities. On the first of October the last family left the place, and "Scotty" was alone.

For a little while he got along without hardship. The weather was not very cold yet, and in a barrel at the back of one of the houses he found scraps which lasted for several days. After that he began to get hungry for the first time in his life, and he wandered from one deserted garden to another, hunting for something to eat. Now and then he would leap to the window-sills of houses where he had often been fed, and mew plaintively in hopes of gaining admittance.

One morning, when he had been without food for two days, there came a flurry of snow, and with it a flock of juncos, which alighted in the yard where the scraps had been. "Scotty" was crouching close to the back steps when they arrived, and in an instant his whole body took on an attitude of attention. He was hungry, and there was a breakfast close before him—if he could only catch it.

Silently he pressed his body closer to the ground, and slowly, as the hand of a clock, he moved towards the busy group of slate-colored birds. In his eyes there was a cruel look which had never been there before, and which became intensified as he drew nearer to his prey. At last he gathered his legs well under him, and, leaning forward, he sprang forward as though thrown from a catapult. There was a "whirr" of small wings among the scattering snow, and a flickering of white tail feathers as the juncos flew away—that is, as all but one flew away; "Scotty" crouched on the spot where he had landed; switching his tail angrily from side to side and growling as well as he could with his teeth buried in the body of his victim. In that hour self-reliance was born in him. No longer did he prowl about the gardens or mew beseechingly on the window-sills; he seemed to realize that he could satisfy his hunger only by capturing living creatures, and these he hunted from daylight until dark. And it did not take him long to find out that more game was to be had in the woods than near the houses, so into the woods he went and made his home in the hollow of a fallen tree into which enough leaves had drifted to make him a bed. Often he went desperately hungry, and once he almost starved to death, but a rabbit now and a squirrel then kept the life in his body until spring. Then the migrant birds began to return, and when they came in, tired and listless from their long journeys, he found them easy prey after the wary creatures he had hunted during the winter. And when they began to nest, his work became easier still, and he could either devour them in the nest, or fall upon them as they blundered about on the ground.



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As a destroyer he was worse in some respects than a fox or a skunk, for he could climb and nothing was safe from him. Among other birds, he killed pheasants and grouse, and during the spring, summer, and autumn he destroyed more game than any other creature in his territory.

The following winter was a very hard one and in spite of "Scotty's" great cunning and agility he often went hungry for days at a time. One bitter night, as he was stalking half-famished over the snow, he started across an open space in the forest. Next morning that open space looked like a battlefield, and indeed it was one, for the snow was plowed up for many yards around, and dyed with blood. Feathers and gray fur were strewn in a wide circle, on the outer edge of which lay a mangled, horned owl, with his mighty talons buried to the hilt in the back of a gray tom cat.—Earnest Harold Baynes in New York Evening Post.

About the Boy.

The boy that can be trusted gets the place of trust in the end. The boy that shirks or cheats may start off brilliantly, but look for him ten or twenty years later, and you will find him just where he belongs—among the failures.—Pilgrim Visitor.

An honest, industrious boy will always be in demand, by the merchant for a clerk, by the mechanic for an apprentice, by various people to run errands. When older he will be wanted as a lawyer, doctor, preacher, contractor, teacher, officer, citizen, friend, neighbor, visitor, business associate.—Marden.

Philosophy surely wanted a boy,
While Franklin worked at a printer's case;
Mechanics, when, low in the darkened mine,
By an engine, Stephenson found his place;
Nature, while Linnaeus, crushed and tried
As a cobbler, tolled out his sunless youth;
Freedom, ere Washington reached her arms
From childhood, up by the way of truth.
—Normal Instructor and Teachers' World.
The forum is echoing burning words
Of orators destined to pass away;
You will be wanted instead of them soon.
Men of the future are boys to-day.
—Mary R. Reese.

The Little Ones

The Land of Story Books.

At evening, when the lamp is lit,
Around the fire my parents sit,
They sit at home and talk and sing,
And do not play at anything.

Now, with my little gun, I crawl
All in the dark along the wall,
And follow round the forest track
Away behind the sofa back.

There, in the night, where none can spy,
All in my hunter's camp I lie,
And play at books that I have read
Till it's time to go to bed.

These are the hills, these are the woods,
These are my starry solitudes,
And there the river, by whose brink
The roaring lions come to drink.

I see the others far away,
As if in firelit camp they lay,
And I, like to an Indian scout,
Around their party prowled about.

So, when my nurse comes in for me,
Home I return across the sea,
And go to bed with backward looks
At my dear Land of Story Books.

—Robert Louis Stevenson.

A Walk.

ANNA DEMING GRAY.

We were out for a walk, Jean and I; for, to have a May-day right in the middle of February was a treat, and we wanted to enjoy the sunshine, and the soft, warm air.

"Mother," said Jean, taking a skipping step to keep up with me, "Mother, it's just like rope-time, isn't it?"

"Rope-time," I said. "Now what may that happen to be?"

"Why, don't you know, mother, there's special times for plays. It's that way with boys, too. First, there's marble-time, then there's top-time, then there's kite-time; all the betweens are ball-time. This day feels like rope-time 'cause it's so warm. I'm so glad we came off for a walk—just you and I. There's always so

many things to talk about. I didn't tell you half about the party. I told Mrs. Mason when the party was over that I had 'joyed myself. I told her that you said you s'posed there wouldn't be dirt in the ice cream—not 'zackly, but that it would be in everything else."

"Goodness, Jean!" I said, "what did she say to that?"

"She said, 'Why, my dear child, what do you mean?' I told her I couldn't tell her 'bout it; but you told me, and I'd ask you to tell her, some time."

"Very well, dear; I think we will go round by there on our way home. The sooner Mrs. Mason knows about it, the better."

"Gwon, mother, I'm so glad you got picked out to be my mother, for you are the very one I wanted, and there's lots of mothers, too. Gwon, and tell me what more things have got dirt in. Seems like we'd taste it. But I didn't at the party, 'cept in the caraway-seed cookies."

"Now, about the ice cream," I said. "It's made from milk and cream, which we owe to the cow. The cow depends on grain and grass, which the earth gives her. So in an indirect way we owe that too, to Mother Earth. I told you that all meat comes from animals; but if it were not for the plants that the earth gives us, the animals could not live. Think of the things we wear. Your little red dress there is wool. Most of our winter clothing is made from wool. The wool comes from sheep. They depend upon the earth for life. My jacket is silk. A tiny worm makes the silk. My furs are the skin of some animal. Our shoes are, too. Our cotton clothes are made from the seed of a plant."

"So you can see, dear, that not only what we eat, but what we wear are the gifts of Mother Earth."

"But more than this, the very house we live in was a gift from the earth. It is made of brick. Bricks are clay, and are made from a kind of ground. Stones for building are taken from the earth. If the house is of wood, it is made from trees, one of the earth's plants. The nails used in making our houses are iron. The glass in our windows is made from sand. The plaster on the walls is made of lime."

"Everything inside our houses—carpets, furniture, stoves, dishes, the coal or gas we burn—everything is a gift from this good old earth."

"But the One who planned the world, for the needs of His children, has clothed it with beauty too. See the soft blue and pink of the sky over there, with the sunlight shining through the bright clouds. Hear that robin—brave little fellow, he must have stayed all winter, and now he thinks it's May. Before long the leaves will come again, and the grass begin to get green."

"You must learn to notice and enjoy all the beauty about you, and be grateful for it too, for this dear old earth is beautiful as well as useful."

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Is the one you want.

Why not have a piano which is built on scientific principles throughout?

Everybody speaks highly of the BRADLEY PIANO.

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One style we sell at \$175 and One style at \$190—Sent out on Approval—Write us to-day—

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The elastic at the sides expands and contracts with the natural motion of the foot, insuring perfect ease and comfort. Can be worn all year round.

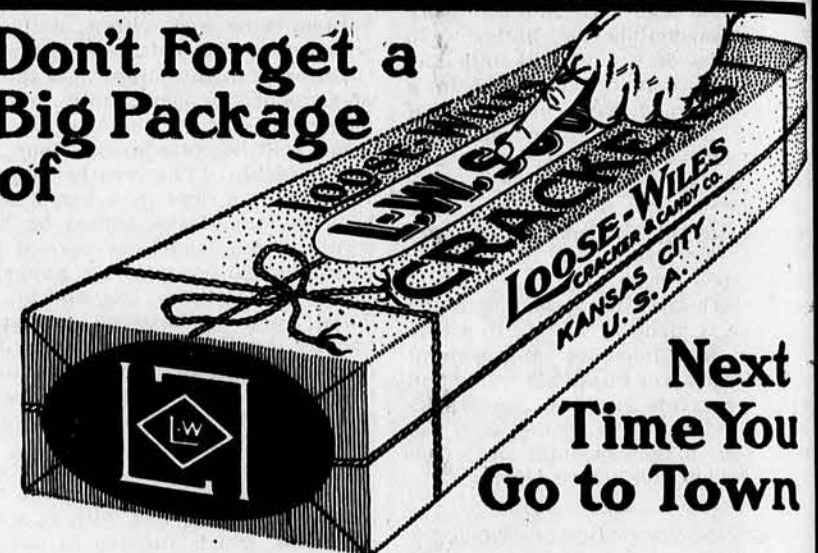
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FREE Send the name of a dealer who does not handle "Martha Washington" shoes and we will send you free, postpaid, a beautiful picture of "Martha Washington," size 15x20.

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See that it's on your list.

See that your grocer has it.

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Then you'll have what you wanted.

You'll be saved an extra trip.

You'll be saved the disappointment that comes with every paper bag of bulk crackers—soggy from exposure to moisture, broken and crumbled because it can't be helped.

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Made in a modern bakery by our exclusive method—from soft winter wheat flour that has *all the good* of the wheat.

Clean—crisp—cheap—convenient.

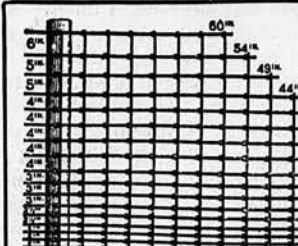
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BY HIS WIFE

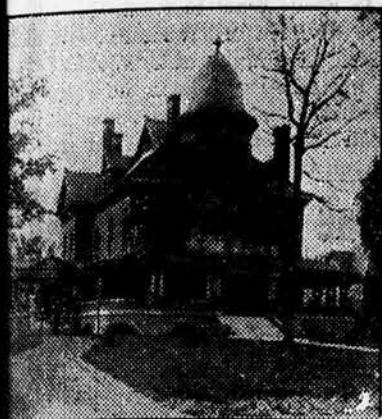
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Mrs. Cora B. Miller Makes a Fortune

Started a Few Years Ago With No Capital,
and Now Employs Nearly One Hundred
Clerks and Stenographers.

Until a few years ago Mrs. Cora B. Miller lived in a manner similar to that of thousands of other very poor women of the average small town and village. She now resides in her own palatial brown-stone residence, and is considered one of the most successful business women in the United States.



Mrs. Miller's New Residence Earned In
Less Than One Year.

Several years ago Mrs. Miller learned of a mild and simple preparation that cured herself and several friends of female weakness and piles. She was besieged by so many women needing treatment that she decided to furnish it to those who might call for it. She started with only a few dollars' capital, and the remedy, possessing true and wonderful merit, producing many cures when doctors and other remedies failed, the demand grew so rapidly she was several times compelled to seek larger quarters. She now occupies one of the city's largest office buildings, which she owns, and almost one hundred clerks and stenographers are required to assist in this great business.

Million Women Use It.
More than a million women have used Mrs. Miller's remedy, and no matter where you live, she can refer you to ladies in your own locality who can and will tell any sufferer that this marvelous remedy really cures women. Despite the fact that Mrs. Miller's business is very extensive, she is always willing to give aid and advice to every suffering woman who writes to her. She is a generous, good woman and has decided to give away to women who have never used her medicine \$10,000.00 worth absolutely FREE.

Every woman suffering with pains in the head, back and bowels, bearing-down feelings, nervousness, creeping sensations up the spine, melancholy, desire to cry, hot flashes, weariness, or illness from any cause, should sit right down and send her name and address to Mrs. Cora B. Miller, Box 5180, Kokomo, Ind., and receive by mail (free of charge in plain wrapper) a 50-cent box of her marvelous medicine; also her valuable book, which every woman should have.

Remember this offer will not last long, for thousands and thousands of women who are suffering will take advantage of this generous means of getting cured. So if you are ailing, do not suffer another day, but send your name and address to Mrs. Miller for the book and medicine before the \$10,000.00 worth is all gone.

TAPE-WORM Expelled alive in 60 minutes with HEAD or no charge. No fasting, no sickness, no pain. Medicine pleasant and perfectly harmless. Medicine sent to any part of the country. Large booklet containing valuable information FREE. Illustration shows segments (joints) of common tapeworm in different stages of contraction and expansion; these joints pass in the stool, also crawl away from one troubled with tapeworm.

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Don't Eat Glucose.
Use our Percolator (the family size and with the simple use of granulated sugar and cold water, make the purest and best syrup in the world, at a much less cost than you are paying for glucose or corn syrup. Operation perfectly automatic. Syrup cannot sour or crystallize. No waste. Price \$2.50. Write for full information.

Ever-Ready Syrup Percolator Co.,
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Agents wanted.

BEE SUPPLIES
We can furnish you bee and all kinds of bee-keepers' supplies cheaper than you can get elsewhere, and save you freight. Send for our catalogue with discount sheet for early orders.

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Club Department

OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.

President.....Mrs. May Belleville Brown, Salina
Vice-President.....Mrs. L. H. Wishard, Topeka
Cor. Secretary.....Mrs. N. I. McDowell, Salina
Rec. Secretary.....Mrs. W. D. Atkinson, Parsons
Treasurer.....Mrs. H. B. Asher, Lawrence
Auditor.....Mrs. Grace L. Snyder, Cawker City

Our Club Roll.

Excelsior Club, Potwin, Kansas, (1902).
Women's Literary Club, Osborne, Osborne County, (1902).
Women's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1898).
Ladies' Social Society No. 1, Minneapolis, (Ottawa County (1898)).
Challiso Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literateur Club, Ford, Ford County (1903).
Star Valley Women'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 Farmer's Institute, Marysville, Marshall County (1902).
Women's Country Club, Anthony, Harper County.
Richardson Embroidery Club, Madison, Greenwood County (1902).
Fretless Reading Club, Cawker City, Mitchell County (1903).
Cosmos Club, Russell, Kansas.
The Sunflower Club, Perry, Jefferson County (1905).
Chaldean Club, Sterling, Rice County (1904).
Jewell Reading Club, Osage County.
The Mutual Helpers, Madison, Kansas (1906).
West Side Study Club, Delphos (1906).
Domestic Science Club, Berryton, Shawnee County (1906).
Mutual Improvement Club, Vermillion, Marshall County (1903).
Clio Club, Columbus, Kansas (1897).
Centralia Reading Circle, Nemaha County.
(All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.)

Ladies' Social Society of Minneapolis, Kans.

The Ladies' Social Society No. 1 meets every two weeks on Thursday afternoons. Sometimes we meet in town, other times in the country. We elect officers twice a year, and at that time the president appoints a committee of three, who look after and reports those who are sick, or need our help. She also appoints two at each meeting to make arrangements for a program or entertainment for the next meeting.

We are planning now to celebrate our nineteenth anniversary, which will be the nineteenth of April. We will have a program and a table of fancy and useful articles to sell. The money will be used to buy books for our library.

MRS. LILLIE BABCOCK,
Secretary.

The Club Women and the Legislature.

The club women of Kansas have not been idle this winter, and have accomplished a few things that will make for the betterment of the next, as well as for the present generation. Women's endeavors are always in the interest of the home and the children.

The traveling art gallery, which is owned by the State Federation, includes three collections of copies of famous pictures, valued at about \$3,000. This, the federation asked the State to accept and make it an adjunct to, and part of the State traveling library, and place it under the direction and control of the Kansas traveling library's commission. A bill was introduced, accepting the collection as above stated, and has passed both houses.

The art gallery has been in the care of Mrs. Kate Applington, of Council Grove, who raised the money for the original collection, and made the selection of the pictures. It has been in constant use by clubs and schools, and has been self-supporting and paid for all additional pictures. It will, in the future, be known as the Applington Art Gallery.

The federation's kindergarten bill has passed both houses. It enables public school authorities to establish kindergarten schools for children from four to six years of age.

For these bills, the federation worked faithfully, through a committee of women. The pure food bill and the anti-child labor bill have both become laws. The clubs were much interested in these and circulars were sent out in their behalf.

If there is one farm text that should be repeated earnestly and often, it is, "Farmers, feed your crops."

STOP WOMAN AND CONSIDER



First, that almost every operation in our hospitals, performed upon women, becomes necessary because of neglect of such symptoms as Backache, Irregularities, Displacements, Pain in the Side, Dragging Sensations, Dizziness and Sleeplessness.

Second, that Lydia E. Pinkham's Vegetable Compound, made from native roots and herbs, has cured more cases of female ills than any other one medicine known. It regulates, strengthens and restores women's health and is invaluable in preparing women for child-birth and during the period of Change of Life.

Third, the great volume of unsolicited and grateful testimonials on file at the Pinkham Laboratory at Lynn, Mass., many of which are from time to time being published by special permission, give absolute evidence of the value of Lydia E. Pinkham's Vegetable Compound and Mrs. Pinkham's advice.

Lydia E. Pinkham's Vegetable Compound

For more than 30 years has been curing Female Complaints, such as Dragging Sensations, Weak Back, Falling and Displacements, Inflammation and Ulceration, and Organic Diseases, and it dissolves and expels Tumors at an early stage.

Mrs. Pinkham's Standing Invitation to Women

Women suffering from any form of female weakness are invited to write Mrs. Pinkham, Lynn, Mass., for advice. She is the Mrs. Pinkham who has been advising sick women free of charge for more than twenty years, and before that she assisted her mother-in-law, Lydia E. Pinkham in advising. Thus she is especially well qualified to guide sick women back to health. Write today, don't wait until too late.

Grand Canyon Line
Santa Fe
All the way
Colonist
Excursions
CHICAGO
\$25
San Francisco
Los Angeles
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One-way tickets at this low rate will be on sale daily, March 1 to April 30, at Kansas City and St. Joseph, Mo., and all Santa Fe stations in Kansas and Oklahoma. Corresponding rate from other points.

Free chair cars; tourist sleepers, small extra charge. Personally conducted parties tri-weekly.

A tourist booklet, with full information about the trip and trains, will be sent free on request. Valuable information about lands in our folders, "San Joaquin Valley," "Free U. S. Government Lands," and "The Earth."

J. M. Connell, General Passenger Agent,
The Atchison, Topeka & Santa Fe Ry.,
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Let Your Wife or Sweetheart Decide
We are shipping White Hickory Flyers all over the country, with the understanding that if the test of the road doesn't prove them the equal in elegance, easy-riding qualities, durability, workmanship and material, to top buggies that others sell at \$75 to \$100, we are to take them back and pay the freight both ways. We make you the same offer.

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covers material, workmanship—everything! Signed in ink by our General Manager. WE UNDERSELL ALL COMPETITORS, because we own our own factories and make everything ourselves complete from raw material. CATALOGUE AND OVER 100 SPECIAL PRICE OFFERS FREE. We positively save you \$25 to \$50 on a top buggy. Write **CONSUMERS CARRIAGE MFG. CO., Dept. AB, CHICAGO, ILLS.** References—Peoples Trust and Savings Bank; all Commercial Agencies.

\$31,500,000.00 at Risks

30,000 Members

The Farmer's Alliance Insurance Company of McPherson, Kansas

We furnish insurance at cost; 15 years of successful business. Why carry your insurance with others when you can get it in this company at much less cost. Write for full particulars of our plan.

C. F. Mingenback, Sec., McPherson, Kansas

Dairy Interests

Production of High-Priced Milk.

People who do not have to buy milk, but receive it fresh from the cow, twice daily, little realize the luxury they enjoy. But the dwellers in large cities know from sad experience that milk is a "perishable" article. Modern research has shown that milk may be so handled as to preserve its desirable qualities long enough to meet the needs of the city consumer. This city consumer is willing to pay a price that will compensate for the labor and other expenses of proper handling. To show what such proper handling is, we reproduce from Coleman's Rural World an article by C. D. Lyon, in which is described a successful modern establishment for the production of high-grade milk. Mr. Lyon says:

"It is not generally known that at Greenwood, thirty miles southeast of Kansas City, on the Missouri Pacific and Rock Island Railroads is an establishment that is the equal of any of the famous sanitary milk concerns of the Eastern States, and that carries in its stables the finest dairy herd of registered cattle in the world. This is the property of Dr. Geo. C. Mosher, a prominent physician of Kansas City, and president of the Missouri Dairy Association, whose sole object is to make sanitary milk and cream for the Kansas City market.

"The main dairy-barn is 76 by 145 feet, including milk-house, and is arranged with the strictest regard for cleanliness and sanitation. The floors are of cement, with board platforms under the cows, continuous cement mangers in front, as well as watering devices, so arranged that water is kept constantly before the cows. The water supply is from a spring lake some distance from the barns; forced by a gasoline pump to an immense cistern, and from here pumped to tanks in the top story of barn. The King system of ventilation is used, and as the floors, mangers, and manure gutters are flushed daily, the barn is as free from odor as an ordinary living room.

"The cows are bedded with hard wood planer shavings, renewed daily. The gutters are kept cleaned and flushed, the liquids being stored in a manure cistern through a set of sewers, and this liquid distributed over the fields by an ordinary street-sprinkling tank, the solids being hauled directly to the fields by a large manure-spreader.

"The milkers and dairy-room men wear white suits, kept scrupulously clean. The cows' udders and flanks are sponged before milking, and no milker enters the dairy-room during milking hours, this being obviated by an anteroom between the stable and dairy-room, where the scales, milk-sheets, and small tank, leading to the receiving tank for milk, are kept. All feeding is done after milking, and only the choicest alfalfa hay, meals, silage, and bran are used; the doctor and Mr. W. G. Lyon, his foreman, being 'cranks' upon the subject of feeds, and insisting that first-class milk can only be made from first-class feed. Two 16 by 34 foot silos contain as fine a lot of silage as the writer has ever seen. Alfalfa hay, bran, and meals are bought in carload lots, and all carefully inspected before being fed, the hay being thoroughly shaken out to remove dust.

"There are at present forty cows in milk, about thirty of these being in the A. R. O. class, with the intention of placing the others there in the near future. These cows are butter-bred Holsteins; individual records of some of them being: Hadria 2d, milk 1 day 73 pounds, 120 days 6,709 pounds; butter 120 days 300 pounds. Josie 4th Pauline DeKol, milk 1 day 85 pounds, 7 days 520 pounds; butter 7 days 19.3 pounds, butter 1 day 3.2 pounds. Her sister, Aggie Cornucopia Pauline, is world's champion, with a 7-day record of 34.5 pounds of butter. Dolly Wayne gave 16,500 pounds

of milk in one year, 18.1 pounds of butter in 7 days.

"Two grand herd-bulls are kept at Hillcrest Farm. They have been especially selected, regardless of expense, for the high butter-fat tests of their female ancestry for generations. The senior herd-bull, Prince Luka Pieterje DeKol 2d, has had 21 daughters with official records for butter, 2 over 20 pounds in 7 days, one 25 pounds 8 ounces in 7 days, and 97 pounds in 30 days. This bull is a show bull, a prize-winner and typical dairy type animal, weighing in good form 2,400 pounds. He was raised by Hon. Jerry Rusk, former Secretary of Agriculture. Many of the young cows in the herd are daughters of Old Prince. The junior bull, Hillcrest Sarcastic Lad, first-prize champion and grand champion at the St. Louis Exposition, who has more sons at the head of prominent herds than any living bull in America. Hillcrest Sarcastic Lad has 23 sisters with official records for butter. His dam, Wisconsin Bess, has a record of 21 pounds 11 ounces in 7 days. His grandam, Belle Sarcastic, holds the world's official record for one year, 2,309 pounds of milk, 901 pounds of butter. The daughters of Prince are bred to this young bull and are producing some fine examples of high-class butter-bred Holsteins. The farm has at present some twenty young bulls, kind and gentle as kittens.

"It requires five men, exclusive of the foreman, to run the place, and but for conveniences about the farm and barns would take more to keep it up to its present standard.

"Dr. Mosher has had the dairy inspected by the president of the Kansas City Veterinary College, the city health officer, city chemist, food-inspector and milk-inspector, and all of these speak in terms of highest praise of the concern, the health officer saying, 'It is a model dairy, operated in an up-to-date, scientific manner, and where sanitation is rigidly enforced.' State and National dairy experts, as well as representatives from foreign lands, have visited the farm in the past year, and all concede it to be one of the best-managed dairies, so far as sanitary milk is concerned, to be found in the world.

"Visitors are welcome, and while they will find nothing done for effect, and everything to secure a high-grade, pure, sanitary product, we think a visit to Hillcrest Farm and a walk through its barns will pay any of our readers."

To Break Self-Sucking Cow.

EDITOR KANSAS FARMER:—In your last issue B. P. Foster, of Ralston, Okla., asks how to break a cow of the habit of sucking herself. A remedy which I have found very effective is to grease the teats, and afterwards smear over the grease with cayenne pepper. While keeping this up you still have the use of the milk. This remedy will eventually break a cow of sucking herself. A SUBSCRIBER. Rice County.

The Veterinarian

We cordially invite our readers to consult us when they desire information in regard to sick or lame animals, and thus assist us in making this Department one of the most interesting features of The Kansas Farmer. Kindly give the age, color, and sex of the animal, stating symptoms accurately, and 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 full name and should be addressed to the Veterinary Department of The Kansas Farmer, Topeka, Kansas, or to Dr. C. L. Barnes, Veterinary Department, Kansas State Agricultural College, Manhattan, Kansas. If in addition to having the letter answered in The Kansas Farmer, an immediate answer is desired by mail, kindly enclose a 2-cent stamp. Write across top of letter: "To be answered in Kansas Farmer."

Ailing Sow.—Valuable sow will not eat; drinks very little slop, seems weak in hind parts, can not walk straight. Has ten pigs 1½ months old. Let her run on alfalfa short time each day, otherwise has nothing to eat except soaked corn and shorts made into a slop. W. F. Auburn, Kans.

Answer.—A stimulating liniment such as the following may greatly benefit the sow: 4 ounces of tincture of



Mrs. J. Renken, Trenton, Ia., says "We cleared \$100.00 in six months off seven cows."

THE SHARPLES SEPARATOR CO.,
Toronto, Can. WEST CHESTER, PA. Chicago, Ill.

TO FARMERS AND DAIRYMEN

It will pay every farmer or every farmer's wife to sit right down and write for Sharples "Business Dairying." This valuable book contains information that can be found in no other book, and will help any dairyman to make his business more profitable. It tells How to Feed, What to Feed, How to Care for Feed, What Foods Produce Greatest Amount of Milk, How to Care for the Dairy Cow in the way to get best results, and the whole book is practical. To get all the good out of your milk you should of course use

THE SHARPLES TUBULAR CREAM SEPARATOR

It is not only guaranteed to more than pay for itself annually, but the ease with which you can skim, the low can, the self-oiling bearings, the simple Tubular bowl with only one little part inside to wash, the moderate price, are all points you should know about. Send today for the free "Business Dairying" and full information about the Sharples Tubular, giving number of cows you keep. Ask for booklet G. 165

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A dollar saved is a dollar earned.

Any cream separator will make some money for you.

But, if you knew of a cream separator that would not only make the most dollars, but would, at the same time, save the most dollars you'd buy it, and buy it now. Investigate the

Improved Frictionless EMPIRE Cream Separator

It's the separator you need, and want. That sounds like a big claim. But claims proved become facts. The Empire proves its claims.

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Haven, Kans.

R. R. BEALL, Manager.
Kansas City, Mo.

The National Grain & Elevator Co.

Receivers and Shippers of Grain.

This Company is conducted on the cooperative plan by the Independent Cooperative Elevators. We are the terminal for Farmers and Independent Elevators and solicit your membership and patronage.

ARE YOU POSTED

on the recent development in the Grain Trust investigation by the Interstate Commerce Commission? IF NOT, ASK US. Why don't you farmers fight the Trust? We will help you, if you will help yourselves.

DO YOU KNOW

that the President of the Kansas City Board of Trade admitted in his testimony at the hearing of the Interstate Commerce Commission that they had boycotted The Independent Farmers' Terminal Co.?

The National Grain & Elevator Co.

Kansas City, Mo.

References—The Editor of this paper.

The Cheapest Form of Health Insurance

YOU can buy Health Insurance now. Several good "Accident" Companies sell it. Sixty dollars per year will bring you \$25.00 per week, for every week you are sick.

But, your time alone may be worth far more than that.

And \$200 per week might not pay for your suffering.

That's why "Cascaret" Insurance, which prevents Sickness, is worth ten times as much money as other "Health" Insurance.

Yet "Cascaret" Insurance will cost you less than Ten Cents a week.

That gives you a "Vest Pocket" Box to carry constantly.

* * *

One tablet taken whenever you suspect you need it will insure you against 90 per cent of all other ills likely to attack you.

Because 90 per cent of these ills begin in the Bowels, or exist through poor Nutrition.

Cascarets don't purge, don't weaken, don't irritate, nor upset your stomach.

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The time to take a Cascaret is the very minute you suspect you need one.

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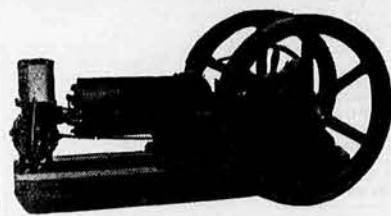
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We Will Pay Men \$85 Per Month to travel, collect names, advertise and give away samples. Expenses advanced. Write today. H. G. Phelps Company, Chicago.

contharides, 4 ounces of tincture of capsicum, and a pint of compound soap liniment. Shake together and apply over the back and loins daily until sore, then withhold for two or three days and begin again. This ought to help get the sow on her feet. Would advise feeding ground oats and bran rather than any more corn.

Horse With Cough.—I have a horse that has had a cough since last September. I can't tell what causes it. When he pulls up hill he can scarcely stand up and then he will get better. About the time I think he is almost well he will have another attack. I thought it might be the heaves. At ordinary work he will not cough so hard but when trotting or pulling he will cough very hard. He seems to be quite bad now. Is 11 years old and weighs 1,400 pounds and never had this cough until last September. He holds his flesh well and has a good appetite. Centerville, Kans. **SUBSCRIBER.**

Answer.—In regard to your horse that coughs, would recommend that you use a stimulating liniment over her throat that is sore, then withhold the medicine for a few days, and begin again. Better apply the medicine at night after you are through working her.

Gelding has Sore Knee.—I have a 5-year-old gelding that was hurt on his right knee about a year ago either by striking it against the manger or by fighting with the other horses. He was very lame about 6 months before it began to swell and then it became swelled to about double its size. I poulticed it and tried some liniment which took down the swelling to about two fingers laid across the front of the knee which is a hard, bony enlargement. The knee is neither stiff or crooked and he is not lame in walking, only in running he is quite lame. The knee is sore to the touch. His color is brown, weight about 1,000 pounds and is in good flesh. C. J. Scottsville, Kans.

Answer.—If you will secure 8 ounces of eucalyptol and place in one quart of water and rub on your animal's knee daily until sore, then withhold for a few days and begin again, I think in the course of a month you will have your animal entirely cured.

Lame Mare.—I have a dun colored mare, 9 years old that is a good work and saddle horse and fine breeder. I have only owned the mare for a short time. When I traded for her I noticed her left foot at the ankle was much larger than the right one from wind galls, but as I had never seen her lame I thought this of no consequence. Only a short time after I got her, after a little riding I found her lame in the left foot, the one with the wind galls. After resting a while it all disappears. H. L. P. Weingarten Station, Mo.

Answer.—In regard to the animal you have that is lame, would suggest that you use a stimulating liniment on the back of your animal's leg. Use it daily until sore, then withhold for a few days and begin again.

Cow Out of Condition.—Cow stays poor. Has what seems to be garget and milk from that teat is thick.

Herington, Kans. **W. J.**

Answer.—I think the following tonic is what your cow needs: One ounce of pulverized nux vomica, 4 ounces pulverized gentian, 2 ounces pulverized iron sulfate, 8 ounces pulverized glycyrrhiza root, ½ pound sulfur, 1 pound salt. Mix well with 10 pounds oil-meal and give a heaping teaspoonful night and morning in ground feed. Give the cow plenty of salt and green grass.

Bog Spavin.—Mare has had bog spavin on left hind leg for two or three years. Have blistered it four or five times. Can anything be done to remove it. J. F. Oakhill, Kans.

Answer.—For the bog spavin apply the following: Sulfuric ether 4 ounces, tincture of iodine 8 ounces, tincture of cantharides 2 ounces, compound soap liniment sufficient to make a quart. Apply to affected parts daily until sore. Withhold for a few days and begin again.

The "old reliable" KANSAS FARMER is an efficient assistant on the farm.

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Capacity is an important consideration in the purchase of a cream-separator. It enters largely into the cost and value of the machine, and there is no way of properly gauging either without reference to it.

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90 WHITE PLYMOUTH ROCK EGGS FOR \$3—From prize-winning pens, line bred, large size and pure white, also one M. B. gobbler for sale. I pay the express charges. J. C. Bostwick, Hoyt, Kans.

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BARRED ROCKS my specialty; a fine lot of cockerels from prize winners for sale reasonable. Peter Baber, Neosho Rapids, Kans.

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Many first prize winners in Kansas and Oklahoma. 12 females scoring 91 to 94½ by McClave, Emery & Helmlock. Hens and eggs to order. Pedigreed Collies from imported prize winners. Fine young stock for sale. Mrs. J. T. Woodford & Son, 3600 E. Central, Wichita, Kans.

FOR SALE—Pure-bred B. P. Rock: few left, \$1.50 each; pullets \$2 per dozen, \$5 half dozen; eggs in season 50 cents per sitting of 15, \$3 per 100. Hill Crest Fruit and Poultry Farm, North Central Avenue road, Topeka, Kans., independent telephone 4351. Address A. C. Merritt, R. F. D. 4.

White Plymouth Rocks

Cockerels for sale at \$1 each. Eggs for hatching 15 for 75c. Address C. V. Johnson, Luray, Kans.

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Largest and whitest in the west. Line bred for heavy egg production; Kansas State Show '07 I won 1st cockerel, 2d pen, 3d, 4th hen; Anthony, '06 1st cockerel 96½, 1st pen 91½, 1st hen 95½, 1st pullet 96½. Write for egg prices. Chas. C. Fair, Sharon, Kans.

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Also Nine Other Leading Varieties. If you want to win at the poultry shows, or make a success of poultry on the farm, we can supply you with stock. Circulars free. Write your wants. A. H. Duff, Larned, Kans.

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will surely please you. High scoring prize-winners. Pens mated now. Send your orders early. No eggs after May 15. (From pens \$2 per 15, from flock \$2 per 100. Send for circular. Long distance phone Walton. C. C. Lindamood, Walton, Kans.

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EGGS { \$3 per 15 | Get the Best
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EGGS! EGGS!

I feel confident from the Steel Blue Barred Plymouth Rocks will be produced some prize-winning chicks for you, whether you wish them for show birds or on the farm. Let me have your order and the chicks will speak for themselves. It costs no more to raise fine birds than inferior ones, and the extra small expense of starting should not be considered for the results and satisfaction you would get out of this Famous Strain would overcome all. Try them. Write for catalogue, it's free. JOE B. MOORE, originator and breeder of the renowned Steel Blue Barred Plymouth Rocks, Mexico, Mo.

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 96½, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay express to any express office in the United States. Write at residence adjoining Washburn College. Address THOMAS OWEN, Sta. B, Topeka, Kans.

RHODE ISLAND REDS.

Rose Comb Rhode Island Red eggs for sale. Circular free. G. D. Willems, Inman, Kans.

R. C. R. I. Reds—Pure-bred cockerels for sale \$1 each. A. L. Scott, Route 1, Larned, Kans.

GOLDEN RULE FARM.

R. C. Rhode Island Reds Won fourteen prizes on our Reds at the two great Kansas State Poultry Shows January 1906-7. No stock for sale. Eggs for hatching. Egg circular free. A. D. Willems, Minneapolis, Kans. (formerly of Iqman, Kans.)

FOR SALE—Rose Comb Rhode Island Red chickens. High grade Red Polled bull calves. J. W. Poulton, Medora, Kans.

RHODE ISLAND REDS—Cockerels, S. C. R. I. Reds from prize winners. Red to the skin. Eggs in season. Good Hope Fruit & Poultry Farm, Troy, Kans.

ONE DOLLAR buys 15 eggs of either Rose Comb R. I. Reds or Barred Rocks from prize-winning stock at the college show. Mrs. A. J. Nicholson, Manhattan, Kans.

SALMON FAVEROLLES.

Salmon Faverolles

are unexcelled as layers both winter and summer as broilers on account of early maturity and quality of flesh. Weight, hens 6 to 7 lbs., cocks 7 to 8½ lbs. Eggs \$2 for 15. A. R. Alsworth, Newton, Kans.

The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Poultry Notes.

The busy season for poultrymen is now on, and the hatching of chickens is the absorbing problem. There is more demand for incubators this spring than we have ever known, and if there will not be an immense number of chickens hatched, it will not be because the people did not try to hatch them.

The popularity of the sitting hen is on the wane, and the wooden hen is now the favorite medium of hatching chickens. But the hen can congratulate herself that though her services as a hatcher are no longer appreciated, no machine can take her place in producing eggs.

The poultry department of the Kansas State Agricultural College is now carrying on a feeding test for egg-production, with six pens of White Leghorns. Pen 1 is fed corn and ground beef-scrap, a prepared food. Pen 2 is fed corn and casein, bought from the creamery; pen 3, corn and Pape's food (corn-chop, wheat, and casein); pen 4, corn and wheat; pen 6, Kafir-corn and ground beef-scrap. The hens are practically the same age. Green food is given them in the shape of clover, alfalfa, and various cut grasses and weeds. Oyster shells are kept before them all the time. The corn is fed twice a day, but all other food is kept before them constantly in hoppers. We await the results with a great deal of interest.

The Topeka Poultry Show.

The show of the Topeka Poultry Breeders' Association has been in progress this week and was a very creditable exhibit, considering the short notice on which the affair was gotten up.

There were over 500 birds on exhibition, with a display of incubators, brooders, and poultry supplies, never equaled at any previous Topeka show. A feature of the show was the large number of birds shown by individual breeders. One man exhibited fifty-four Single Comb Brown Leghorns; another over forty Single Comb Rhode Island Reds; another about forty Buff Orpingtons and Buff Leghorns; another over two dozen Barred Plymouth Rocks.

There would have been a much larger number of birds were it not for the fact that most of the breeders had their pens of chickens already mated for the season, and hated to break up the pens. On the other hand, the lateness of the show was favorable to the condition of the birds, being in full plumage, and in excellent shape for judging.

Judge Rhodes did the scoring and pronounced the fowls as being of extra good quality. E. C. Fowler was secretary of the show, and F. L. Whitaker was superintendent. Both of them performed their duties in a very creditable manner, and to the satisfaction of the exhibitors.

During most of the week the weather was very unfavorable for the attendance at the show, and the door receipts were not as large as expected. However, the undertaking will come out all right financially, and has given quite an impetus to the poultry industry in this territory.

Questions About Turkeys.

EDITOR KANSAS FARMER:—Will you kindly let me know through your valuable paper what causes scaly legs on turkeys. The scales do not look like those that form on chickens, and extend into the fleshy part of the leg. Is there a remedy for it? Is it contagious? Please let me know. The turkeys have free range.

Is there a breed of turkeys by the name of Black Mammoth Bronze? I have never heard of this breed before, and would like to know if it exists. I have the Mammoth Bronze turkeys.



From a practical standpoint hens are simply egg machines. They take the feed, convert it, and lay the eggs. But like every other kind of machine, to do the most work, the hen must be in perfect order. The digestive apparatus is the important factor in egg production. Many poultrymen feed an abundance of good albuminous food such as should produce a profitable egg yield, but if the digestion is impaired and the egg-organs dormant, no amount of food will produce the desired results. But give the fowls a tonic to increase the digestion, a little iron for the blood, and regulate the system generally, toning up the egg-organs and you are certain to get eggs even in the coldest weather.

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the prescription of Dr. Hess (M. D., D. V. S.), contains all these principles to increase egg production and cure cholera, roup, indigestion, etc. It has the indorsement of leading poultry associations of the United States and Canada, costs but a penny a day for about 30 fowls and is sold on a written guarantee.

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WHITE WYANDOTTES ONLY—15 eggs \$1. H. F. Brueggemann, R. 2, Herington, Kans.

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PARTRIDGE WYANDOTTES—Eggs for sale, 1 sitting 15 for \$3, 2 sittings \$5, and \$10 per 100. From best strains in Kansas. D. Holtschulte, Sabetha, Kans.

EGGS FOR HATCHING—Prize-winning stock. Golden Wyandottes. \$1.50 per 15. M. B. Turkeys \$3 per 10. Mrs. A. B. Grant, Emporia, Kans.

WHITE WYANDOTTES—Pen No. 1, score 94 to 96½ by Atherton. Eggs \$2 per 15. 100 others bred to lay high scoring eggs \$1 per 15; \$4 per 100. J. L. Moore, Eureka, Kans.

WHITE WYANDOTTES—White P. Rocks and Rose C. B. Minorcas. Wyandottes and W. P. Rock eggs, 15 for \$1; Minorcas eggs, 15 for \$1.50. Eggs for hatching from high-class poultry. R. F. Meek, Hutchinson, Kans.

WHITE WYANDOTTE EGGS from choice matings; \$1.50 per fifteen. S. W. Arts, Larned, Kans.

WHITE WYANDOTTES—Good stock, splendid layers; eggs \$1 per 15. L. E. Brown, Norton, Kans.

Pure-Bred White Wyandotte cockerels, unscoured, \$1 each. Emma Coppedge, Norcatur, Kans.

WHITE WYANDOTTE eggs \$1.50 for 15 from choice pens, \$5 per 100 from selected free range stock. Indian Runner duck eggs \$1.50 for 15; Mammoth White Holland turkey eggs \$1.50 for 8; White African guinea eggs \$1.50 for 17; a few pairs of guineas yet for sale. Order now. Mrs. L. D. Arnold, Enterprise, Kans.

Hammer's White Wyandottes

Eggs from first pen \$2 per 15; from second pen \$1.50; from flock at large \$1 per 15; \$5 per 100. My strain is noted for eggs.

Lewis A. Hammer, Clearwater, Kans.

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White Wyandotte cockerels \$1 each. White African Guinea \$2 pair. Indian Runner Ducks \$2.50 pair. Choice farm-raised stock. Some prize winners. L. D. Arnold, R. F. D., Enterprise, Kans.

WHITE WYANDOTTES.

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WYANDOTTES—Pure white. Young stock at \$1 each. L. E. Brown, Norton, Kans.

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We pay all express charges. Eggs from stock scoring from 90 to 93 points by Rhodes; \$2 for sitting of fifteen; choice farm range \$5 per hundred. Good hatch guaranteed or eggs replaced.

A. E. Kroth, Soldier, Kans.

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SCOTCH COLLIE PUPS for sale from registered parents. Address W. R. Dawdy, Jewell, Kans.

LEGHORNS.

S. C. BROWN LEGHORN EGGS \$5 per hundred from birds as good as show birds but on free range. Mrs. W. J. Grist, Ozawie, Kans.

S. C. BROWN LEGHORN EGGS—From prize-winning stock at state shows at Wichita and Topeka. Price \$2 for 15. P. A. Peterson, 83 Coney St., Topeka, Kans.

THEY LAY; THEY PAY—S. C. White Leghorns. My pen is of the finest in the west, headed by Van Natta's greatest World's Fair winners; eggs \$1.25 for fifteen, \$5 per hundred. E. Boltwood, R. 1, Ottawa, Kans.

S. C. WHITE LEGHORNS. Stock and eggs for sale. Eggs \$1 per 15. Prize winning egg stock. Leghorn egg man. W. C. Watt, Walton, Kans.

CHOICE PURE-BRED R. C. Brown Leghorn cockerels and pullets at \$1 each. Eggs \$1 per 15. Mammoth Pekin duck eggs \$1 per 15. Reduced price on large orders. Mrs. J. E. Wright, Wilmore, Kans.

SINGLE COMB BROWN LEGHORNS—Best laying strain in the world. Eggs \$1 per sitting, 3 sittings \$2.50, \$5 per 100. Everett Hayes, Hiawatha, Kans.

PURE SINGLE COMB BROWN LEGHORNS eggs, 30 for \$1, 100 for \$3. Jos. Caudwell, Wakefield, Kans., successor to F. P. Flower.

PURE R. C. Brown Leghorn and Black Langshans \$1 each; eggs in season. Mary McCaul, Elk City, Kans.

FOR SALE—Single Comb White Leghorn cockerels. Wyckoff laying strain. Price, 75 cents and \$1. Henry Martin, Newton, Kans.

ROSE COMB BROWN LEGHORNS eggs, 15 for \$1.50 for \$2.50, 100 for \$4. Mrs. John Holshay, Beadonia, Kans.

STANDARD-BRED SINGLE-COMB BUFF LEGHORNS—Headed by first prize pen Chicago show 1903 and took six first prizes and first prize at Newton 1904. Eggs \$3 for 15. S. Perkins, 801 East First street, Newton, Kans.

SINGLE-COMB WHITE LEGHORN cockerels \$1 each; two or more 80 cents each. Fine white pure, thoroughbred birds. Also a few Barred Plymouth Rocks, barred to the skin—fine, pure and vigorous; hens, cocks and pullets, \$1 each; two or more 80 cents each. All of our customers are very well pleased. We will make reductions on large lots. Meadow Poultry Farm, Centerville, Illinois.

FOR SALE—Exhibition S. C. Black Minorca cockerels, \$2. I guarantee them. Address George Kern, 817 Osage Street, Leavenworth, Kans.

Buff Leghorns

Pure-bred S. C. cockerels \$1 each, six for \$5. J. A. Reed, R. 3, Wakefield, Kans.

Oberndorf's S. C. W. Leghorns

Won 18 prizes and silver cup at Kansas City, Mo. Poultry Show 1907. Birds and eggs for sale. Also B. P. Rock eggs, best strains. Send your orders now. Eleanor Fruit and Poultry Farm, Centralia, Kans. A. Oberndorf, Proprietor.

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R. C. White Leghorns and White Wyandottes 30 prizes in three shows. Stock for sale. Eggs \$1.25 and \$2.

J. Ditch, Galva, Kans.

BRAHMAS.

LIGHT BRAHMAS.

Prize winners—two firsts, two seconds at Kansas Poultry Show 1907. Cockerels \$2, eggs \$1.50. J. A. Lichte, Route 1, Oatville, Kans.

Light Brahma Chickens

Choice pure bred cockerels for sale. Write or call on Chas. Foster & Son, Eldorado, Kans., Route 1.

BLACK LANGSHANS.

BLACK LANGSHANS

best breeding. Eggs for sale at \$1.50 per 15 or \$2.50 per 30.

E. S. Myers, Box 174, Chanute, Kans.

BLACK LANGSHANS

My birds are prize-winners. Choice cockerels and hens for sale; eggs \$1.50 and \$2. Satisfaction guaranteed.

M. Tipton, Route 5, Wellington, Kans.

PURE-BRED WHITE LANGSHANS for sale. \$1.25, pullets \$1 each; also a few Silver Spangled Hamburg cockerels. Mrs. John Cooke, Greeley, Kas.

BUFF ORPINGTONS.

C. BUFF ORPINGTONS—Eggs from the Cup-winners at the biggest show in the country at a low price. Write for prices. Frank Hill, Sabetha, Kans.

BUFF ORPINGTONS AND BUFF LEGHORNS Won first pen State Show; catalog free. W. H. Maxwell, 1924 McVicar Ave., Topeka, Kans.

CHOICE Buff Orpington and B. P. Rock cockerels, Collie pups and bred bitches. Send for circular. B. Williams, Stella, Nebr.

BUFF ORPINGTONS EXCLUSIVELY—Eggs from prize-winners \$2 a sitting. Mrs. A. Wessersly, Douglas, Kans.

INDIAN GAMES.

CORNISH INDIANS.

Good for eggs, good for the table; early maturing, quality of flesh unexcelled. Weight, hens 6 to 7, cocks 8 to 10; eggs \$1.50 to \$2 for 15. S. Otto, Newton, Kans.

TURKEYS.

MAMMOTH BRONZE TOMS FOR SALE—Good of 1906. Weigh from 22 to 28 pounds. Mrs. Thomas Evans, Hartford, Kans. Telephone connections.

MAMMOTH BRONZE TURKEY EGGS for sale. Free for \$1, or 35 cents each. From choice stock; hatching tom weighs 40 pounds. Mrs. A. D. Watts, Route 2, Hallowell, Kans.

FOR SALE—White Holland toms \$3.50, White Wyandotte eggs \$1 per sitting, \$5 per hundred. Mrs. F. Ney, Bonner Springs, Kansas.

WHITE HOLLAND TURKEY EGGS—\$1.50 per set, \$4.50 per thirty. Inquiries promptly answered. J. Sweeney, St. Marys, Kans.

FOR SALE—Bronze turkeys; July hatch; all by a Kentucky tom. Price \$5. Address Mrs. Fred Wiley, Hallowell, Kans.

MISCELLANEOUS.

MAMMOTH PEKIN DUCK EGGS FOR SALE per dozen. L. Coleman, Route 1, Rago, Kans.

EGGS! EGGS! EGGS! Toulouse Geese eggs, \$1 per sitting. Rouen and Pekin duck eggs, 18 for \$1. Muscovy duck eggs, 9 for \$1. Bronze turkey eggs, 9 for \$2. Peacocks, and White Plymouth Rocks. Houdans, Buff Chins, Silver Spangled Hamburgs, Cornish Indian Games, Buff Orpingtons, Rhode Island Reds, Brown, and White Leghorns, Buff, White and Silver Wyandottes, Pearl and White Guinea, Golden Bantams, Buff Cochins Bantams. Eggs 15¢. Also sell by the 100. All kinds of fancy plants for sale. Also hunting dogs. Satisfaction guaranteed. Write for circular. D. L. Bruen, Little Center, Neb.

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My neighbors won't buy any of my turkeys, simply because they are not the Black Mammoth Bronze breed, as they call them. I consider my turkeys as good as any. A READER.

Ellis County.

Answer.—Scaly legs on fowls is caused by a parasite, and is the same disease in both turkeys and chickens. The remedy is to grease their legs with some kind of fat or oil. Equal parts of lard and coal-oil, with a few drops of carbolic acid rubbed on their legs two or three times will generally kill off the parasites. To avoid a repetition keep the roosts clean by painting them with coal-oil or lice-killer occasionally. The disease is contagious, and goes from fowl to fowl in a very short while.

There is no Standard breed of turkeys called the Black Mammoth Bronze; neither is there a breed named the Mammoth Bronze turkey. There are Bronze turkeys and Black turkeys mentioned in the Standard. The mammoth part has been added by the breeders themselves, and is no part of their proper name. The Bronze turkeys deserve the term mammoth much more than the Black turkeys, for the latter weigh, cock 27 pounds, cockerel 18 pounds, hen 18 pounds, and pullet 12 pounds, while the Bronze turkeys weigh, cock 36 pounds, cockerel 25 pounds, hen 20 pounds, and pullet 16 pounds.

Ailing Hen.

EDITOR KANSAS FARMER:—Will you please tell me through THE KANSAS FARMER what was the trouble with my chicken. She seemed all right at noon and soon after I found her lying on her side with head drawn back and moving from side to side quite rapidly; then she would stop for a little while and begin again the same way. Her food had been varied. The bowels were slightly loose. I would like a remedy if possible. No others are affected. A READER.

Lyon County.

Answer.—Your chicken was probably afflicted with vertigo, a rushing of the blood into the brain. One of the causes of this may be that the fowl was too fat. At this time of year chickens are apt to be too fat, especially where they have access to the corn-crib. The remedy, of course, is to feed more sparingly and of a less fattening grain than corn. The eggs from hens that are too fat frequently prove infertile for the first few weeks after they commence laying, but after they get reduced in flesh the eggs will be all right for hatching.

Good Buggies and Harness.

There are in almost every line of industry in this country a few large companies whose product is recognized universally as superior in quality to similar goods of other makes. The Elkhart Carriage and Harness Manufacturing Company, of Elkhart, Ind., in the carriage industry represent one of these quality manufacturers. They have during the past thirty-four years of their existence built up the largest direct-to-the-consumer carriage and harness business in the world. They make over 200 styles of vehicles and 65 styles of harness. Their large catalogue, showing complete line, is sent free upon request.

Write your inquiries to THE KANSAS FARMER.

Your Name Will Get \$2 Eggs For 50 Cents Per Sitting

The White and Brown Leghorns are the greatest layers in the world. I keep 2000 of the celebrated Chamberlain laying strain on my Experimental Farm, and to increase the sale of my Perfect Chick Feed, I will send to any one who will send me their name so I can send them my Perfect Chick Feed Catalogue, 2 sittings of Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Only 2 sittings sold to one person. White or Barred Plymouth Rock, or White or Silver Laced Wyandotte Eggs \$1 per sitting. This is a rare chance to get a start of extra fine stock. Send money and have your orders booked at once. W. F. CHAMBERLAIN, (The Perfect Chick Feed Man) KIRKWOOD, MO.

\$7.50 Incubator
Everybody's Incubator holds 125 eggs. Self regulator, needs no moisture, powerful double heater, egg tray and new removable sanitary nursery tray. Has everything high-priced hatchers have. Four walls, packed, not affected by heat or cold. Cat. free. Governor Incubator Co., 811 Main Street, Governor, N. Y.

INCUBATORS AND BROODERS.



HATCH-ALL Incubators and Brooders

will last, are easy to run, have deep nurseries, triple walls, solid copper tanks, and if they don't work we take them back. You run no risk because they have been tested in every state in the union.

Look in Kansas Farmer of Dec. 27,

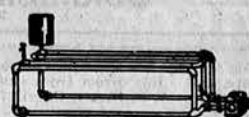
where we take a full page to explain these machines and how they are made.

THE 1907 CATALOGUE NOW READY. Don't hesitate to ask for it. We are glad to send it.

HEBRON INCUBATOR CO., Box 12, Hebron, Neb.



Missouri Queen



Incubator-Heating System absolutely the best. Record of hatches unequalled. Only machine made that has heat in the corners. Try it for 90 days and if you are not satisfied return and get your money. Catalog free. Write today. Reference: Any bank in Princeton.

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The Grange in National Affairs.

EDITOR KANSAS FARMER:—During the closing days of the Fifty-Ninth Congress, the National Grange was very much in evidence in the persons of the executive committee, Hon. N. J. Bachelder, of New Hampshire; Aaron Jones, of Indiana; and Messrs. E. B. Norris and George P. Hampton, of New York. They were particularly engaged in securing the passage of supplemental legislation on the distillation of denatured alcohol. The bill had passed the House and was pending before the Senate committee on finance. On Tuesday, February 19, the committee appeared before the Senate committee and urged the passage of the bill. The purpose of the legislation, they said, is to still further reduce the cost of denatured alcohol by giving greater facilities for its production and distribution. They wanted the Commissioner of Internal Revenue to give them power to authorize farmers or other persons to distill alcohol in locked stills, and to have it denatured without the expense of a denaturing bonded warehouse. They also advocated the establishment of denaturing bonded warehouses in various sections into which alcohol may be transferred from distilleries without payment of tax, under proper bonds and official supervision. They suggested that the commissioner should be allowed to prescribe regulations fixing the kind and capacity of the packages, including tank cars and other methods of transportation for denatured alcohol. They thought the distillers should be allowed to pump their product from the distillery cistern to the warehouse, and from the warehouse to the denaturing warehouse. They advocated the use of untaxed alcohol in the manufacture of ether or chloroform. Probably the most important of the propositions from the standpoint of the farmers was that relating to the small stills, and the committee stated they believed it entirely feasible for the commissioner to devise regulations which will effectually protect the Government against fraud, and at the same time permit small producers of alcohol to have their product denatured under the supervision of an internal revenue officer, without being put to the expense of a special bonded denaturing warehouse. In advocating the establishing of denaturing warehouses they maintained that as the law stands it is manifestly impossible for the small distiller to supply alcohol for manufacturing purposes which would require special denaturing, and therefore the law tends to give the large distillers a monopoly of supplying alcohol for manufacturing purposes. There would also be an advantage to the Government in simplifying the cost of supervision. The question of tank cars is held to be one of prime importance in reducing the price of alcohol for fuel purposes to a competitive basis with kerosene, gasoline, and other liquid fuels. Without such tank cars the market of small distillers must be local. It was pointed out that before local distillers could be profitably operated, local demand must be created, and this could be done only by the gradual introduction of alcohol lamps, engines,

etc. The farmer was particularly interested in providing all possible ways for the cheap distribution of alcohol so as to introduce it and bring it into general use.

The proposition to use untaxed alcohol in the manufacture of ether has met with the opposition of ether manufacturers, or at least the American Ether Company, of Richmond, Va. The other propositions looking to the establishment of small distilleries is strongly opposed by the distillers, headed by S. A. Woolner, of Peoria, Ill. At this writing it is undecided whether the bill will pass. There is no question that the denatured alcohol law has been of great benefit to the country. It is true the farmers are perhaps most directly interested, but it has already brought the price of wood alcohol down very materially, and will undoubtedly reduce the price of kerosene and gasoline in remote communities as soon as the use of denatured alcohol becomes more general. There are communities in the Dakotas, for instance, where kerosene sells at 30 and 35 cents a gallon. When denatured alcohol goes into general use this price will undoubtedly be reduced. To those who point out that no demand for denatured alcohol, at least to any great extent, has sprung up, the reply is pertinent, that the law has been in effect only since January 1, and that it takes time to develop a demand. On the other hand, without the supplemental legislation advocated by the National Grange, and by all farmers, the legislation will be of benefit only to large combinations of capital. When the law passed, the writer referred to it as a gold brick, and the presence of the farmers' representatives to advocate changes bears out that statement. The purpose of denatured alcohol legislation is all right, in that it is designed to increase the use of alcohol in the industries and arts, thereby creating a demand for the products of the farm, and an outlet for surplus and waste products. But the operation of the law as it stands is almost exclusively confined to the use of denatured alcohol instead of ethyl alcohol, and therefore there has not been an increased consumption of alcohol made from farm products except where such alcohol has displaced wood alcohol. The amendments sought to be made should be heartily endorsed by all farmers. U. P. A. Washington, D. C.

There appeared in this department a notice in regard to establishing new granges. In organizing or reorganizing a grange only regularly appointed deputies and organizers, with authority from the State Grange, are allowed to install, give secret work, and make reports to National and State Granges. We hope every member in the State will act as a missionary, and make arrangements to push a good cause to the front. We once had nearly 40,000 members, and there is no reason why we can not double that number now.

The grangers as a class stand in the front ranks as patriotic and enterprising citizens. Would it not help your county, your school district, your neighborhood, and your own farm if the roads are better this year than last? If so, it would be in order now to form some good-road clubs. Spring is the time to work roads. Commence work, get some grading done, and then keep the grade up by the use of the King drag. A few days' work on the road is time well spent, and your wages will be the privilege of traveling over, and hauling larger loads over a good road.

You may just as well do this work cheerfully, for eventually the farmer pays for all the road work. When you are cleaning about the yards this spring, and have gathered all the old brick bats, broken crockery, broken glassware, old, worn-out tin utensils, and other rubbish, do not take it out and dump it along the highway. You did not want to see it around your place—do you want the public to be compelled to gaze at it for all time? Dig a pit at some convenient place on

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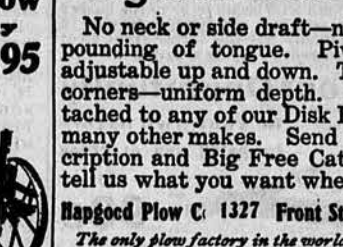
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the farm and bury the old rubbish. There it will neither trouble you nor any one else.

The following comes from Riley County, and partly shows with what regard we hold our brothers and sisters:

"Whereas, It has pleased the Divine Master to call from her labors here, to her reward beyond, our beloved sister, Mrs. Florence Stella Swingle, in whom we all recognized a most cheerful, energetic, and loyal friend and worker in all good undertakings.

"Resolved, That while we feel the inability of words to express our sense of loss, and still more their uselessness in offering consolation to her bereaved friends, we extend to Brother Swingle and family our heartfelt sympathy in their great sorrow and loss.

"Resolved, That these resolutions be spread on the minutes of this grange, a copy given to the bereaved family, published in the city papers, also in THE KANSAS FARMER, and that our charter be draped in mourning for thirty days.

"ALICE MUNGER,
"HELEN M. BARNES,
"FLORA M. ALLEN."

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If you want to know how to make your land pay you better, or read all about such interesting subjects as "Alfalfa," "Hog and Sheep Pastures," and learn how to get eleven premium packages of vegetable and garden seeds free, just write a postal card and say so to Northrup, King & Co., Seedsmen, Minneapolis. They will gladly send you their big 132-page, 1907 seed catalogue, postpaid, and also a list of their books, any of which you can have free. It takes only a postal card or letter and a moment's time for you to send for this valuable, reliable and interesting lot of books, and any of our readers who do so will be well repaid. Address Northrup, King & Co., Seedsmen, 25 Hennepin Ave., Minneapolis, Minn. Page two of their seed catalogue must be read by you to learn just what eleven varieties of their "Sterling Seeds" you want in your list of free premiums. So write for the catalogue now.

To The Stockholders of the Farmers Co-operative Shipping Association.

The annual meeting of the Stockholders of the Farmers Co-operative Shipping Association will be held at the National Hotel in Topeka, Kansas at 3 o'clock, Wednesday, April 3, 1907, for the election of a Board of Directors and such other business as may lawfully come before the stockholders meeting. J. G. GOINGS, Pres.
H. R. SIGNOR, Secretary.

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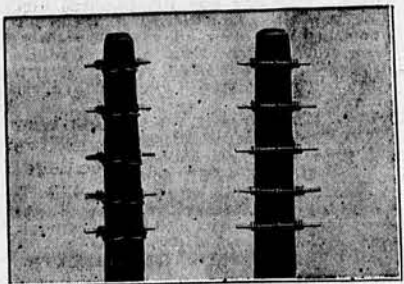
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Stock Interests

Hannon Brothers' Duroes.

On Tuesday, February 26, at Olathe, Kans., Hannon Brothers, made a dispersion sale of Duroc-Jersey sows and pigs. This also proved to be their third annual sale, and on account of the large number of animals consigned, it became necessary to begin the sale in the forenoon. The sale was held in a large tent at Hannon's Stock Barn, at the south end of Kansas Avenue, and attracted a good crowd of local farmers and buyers. The selling was done by Colo. Andy James, Lenexa, J. Zach Wells, Kansas City, W. C. Parks, Ottawa, and E. O. Calahan, Stanley. The sale average was \$36.25 and is considered one of the best sales of the season. The top of the sale was reached by a spring gilt sired by L. H. Roberts 38397, by Lord Roberts, who went to W. W. Wilcox, Nevada, Mo., for \$100. Another spring gilt by Pomona Model 49731, by Nelson's Model and bred by J. F. Staadt, Ottawa, sold to W. P. Hutchinson, Cleveland, Mo., for \$62. The herd boar, John R. 50797, a grandson of Orion, sold to Joe Wright of Olathe, and the young herd boar, Nic 56793, went to E. L. Adams, Olathe. Other buyers were—Geo. Parrot, Coleman, Mo.; F. L. Bailey, Bonner Springs; H. T. Roselle, Ottawa; C. Lewellyn, Olathe; F. H. Ford, Olathe; Frank Ogg, Olathe; T. Martin, Eureka; A. J. Smith, Olathe; J. S. Wilson, Greenwich; J. F. Staadt, Ottawa; J. S. Slagle, Claire, Robt. Watts, Martin City, Mo.; Art Ranch, Martin City, Mo.; Ed Tracy, Morris; Ed Patterson, Holliday; F. J. Renner, Shawnee; J. M. Anderson, Gardner; W. C. Parks, Ottawa and A. J. Smith, Earl Bachman, A. R. Cook, Alex Moore, L. H. Clark, Judge Long, John R. Russell, Cyrus Shadner, F. I. Robinson, Chas. Irwin, Geo. Pratts, L. H. Musselman, J. F. Ensor, C. Delahunt, all of Olathe.

Holstein-Friesians.

The Holstein-Friesian Register reports the following transfers of Holstein cattle in Kansas.

The only trouble with the Holsteins in Kansas is that there are not nearly enough of them. Recent sales of purebred beef cattle show that they average but little more in price than does butcher stock, and each beef animal has to go to the block in order to make its owner profit. On the other hand the Holstein cow brings as much profit each year as does the beef animal during its whole life, and does it over again many times. Holsteins are money-makers, and chemistry says their milk is the best in the world. Their records for the production of butter-fat are certainly the highest of any breed.

Cows: Florence Colantha, W. B. Barney to G. V. Pontious, Rantoul; Pauline Niko De Kol, W. B. Barney to G. V. Pontious; Alderdale Mary, Emil Utz to D. M. Swearingen, and from D. M. Swearingen to G. G. Burton, Topeka; Dorothy Beechwood, W. C. Jones to E. R. Griffith, Emporia; Olga Beechwood, W. C. Jones to E. R. Griffith.

Bulls: Beechwood Brownell 3d, W. C. Jones to W. C. Rentlinger, Medicine Lodge; Beechwood Brownell 5th, W. C. Jones to C. H. Clark, Kinsley; Mercedes Pauline Pletertje Duke, Geo. C. Mosher to T. P. R. Russell, Lyndon.

McLaughlin Bros. Horses.

The writer recently visited the city of Olathe, and while there had the opportunity of inspecting a remarkably fine Percheron stallion which had been sold to a horse company in that vicinity by McLaughlin Bros., of Kansas City, Columbus and St. Paul, something over four years ago. This horse was a prize-winner in France before coming to this country and also won at the Ohio and other State fairs. He sold to the horse company for \$4,000 and gave excellent satisfaction. Lately, one member of the company has bought out the other share holders and now owns the horse individually. It is also a matter of satisfaction to the McLaughlin Brothers, to know that the horses they sold to western customers succeeded in capturing all the prizes given at the western stock show recently held in Denver Colo. In this show, French coach horses were shown against every other coach breed, and the French Coach stallion Templer sold by McLaughlin Bros., at Eatonville, Colo., took first prize and afterwards the grand championship, thereby defeating all the other prize winners in every coach breed. Almost any horse picked out of the McLaughlin stables is good enough for a show horse and most of them win first prizes if not grand championships.

Frank Iams writes: "Mr. Farmer Horseman: Make good every statement, have the goods as advertised, sell imported stallions on 'honor' and save stallion-buyers \$1,000 to \$1,500 on a stallion and sell them a first-class imported stallion of big size, quality, and finish at \$1,000 to \$1,500 (few higher) guaranteed better than any fourth-rate stallion sold by 'gold brick' peddlers at \$3,000 to \$5,000, or you get the \$500 hung up. That's what Frank Iams, of St. Paul, Neb., does. He is the importer of stallions 'behind the gun' that is 'boosting' his business selling topnotchers at 'let live' prices, saving stallion-buyers thousands of dollars by saving them the middle-men's profits, and all commissions. His 'Peaches and Cream' stallions are so good that they sell themselves. They are the salesmen. It's dollars to doughnuts that Iams talks less and sells more stallions than any ten men in the United States. He is an easy salesman, an expert horseman, a successful business man of twenty-five year's experience at St. Paul, Neb. He has 'rubbed up against' the importing business and knows the tricks that are practised on the farmers. It is by

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There is nothing in Congo Roofing that will dissolve in water, nothing that will evaporate, nothing that will be affected by heat or cold, nothing that will decompose.

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The Offering includes full brother to Sweet Harmony, Happy Knight, Hopeful Knight—all prize-winners and sold for an aggregate of \$1600. Full brothers to our Victorias, repeated winners. Full sister to Silvery Knight, many times winner; a Scotch Secret. Full sister to Darling Knight, first winner at Kansas City as a yearling and sold for \$605. The offering is useful in all respects.



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15 BULLS with two exceptions by Gallant Knight and Archer, including 6 Scotch, of Victoria, Lavender and Bloom tribes—full brothers to our prize-winners. 24 FEMALES—by Gallant Knight, Archer, Lord Mayor, Imp. Thistletop, Dictator, Lord Ullin and Sir Charming 4th. 12 CALVES—with dams, by Gallant Knight and Archer. All females bred to some one of our herd bulls. Send for catalogue. Address

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Geo. P. Bellows and L. R. Brady, Auctioneers. Good railroad connections, Union Pacific and Rock Island roads affording service to Nebraska points. Come and visit the college farm and attend the sale.

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All bred gilts sold out. Have a few Crimson Wonder boars for sale yet. Will have some fine weanlings to sell by May, sired by Missouri's Wonder King, Oom Paul 3d, Crimson Challenger, Crimson Wonder. Mr. and Mrs. Henry Shrader, Wauneta, Kans.

Pigs Shipped on Approval.

200 head of Durocs, all ages, representing the blood of Combination, Valley Chief, and a son of Kant-Be-Best.

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Orchard Hill Herd of Duroc-Jerseys

Tried sows and gilts for sale bred to that great sire, Norton's Top Notcher by Tip Top Notcher. Also some good males. Send for private sale catalogue.

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20 bred gilts, and fall pigs of both sexes for sale.

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Big, bloomy, handsome boars of March and April farrow. Write

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My herd bull, Expansion, for sale. No swine for sale now. Spring sale, February 13, 1907.

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Herd headed by Egypt Lad 34023. Stock always for sale. Choice fall boars and gilts, reasonable. Also six fine gilts, bred to Lora's Lad, to farrow in April; will also sell some tried sows. Write for prices and particulars. H. W. STEINMEYER, Volland, Kans.

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Herd composed of best blood in the west. Headed by Otatop Notcher, out of Tip Top Notcher, who weighed 1120 pounds at 18 months, and sold for \$5,000. Bred gilts and fall pigs for sale at reasonable prices.

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This stuff is the cream of my herd and I am pricing it right. Grant Chaplin, Greene, Kans.

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Herd headed by Pilate Chief 48665 by Johnson's Chief 35774, and Major King 43564 by Major M. 31527, a 1000-pound hog.

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Baron Rupert 24827, Scotch bull, at head of Shorthorns. Young bulls for sale. Lee Star 88278, one of the champion Lord Lee 61198 greatest sons, at head of Berkshires. Choice winter and spring boars and gilts for sale. Prices as low as good stock can be sold for.

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