HARMER

H WHICH IS COMBINED FARMERS ADVOCATE

Volume 47, Number 36

TOPEKA, KANSAS, SEPTEMBER 11, 1909.

Established 1863. \$1 a Year

PREPARING WHEAT

With a soil of average fertility, the preparation of the seed-bed by the proper tillage and cultivation methods very largely determines the yield of the crop. Three general methods of the crop. Three general methods of tillage for preparing the land for wheat are practiced in this state; namely, plowing, listing, and disking. There may be variations of these three methods, as early plowing, late plowing, shallow plowing, deep plowing, single listing, little cultivation after plowing, frequent cultivation after plowing, frequent cultivation after after plowing, frequent cultivation after plowing, frequent cultivation after plowing, etc. Local conditions may determine which method is the best.

That certain methods are superior to others may be readily shown by comparative trials.

AN EXPERIMENT.

Tests of several methods of preparing the seed-bed for wheat have been carried on at the Experiment Station at Manhattan for the past two seasons and show the following results:

METHOD OF PREPARATION.

planted to corn in 1905, and sown to wheat in 1906. The experiment was started in 1907 on this wheat stubble. Nine different methods of preparing a seed-bed have been tried, as indicated

PLOWING. Plowing was done on July 15, Aug.

Plowing was done on July 15, Aug. 15, and Sept. 15. It will be seen from the table that the early plowing on July 15 did not give the highest yield or the largest net profit. This was due to the lodging of the wheat on this plot. Being an old alfalfa field, organic matter rich in nitrogen was abundant in this soil. The early and continuous preparation probably pro-

continuous preparation probably produced nitrates in such large amounts that a rank growth of weak straw re-

that a rank growth of weak straw resulted, and the wheat lodged. With a

soil lower in fertility or in a section

further West, where less moisture was

available, this condition would not us-

The highest yields were obtained

from the Aug. 15 plowing. Upon these plots the grain did not lodge. The plot

plowed Aug. 15 and cultivated after plowing received two harrowings be-

fore Sept. 15. Otherwise it was worked

in exactly the same manner as the

other Aug. 15 plowed plot, which was

not surface cultivated until Sept. 13. These two harrowings in 1907 in-

creased the yield 4 bushels per acre, and in 1908 two bushels per acre, or an additional expense of 50 cents re-

sulted in a profit of \$3.00 in 1907 and \$1.50 in 1908.

The late plowing, Sept. 15, has each year given the lowest yield of any of the plowed plots, although every effort

in the table.

ually occur.

A. M. Ten Eyck. Agronomist in Kutsas State Agricultural College Bulletin.

was taken to prepare a good seed-bed by surface cultivation immediately be-fore seeding. In 1908 the late plowed plots were harrowed three times, disked once and acme-harrowed once after plowing before seeding. The wheat was seeded on all plots Oct. 9. Thus the seeding was not done for nearly a month after plowing; yet the large amount of work put on these late plowed plots was not enough to prepare a sufficiently firm seed-bed. The plot plowed shallow gave a slightly increased yield over the deep plowed plots where each were plowed as late as Sept. 15. The shallow as late as Sept. 15. The shallow plowed plot could be better firmed down. Double-disking ground early in

the season to be plowed late gave a slightly increased yield. — was due

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to the fact that the disking kept the ground in better shape for plowing, and it firmed down more readily than the undisked ground.

LISTING.

Listing has not proved especially successful as a method for preparing a seed-bed for wheat, giving a less yield than early or medium early plowing. Listing has not proved a cheap method at this station during the past two years, due to the heavy summer rains that have made frequent harrowing and disking necessary in order to keep down the weeds.

DISKING.

The same condition has made it very expensive to prepare a seed-bed for wheat by disking without plowing. It required eleven diskings in 1908 to prevent the growth of weeds and prepare a good seed-bed by this method. Disking has also resulted in a low yield, producing the least amount of wheat and the lowest net profit of any method employed in this experiment.

CONCLUSIONS DRAWN. The soil conditions and environment suitable for the successful growth of a wheat crop are well established and fairly well understood. With good seed, a few simple factors largely determine the stand and the yield of the crop and the quality of the grain pro-

In order to secure the ideal condition for seed germination and plant growth, a seed-bed for planting wheat and other small seeds should not be

mellow to too great a depth, but rather. the soil should be mellow and well pulverized only about as deep as the seed is planted. Below that depth the soil should be firm and well settled, making a good connection with the subsoil, so that the soil water stored in the subsoil may be drawn up into

the surface soil.

The firm soil below the seed, well connected with the subsoil, supplies the moisture to the seed, while the mellow soil above the seed allows sufficient circulation of air to supply oxygen and favors the warming of the soil, gathering the heat of the sun-shine during the day and acting as a blanket to conserve the soil heat, maintaining a more uniform temperaliture of the soil during the night.

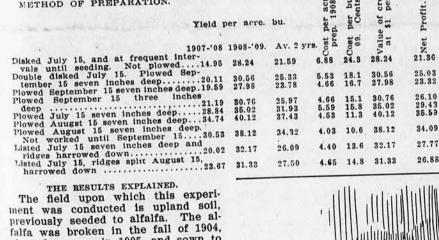
The mellow soil above the seed con-serves the soil moisture, acting as a mulch to keep the water from reaching the surface, where it would be rapidly lost by evaporation, and the same condition favors the growth of the young shoot upward into the air and sunshine.

The too-mellow, deep seed-bed is almost wholly dependent upon rains for sufficient moisture to germinate the sufficient moisture to germinate the seed and start the young plants. In such a seed-bed, drouth is very apt to injure the crop because of the rapid drying out of the loose soil to the depth of the plowing. In the loose seed-bed the crop is not very apt to "burn out" in summer, but it is also more apt to "freeze out" in winter than a crop grown in the "ideal" seed-bed described above.

Stick to One Breed.

KANSAS FARMER recently published a synopsis of the law for the control of the use of stallions in this state. Some of the evils from which our farmers suffer can undoubtedly be controlled or prevented by legal enactment, but not all. It has always been a puzzle to the writer to know why the owner of a pure bred or high grade draft mare, like the Percheron, would be willing under any circumstances to breed to a Shire or a Clyde. Why is it that, after spending years in breeding up a type of draft horse to a point that is near perfection for its breed the owner is willing to cross with another breed and undo all his work.
This haphazard way of mixing seems to be more common among the owners of the draft breeds than those of the lighter horses. The owner of a draft mare should first decide whether she is of the breed he wants and, if so, he should adhere to that breed by the use of pure bred males. It only requires a few generations, comparatively, to breed up a good, even type that is vastly more useful, more uniform in appearance and disposition and hence more valuable if such a method is It is very easy to destroy the work of years by cross breeding.

Merrill, of the Utah Experiment Station, made six tests of alfalfa hay in comparison with timothy for horses under varying conditions of work, and found that it was less difficult to maintain their weight with alfalfa. appearance of the horses in every comparison was in favor of those fed alfalfa, and no ill results were noted on their health by long-continued alfalfa feeding. Fourteen hundred-pound feeding. Fourteen hundred-pound horses at hard work could be maintained on 32.6 pounds of alfalfa hay per day, and at rest 20 pounds was sufficient for the same horses.—From Coburn's "The Book of Alfalfa."





From a Drawing by Albert T. Reid.

Racing for the State Fair Appropriation

FAIR WEEK IN KANSAS

In the great work of agricultural education there is a distinct and im-portant part to be performed by the state fair. Through it is provided the vehicle for the display of the various interests and industries of the commonwealth. At the state fair the merits of the various ideas of production in crop growing and enimely tion in crop growing and animal breeding, manufacture and construction are compared. It is the farmer's annual and only opportunity to observe and learn regarding the merits of these respective ideas. It is the of these respective ideas. It is the exhibitor's opportunity to compare notes with his neighbor in that zealous, friendly competition which stimulates improvement and higher ideals in the best of everything. The farmers of Kansas will next week attend the two great Kansas fairs, the Kansas State-Wide Fair at the capital city, Topeko, September 12 to 18 and the Kansas State Fair at Hutchinson,

September 11 to 17.
Secretary Kreipe on the eve of the cpening of the Kansas State-Wide Fair repots that everything is in readiness and that those who attend will find a fair grounds so much improved as compared with last year that these aiready heaviful grounds will seeme already beautiful grounds will scarcely be recognized as those of last year. For three months past a large force has been building, enlarging, remodelling, repairing, laying out roads and grading and the finishing touches are now complete. Exhibitors and visi-ters alike will find greater accommo-dations and comfort than the crowded conditons would heretofore permit.

Two Big Fairs Ready for Opperation .- One at Topeka, the Other at Hutchinson.

One of the greatest improvements is that of the addition to the already large grand stand. In the addition are 104 boxes each accommodating four persons. A model new judges' stand complying with all the racing tules has been erected. Sixty new swine pens have been built and the capacity for caring for swine raised to 500 head. New cattle stalls have aso been added to those already there and now nearly 400 head of cattle can be cared for. Sixeen new race horse stalls have also been built. The machinery exhibit buildings have also been enlarged. A ladies' rest room has been built and in this building has been placed modern sanitary toilets. Several office buildings have been added. The Santa Fe has completed a new double track into the grounds and has enlarged its platform for loading and unloading exhibits. The grounds have been graded, roads laid out, walks and drives planed, exhibit space staked off a camping grounds arranged for on the south side of the track in the grove machinery exhibit buildings have also south side of the track in the grove south side of the track in the grove and, to complete the finishing touches the whitewash and paint brushes have been put to work to brighten up every piece of wood on the grounds, whether fence or building.

General Supt. Graham expects all exhibitors' space to be taxed to the

limit with the showing of agricultural products, machinery and live stock. From the Nebraska state fair, which closes Sept. 11 a train load of cattle, hogs and horses will stream into Topeka. Those herds will be the cream from Nebraska and Iowa fairs and will include the strongest herds of the central western states. The largest horse exhibit will be that of 50 Percherons from the DeClow farm in Nebraska, and all will be exhibited by one owner. After the fair has ended these horses will be offered for sale. Several cars of them come direct from England to Topeka for the fair. The live stock exhibit will be large and

Secretary A. L. Sponsler, of the Kansas State Fair, Hutchinson, writes: "At this time, the eve before we unfurl the flags from our 22 high staffs, everything is moving along to ward certain success. Everybody in this great wheat growing country will be here as well as the stockmen generally of the great southwest.
"We are just beginning the erection

of a new 50 stall barn for the accommodation of our great horse exhibit. By the time the fair opens we will have at least 150 entries in the American Carriage Horse, Saddle and Light Harness horse classifications. This will give the grounds a more classy appearance than ever before and we have arranged with a number of our exhibitors to give exhibitions daily with their beautiful and intelligent animals.

"Below is a list of the judges of the important departments. I feel proud of the list and believe it represents as great an average competency as as state fair in the United States will have. It has been the constant endeavor of the Hutchinson Fair since its organization nine years ago, to employ the ablest expert judges available. We have had many judges here who are men of national reputahere who are men of national reputa-tion and who have judged at the American Royal and the Interna-tional. The judges are: Short-horns, Prof. R. J. Kinzer, Manhattan, Kan.; Herefords, Robert Hazlett, El-dorado, Kan.; Aberdeen-Angus, Prof. G. C. Wheeler, Manhattan, Kan.; Dairy Breeds, H. J. Miller, Hutchin-son, Kan. Same judges for Galloway, Polled Durham and Red Polled Cattle son, Kan. Same judges for Galloway. Polled Durham and Red Polled Cattle. Saddle and Light Harness Horses, Mr. W. E. Berry, St. Louis, Mo.; American Carriage Horse, Judge H. H. Reese, Washington, D. C.; Draft Horses, Mr. Thomas Murray, Holcomb, Ill. Sheep, Col. Ed. Green, Florence, Kan. Swine, F. M. Lail, Marshall, Mo., and Green McFarland, Sedalia, Mo. Poultry, J. J. Atherton, Emporia, Kan, and C. A. Emery, Carthage, Mo. Farm Products, Prof. A. M. TenEyck, Manhattan, Kan. Hor-M. TenEyck, Manhattan, Kan. Horticulture, Prof. Albert Dickens, Manhattan, Kan.

IOWA---FIRST OF GREAT FAIRS

When the state fair of Iowa closed its gates on the evening of Friday, Sept. 3, there ended the most profitable, the best attended and the greatest agricultural and live stock exposition that was ever held in the state and one of the best ever held in America. With this crowning success the Iowa State Fair celebrated its 55th birthday anniversary and gave evidence of increasing strength and beauty with advancing years.

The fair opened in the extremely hot and dry weather that has afflicted the west during the past month but the rain came in torrents on Thursday and this was followed by a light frost to the northward. These conditions served to materially reduce the attendance and yet the aggregate for the week was very satisfactory. Compared with that of last year the attendance by days was as follows:

		1908	1909
Friday	 	 	2,178
Saturday		 . 8.033	23,914
Sunday	 	 . 15.682	17,154
Monday		 . 25.682	27,606
Tuesday		 . 52.408	58,105
Wednesday.		 . 43.190	58,993
Thursday		 . 37,271	15,554
Friday	 	 . 8,179	12,758
			100

The cash receipts for 1908 were \$136,104.41. Those for 1909 were \$139,295.17, showing a gain of \$3,190.76 in spite of the bad weather conditions conditions.

Figures make dry reading matter generally but these are given as being of special interest to Kansas people pending the settlement of the question of our having a state fair

of our own. The Iowa state fair impresses peo ple in various ways but it impresses them all. One man of prominence in racing circles in another state was surprised to learn that the racing was not the most prominent feature of this fair as it had always been in other fairs which he had attended. Another man from another state and who is interested in the draft horse business, said that he considered this fair to be the greatest state fair in the Union because of the prominence given to the heavy horses. Both these gentlemen are correct.

In this fair racing is always a feature and the State Board of Agriculture is just completing the splendid grand stand of brick and steel which was provided for by a state appropriation of \$100,000. This fact together with the numerous and convenient stables and the splendid race

Fifty-fifth State Fair of Iowa Greatest in States History

track with ample purses and prizes would seem to leave no room for protest on the part of the racing fraternity yet racing is only an equal feature with the other departments of the fair.

The daily press is authority for the statement that more than \$250,000 has been spent for the improvement of this great popular university in excess of last year. The grounds and buildings show it. The new buildings are of brick and steel and are well arranged and generally of ample proportions, though some are seriously crowded at times.

To Iowa belongs the credit of creating and maintaining a state fair which is a model after which all others could pattern with profit.
Here everything is in the right proportion. Everything is represented and yet no feature is dominant. It is complete in every detail and is per-fectly balanced. It is in charge of the State Board of Agriculture, which takes it out of partisan politics, and it is officered by men of ability and energy. The fair is made for the public and the people and the exhibitors, who together bring success, are given the first consideration. Its financial success is thus assured and from this comes the power to offer the attracive cash prizes which serve to bring the best in live stock, in agricultural and horticultural products, in ma-chinery and in purely amusement features to Iowa. .

Being the first of the series of great fairs the preliminary battles in the live stock show rings are fought out here each year and the exhibitor tests his methods and his breeding and so marks his progress towards success. No matter how carefully he may have studied the problems of breeding and feeding; no matter how earnestly he may have worked care of his animals, he cannot know how well he has succeeded until his own animal, which has been the subject of his care for months, is lined up with others. Then he learns of his success or failure and it is for these reasons that the Iowa fair is so important to the breeder and exhibitor of live stock.

This breeder is a citizen of more or less influence in his home community and the results of his work are impressed upon his neighbor. The state fair is a great university teaching by object lessons and each of its students becomes a teacher of his fel-

The work of the Agricultural College, the Experiment Station and the individual farmer all make for the material betterment of the state but the state fair shows this advance-ment to the world and, what is of more importance, to her own citi-

Iowa stands first in rank of all agricultural states and this proud posi-tion has been attained, in no small degree, through the influence of her splendidly managed state fair.

CATTLE-SHORTHORNS. D. Packard, superintendent; Capt. T.

S. D. Packard, superintendent; Capt. T. E. Robson, judge.

Bull Three Years Old or Over: First, Eidelight, F. W. Harding, Waukesha, Wis.; second, Nonpareil Marquis, W. H. Dunwoody, Minneapolis, Minn.

Bull Two Years Old and Under Three: First, King Cumberland, Elmendorf Farm, Lexington, Ky.; second, Gallant Knight Heir, T. K. Tomson & Sons, Dover, Kan.

Senior Yearling Bull: First, Red Marshall, F. W. Harding, Waukesha, Wis.; second, Ringmaster, G. M. Vader, Churdan, Ia.

Junior Yearling Bull: First, Elmendorf Marshall, Elmendorf Farm, Lexington, Ky.; second, Viliage Marshall, D. Tietjen, Bellevue, Ia.

Marshall, Elmendorf Farm, Lexington, Ry; second, Village Marshall, D. Tietjen, Bellevue, Ia.

Senlor Bull Calf: First, Sultan Adversary, F. W. Harding, Waukesha, Wis.; second, Regulator, G. H. White, Emerson, Ia.; Second, Sultan's Leader, F. W. Harding, Waukesha, Wis. Cow Three Years Old or Over: First, Sinnissippi Rose 2d. Elmendorf Farm, Lexington, Ky.; second, Queensten Bellona, F. A. Edwards, Webster City, Ia.

Helfer Two Years and Under Three: First, Christmas Lassie, T K. Tomson & Sons; second, Sonowbird, F. W. Harding, Junior Helfer Calf: First, Sultan Countess, F. W. Harding, Waukesha, Wis.; second, Marshal's Queen, Elmendorf Farm, Lexington, Ky.

HEREFORDS.

Thos. Mortimor, Madison, Neb., judge.

Thos. Mortimor, Madison, Neb., judge.
Bull Three Years Old or Over: First,
Woodland Chief, Cyrus A. Towne, Norway,
Ia.; second, Governor, J. L. Bryant, Savannah, Mo.

Bull Two Years and Under Three: First, Brincipal 6th, Makin Bros., Grandview, Mo.; second, Curtis. J. L. Bryant. Savannah, Mo. Senior Yéarling Bull: First, Repeater, O. Harris, Harris, Mo.; second, Paragon, Mokic Bros., Grandview, Mo. Junior Yearling Bull: First, Bonnie Brae 15th, Cargill & Price, LaCrosse, Wis.; second, Paragon 20th, Makin Bros., Grandview, Mo.
Senior Bull Calt: First, Hawale Brist.

second, Paragon 20th, Makin Bros., Grandview, Mo.
Senior Bull Calf: First, Harris Prince
130th. O. Harris, Harris, Mo.; second, Paragon 21st, Makin Bros., Grandview, Mo.
Junior Bull Calf: First, Governor 4th,
J. L. Bryant, Savanrah, Mo.; second, Beau
Mystic 41st, C. A. SiBnnard, Emporia, Kan.
Cow Three Years Old or Over: First,
Grangaret, W. S. Van Natta & Son. Fowler,
Ind.; second, Miss Filler 2nd, Cargill &
Price, LaCrosse, Wis.
Helfer Two Years and Under Three: First,
Bright Eyes, O. S. Gibbon & Son, Earlham,
Ia.; second, Iva, W. S. Van Natta & Son,
Fowler, Ind.
Junior Helfer Calf: First, Fairy Queen,
O. S. Gibbons & Son, Earlham, Ia.; second,
Perfect Lass, W. S. Van Natta & Son,
Fowler, Ind.

Exhibitors' Herd: First, Cyrus A. Tow. Norway, Ia.; second, O. S. Gibbons & Son. Senior Champion Bull and Iowa Special, Prince Iad 9th, W. S. Van Natta & Son. Junior Champion Bull, Repeater, O. Harris; Iowa Special, Wm. Andrews & Sons, Morse, Ia.

Senior Champion Cow, Margaret, W. S. Van Natta & Son; Iowa Special, Princeps Lassie, O. S. Gibbons & Son.

ABERDEEN-ANGUS.

Stanley R. Pierce, Creston, Ill., judge.
Bull Three Years Old or Over: First, Glenfoll Thickset 2nd, W. A. McHenry, Denison, Ia.; second, Deceiver, Otto V. Battles, Maquoketa, Ia.

Bull Two Years Old and Under Three: First, Oakville Quiet Lač, Otto V. Battles, Maquoketa, Ia.

Senior Yearling Bull: First, Quality Prince, W. A. McHenry, Denison, Ia.; second, Peter Sterling, A. C. Binnie, Alta, Ia.

Senior Yearling Bull: First, Quality Prince, W. A. McHenry, Denison, Ia.; second, Prism, W. A. McHenry, Denison, Ia.; second, Walnut Dell Eric, M. D. Korns, Hartwick, Ia.

Senior Bull Calf: First, Sir Duas Pride of Sundance, J. W. McClung & Son, Indiandla, Neb.; second, Major Delmar 3d, A. C. Binnie, Alta, Iowa.

Junior Bull Calf: First, Cinch, W. A. McHenry, Denison, Ia.; second, Thickset Idol, Otto V. Battles, Maquoketa, Ia.

Junior Bull Calf: First, Cinch, W. A. McHenry, Denison, Ia.; second, Thickset Idol, Otto V. Battles, Maquoketa, Ia.

Cow Three Years Old or Over: First, Queen Lass of Alta 3rd, A. C. Binnie, Alta, Iowa.

GALLOWAYS.

E. T. Davis, Iowa, City, Ia., judge.

Bull Three Years Old or Over: First, Centh, M. A. C. Cantain 4th of Tarbracoh, Strayb.

tles, Maquoketa, Ia.

GALLOWAYS.

E. T. Davis, Iowa, City, Ia., judge.
Bull Three Years Old or Over: First.
Captain 4th of Tarbreoch, Straub Bros.
Avoca, Neb.
Bull Two Years Old and Under Three:
First, Douglas of Meadow Lawn, J. E.
Bales & Son, Stockport, Ia.; second, Noble
Standard, Straub Bros.
Bull One Year Old and Under Twe:
First, Stanley of Maples, C. S. Hechtner.
Chariton, Ia.; second, Stanley's Mack, J.
E. Bales & Son, Stockport, Ia.
Senior Bull Caif: First, Fair Fame.
Straub Bros., Avoca, Neb.; second, Douglas
of Stockport, J. E. Bales & Son, Stockport, Ia.
Junior Bull Caif: First, Handsome,
Straub Bros., Avoca, Neb.
Cow Three Years Old or Over: First,
Sadie of Meadow Lawn, Straub Bros.; second, Hawkeye Lady, J. E. Bales & Son.
Heifer Two Years Old and Under Three:
First, Vinola 4 of Maples, C. S. Hechtner.
Chariton, Ia.; second, Princess Standard.
Straub Bros.
Senior Yearling Heifer: First, Merry

First, Vinols Chariton, Ia Straub Bros

Senior Yearling Heifer: First, Merry Mald, Straub Bros.; second, Ada of Maples. C. S. Hechtner, Chariton, Ia.

Junior Yearling Heifer: First, Bessle of Maples, C. S. Hechtner; second, Sweet Belle, Straub Bros.

Wayne Dinsmore, Ames, Ia., judge.
Bull Three Years or Over: First, Durock,
Dan E. Clark, Cedar Falls, Ia.; second,
Logan, Frank J. Clouss, Clare, Ia.
Bull Two Years and Under Three: First,
Rutland, W. S. Hill, Alexandria, S. D.; second, Midnight, Dan E. Clark.
Bull One Year and Under Two: First,
Bull One Year and Under Two: First,
Dudley, W. S. Hill; second, Dude, Frank J.
Clouss.
Senior Rev. Co. March 18, 1945

Clouss.
Senior Bull Caif: First, Valentine, W. S.
Hill; second, Ruperta's Goods, Chas. Graff.
Junior Bull Caif: First, Newton Again,
Frank J. Clouss; second, Jester, C. J.
Buchanan.
Junior Heifer Caif: First, Rosette 3rd,
Dan E. Clark, Cedar Falls, Ia.; second,
Tulip 3rd, Dan E. Clark.
Exhibitor's Herd: First, Dan E. Clark,
Cedar Falls, Ia.; second, Frank J. Clouss,
Clare, Ia.
Breeder's Young Herd: First, Frank J.
Clouse; second, W. S. Hill.
Bull Three Years or Over: First, Dijkstra Beauty Lad, W. B. Barney & Co.,
Hampton, Ia.; second, Artis Mercedes Posch.
(Continued on page 11.)

(Continued on page 11.)

ESTION ALFALFA

Referring to an article on anaita of recent date, July 3, the many published articles on this as on many subjects fail to give the information needed. I therefore would ask a few simple questions.

1. What kind of land is best suited

for alfalfa?

Should it be bottom or upland? 3. Having a strong tap root, naturally is it not designed by nature as dry land crop?

4. How far down will this tap root go to reach water, presuming the ground permits its descending as far as it will or needs to do to sustain the plant?

harm can subsoiling do the plant? If the plant needs water to sub-sist upon until tap root reaches moist ground, is it not best to subsoil to hold moisture to supply its needs?
7. To irrigate a plant with a tap

root reverses the order of supply to the plant does it not and renders the tap root unnecessary therefore changes the plant from a natural to

an artificial plant?
8. When irrigated will it produce a greater amount of forage and last longer than if grown naturally?

9. Is the naturally grown product better than or inferior to the irrigated?

10. Does not the irrigated cost more per ton to raise than natural?

 How many hours' immersion, during flood, will good alfalfa stand without being injured? 12. How many times can good al-

falfa be cut and how many tons will good alfalfa produce to the acre?-Henry Funnell, Perry, Kan. I have mailed you bulletin No. 155,

giving information on alfalfa seeding and culture, and covering most of the points asked in your questions.

I can hardly take the time or space

to fully answer all your questions. Briefly I may answer as follows:

1. Alfalfa grows successfully on a variety of soils, from sandy loam to heavy clay or gumbo, but the general experience is that the soil must be well drained and of average fertility. In general I may say that a good al-falfa soil should be rich in the mineral elements of plant food, especialwell supplied with lime. In fact, the limestone soils of this state are the best alfalfa lands.

Alfalfa does equally well on bottom or upland compared with other crops grown under similar conditions. Fertile bottom land will produce the larger yield of alfalfa, the same as it may produce the larger yield of corn or other crops. However, upland produces the better seed crop of alfalfa, the ranger growth on the bottom land or more fertile soils being opposed to seed production.

The fact that the alfalfa has a top root does not necessarily indicate that it was designed by nature only as a dry land crop. Many other plants have tap roots; for instance, flax, cotton and sugar beets and other root crops, which are not especially

cassed in bulletin No. 155, to which I adapted for growing on dry land.

4. By good authority the roots of alfalfa have been reported at the depth of 12½ feet, and other reports not so authentic have indicated that the roots may go much deeper. On the upland soil of the station farm we have traced and washed out the roots

of alfalfa to the depth of 9 feet.
5. Subsoiling may do alfalfa no harm. In fact, heavy land which does not have good under drainage is often very much improved for growing alfalfa by deep loosening and subsoiling previous to seeding the alfalfa, but this preparation should precede the sowing of the alfalfa by several months or a year in order that the soil may become well pulverized and settled and in good seed bed condi-The loose, mellow soil is not in a favorable condition for sprouting the seed and starting the young plants. This matter is further disrefer you.

land without irrigation. I have reports of irrigated fields of alfalfa in Mexico which are said to be over 70 years old. On the dry lands of Western Kansas we sometimes find it difficult to maintain a stand of alfalfa more than four or five years in succession.

9. The chemical analysis of irrigated and dry land alfalfa indicates that the dry land product is somewhat richer in protein and has a higher feeding value pound for pound than the irrigated alfalfa. This is shown by the work at the Utah Experiment States. However the yield from the Station. However, the yield from the irrigated alfalfa may be double or treble the yield of the alfalfa grown on dry land. Hence, the quality of the crop becomes of minor importance. The difference in quality, how-ever, is not extreme, irrigated alfalfa making excellent forage of high feeding value.

10. Comparing the cost of produc-ing irrigated and unirrigated alfalfa,

At this station we usually cut four crops of alfalfa in a season. occasionally cut five. In Southern Kansas and Oklahoma it is not unusual to harvest five good cuttings in a year. In Northern Kansas and Nebraska three or four crops would be the average for a season, while in Western Kansas the number of cuttings is very much dependent upon the rains and the variations in seasons. Occasionally one good cutting on the upland in Western Kansas is all that is secured in a year, while in other seasons two or three good crops of hay are harvested. A common practise is to harvest one crop of hay and a crop of seed.

On the ordinary upland soil of the station farm we often harvest from four to five tons of good alfalfa hay per acre, in a season, and on the more fertile soils in this section of the state and throughout central Southern Kansas even larger yields may be secured. However, the alfalfa crop depends upon the season and the fertility of the soil, the same as other crops, and the yield is therefore variable in different parts of the state and under different conditions.

Kansas is Growing. Secretary F. D. Coburn of the State Board of Agriculture has issued the first authentic report showing the number of inhabitants in the state. According to the books of enumerators, the population of Kansas March 1, 1909, was 1,707,491, the largest ever reported for the state, and an increase of 50,692 or 3 per cent over the pre-ceding year. Seventy-eight counties show an aggregate gain of 57,587 and 25 a loss altogether of 6,895. counties showing decreases are in the eastern and western portions. The of-ficials of Lyon and Atchison counties ignored the law and made no returns of population, hence the 1908 returns from those counties are used in this year's computations.

The thirty-one counties comprising the central tiers from north to south have 59 per cent of the net increase for the entire state. Sedgwick county shows by far the largest individual increase, 12,697, or 22 per cent of the total increase for the state. Shawnee is next with a gain of 3,171, followed by Leavenworth with 2,786, Cowley 2,020, Bourbon 1,952, Crawford 1,889 and Sumner 1,882. The gain in these seven counties represents 45 per cent of the increase for the state. county on the Oklahoma border and each one in the extreme eastern tier shows an increased number of inhabitants, except Cherokee, in the southeast corner. The largest decrease is in Norton county; Decatur shows the next largest falling off.

An idea of the growth and decreases in some of the counties may best be conveyed by statements as to percentage. Sedgwick shows the largest per cent of increase, 21, followed by Comanche with 19, Barber 17, Clark 15, Stevens 13 and Stafford, Pratt and Pawnee (adjoining counties) ten per cent each. Only one eastern county, Woodson with a falling off of six per cent, shows any noteworthy decrease.

The rank of the five counties leading in population this year reveals two notable changes. Montgomery, which was second last year is fourth, changing places with Sedgwick which now ranks second. Wyandotte, Shawnee and Crawford occupy the same relative position as in 1908. The leading five counties in 1909 are Wyandotte, Sedgwick, Shawnee, Montgomery and Crawford.

A comparison of the population sta-tistics for 1909 with those of ten years previous shows some quite remarkable increases. There are 282,372, or 19.9 per cent, more inhabitants this year than in 1899. Seventy-nine counties show increases. In the ten years Clark county has increased 104 per cent, Finney 137, Ford 142, Gove 130, Grant 186, Gray 169 and Greeley 181 per cent. Haskell county shows an increase in this ten-year period of 205 per cent, Kearny 178, Meade 198, Morton 277, Seward 433, Stanton 236 and Stevens 325 per cent.

The average farm value of hay in the United States for 40 years (1865-1905) is officially stated to have been \$9.30. If farmers of Kansas can in future get this average for their alfalfa—the best hay on earth—their prosperity will need no amendment.



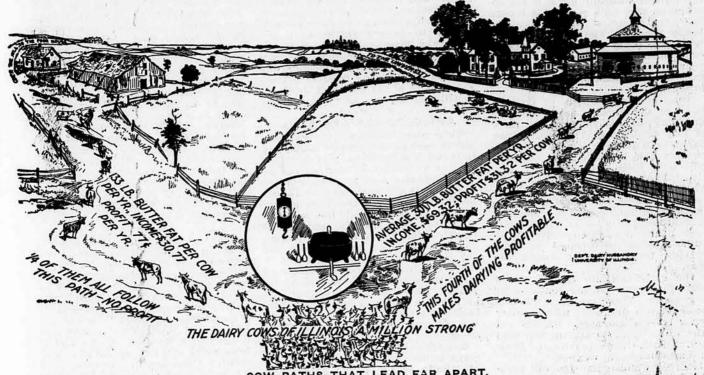
Out there in Kansas. Aberdeen-An gus cow and calf belonging to the herd of Harry Barnes, Beloit, Kan.

6. Subsoiling or deep loosening of the soil is favorable to absorbing and storing the moisture, which is a reason why such preparation should precede the sowing of the alfalfa by a long interval.

While the alfalfa produces a top root which goes deep into the sub-soil, it also produces a large number of smaller roots which act as feeders near the surface, and these smaller roots are perhaps the more important in supplying the plant both with moisture and plant food.

In dry countries the alfalfa which is properly irrigated will certainly produce a very much larger yield of forage than the unirrigated alfalfa, and will maintain its stand and growth for a longer period than the alfalfa which is grown on the dry the cost of irrigation will of course be variable. There is no question but that in a country where irrigation is required in order to produce profit-able crops, the irrigated alfalfa may be raised at a much less price per ton than the dry land alfalfa, and the irrigated crop will be much surer. 11. I have known alfalfa to be

flooded for three days in succession with running water without being greatly damaged, but if the water stands on the alfalfa for three days the plants will almost surely be entirely destroyed or drowned out. is a common expression that alfalfa will not stand "wet feet," and it is invariably true that low spots in a field which accumulate surface water and are not well drained will soon kill out alfalfa in a field.



COW PATHS THAT LEAD FAR APART. The scale and tester stand at the parting of the ways. They prove that each cow going up the right-hand path is worth as much to the dairyman as 41 cows on the left-hand path.—From Circular No. 118 "Cows ys. Cows," by Wilbur J. Fraser, Chief Dairy Husbandry, Agricultural Experiment tSation, University, Ill.



THE YOUNG MAN'S OPPOR-TUNITY

In the future as in the past young men will continue to leave the farm seeking success in law, medicine, school teaching, business, etc. Finding these professions well filled and struggle more desperate than expected many will resort to menial oc-cupations and crowding the towns and cities will earn only a bare existence. Kansas Farmer has frequently called attention of young men to the fact that training among agricultural lines offers to them the widest opportunity. This training is necessary if the young man is to own and operate his own farm. If he does not desire, or cannot, own a farm the training will open large opportunity as farm managers, animal husband-men, or one of the many allied branches. The rapid growth and extension of experiment stations, agricultural colleges, farmers' institute systems, and the demand for experts in the agricultural departments of this and foreign countries is creating a large demand for the young edu-cated man to fill such positions. The young man leaving the home farm and seeking a future in the world can well afford to investigate these opportunities, which provide pleasant and remunerative employment.

To demonstrate the truth of the foregoing it is only necessary to say that the worthy graduates and the ag-ricultural and animal husbandry departments of the agricultural colleges are eagerly sought and given employment almost before they are out of school. Last year the Iowa agricultural schools graduated the largest class in its history and every man is now located in an excellent position and the college authorities are daily turning down requests for men to fill remunerative positions along these lines.

A very gratifying feature about the positions filled during the last few years is the fact that 86 per cent of these young men are engaged as managers of farms and ranches. This is a most excellent field as there seems to be no limit to the demand for such Several of this year's men started at from \$1,200 to \$1,. while members of last year's class are now drawinf, in some instances, better than \$2,000 per year. That advancement is rapid for a man who makes good is well illustrated in the case of W. A. Forbes who took charge of a large farm in July, 1908. He received \$40 per month and board for 6 months, then \$75 and board for the second 6 months, at the end of which time he signed a contract at \$2,000 per year. Six of this year's class are filling college positions. The most recent appointment being that of Don Griswold, who has been elected to an excellent positon in animal husbandry work at the Texas Agricultural College. This makes 27 different states and four foreign countries that have taken Ames graduates for college positions during the past seven years. The college authorities are rejoicing over the fact that Edinburgh University of Scotland has decided to send all of her scholarship men to Ames to pursue graduate work along animal husbandry lines. Two of these men are now on their way from Scotland.

DO KANSAS FARMERS FEED TOO MUCH HAY?

The farmer who is using his teams daily at heavy work needs to use judgment in their care if he would get the best service from them. A recent dis-cussion as to whether the average farmer was a good feeder where work horses are concerned brought out some interesting statements. It is the common custom among farmers to feed heavily when their teams are working hahrd. Experience gained by men wo handle large numbers of horses seems to indicate that this plan is t mistake, particularly in the matter of feeding hay.
In Coburn's "Book of Alfalfa," this

statement occurs: "It is no doubt true that Americans feed their horses too much hay. It is common among horse owners to let horses stand to full mangers when not at work. But in London, the cab horses for example, are given hay for but two hours a day, in the evening. At the end of two hours the mangers are cleared. Careful testing in decreasing the timothy hay ration one-half has not shown that the horses required any

KANSAS FARMER ITORI

Published Weekly at 625 Jackson street, Repeka, Kansas, by The Kansas Farmer Company.

ALBERT T. REID, President.

S. H. PITCHER, Secretary.

J. R. MULVANE, Treasurer.

T. A. BORMAN, I. D. GRAHAM, Editors.

Chicago Office—1736 First National Bank Building, Geo W. Herbert, Manager. New York Office—41 Park Row, Wallace C. Richardson, Inc., Manager.

Entered at the Topeks, Kansas, postoffice, as second class matter.

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CONTRIBUTIONS. — Correspondence invited on all farm topics, live stock, soil cultivation, grains, grasses, vegetables, household matters, recipes, new and practical farm ideas, farm news. Good photographs of farm scenes, buildings, live stock, etc., are especially invited. Always sign your name, not for publication, unless you desire it, but as an evidence of good faith. Addres all communications to

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Topeka, Kansas.

more grain than before to keep them in equally good condition.
"Horses do not need a heavy ration

of alfalfa hay. Fed with grain probably ten or fifteen pounds of it is equal to a manger full of other hay. As they become accustomed to the al-falfa it may be increased a little, and the grain decreased. It is a rich food

and should not be used as freely as hays with less protein."

To gain further information on this subject Kansas Farmer consulted with the Topeka Transfer and Storage Company which works several hundred head of horses on the city pavements every day of the year. Pres. O. H. White states that he finds that the most economical grain feed for heavy horses at heavy work is a ration of corn chop and bran in equal quantities. He states that he prefers oats but their price is prohibitive. In feeding hay he uses timothy which must be free from dust and which is given in very small quantities at morning and noon with a large feed at night. Next to timothy he prefers good prairie hay and this, when used with corn chop and bran makes a good feed and the one which is used in their barns most of the time.

There seems to be no doubt that the general practice of filling the mangers full of hay at all times is a wrong one for the heavy drafter that is doing steady work.

N N N FARMERS' INSTITUTES 1909-10.

A great deal has been done for the education of the Kansas farmer in the post but the future has greater things in store for him. The farmer, generally, does not appreciate the value of the farmers' institute but it is our observation that each year he is becoming more interested and is receiving larger benefits. The institute season will soon begin and the farmers of each community should see that this year institutes are record breakers from the standpoint of attendance and interest

Superintendent Miller, of farmers' institute department, has planned a great'institute campaign, in fact three or four campaigns. The institute department is to have seven regular assistants now in addition to considerable help from the experiment Sta-There are two hundred fortyfive regularly organized farmers' institutes in Kansas, and it is the expectation to help each one hold a meeting. More than thirty were missed last year. Then, the superintendent of institutes wants to organize at least fifty-five more institutes during the year.

The early institute campaign will begin September 20 and continue for four weeks. These meetings will continue for one day only, with possibly a few two-day meetings. Officers and others interested in having meetings in this period should write the institute superintendent at once.

The big winter campaign will probably begin on October 28. All county and local institutes that are to have corn contests and corn shows will be

expected to hold their meetings some time from October 18 to December 19. Those not having contests may be asked to wait until after January 10. Very few institutes will be held in the western third of the state until after the state institute. Work in western Kansas will be carried on during January and February.

AGRICULTURAL YEAR BOOK.

The United States Agricultural Department year book for 1908 appeared and as usual is full of interesting and instructive matter. This year it is a sizabe volume of about pages. The Secretary's report to the President takes up 186 pages and all persons who desire to get a comprehensive idea of the varied activities of sizabe volume of about the Department can not do better than read this part of the book than 300 pages are filled with papers on subjects related to the farm which, while they embody the latest scientific knowledge derives from both experiment and observation are couched in such plain language that any busy farmer can read them and apply their points to his own operations. In these papers he will find valuable hints on growing several kinds of crops and fruits; on the dangers of the cow that while apparently healthy is really filled with tubercle bacilli; on what measures which may be taken to prevent and cure hog cholera; how to prevent farm waste; why he should protect certain birds and mammals that he often kills and even how he may construct a simple apparatus for taking weather observations on the farm. There will be little use in writing the Department for a copy of this year book, however, for the Department gets only 30,000 of the edition of about half a million and these are sent largely to its own employes, to persons who give gratuitous service as crop reporters and weather observers and to libraries. Each Senator and Member of Congress receives a thousand copies of the book and these are distributed among their constituents.

GET GOOD ALFALFA SEED.

Very many farmers will buy their alfalfa seed for sowing this month and next and it is important that they look well to its quality. Cheap seed is always expensive. It requires more of it to secure a given stand; it is less likely to germinate and it is almost sure to be mixed with the seeds of noxious weeds. Alfalfa seed should be tried for its germinating powers and also examined for impurities. If the germinating powers are low or if there is a considerable admixture of other seeds the sample should be rejected. There is plenty of work to be done on the farm without deliberately increasing it by sowing seed that will not grow or by sowing more weed seeds.

Sometimes it is difficult for the average farmer to detect weed seeds in his alfalfa as the alfalfa seeds vary somewhat in color, size and shape. The more common adulterants are the seeds of yellow trefoil, sweet clover.

burr clover, spotted clover, lambs quarter and dodder, the last of which is much the worst.

If you have a doubtful quality of seed send a sample of it to Prof. H. F. Roberts, botanist of the Kansas Experiment Station, Manhattan, for a free test. If you live in a locality where 14 pounds of seed per acre is the proper amount and a germination test shows that the seed is only 80 per cent good, you should sow 171/2 pounds per acre. If it tests only 70 per cent good then sow 20 pounds per acre. With doubtful seed it is better to sow a little too much than not quite enough.

QUICK ROTATION FARMING.

Prof. P. E. Crabtree of the farmers' institute department of the State Agricultural College, is able to report progress on the Bourbon county demonstration farm. Perhaps the most interesting result obtained this first year is with what he calls his "quick rotation crop."

In this, the field was first sowed to oats and Canada peas. This yielded over 4 tons of pea hay to the acre which makes an excellent feed for horses, cattle, sheep and hogs as it is rich in protein. Immediately after this harvest cow peas are drilled in and, after they have been cultivated twice, the field is sowed broadcast to turnips while rye or oats may be drilled in between the rows of cow peas. By the time the peas are ready for harvesting, the rye and turnips will be four or five inches high and the field will afford an excellent winter pasture.

This system can be practiced one year to store the soil with nitrogen from the legumes and then the field can be planted to corn the next.

This quick rotation serves to con-serve the fertility of the soil, to kill the weeds effectively and to increase the yield of each crop.

* * *

TUBERCULOSIS IN SCHOOL ROOM. That school boards should be careful to employ healthy teachers and also be sure that school rooms are kept clean, sanitary and well ventilated is no longer a question for argument. Tuberculosis is undoubtedly preva-lent among school teachers. In Canada, in 1881 and 1883, an analysis of the returns showed that teaching was one of the occupations most frequentattached. Late figures from the United States census are significant. The ratio of deaths from consumption in 1,000 deaths was:

Of all males engaged in all occupations, 154; of all male teachers, 184; of all females engaged in all occupations, 215; of all female teachers,

The causes are to be found in foul air and possibly chalk-dust.

St St St

Wisconsin is a hustling state in the interest of its various lines of agriculture, and it is certain that money so expended will be repaid many fold. Wisconsin Agricultural College has inaugurated several new courses of instruction which will begin this fall. A course in farm management will be given by Prof. D. H. Otis, recently promoted to professor of farm management. This course will show how to plan various farm operations, and to select laid, lims stock, and crops to secure the greatest financial returns. All Kansas will remember Professor Otis. He was reared on a farm near Topeka. His education was obtained at Kansas agricultural school. He taught in that school many years. He went to Wisconsin because that state could pay him more money than Kansas thought him worth. Otis is a valuable man to Wisconsin.

"Every section of the west is interested in irrigation and conservation. Irrigation places the water for supplying moisture to growing crops in the hands of the tiller of the soil. It insures perfect regularity in seedtime and harvest, and removes the element of doubt from the fields of agriculture. But at the foundation of irrigation lies the preservation of the forests from which come water for power, irrigation and domestic purposes, wood for building at home-for lumber to ship abroad—and the scenic effects of nature in all her glory that should never be restricted."-Gifford Pinchot.

JE JE JE

In Seattle recently was held the an-In Seattle recently was need the an-ual first meeting of the National Con-ervation Congress. This meeting romises to form the foundation for

great movement that will benefit all

onnected directly or indirectly with he tilling of the soil. It was an experience meeting of experts in the various branches of soil husbandry,

arious branches of soil husbandry, uch subjects as irrigation, dry farm-ng, forestry, good roads, and the lealth and morals of the people being discussed. Conservation interests the

armer because it deals with condi-tions surrounding the preservation of the natural resources of the land. Na-

the natural resources of the land. Nature and the farmer must cooperate in order to insure permanency of profits and the continuation of annual income.

The tiller of the soil can work with a profit from his labors in every field of

profit from his labors in every field of productivity. Conservation of the soil means protection of the sources of wealth in agriculture. An abundance of plant food must be kept in the surface soil to insure good cash ret runs from the investment of time and labor.

The plant food can be retained only brough systematic methods for restor-

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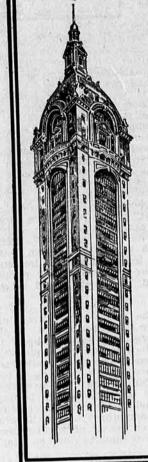
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tural College during the past decade it is interesting to note that the graduates from the agricultural group of courses leads that of the mechanic arts by about ten per cent, while nearly three-fourths of the young women have completed the domestic science course. The total of those credited to the general science group, including both men and women, is 218, but in research proportion taking that cent years the proportion taking that course has much diminished. In 1900, 58.6 per cent were graduated from that course, while in 1909 they made but 12.8 per cent. This shows the ten-dency toward the special technical

greatest bureau of information in the world, the Department of Agriculture, has been building cities for past cenhelp struggling humanity "back to the farm."

Farming has taken many steps upward within the past few years. It has reached the plane where the tiller of the soil, in its various branches, is of more than ordinary importance to every community. The commercial world looks to the farmer for supplies in food and clothing, and in many places for fuel and other necessities The commercial world must cater to the farmer as one of the valued patrons of industrial enterprises. The general prosperity of the nation is measured by the prospects of agriculture in the spring and the crops gathered in the fall.

Here are a few things about Kansas every one should know: Kansas bank deposits aggregate \$102,934,857. Most of this wealth belongs to the farmer and was created from the soil. Only three states in the Union out-

crop averages two bushels for each inhabitant of the United States and its alfalfa meadows cover a million acres.

Every live farm paper from ocean to ocean is preaching the advantages of alfalfa, and in every state the alfalfa acreage is increasing. Much of the best alfalfa literature used by these papers comes from Kansas. This state has a large acreage, but it should be twice as great. Are we Kansans not a little slow in recognizing the value of alfalfa? Not every Kansas farm has it. Every farm should have all the alfalfa its live stock can use.

"The object of good farming is not primarily to make money, but to make a home, and develop character in the children who are to carry on the business after their parents have been luid in their last resting place. Therefore, the life of the farmer and his wife who fail to educate their children properly a failure, no matter how many ac 125

of land they may own, or how much more they have in the bank."

The Nor-West Farmer, Winnipeg. Canada, closes an extended review of the wheet situation with the follow. the wheat situation with the follow-ing: "In looking forward to the future we would advise as much con-servatism as possible in marketing the new crop, because the farmer who can hold his grain to be sold after the turn of the year is going to get the best prices and they are likely to be very high."

Outlook for Beef.

Packers continue to express disappointment at the limited supplies of western range beef. The expected heavy receipts fail to show up and prices remain comparatively strong. There does not seem to be any danger of a beef famine but on the other hand there is little possibility of the offerings becoming heavy enough to materially reduce the price of beef.

A steer of the best fattening type should be short legged, thick backed and blocky built; of quiet disposition, smoothly dehorned, and should show their relation to some of the beef They should be as even as possible in size and color and have good ears and tail. To be wild, nervous and uneasy is the worst fault a steer can have. He will neither gain himself nor allow others to do so.

Type of Steer for Feeding.

at the stock yards be on hand to see that the cattle suit. Quality is the main consideration and a small advance in price is more than balanced by increased gains. The most successful feeders are selecting steers with great care. There are some with great care. They are some the produce heef at with great care. There are some steers which will not produce beef at a profit. There is no use in feeding

The farmer who interests himself in clover and alfalfa is the one who is now looking so prosperous. "From Idaho to Italy" is a good thing for these farmers the properous kind, to read. Have you read it?

THE PECOS PALISADES TRACT.

Nearly everyone is interested in some degree at least in irrigation. It is surely a fascination, and under right conditions, a profitable kind of farming. One of the very finest irrigation projects before the public is the Pecos Valley irrigated lands. The Kansas City, Mexico and Orient Railkansas City, Mexico and Orient Railway is building right towards this tract and will soon reach it. There is no uncertainly or speculation about the rarilroad going there. This is absolutely certain. There is no uncertainty either about the wonderful richness of the alluvial soil in this splendid tract of 25,000 acres. And there is absolute assurance also of there is absolute assurance also of plenty of water for all this land. The railroad wants to get buyers for this land, because after it is built to the tract it naturally wants to get freight to handle as soon as possible. Now is the time to buy while the price is low, only \$60 per acre, with the terms surprisingly reasonable. The U. S. and Mexican Trust Company, fiscal agents of the Orient Railway, have put out one of the finest books we ever saw, telling all about the new project. It is beautifully illustrated. It gives reliable information and tells you just what you want to know. It gives the opinions of men like F. D. Coburn about the tract. It is published as stated by the Land Department of the United States and Mexican Trust Company, 958 Baltimore Ave., Kan-sas City, Mo. This company is the fiscal agent of the Kansas City, Mexico and Orient Railway, known as the "Orient" way. A personal letter from the Land Commissioner, Mr. Horabeck, states that a copy of the book will be sent free to any person who is in the market for irrigated land. The book is to expensive, he says, for promiscuous distribution among the merely curious. Write for it at the above address, and say you saw the Buy either of neighboring farmers, or offer in KANSAS FARMER. if employing a commission man to buy

ing fertility and conserving the forces of nature that contribute to the per petuation of soil wealth. The native grass pastures of eastern and central Kansas are rapidipassing. Hundreds of pastures have practically no value and are a loss to their owners. The land in cultivated ercps would yield in some instances one hundred times more than as pasone nundred times more than as pas-tures. Yet realizing the need of a pasture the farmer hesitates to place the ground under cultivation. There the ground under cultivation. Have is only one method of restoring native grass pastures. Keep the weeds mowed and let the sun and rains reach to the grass and keep the stock off. The way to have grass is to let it grow. Where pastures are closely the stock of the gray to have grass in the breathgrow. Where pastures are closely cropped from early spring the breathing leaf surface is reduced to practically nothing and the roots must weaken and gradually die. The grass plant breathes through the blade or leaf and if the latter is closely cropped as in many pastures there is no chance for life or improvement. Frequent mowing will destroy the weeds. quent mowing will destroy the weeds, admit the sunshine and permit the grass roots to utilize all the moisture. The native grass pastures are worth saving. No substitute has yet been found in this attitude for good native grass pastures.

N N N Four years ago this editor made a trip through Kearny county, which is in the extreme southwestern part of Kansas. Alfalfa was growing in the Arkansas valley of that county as per-fertly as it could possibly grow. But, on the uplands and beyond the irritime and again they had made an effort to grow the wonderful plant but with no success and had given up trying. However, S. P. Wright, living on the high lands 22 miles northwest of Lakin, was determined to succeed and acording to a Lakin paper, he harvested this spring one and one-half tens of hay from first cutting of the spring planting on two acres sown.
The seed was drilled in rows 22 inches apart and was cultivated by harrowwhere and was cultivated by harrowing and plowing, as in corn. Mr. Wright is quoted as saying: "This demonstrates that alfalfa can be raised successfully on the uplands, and also that it will yield well enough to be a good, profitable crop." The moral: You must have alfalfa. Keen ty-You must have alfalfa. Keep trying until you get it.

Crop rotation is recognized as an important factor in profitable farming. The farm revenues of Kansas, and for that matter any other western state, can be increased 25 per cent by a rational system of crop rotation. lotation must be arranged for each inlyidual farm. A rule which will fit all farms cannot be successfully tre-scribed. In some very simple systems of rotation conducted at the Minnesota experiment station, St. Anthony park, a difference of \$13.43 an acre in net profit is shown between poorly arranged cropping systems and those that provide for a proper system of rotation. Pasture and hay crops judiciously distributed throughout the rotation with the reasonable use of cultivated crops invariably result in greatly increased yields of grain and all other crops.

The number graduating from an institution is an important criterion leaching its growth. With the increasing specialization which has been go ing on at the Kansas State Agricul

The government has established the for aiding the farmer to get from the land all that it holds. Our country turies. The bright young men have been called from the farms to assist in the work of building great com-mercial centers. Waste and extravaization of forces in the metropolitan

gance have characterized that centraldistricts. A change must take place in order to save the nation from overpopulation in congested industrial districts. "Back to the farm," is the cry, and the combined forces of industry, education and commerce must unite to

rank Kansas in the value of assessed property. These states are New York, Pennsylvania and Massachusett. Kans:as produces one-sixth of the wheat of the United States. Its corn

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FOR SALE—25 HEAD WELL ERED horses, three to five years old, saddlers and roadsters, at reasonable prices. S. R. Shupe, Sitka, Kan.

MULES FOR SALE—27 HEAD COMING 3 years old; 26 head 3 and 4 years old; 25 head 5 to 7 years old, 16 hand. The 25 head just out of work but in fair flesh. Alinative and good sized mules. Make date by letter or wire if you care to look at hem. Wm. Colter, Gardeen City, Kan.

SWINE.

POLAND CHINAS, SHORTHORNS AND B. P. Rocks—Yearling boars, sows and gilts open or bred, also fall pigs. B. P. Rock eggs \$3 per 100. A. M. Jordan, Alma, Kan.

CATTLE.

JERSEYS FOR SALE—A CAR LOAD OF high grade cows and helfers. E. B. Davis, Columbus, Kan.

FIFTY HOLSTEINS, DISPERSION SALE September 22, Ottawa, Kan. Write for cata-logs. Walter Pleasant, W. S. Williams.

ALYSDALE SHORTHORNS—IN SERVICE ADISDALE SHORTHORNS—IN SERVICE
—Prince Consort 187008, red; Master of
Alysdale 241519, rean. For sale now, 10
registered, extra choice young bulls, from
8 to 16 months old. All red. Also 20 cows
and heifers. Fine ones, at prices below their
value. Let me show them to yeu. Charles
W. Merriam, Columbian Building, Topeka,
Ka 1.

DOGS.

FOR SALE—COLLIES OF ALL AGES. Natural born cattle drivers. Pedigreed stock. Write for circular. Harry Wells, Beilevilla,

SCOTCH COLLIES—PUPS AND YOUNG dogs from the best blood in Scotland and America now for sale. All of my brood bitches and stud dogs are registered, well trained and natural workers. Emporia Kenné. Emporia, Kan. W. H. Richard.

COLLIES OF ALL AGES FOR SALE— They are stock drivers, pets and home pro-tectors, 260 head sold last year. Write for illustrated circular and prices. Would like to buy a few ferrets. Address Harvey's Dog Farm, Clay Center, Neb.

SEEDS AND PLANTS.

FOR SALE—MALAKOFF SEED WHEAT. This is pure bred wheat, grown here 3 years. Recleaned, graded and sacked, \$1.25 a bu. F. O. B., cars here. C. L. Hendricks, Glen Elder, Kan.

FOR SALE—ALFALFA, TIMOTHY, BLUE grass and other grass seeds, seed buckwheat, turnip seed and other seeds for fall planting. Send for prices. The Barteldes Seed Co., Lawrence, Kan.

WANTED—NEW CROP MEADOW FES-cue or English blue grass, clover, timothy and other grass seeds. Please write us when you have any to offer. The Barteldes Seed Co. Lawrence, Kan.

LAWYERS.

A. A. GRAHAM, ATTORNEY AT LAW Topeks, Kan

SHEEP.

FOR SALE—SHROPSHIRE RAMS; REGistered and ready for service. Ernest Giffrd, Beloit, Kan.

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FOR EXCHANGE—A CHICAGO SUBURban lot for a draft stallion or a jack. W. J. Yoho, 316 S. Seneca St., Wichita, Kan.

FOR SALE—12 HORSE PORTABLE gasoline engine and 4 hole corn sheller, nearly new. W. R. Dawdy, Jewell, Kan.

FARM LOANS MADE IN ANY AMOUNT from \$500 up at lowest rates and on most favorable terms. Betzer Realty & Loan Co., Columbian Bldg., Toyeka, Kan.

786-ACRE HIGHLY IMI-ROVED LYON County Ranch for \$34.00 per acre. Write for full description and list of small farms. Hurley & Jennings, Emporia, Kan.

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made on a first class spreader, with my agreement to pay you back your money after you try have best spreader I would not dare make such an offer. 20,000 farmers have stamped their O. K. on it. They all tried it 30 days free just like I ask you to try it—30 DAYS FREE.

Browne a pastal, and say—"Galloway, send me your new proposition all is 5 preader BOOK FREE with low prices direct from your factory." I also make a new complete seel gear Spreader—70-bu size.

H. Guthberson, Gladbrook, Iowa. "Works fine. Spreads an ew complete seel gear Spreader—70-bu size.

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Readers Market Place LIVE STOCK



While nguring on how to increase the live stock the farm will carry do not overlook the sheep. The sheep fits into any system of farm operations handily and profitably.

Begin now to plan for the winter comfort of the live stock. This is especially important if you are short on feed. Good stabling and care very frequently will save half the feed. Keep the live stock thriving in winter as well as in summer when pastures are good and weather favorable.

Among hogs, horses or cattle there is no "best" breed. There is no breed which is not superior to any and all others in some one particular at least, and which is for that reason better adapted to certain requirements. Study your conditions and requirements and select the breed accordingly.

Study the needs of the live stock and supply the requirements. If the pastures are short begin feeding. Do not delay feeding until frost unless the grass is good. The farm should each year produce enough roughage to permit early fall feeding. The live stock to be most profitable should be kept growing and fattening. The pasture season is only three or four months long and you cannot afford to depend on these few months for the year's growth.

When the green stalks are given to hogs care should be used to prevent cattle from having access to the woody fiber which the swine will leave after chewing the stalks. Pigs relish chewing the stalk for the sweetness of it, but leave enough saccharine matter in the fiber to make it attractive to cattle, especially the younger stock. This fiber is indigestible, and the cattle, if allowed to pick it up, will frequently eat a sufficient quantity to cause impaction and harmful if not fatal results. It is not safe to let cattle into yards where swine are given green corn stalks.—From Coburn's "Swine in America."

Does it not appear a bit foolish for an 80-acre farmer to keep a scrub bull for the service of four cows? This is what the editor observed last week. A good cow in the bull's place will earn at least \$50 per year. A farmer is justified in keeping a bull for four cows if the bull is a superior animal and there is none other so good within his reach but to feed and be bothered year after year with a scrub, with dozens of others as good in the community, seems folly. Let a half dozen neighbors buy a good bull, beef or dairy, and use him in company, thereby saving labor and expense and making room for five good cows additional in the neighborhood.

"Untimely severe frosts sometimes damage the corn crop so that its mar-ketable value is considerably lowered, but in this event, as in other cases, the hog comes to the rescue," says Co-burn in "Swine in America." "Soft corn is considered excellent for swine, and especially for the young; in fact, many breeders believe they can obtain better gains from soft corn than with the sound, hard grain. In soft corn the maturing of the grain has been checked, thereby arresting the development of the starch content or fat-producing element. When used it is advisable to add, for finishing, some corn that is well matured. Immature corn that is frozen and even somewhat soured may be fed to hogs, but if there is on hand a greater quantity in that condition than can be used on the farm before warm weather sets in it should be disposed of while the weather is cold. Ordinarily it may be used in cold weather without danger, but it should not be carried over into the warm season, as it will ferment and become unfit for use.'

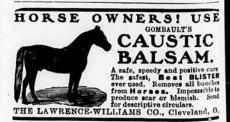
The horse question in Kansas is no less important than in Wisconsin, which latter state has done more through legislation than any other

state in the Union to drive out of business the scrub stallion. Every stallion in the state must be registered and his breeding and character described "Since that law went into effect," says Ex-Governor Hoard, "there has been a great exodus of unworthy horse breeding stock from the state." Nothing holds back the day of good farm animals like the farmer who prefers scrub males to breed from because they are cheaper. A law regulating the standard of farm breeding animals should not be required. The farmer should be interested in breeding to the best only.

When you go to the fair try to learn why the blue ribbon was tied on a particular animal. It is easy enough to know whose animal drew first prize. The important question is "Why?" Fair managements would do well to require each judge to explain to those surrounding the show ring "why" he regards the blue ribbon winner as superior to the others. Such method would make the fair a people's university, where the farmer, breeder and feeder may come and learn more about the betterment of his business and just how to do it.

This paper believes that the "one man judge" is the better plan for placing the ribbons on the winning stock at the fairs. The plan has been given several trials with success. Men from the agricultural colleges who have been widely and broadly trained on the judging of all kinds of live stock from an unbiased and unprejudiced teaching force, should be selected to do the judging. Such men are not breeders, thus being liable to subtle prejudices toward certain other breeds, but are men who have been fundamentally trained concerning the character, form, style, traits, etc., of each breed, from the breed as well as the market standpoint.

Kansas needs more horses. The demands of the times is for more horse power on the farms. The farmer would not pay man's wages to a boy if he could help it. Then why support a "boy" horse at the same expense of a "man" horse when there is work and the need for Breed to the best draft the latter? stallion available. Be satisfied with nothing but the best. Many good stal-





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ons are coming into the state and fore spring there will be more. Improve the horse quality as well as catle and hog quality. A good horse is asy sale at big prices, a poor horse low sale at low prices. A good horse a good colt for sale each year will the farm showing and a hired an is not needed to help raise a

plan for Improving Live Stock.

An excellent plan of organization of community breeders' associations is reing put forward in Michigan. The plan is to organize the farmers of the community into associations, each asociation to control 120 cows. One farmer may put in 10 cows, another 20, or any desired number. The association is then divided into blocks, each block containing 40 cows. Three registered bulls are bought of the chosen breed, and one placed with each block of cows. The cost may be pro rated among the members according to the number of cows owned. At the end of iwo years the bulls are rotated—No. 1 going to Block 2, No. 2 going to Block and No. 3 going to block 1. Two years later the bulls are rotated again, and two years following that the bulls are replaced by three new ones. A service fee of \$1 for members and \$2 or non-members is charged, thus proriding funds from which to defray cost maintenance and handling sires. While the above plan is applied to a system of grading up native cattle, it an easily be adapted to the problem of a neighborhood breeding of pure bred stock, greatly reducing the cost of pure bred sires and resulting in a center for high class stock.

Keep Feeding Heavy This Year.
The small sheep feeder is in evidence in all the markets. Most of these buyers want one or two ewes,

indicating that the small farmer will produce a considerable part of this year's mutton. Farmers generally ear's mutton. lave a great abundance of alfalfa, sorthum, Kafir corn and other rough feed. The small farmer is the man who will produce the meat of the future. His operations will not be large but he will have learned that there is more money in raising feed and converting that feed into meat than in raising grain for sale. Feed will grow when grain will not. The feeding question will require studying. Because plenty of feed is at hand is no reason that the feeder will make money. The the feeder will make money. The feeding must be properly done and to the right kind of stock. Good judgment in buying the feeders will oftentimes convert a loss into profit. Feeding a small bunch of sheep or cattle to consume alfalfa and other roughage is the money making way.

Liquid Required By Hogs.
For every hundred weight of small

pig. from 10 to 15 pounds of liquid with the feed is required every day. Either water or milk may constitute the bulk of the liquid, but if milk is used, less other feed is necessary, than if water is the dilutant. As the pig becomes older, less and less liquid is needed with the feed. His digestive system develops in strength, and his absorptive powers become greater. The content of his body changes, there

BUY A RANGE Figure it out—one-third less fuel year after year—it will more than pay for the range, and leave a big profit besides. And in addition you get a perfect baker and work-saver. THAT ACTUALLY REDUCES ARCADIAN FUEL MALLEABLE RANGE is made so scientifically right that it gives better service on a third less fuel than any other range—and it lasts a lifetime. The ARCADIAN is easy to bake with, easy to keep clean, and has many devices to save a woman work.

Cast iron or so-called steel ranges can only be bolted together. They are made air-tight by stuffing the joints with stove putty. In six months or a year the stove putty crumbles, and the range will not bake as it should, being no longer air-tight. But the ARCADIAN is made lastingly air-tight by riveting it together exactly like a locomotive boiler-as can be done only with a range made of malleable iron. Never any false drafts through cracks fanning or checking the fire—a work and fuel saver—a perfect baker.

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being ever more dry matter, and less water present. For these reasons he requires less liquid. A mature hog probably requires only about 2 to 4 pounds of water per hundred weight per day.

Herbert Myrick, head of the Orange Judd publications and president of the Phelps Publishing Co., Springfield, Mass., spent a day in Topeka recently on his return from the big Denver meetings. While here he was enter-tained by Sec. F. D. Coburn, of the State Board of Agriculture, whose great book on "Alfalfa" was lately published by the Orange Judd Co. Mr. Myrick is a great alfalfa enthusiast, and one of his objects in visiting Topeka was to learn more in regard to this wonderful plant. The editor acknowledges a pleasant visit with him, and also the complimentary mention he made of the Shawnee Alfalfa Club and its work.

Influence of Shelter on Full-Fed Cat-

tle.
I see extracts of a bulletin from Missouri Experiment Station on Influence of Shelter on full feeding cattle that shows as follows:

First Trial, Lasting from Nov. 1, 1897, to

Feb. 13	3, 189	8.	Open
			Shed Lot
Corn eaten, bushels	40	75	187 5204
Grain per lot pounds.		122	903
Daily gain per steer,	bs	1.47	1.72
Gain per bu. of corn, I	Ds	4.50	4.83
Digestible dry matter pound gain	per	12.9	11.8
Second Trial, Nov. 2,	1898.	to Feb.	18, 1899.
Second Irini, Nov. »,	2000,		
			Shelter n Lot
			E P
	-	-	Sp
	27	t je	De la
	8.9	LO LO	ZO
Corn eaten, bushels.	190	219	203
Hay eaten, lbs5	521	4360	5475
Grain per lot, lbs1	010	1255	1250
Daily gain per steer,			
1bs	1.83	2.3	2.29
Gain per bushel			8 6.15
corn, lbs	5.32	5.7	0.10
Digestible dry matter	10.92	9.0	2 9.24
per 1b. gain, 1bs	10.92	5.0	

No Shelter Open Lot Corn eaten, bushels. 142
Hay eaten, lbs....2796
Gain per lot, lbs.... 669
Daily gain per steer 1.69 4.89 11.40 Fourth Trial, Jan. 6 to April 16, 1901. S O Corn eaten, bushels. 143
Hay eaten, lbs....2096
Grain per lot, lbs... 729
Gain per day per
steer, lbs 1
Gain per bu. corn, 2.09 4.77 5.03 Digestible dry matter per lb. gain, lbs... 10.07 10.34

Third Trial, Dec. 16, 1899, to March 26, 1900.

Average of three barn, open shed, ar	e tria	als com en lot:	paring
			Lot
	Barn	Open	Open Lot
Corn eaten, bushels. 1 Hay eaten, lbs34 Gain per lot, lbs8	58 71	168 3395 907	170 3937 932
Daily gain per steer, lbs	1.78	1.99	2.05
Gain per bushel of	5.88	5.40	5.48

Digestible matter per pound gain, lbs... 10.77 Average of four trials in which barn and open shed were compared:

10.25

Open Shed Corn eaten, bushels 162 Hay eaten, pounds3747	Barn 173 3847
Gain per lot, lbs 795 Daily gain per ster, lbs 1.70	906
Gain per bu. of corn, lbs. 4.91	5.24
Digestible matter per lb.	10.34

From the foregoing experiments do you think it is pretty conclusively shown, at least in full feeding, we do not need shelter? Is it not probably true that in all Kansas, except possibly in a few counties in southeastern part of State, we have less rough weather, cold rains and snow, than at Missouri Experiment Station and hence would have less need of sheler than in Missouri? The eleven lots ter than in Missouri? The eleven lots of steers involved in these trials show an average daily gain of 1.88 pounds per day per steer. Would you consider that a fair gain?-Subscriber, Bazaar, Kan.

the discussion of your tinnin subscriber, it might be stated that the influence of shelter or confinement on a full fed steer has been the subject of experiments for a good many years. Fifteen or sixteen years ago, three tests were made at the Kansas Experiment Lation by Professor Georgeson. In all three of these trials, steers running in the yards made larger gains. They likewise consumed more grain than those confined and the results indicated that 12 per cent more grain was required for a given amount of

Sanburn, who tested this question some years ago in Missouri, makes the following statement as the results of his experiments: "It now looks as though the triu method of wintering cattle consists of giving the freedom of warm quarters with liberty of outdoor runs at their pleasure." Among

the series of questions which were sent out by Professor Waters to the thousand practical feeders, question No. 6 inquired whether cattle were fed in a warm barn, open shed, or open lot. A very large majority of the feeders responding to this question reported adversely on the warm barn for fat-tening cattle. Professor T. I. Mairs of the Pennsylvania Station has been carrying on experiments for the past five years to test the economy of gain of these different methods of feeding, as to sheltered quarters. Results of these tests have failed to show that any benefit was derived from warm shelter, either in the rate or economy of gains in comparison with animals fed in dry lot with only protection

from the storms by open sheds.

There is undoubtedly a sufficient amount of heat developed in the body in the mastication, digestion, and assimilation of the large quantities of the carbonaceous feeds which are being consumed by cattle on full feed to maintain the normal temperature of the body. In fact, it is not likely that a reasonable amount of cold will really add to the physical comfort of the animals while being heavily fed. It is important, however, that the animals not only have their coats kept dry, but that they have a dry place to lie but that they have a dry place to lie

Quoting from the bulletin No. 76 of the Missouri Experiment Station: "Apparently then the only shelter required for cattle of this class is that which will protect them from rain and snow and break the northwest winds and furnish a dry place in which the animal may lie down. It is of more importance that the fattening animal lie down regularly and during a large portion of the time than that it be protected from the cold. An abundance of sunshine and fresh air, a comfortable place in which to lie, and free-dom from all external disturbances, furnish ideal conditions for rapid and economical gains." Of course this rule does not apply to dairy cows or to stock cattle in thin condition and fed only lightly. The gains which were obtained as a result of the eleven lots of steers involved in these Missouri trials were fairly good gains considering the length of the feeding period.

return cans that show signs of rust. dered holes are found, return it, as such goods have been reneated. Also ine the cap of the can and if two sol-In using canned goods always exam-



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One-third of the cash value of the food the dairy cow consumes is left in the manure you must have to replenish your land, for Mother Earth, like all mothers, must be fed or she will fail to yield the crops desired.

Practically 900,000 acres of alfalfa are grown in Kansas each year. Three crops of hay each year from this acre-age produces such a large tonnage of the very best feed that it is doubtful if any other state man even make a favorable showing in comparison. Kansas should be the leading live stock producer of the United States.

In selecting a breed a man will choose one because he has known now and then a good cow that belonged to it. Again a man will condemn a breed because he has known now and then a poor cow from that kind. There are good and poor milkers in all breeds and a man with such judgment will never succeed at the dairy business.

It would seem that the most sensible estimate on the value of skim-milk is that based on the market price of the feeds. The rule suggested by H. B. Gurler, the veteran and successful dairyman of De Kalb, Ill., is that skimmilk is worth one-half as much per hundred pour one-half as much per hundred pounds as corn is worth per bushel. This makes the feeding value of skim-milk vary with the market price of corn, which is a fair represen-tation of the various grains used for stock feed.

It has been frequently claimed by writers in the agricultural journals that the skim-milk and manure from a herd of dairy cattle would equal in value the cost of their feed and care during the year. This may be true if these by-products are properly han-dled. If the manure is at once spread on the pastures or crop lands where its whole value may be utilized by the soil and if the milk is separated and fed warm to the calves, pigs and chickens, the cost of the keep of the cattle may be fully covered. Without such handling, however, it is doubtful.

It has been written that the difference between the successful and un-successful man is that one knows the reason for the things he is doing or trying to do and the other does not. This is especially true as applied to successful dairying. The man who knows the "why for" is the one who gets the largest profit from cows. The feeding a balanced ration is founded on good reason. It is economical feeding and the necessity for a certain amount of protein, carbohydrates, etc., is that these things are necessary to produce milk. Milk cannot be made without them. Milk is composed of these constituents of feed and if the cow gets these in less quantities than she is capable of using them the milk

flow is proportionately reduced and a so-called poor cow may not be poor at all but have a poor feeder.

An inquirer says he has bought a Holstein bull calf nearly all black, except white legs and tail and spot in cept white legs and tail and spot in forehead. He wants to know if the color is good for the breed and whether the offspring from scrub cows will be black. Holsteins are being bred quite light in color being more than one-half white. White legs and belly is considered good marking and further distribution of black and white according to fancy. The probability of the proba is according to fancy. The probabilities are that the calves of this bull will have more black than white, especially his first calves. A light colored Holstein bull should be used on red cows to secure the most desirable and characteristic Holstein marking.

The grain mixture fed by Mr. Gillett to produce the wonderful record made by Colantha 4th's Johanna was composed of one-third oats, one-third bran, and one-third gluten feed, and to the quantity of this mixture fed each day, which varied from 10 to 18 pounds was added two to three pounds of oil meal. The roughage, while in the stable, consisted of 30 pounds silage and 30 pounds roots and what clover hay she would eat. When the roots were exhausted, an additional 10 pounds of silage was fed. While on pasture, her grain ration varied from 12 to 18 pounds. This cow on this feed produced in twelve months 996 pounds of buttor for pounds of butter-fat.

When the cows are on good pasture the milk flow is largest and the expense of feeding is reduced to a minmum. This should convince one, if other arguments have falled, of the necessity of the silo. When the pasture grass begins to dry up and later when the frosts put it fairly out of commission the silage duplicates it better then enough the feet of the silage duplicates. better than any other feed can. Kansas farmers are this year more in-terested in silos than ever before. It is said that thirty-five Shawnee county farmers have built silos this summer and these are now filled. A dozen silos have been in use in Shawnee county for several years and the results obtained are responsible for unusual enthusiasm.

Effect of a Good Sire.

There is no closer student of dairy breeding than Ex-Governor Hoard and there is no man more capable than he in expressing himself with understand-

"Most farmers are far away from most farmers are far away from the truth in appreciating the value and effect of a first class bull. A breeder of dairy cows said to us the other day that he had repeatedly raised superior cows from rather interior mothers by the aid of a strong ferior mothers by the aid of a strong-ly prepotent sire. We once had a pure



Concrete floor and gutter in dairy barn of Thos. Shields, Eureka, Kan.-From First Annual Report Missouri State Commissioner.

The Thing That Interests Dairymen Today

is not which Company has made the most failures in its attempts to make successful Cream Separators, or which Company has abandoned or discarded the most inventions because (by its own admissions) of the inferiority of those inventions.

The questions which interest dairymen are:

Which is the best Cream Separator in 1909?

And which will continue to be the best Separator in 1910?

The United States Separator holds the World's Record for close skimming.

Its record has not been equaled by any Cream Separator, although numerous attempts have been made to equal it.

The United States has a solid one piece frame. No bolts, screws or rivets to work loose.

Gearing enclosed in dust-proof case. Gearing runs in oil bath.

Closest skimmer in the world.

Light running.

Simple and easy to clean.

Longest life.

The United States has the best point of all-perfect separation—and also has more other good points than any other

Selling Agents in every dairy section in the country, will grant a free trial.

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VERMONT FARM MACHINE COMPANY BELLOWS FALLS, VERMONT

Dispersion Sale Shorthorns, Thurs. Sept. 30

22 cows and heifers, 7 young bulls. All nicely bred, most of it by Double Champion by Choice Goods. Cows and heifers bred to Lord Hopeful by Imp. Collynic For catalog address

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GARRISON BREEDING CRATE.

Leads all others. Indorsed by the best breeders of six states. The feature of the telescope and sliding in to shorten and drawing out to lengthen, is certainly the best. Can be used for any sized sow. Can also be used for ringing, or converted into schute for loading hogs. My circular explains every feature. Write for one. Price so low that it is in the reach of every farmer and breeder.

A. B. Garrison, Summerfield, Kansas.

bred cow that we could not make produce above 250 pounds of butter a year. We bred her to Espanore 2d, who is in the Advanced Registry list for bulls with six Advanced Registry daughters to his credit, and the result was the cow, Bernhardt, who has gone through the Advanced Registry with a record of 408 pounds of butterfat. How often have men noticed, when a pure bred sire has been placed at the head of a head of commences. at the head of a herd of common cows, that his daughters would yield more butter with their first calf than their mothers could at their best."

Jerseys as Butter Producers.

To August 2, 1909, nineteen Jersey cows have produced 700 pounds or over of butter in one year under authenticated test. Average production: 12,792 pounds milk, 818 pounds butter. Three have produced over 1,000 pounds butter. Jersey persistency in production is shown by the facts that these cows milked clear through the 365 days, and that in the first month of the year's period they averaged 1,260 pounds of milk and 60.5 pounds butter-fat, and in the last month 769 pounds milk and 46 pounds butter-fat. Of all the cows so far tested for one year 4.66 per cent are in this 700-pound list. Of all the cows over five years old that have been tested for one year 15.8 per cent are in this 700-pound list.

Short Courses in Cream Testing.

An excellent opportunity for the farmers boy, the cream buyer and creamery operator to get instruction in cream testing is offered by the dairy department of Kansas Agricultural College which has arranged short courses in testing for the following in-clusive dates: September 7 to 11,

September 21 to 25, October 5 to 9. October 19 to 23, November 16 to 20. November 30 to December 4, December 14 to 18, December 28 to January 1. A laboratory and registration fee of \$1 will be charged. This amount must accompany the request for regis-

tration in any of these courses.

The number is limited to twentyfive. The first twenty-five to make application will be accepted. Others whose requests are late will be registered in the next course or in any other course they may prefer. In applying, indicate a second choice of

There is a good chance to get valuable instruction and to spend a few days profitably and pleasantly in the atmosphere of the Agricultural College. It will do any one good to visit that institution.



beautifully bound card album to hold cards—value \$1.50. card views colored—of California the Eden of America—and particulars as to how you can get the album—free Everybody can get one. Hedenberg Pos Card Co., 336 1/2 So. Broadway, Los Angel For Business in Oklahoma.

Dairy Commissioner Holmes of Oklahoma is getting down to business and has defined the duties of his office in such a way as will please the friends of the dairy cow. Commissioner Holmes says his principal work will be to build up the dairy industry of the state, encourage the employment of proper methods and to dem-onstrate to the dairymen the great possibilities of profit in the dairy business in Oklahoma.

The people of Oklahoma are given

some sound advice which fits Kansas or any other state as well, as follows:

The dairy interest has a great part to play in the destiny of the state of Oklahoma. The people of Oklahoma must realize the fact that the practise of dairy farming is the only safe and reliable means by which the fertility of these farms may be maintained. Other states in the East have come to a realization of this fact that their land was fast depreciating in value and that the fertility might be re-stored and maintained without extra cost, by the judicious practise of dairy-ing and diversified farming, which go ing and diversified farming, which go hand in hand. When a ton of butter is sold from the farm a very small amount of the elements of fertility is taken from the land; but when a ton of the average feed is sold a much greater amount of the indispensable elements of the soil is taken from it. This means that the people must be educated to a deeper realization of the fact, and the development of the great dairy resources of the state encour-aged."

Some Figures on the Separator.

Very many farmers who have been induced to buy and use a cream separator cannot say whether the invest-ment has really been profitable to them or not because they kept no records of the doings of their cows be-fore the separator was bought and consequently have nothing with which to compare or else because they were induced to buy a poor separator, or both.

Sometimes figures will convey much needed information and the Wisconsin Agriculturist which is published in a country that has been devoted to the old syste mof whole milk dairying but which is "coming alive" puts the mat-

ter thus:

"The position of the farmer toward the separator is now pretty clearly defined. He is buying the separator. Go through the country today and you will find it in many more homes than you would have done ten or even five years ago. This fact determines the attitude of the farmer on this ques-

"But why does the farmer buy the

separator?
"Right here let us make some fig-

"Suppose you have ten cows. the separator system you make half a pound more butter a week from each cow, or increase of five pounds, which seems to be a fair and conserva-tive estimate. That five pounds of butter will bring you in at least \$1.25 at present prices. For the year, pro-viding you keep your dairy going sum-mer and winter, and can be the mer and winter, and can keep up the average of \$1.25, you will realize a gain from the separator of 52 times \$1.25,

or \$65 for the year's work.

But you will have something like \$75 invested in the separator, if it is a good one, and it never pays to get anything else. The interest on this sum at 5 per cent would be \$3.75 a year. This would give you a clear gain of \$61.25 over the old way. That is, you would have saved \$61.25 the first year toward paying for your separator. In eleven weeks of the second year you would have paid for your separator and now start in to lay asid gain there might afterward be in the

"It is no doubt true that calves and hogs fed good, warm, newly separated milk will gain faster and do better than they will on cold and often sour and really impure milk; but I do not know that there is any way to esti-mate the amount of gain from this source: it is fair to reckon it at some-thing, however.

"The time spent in separating the milk at home as compared with going to the creamery, or in skimming by the old method, surely must show a balance on the right side. So the gain would seem to be all in favor of the

"Of course, these figures are only relative. Some farmers will not make a difference of \$1.25 a week on ten cows by using a separator; some un-doubtedly will make more."

For the Control of the Hessian Fly.

Prof. T. J. Headlee, head of the department of entomology of the Kansas State Agricultural College, makes some recommendations for the control of the Hessian fly, as follows:

Dicking.—The disk should follow the binder or header just as soon as possible. This will throw out a large percentage of the flaxseeds, that would otherwise be protected by lying in the stubble below the surface, so that their parasitic enemies can attack them. The disking will conserve the soil moisture, render the plowing easier, and start the volunteer wheat and the weeds. and the weeds.

Plowing.—Follow the disk in from two to four weeks by the plow. Set the plow to run 5 or 6 inches deep and so completely turn the land that all fly-infested stubble, volunteer wheat, weeds and rubbish generally, shall be thrown exactly into the bottom of the furrow and the whole surface slice turned over on it. Compact this plowed land into a good seed-bed with implements that will not pull the stubble to the surface, and you will have about 4 inches of compact soil between the fly and daylight. Very few of the flies thus covered will ever get

Destroy volunteer wheat.—All vol-unteer wheat should be kept down from the time the seed-bed is prepared until the crop is sown, in order that it may not serve to carry the fly over

to the main crop.

Sowing late is important.—Sow the wheat at such a time as will enable it to get above the ground after the majority of the flies have emerged and deposited their eggs. Experimental sowings indicate that wheat sown in Experimental the northern one-third of the state ofter October 7, and in the southern one....d after October 15 will be completely free from the fall brood of Hessian fly.

To control the Hessian fly and greater wheat-straw worm add to the measures for combating the fly the destruction of the straw and the grass along the fences.

Wages and Cost of Living on the Farm.

The Minnesota Experiment Station has conducted a very important though somewhat unusual line of investigation relating to hours of labor on farms, wages paid to hands and cost of farmers' living. The investigation of farm wages in four localities for the years 1904-1907 showed that the average wages paid during the crop season (April to November inclusive) is a lit-tle over \$26 a month or 12.7 cents an hour, and the average for the other four months is \$14 a month or 11.2 cents an hour, the hours of labor being much shorter in winter time. The wages paid are not in addition to board, the cost of which has been addca to the wages actually paid.

The hours of labor in three localities

during six years were found to average for all the months of the year 8.6 hours for week days with three hours'

work on Sundays.

Studies of the cost of living showed that in Minnesota the average farm family uses annually farm produce wodth \$222.97, groceries and fuel costing \$170.89, and house furnishings costing \$32.57, while the value of women's labor involved is worth \$216.66, and that of men and horses \$57.74, making a total cost of \$700.72 per family per year. Of this \$203.35 represents actual cash outlay for supplies, to which must be added whatever wages may be paid to hired women, the balance representing the produce of the farm and the labor of the family. The average cost of the board of hands was found to be \$12.65 per month or 42 cents per day.

Hired Man and the Boss.

An exchange presents each of the two sides of the farm labor question in this somewhat homely but forcible

"He felt that he was working too hard for the pay received; he knew better than the boss how the work should be laid out; he caroused on Sunday and was dead to the world Monday; he was jealous of the other hired men—he got fired!

He had no regular hours; he shifted teams from one man to another; he spent his time in town; he had plenty of spare room in the house but gave the hired man the best bed in the hay loft; he grumbled about trifles—his hired man quit.

50 CENT BUTTER BEFORE CHRISTMAS AND WHAT IT MEANS

"50 CENT BUTTER BEFORE CHRISTMAS" -is the prediction freely made by the big leaders in butter production, based upon their close knowledge of trade conditions.

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It means that a De Laval Cream Separator WILL PAY FOR ITSELF BY SPRING over any competing make of separator in use or on the market.

It means that an Improved De Laval Cream Separator WILL PAY FOR ITSELF WITHIN A YEAR over the older style De Laval Cream Separators in use.

It means that no one separating cream from the milk of even a single cow CAN AFFORD to continue to do so a day longer than can be helped without an Improved De Laval Cream Separator.

And buyers should remember that a De Laval Cream Separator-on which there is just one reasonable price for everybody—can be bought at a fair discount for cash down or on such liberal time that it WILL PAY FOR ITSELF out of its own savings.

That means that NO ONE need go a day longer without a De Laval Cream Separator than may be necessary to order and receive it, and that they CANNOT AFFORD to do so.

It emphasizes the urgent importance of seeing the local De Laval agent or communicating with the Company directly AT ONCE, with a material dollars-and-cents loss EACH DAY of delay in doing so.

Then WHY delay another day?

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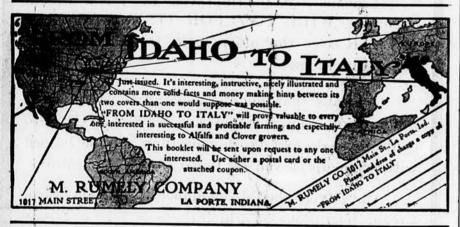


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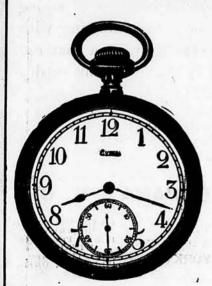
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Watch Department, Kansas Farmer,

TOPEKA KANSAS.

THE FARM



Cost of Growing Corn in Missouri. The Missouri Board of Agriculture has been making an extended inquiry into the cost of growing an acre c corn in that state. The deduction from the figures of a large number of corn growers follows:

Average cost per acre.....\$12.26 1-3

National Corn Exposition.

The visitor at the National Corn Show at Omaha in December will have more than an immense display of corn to attract his attention. It has been announced by the management of the National Corn Exposition that the American Breeders' Association will meet in Omaha this winter at the time of the corn show. This will bring to Omaha all the prominent breeders of plants and animals in the country. The object of this association is to study methods of improvement of plants and animals, especially those commonly grown on the farm.

Another interesting feature of the corn show was announced by the management is the exhibit of the National Department of Agriculture. The same exhibit which is now being shown at the Seattle exposition will be brought to Omaha entire and set up for the entertainment and instruction of visitors at the corn show there. An important part of this exhibit is a show of good roads machinery and methods of making good roads in the coun-

The Crop Prospects.

The Department of Agriculture has out a crop report which indicates the total winter wheat yield of 432,920,000 bushels this year as compared with 437,938,000 bushels last year. The condition of corn for the country at large is given as 89.3, as compared with an average condition of 82.6 for the past ten years.

The following is the report by

Corn condition on August 1, 1909,

and ten-year average, respectively: Texas, 60 and 76; Missouri, 88 and 80: Nebraska, 93 and 83; Kansas, 90 and 78; Oklahoma, 63 and 82; Arkansas, 76 and 81.

Winter wheat, preliminary returns; production in bushels and quality per cent: Kansas, 85,478,000 bushels and 88 per cent; Nebraska, 42,040,000 bushels and 95 per cent; Miscouri 92,562,000 bushels and 92 per cent; Oklahoma, 14,848,000 bushels and 94 per cent; Texas, 6,133,000 bushels and 87 per cent.

Spring wheat condition August 1, 1909, and ten-year average, respectively: North Dakota, 93 and 78; Minnesota, 92 and 82; South Dakota, 92 and 82.

Oats condition on August 1, 1909, and ten-year average, respectively: Nebraska, 80 and 70; Kansas, 88

Alfalfa Will Grow Everywhere.

While experts have been declaring that alfalfa would only grow in certain soils and in certain climates it has proven adaptability to nearly all climates and almost all soils. It produces with a rainfall as scant as 14 inctes, and in the Gulf states flour-ishes with 65 inches. It gives crops at an elevation of 8,000 feet above sea level, and in Southern California it grows below sea level to a height of 6 feet or over, with nine cuttings a year, aggregating ten to twelve tons. An authenticated photograph in possession of the writer shows a wonderful alfalfa plant raised in the (irrigated) desert of Southern California, 60 feet below sea level, that measured considerably more than 10 feet in height. Satisfactory crops are raised, but on limited areas as yet, in Vermont and Florida. New York has grown it for over one hundred years in her clay and gravel; Nebraska grows it in her western sand hills without plowing, as does Nevada on

her sage-brush desert. The depleted cotton soils of Alabama and rich corn lands of Illinois and Missouri each respond generously with profitable yields to the enterprising farmer, while its accumulated nitrogen and spond the soiling it effects are making the rich land more valuable and giving back to the crop-worn the priceless elements of which it has been in successive generations despoiled by a conscienceless husbandry.—From Co-burn's "The Book of Alfalfa."

The Fourth National Dry Farming Congress.

On October 26-27-28 the National Dry Farming Congress will convene in its fourth annual session. The objects sought by this congress as stated in the call, are as follows:

"To discuss and compare methods by which the great area of arid land can be profitably utilized under thorough tillage by which the natural rainfall can be conserved.

"To encourage the use of methods by which, in districts where rainfall is slight, or irrigation water is limited, the actual productive acreage can be increased.

"To create closer cooperation between the government and state ex-perts in charge of dry farming experimental work and the actual farmers of the arid districts.

"To enlarge the plans for carrying on a great educational propaganda by which, eventually, the arid districts of the entire world can be populated by prosperous and contented agricul-

'To encourage legislation looking to increased federal and state appro-priations for the establishment of more experimental stations, the employment of more field experts and the actual cooperation of these stations in fixing and maintaining a certain recognized standard of methods for obtaining results from the operation of farms in the arid districts.

"To study methods and results of dry farming operations in the various western states and in foreign countries which are represented in the Congress.

"To establish a better understanding of the value of agricultural education in the public schools of the

"To bring to the attention of active farmers the various theories and working plans whereby each farmer may assist in the general commercial, social and political uplift of the western states."

Feeding Floor for Hogs.

No farmer is so well to do that he can afford extravagant feeding methods. Corn is worth money every year and every bushel fed should yield a profit. No hog feeder can afford to waste corn, which is money, by the old fashioned wasteful system of feeding. The man who expects to make money feeding corn to hogs nowadays must avoid waste and pay some regard to the laws of meat-making.
There should be a dry feeding floor on every farm where hogs are fed. This ement, but if it is too late for that this year mak: 't of plank. Corn is worth close to a cent a pound and only the rich man can afford to waste it in the mud and snow.

A bulletin from New York Experiment Station at Geneva is No. 313 which shows how important lime and inoculation are for alfalfa. In 103 tests where inoculating soil from the station field was sent to farmers for use on their own fields, 66 crops were successful while only 25 adjoining uninoculated plats gave good crops. In 64 tests where lime was used, all but 6 plats showed improvement and 27 plats were changed from failure to success by liming. Where both inoculation and lime were used, 77 per cent of the crops were successful; while less than 25 per cent of the untreated plats succeeded.

IOWA-FIRST OF GREAT FAIRS.

(Continued from page 2.) F. P. Knowles, Auburn, Mass.
Buil Two Years Old and Under Three:
First, Statesman DeKol, W. B. Barney &
Co., Hampton, I.e.; second, Cornucopia Ponilac Johnanna Lad, Frank White, Hampton,

First, Statesman Dekol, W. B. Barney & Co., Hampton, Ia.; second, Cornucopia Ponitac Johnanna Lad, Frank White, Hampton, Ia.; second, White, Hampton, Ia.; second, Wit Duchess Gen. Brown, Ia.; second, Wit Duchess Gen. M. Hiljoard, Frank White, Hampton, Ia.; second, Wit Duchess Gen. M. Holsteins, Cow. Holsteins, Cow. Holsteins, Cow. Holsteins, Cow. Holsteins, Cow. Three Years Old or Over: First, Parthenea Hengerveld, W. B. Barney & Co., Hampton, Ia.; second, Huntress C., F. P. Knowles, Auburn, Mass. Helfer One Year Old and Under Two: First, Fokje Fontana, F. P. Knowles, Auburn, Mass.; second, Clothilde Fay Dekol's 2nd, F. P. Knowles, Incifer Calf Under One Year: First, Lakeside Aggle, F. P. Knowles; second, Jessic of Home Farm, W. B. Barney & Co. Exhibition Herd: First, W. B. Barney & Co.; second, F. P. Knowles, Swinke—POLAND CHINA.

R. S. Johnson, superintendent; W. Z. Swallow, Waukee, Ia., J. M. Stewart, Ainsworth, Ia., judges.

Boar Two Years Or Over: First, Meddler Keepon, John Francis & Son, New Lenox, Ill.; second, Comptroller, J. E. Meharry, Tolono, Ill.

Boar 18 Months and Under Two Years: First, Walkover 2d, Wellington & Spring, LaFayette, Ind.; second, Alderman, H. G. Boyer, Lovilla, Ia.

Boar 1 Year and Under 18 Months: First, Master Walkover, Wellington & Spring, LaFayette, Ind.; second, Inspiration, Jas. O'Donnell, Ames, Ia.

Boar G Months and Under One Year: First, The Harvester, S. P. Chiles, Fairfield, Ia.; second, Spring, LaFayette, Ind.

Boar Gonske, Fairfield, Ia.; second, Spring, LaFayette, Ind.

Sow Two Years Old or Over: First, Namie, J. E. Meharry, Tolono, Ill.; second, Neilie, Wellington & Spring, LaFayette, Ind.

Sow Two Years Old or Over: First, Namie, J. E. Meharry, Tolono, Ill.; second, Neilie, Wellington & Spring, LaFayette, Ind.

Sow Two Years Old or Over: First, Sow One Year and Und

ring.
Sow One Year and Under 18 Months;
rst, Lady Walkover II, Wellington &
ring; second, Perfect's Delight III, J. H.
atson, Madrid, Ia.
Sow Six Months and Under One Year;
rst, Hazel Walkover II, Wellington &
ring; second, L. & W.'s Last, Wellington
Spring.

Sow Six Months and Under One Year;
First, Hazel Walkover II, Weilington &
Spring; second, L. & W.'s Last, Weilington
& Spring.
Sow Under Six Months: First, B. L.
Gosick, Fairfield, Ia.; second, Oscar Swallow, Waukee, Ia.
Boar and Three Sows Over One Year;
First, Weilington & Spring, Lafayette, Ind.;
second, J. E. Meharry, Tolono, Ill.
Boar and Three Sows Over One Year,
Bred by Exhibitor: First, Weilington &
Spring; second, J. E. Meharry.
Boar and Three Sows Under One Year,
Bred by Exhibitor: First, Weilington &
Spring; second, J. E. Meharry.
Four Swine, Get of Same Boar, Bred by
Exhibitor: First, Weilington & Spring; second,
J. E. Meharry.
Four Swine the Get of One Boar Bred
By Exhibitor: First, Weilington & Spring;
second, J. E. Meharry.
Four Pigs, Produce of Same Boar, Bred
by Exhibitor: First, J. A. Mason; second,
J. E. Francis.
Boar Any Age: Meddler Keep On, Francis & Son.
Boar Any Age, Bred by Exhibitor: Master

Busing Age, Bred by Exhibitor: Master Valkever, Wellington & Spring.
Sow Any Age: J. E. Meharry, Tolono,

Sow Any Age, Bred by Exhibitor: Wellington & Spring. Prof. W. J. Kennedy and Prof. Killder,

Prof. W. J. Kennedy and Prof. Ames, judges.
Boar Over Two Years: First, B. and C.'s Colonel, Baxter & Comer, Carlinville, Ill.: second, Golden Model No. 2, Waltmire Bros., Malvern, Ia.
Boar 18 Months and Under Two Years: First, Protection Colonel, Baxter & Comer; second, Model Chief 8th, Allen & Miller, Paperell 12.

seond, Model Unier och, sussell, Ia.

Boar One Year and Under 18 Months:
Irst, The Defender, A. C. Browning; secirst, The Defender, Chas. Cooper, Ferris, Ill.
Boar Six Months and Under One Year:
Irst, B. and C.'s Wonder, Baxter & Jomer; second, Critic's Model, E. J. Hard-

Bear Under Six Months: First, I Am rection Wonder, W. N. Sells, Indianola,

Ia.; second, Uneeda Crimson Wonder, W. N. Sells.

Sow Two Years or Over: First, Crimson Jewel, Hanks & Bishop, New London, Ia.; second, Little Gem, F. Fowler & Son.

CHESTER WHITE.

CHESTER WHITE.

H. L. Orcult, judge.

Boar Two Years Old and Over: First.
Chickasaw Chief II, W. F. Hemmerling,
Dike, Ia.; second, Jumbo, R. P. Downing,
Garden City, Kan.

Boar 18 Months and Under Two Years;
First, High Score, R. F. & W. M. Fantz,
Pleasant Hill, Mo.; second, Niota Sherman,
N. A. Ranck, Niota, Ill.

Boar One Year and Under 18 Months:
First, Boy I, E. L. Leavens; second, Highland Clan, Allen Bros., Russell, Ia.

Boar Six Months Old and Under One
Year: First, Iowa Champion, E. L. Magle
& Son, Deep River, Ia.; second, Harry, W.
T. Barr, Ames, Ia.

T. Barr, Ames, Ia.

Boar Under Six Months: First, Choice
Goods, E. L. Nagle & Son; second, General Manager, Alden Anderson, Radcliffe,

Goods, E. L. Nagle & Son; second, General Manager, Alden Anderson, Radeliffe, Ia.

Sow Over Two Years: First, Augusta II, E. L. Leavens; second, Leonora II, W. T. Barr, Ames, Ia.

Sow 18 Months and Under Two Years: First, Queen, B. H. Lewis; second, Chickasaw Pearl, R. F. & W. M. Fantz.

Sow One Year and Under 18 Months: First, Isabelle II, W. F. Hemmerling; second, Betty I, E. L. Leavens.

Sows Six Months and Under 18 Months: First, Sylvia, E. L. Nagle & Son, Deep River, Ia.; second, Gem O. K. X., J. H. Mahannah, North English, Ia.

Boar and Three Sows Over One Year: First, W. F. Hemmerling, Dike, Ia.; second, E. L. Leavens, Shell Rock, Ia.

Bear and Three Sows, Over One Year, Bred by Exhibitor: First, E. L. Leavens; second, W. F. Hemmerling.

Boar and Three Sows Under 1 Year: First, E. L. Nagle & Son, Deep River, Ia.; second, J. H. Mahannah, North English, Ia.

Boar and Three Sows Under One Year, Bred by Exhibitor: Same as above.

Four Pigs Under Six Months. Produce of Same Sow, Bred by Exhibitor: First, E. L. Leavens, Shell Rock, Ia.; second, Alden Anderson.

Four Swine, Get of Same Boar, Bred by Exhibitor: First, E. L. Leavens, Shell Rock, Ia.; second, E. L. Nagle & Son.

Boar Any Age; Chickasaw Chief II, W. F. Hemmerling.

Boar Any Age; E. L. Leavens.

Sow Any Age; E. L. Leavens.

Sow Any Age, Bred by Exhibitor: E. 1

BERKSHIRE.

N. H. Gentry, judge.

Boar Two Years Old or Over: First,
Minn.; second,
Mediapolis, Ia.

Boar 18 Months and Under Two Years:
First.

J. M McPherson & Son,
Stuart, Ia.; second,
Montezuma, Ia.

Boar One Year and Under 18 Months:
First, John C. Miller, Harlan, Ia.; second,
J. W. Ogle, Ames, Ia.

Boar Six Months and Under One Year:
First, D. Naumann West Liberty Ia.; second

First, John C. Miller, Hatal.

J. W. Ogle, Ames, Ia.

Boar Six Months and Under One Year:
First, D. Naumann West Liberty Ia.; second Farmers Farm.

Boar Under Six Months: First, Farmers Farm; second. J. W. Ogle.

Sow Two Years or Over: First, C. A.

Evans; second, Farmers Farm.

Sow 18 Months and Under Two Years:
First, C. A. Evans; second, Farmers Farm,
Sow One Year and Under 18 Months:
First, Climax Princess, Farmers Farm.

Sow Six Months and Under One Year:
second, Lee Lady C., Farmers Farm.

Sow Six Months and Under One Year:
First, Farmers Farm's second, Hopeful Duchess 7th, McDonald Bros.
Farm; secondke :G. emfwypetaoincmfwyp
Sow Under Six Months: First,
Farmers Farm; second, —, T. F. Teal,
Stockport, Mo.

Boar and Three Sows Over One Year:

sow University of the Markette Sows Over One Year: mers Farm; second, sockport, Mo.

Boar and Three Sows Over One Year: rst, C. A. Evans, Elliott, Ia.; second, J. rst, C. A. Evans, Elliott, Ia.; second, J. Four Swine, Get of Same Boar, Bred by Chibitor, First, The Farmers Farm, Farm, Farm, Stann, Minn.; second, McDonald Bros.

W. McPherson & Son, Stuart, Italian Four Swine, Get of Same Boar, Bred by Exhibitor. First, The Farmers Farm, Farmington, Minn.; second, McDonald Bros., Monteyma, Ia.

Four Pigs Under Six Months, Produce of Same Sow, Bred by Exhibitor: First, The Farmers Farm; second, J. W. Ogle.

Boar and Three Sows Under One Year: First, McDonald Bros.; second, McDonald Bros.

Boar and Three Sows Under One Year, Bred by Exhibitor: First, McDonald Bros.,

Bros.

Boar and Three Sews Under One Year,
Bred by Exhibitor: First, McDonald Bros.,
second, The Farmers Farm.
Boar Any Age; Crown Premier, John C.
Miller, Harlan, In.
Boar Any Age,
Master Robin, The Farmers Farm.

Sow Any Age: Stumpy Lady Lee, C. A. Evans. Sow Any Age, Bred by Exhibitor: Linden ast IV. The Farmers Farm.

Sow Any Age, Fred by Exhibitor: Linden Last IV. The Farmers Farm.

HORSES—PERCHERON AND FRENCH DRAFT.

Prof. W. J. Kennedy, judge.
Stallion Four Years Old and Over: First, Cranot, J. Crouch & Son, Lafayette, Ind.: second, Cartilage, H. G. McMillan & Sons, Rock Rapids, Ia.

Stallion Over Three and Under Four: First, Grafrannus, Robt. Burgess & Son, Wenona, Ill.; second, Gabon, J. Crouch & Son, Lafayette, Ind.

Stallion Over Two and Under Three: First Halicte, Robt. Burgess & Son; second, Henner, Robt. Burgess & Son; second, Henner, Robt. Burgess & Son.

Stallion Over One and Under Two: First, Ismael, Burgess & Son; second, Duke, Finch Bros.

Stallion Foal: First.—— Crawford &

ond, Henner, Robt. Burgess & Soon.

Stallion Over One and Under Two: First, Ismael, Burgess & Son; second, Duke, Finch Bros.

Stallion Foal: First, — Crawford & Griffin, Newton, Ia.; second, Rowdy, J. M. Cross, Waukee, Ia.

Stallion Over Three, Bred by Exhibitor: First, — Finch Bros.; second, Charlemagne, McMillan & Sons.

Stallion Under Three Years Old, Bred by Exhibitor: First, — Finch Bros., Jollet, Ill.; second, Prospect, H. G. McMillan & Sons, Rock Rapids, Ia.

Mare Over Four Years Old: First, Castile, Burgess & Son. Wenona, Ill.; second, Strawberry, Robt. Burgess & Son.

Filly Over Three and Under Four: First, Gauloise, J. Crouch & Son, Lafayette, Ind.; second, Annette, H. G. McMillan & Sons.

Filly Over Two and Under Three: First, Hesculott, Robt. Burgess & Sons, Wenona, Ill.; second, Isabelle, H. G. McMillan & Son, Rock Rapids, Ia.

Filly Over One and Under Two: First, Tillie, Robt. Burgess & Son; second, Eula, H. G. McMillan & Son, Mare Foal: — Union Wrecking Co., Des Moines, Ia.

Mare Over Three Years, Bred by Ex-

& Son.
Mare Under Three Years, Bred by Exhibitor: First, Isabelle, H. G. McMillan &
Son; second, Tillie, Robt. Burgess & Son.
Champion Stallion:
_______, Robt. Burgess

Champion Stallion: ——, Robt. Burgess Son. Champion Mare: ——, Robt. Burgess &

CLYDESDALES.

Robert Miller, judge.
Stallion Four Years and Over: First,
Earon Clifton, W. V. Hixson, Marengo, Ia.;
second, Ben Lamond, John Leitch, Lafayette, Ill.
Stallion Over Three and Under Feur:
First, Prince of White House, John Leitch,
Lafayette, Ill.; second, Spring Hill Marquis,
John Leitch.
Stallion Over Two and Under Three: First,
Scot Laddle, W. V. Hixson, Marengo, Ia.;
second, Kildavanan, John Leitch, Lafayette, Ill.
Stallion Over One and Under Two: First,
Forest King, John Pedley, Algona, Ia.; second, Baron Delightful, W. V. Hixson,
Marengo Ia.

ond, Baron Delightful, W. V. Hixson, Marengo Ia.

Horse Foal: First, Baron Lynedoch, W. V. Hixson, Marengo, Ia.; second, Chief Ambassador, Savage Bros., Ft. Dodge, Ia.

Stallion Under Three Years Old, Bred by Exhibitor: First, Scot Laddie, W. V. Hixson, Marengo, Ia.; second, Forest King, James Pedley Algona, Ia.

Mare Over Four Years Old: First, Pride of Drumlanrig, John Leitch, LaFayette, Ill.; second, Strathendrick Jean, W. V. Hixson, Marengo, Ia.

Filly Over Three and Under Four: First, Lady Madison, John Leitch; second, John Leitch; second, John Leitch.

Filly Over Two and Under Three: First, Lady Madison, John Leitch;
Filly Over Two and Under Three: First, Lady Palmerston, W. V. Hixson; second, Malinda, John Leitch.

Mare Under Three Bred by Exhibitor: First, Lary Palmerston, W. V. Hixson; second, Princess Clifton, W. V. Hixson.

Get of Stallion: First, —, W. V. Hixson, Marengo, Ia.; second, —, W. V. Hixson, Marengo, Ia.; second, —, W. V.

Hixson, Produce of Mare: First, —, W. V.
Hixson; Second, —, James Pedley, Al-Hixson; second, ——, same Hixson; second, ——, second, — BELGIANS.

Robert Ogilvie, Chicago, judge. Stallion Four Years Old and Over: First, Inchelieu, J. Crouch & Son, LaFayette, Ind.; second, Charley Boy, Finch Bros., Joliet.

Stallion Over Three and Under Four:
First, Hercule d'O, J. Crouch & Son; second, Hercule de Bierghes, J. Crouch & Son.
Stallion Over Two and Under Three:
First, Robert 2nd de Rum, Chas. Irvine,

Ankeny, Ia.; second, Aume Chief, Finch Bros., Joliet, Ill. Stallion Over One and Under Two: First, Whats Wanted, Finch Bros.; second, Just In. Finch Bros. In, Finch Bros. ENGLISH SHIRES.

In, Finch Bros.

ENGLISH SHIRES.

Robt. Ogilvie, judge.
Stallion Four Years Old and Over: First,
Dan Patch, Trumans' Pioneer Stud Farm,
Bushnell, Ill.; second, Wellbrook Albert,
Trumans' Pioneer Stud Farm.
Stallion Over Three and Under Four:
First, Cockerington Tug of War, Trumans'
Ploneer Stud Farm, Bushnell, Ill.; second,
Blue Boy II, Trumans' Ploneer Stud Farm.
Stallion Over Two and Under Three: First,
Littleworth Marmion, Trumans' Pioneer
Stud Farm; second, Wrydelands Chief, Trumans' Pioneer Stud Farm.
Stallion Over One and Under Two: First,
Williams Moulton Temple, Trumans' Pioneer
Stud Farm; second, Teddy Loyal, F. Berkey & Son, Ankeny, Ia.
Stallion Foal: First, Majestic, Finch
Bros., Joliet, Ill.; second, Inventor, Finch
Bros.

FRENCH AND GERMAN COACH.
W. A. Dobson, Des Moines, Ia., judge.
Stallion Four Years or Over: First, Mohikaner, J. Creuch & Son; second, Minno, J.
Crouch & Son.
Stallion Over Three and Under Four: First, Amber, J. Crouch & Son; second, J.
Crouch & Son.
Stallion Over Two and Under Three:
Taimes, J. Crouch & Son.
Mare Over Four: Electra, J. Crouch & Son.

DRAFT GELDINGS AND MARES. Robert Oglivie, Chicago, judge.
Gelding or Mare Four Years and Over:
First. _____, Burgess & Son, Wenona, Ill.;
second, _____, J. Crouch & Son, LaFayette,
Ind.

Gelding or Mare Three Years Old and Under Four: First, —, Finch Bros., Jollet, Ill.; second, Cecil, Chas. Irvine, Ankany F.

Gelding or Mare Two Years and Under Three: First, Fay, Chas. Irvine; Gelding or Mare One Year and Under Two: First, Chas. Irvine, Ankeny, Ia.; second, ——, John Albaugh, Ankeny,

Draft Team in Harness: First, Swift & Co., Chicago; second, Son, LaFayette, Ind.
Best Groomed and Harnessed Farmer's Team: First, Chas. Irvine; second, Chas. Irvine.
Four-Horse Team: First, Swift & Co.; second, J. Crouch & Son.
Six-Horse Team: Swift & Co.

Breeder's Young Herd: First, W. A. McHenry, Denison, Ia.; second, Otto V. Battles, Maquoketa, Ia.
Calf Herd: First, A. C. Binnie; second,
J. W. McClung & Son.
Bull Calf Under One Year: First,
Larrie of Home Farm, W. B. Barney & Co.,
Hampton, Ia.; second, Earre Aggle DeKol
2nd's Monarch, F. P. Knowles, Auburn,
Mass. POLLED DURHAM.

POLLED DURHAM.

L. G. Shaver, Kalona, Iowa, judge.

Bull Three Years Old or Over: First,
Sugar Hill Marshall, J. J. Williams & Son,
Grandview, Ia.: second, Arcada Duke & d.

H. W. Duker, Wellman, Ia.

Bull One Year Old and Under: First,
Lord Vellum, H. W. Deuker, Wellman, Ia.;
second, Littyton Duke, Thos. Capper, South
English, Ia.

Bull Calf Under One Year: First, Bruce
Bull Calf Under One Year: First, Bruce
Marshall, L. S. Huntley & Son, Chariton,
Ia.; second, Prime Boy, Jacob Marti, Lansing, Ia.

ing, Ia.

Cow Three Years Old or Over: First,
Cowth Bell 4th, H. W. Deuker, Wellman,
Ia.; second, Moss Rose, L. S. Huntley &

Son.

Helfer Two Years Old and Under Three:
First, Scottish Bell 5th, H. W. Deuker; second, Victoria 90th, L. S. Huntley & Son.
Grand Champion Polled Female: Buttonwood Glade 3rd, H. W. Deuker, Wellman,

Ia.

Heifer One Year and Under Two: First, Scottish Bellee 5th, H. W. Deuker, Wellman, Ia.; second, Victoria 90th, L. S. Huntley &

Scottish Belies of the Action of the Action

(Continued on page 19.)

tate Fair. Hutchinson ansas State Fair, Hutc A. L. SPONSLER.

SEPTEMBER 11-12-13-14-15-16-17, 1909 H, S. THOMPSON, The management cordially invites the people of the state of Kansas and of the Great Southwest to attend the Ninth Annual session of

17 Grand Divisions, in which are exhibited the products of the field, factory, household, studio, and all the varied industries of the people.

The greatest racing over the best track in the state for \$16,500. Five days' racing, beginning Monday, 6 races each afternoon. Competition is open to the world.

No fair in the Great Southwest has such a splendid exhibit of live Liberati's Grand Concert Band, carrying Grand Opera Singers, will furnish the music—the greatest opportunity Kansas people ever had

to hear the world's best musicians. Pain's Fireworks Monday and Tuesday nights.

Kline's Carnival, the best in America, will furnish the principal

amusement features. Grounds well equipped with buildings, shade trees and good water. Aquarter of a mile of exhibition hog pens, a half mile of chicken coops, acres of farm machinery and cement workers' exhibits of ma-

chinery and samples of cement products. Derby Day will be Tuesday, as usual. \$500 for the mile dash of the best thoroughbreds in the West-

Secretary. The Parade of Prize Winners on Friday forenoon is one of the fine features of the entire fair. The audience is informed by an announcer of the animals passing and thei owners. Grandstand free for this event.

es, light harness horses and saddlers ever brought together in Kansas Just what every farmer should see

This association invites its visitors to attend everything on the grounds—worden, children and all. We have practically perfect order and every show is clean and worth visiting. All eating places are required to put up a sign marking prices in plain figures. Noti and report and violation of this or any other order, rule or law.

Our previous successes are the earnest of the future. Everybody is welcome. It is the week to lay off and enjoy the greatest pleasures of the year. It is educational, inspirational anl recreational.

You can make entries no matter where you live—just write the Secretary. Fair opens on Saturday, September 11, when exhibits should be

placed. Special train service on all railroads. Figure out your route early.

A Special train out of Lincoln, Neb. State Fair will carry exhibits direct to Hutchinson.

HORTICULTURE



A contemporary, which is published in the West, admits that the irrigation congress now in session at Spokane, Wash., is the most important meeting of its kind that has ever been held in this country, but fears the influence of government officials and politicians from Washington. Questions pertaining to forestry reserves and irrigation projects are not agreed to by western men when they are presented by men from other localities, who do not have the same opportunity to become acquainted by experience on the ground.

Some time ago it was stated in these columns that Professor Bailey of New York has been successful in destroy-ing dandelions by the use of copperas or sulphate of iron spray. The writer has given this spray a thorough test and finds that one application is rarely sufficient. The spray will kill the tops of the dandelion plant but the leaves will immediately grow again. If these are again sprayed and the spraying practise is kept up the plant will be killed by starvation, but this seems rather tedious. On the other hand, if a spray mixture is made very strong it is likely to damage valuable plants and the lawn. The surest way to kill dandelions is to drop a few drops of sulphuric acid on the crown of the plant. While this is a laborious proc-ess, it does the business.

Of late Kansas farmers have been having some trouble with scale in-sects on their fruit trees and have been led to believe that the danger of devastation of this sort is great. Various sprays have been recommended for the purpose of killing these scale insects but it has remained for a California professor to discover that black ants are much more efficient as scale destroyers than any of them. He is said to capture the ants by placing a plate of sugar near the ant hill and when the plate is covered with ants it is removed to the forks of the tree that is infested with scale. The ants leave the plate and go to work on the scale, which they destroy without injury to the tree.

One of the sights that impresses the visitor to Reno county in these later days is the heavy growth of trees all over a region that once boasted only three line cottonwoods on the old Santa Fe trail. It is claimed that Reno is one of the best wooded counties in Kansas, but the forest and fruit tree growth is, of course, a result of tree planting by the settlers. One of the interesting sights of the county is the 800 acre catalpa grove belonging to Mr. Vilas, a few miles out from the city of Hutchinson. In the younger life of the catalpa trees they are cultivated along with corn or other field crops and later have peach trees growing with them. This tract of land is said to be one of the most profitable in the county.

The Hardy Catalpa.

PROF. ALBERT DICKENS, HORTICULTURAL DEPARTMENT, STATE AGRICULTURAL COLLEGE, MANHATTAN, KAN.

Catalpa Speciosa, or hardy catalpa, variet mended for Kansas planting. Catalpa Catalpa, or Southern catalpa, and hybrid species do not succeed well in this climate. They are slower in rate of growth and more inclined to be shrub-like and branching than Catalpa

Catalpa seed should be sown in the spring, in a seed-bed of finely pulverized soil, prepared as for garden purposes and should be lightly covered. say from a depth of one-half inch to one inch. It is advisable to sow at the rate of about twenty-five seeds to the foot, in shallow drill rows run about three feet apart, to permit horse cultivation. Grass and weeds must be rigorously kept down, and the rows cultivated with the hoe until the fourth or fifth leaf appears on the young seedlings, when the cultivator may be used for the remainder of the

season the leaves dropped in the fall, the trees which should have reached a minimum height of from eighteen to twenty-four inches, should be dug, tied in bundles of about 100 trees each, and "heeled in" for the winter in dry, fine earth, closely packed, so as entirely to cover the bundles. Care must be taken that the location be such as not to permit the accumulation of standing water about the roots.

At the end of one year the seedlings may be transplanted to the permanent plantation. Yearling stock is considered most successful and few nurseries handle any other. The land for the permanent forest should have been under cultivation for at least one year. Prairie sod turned under early in the season, and allowed to remain until the following spring, will answer the purpose if put into a good state of cultivation. If land previously in cultivation be used, it should be thoroughly and deeply plowed the preceding fall, and well harrowed just eb-

fore time for planting.

In the catalpa plantation at the Hays branch experiment station, the seedlings were set five feet by six feet apart, which is a very good distance unless it is desired to use two horse tools in cultivation, when four feet by seven feet will be found a better distance. Cultivation should be continued until about the last of August, to retain the soil moisture and keep down the weeds. Any weeds that appear after August will be caught by the frost before they go to seed. It must be remembered that a forest plantation requires in its early stages the same care and cultivation as a corn crop, and this care in the case of catalpa must extend over the first three of four years of the tree's life in the forest. During the first two years, intermediate crops, such as corn, cow-peas, soy-beans, etc., may be grown between the rows, thus paying for the cost of cultivity. for the cost of cultivation. After two years in the permanent plantation, the trees may be cut back to the ground. From the stumps strong, vigorous, straight shoots will spring up. Of these, the best is allowed to grow for the future post or pole.

Catalpas are not adapted to high dry uplands, but require fairly rich, mosts oil. Good corn land is considered best for catalpas and thorough cultivation and care are required for best success.

Bagworm-(Thyridopteryx ephemeraeformis Haw.)

T. J. HEADLEE, KANSAS STATE AGRICUL-TURAL COLLEGE.

A dark colored "worm" which lives

in a long oval leaf-and-bark covered bag, of from one to two and one-half inches in length, and consumes the foliage of red cedar, arbor vitae, box elder, soft maple, and other trees. This insect has been reported in damaging numbers over the eastern quarter of Kansas and has defoliated both evergreen and deciduous trees in certain localities. The work of the bagworm is especially serious on evergreen trees and shrubs, for one complete stripping frequently means death to them. While most of the specimens received by us have been taken from red cedar, the bagworm feeds with evident relish on arbor vitae, soft maple and box elder, and may attack almost any species of forest or shade tree. HABITS AND LIFE HISTORY.

The eggs are deposited in fall in the bag which has already served for the protection of larva and pupa. Such a bag may contain as many as twenty-five hundred eggs. From these eggs the following spring hatch tiny caterpillars, each of which constructs for itself a tough case made of pieces of leaves and bark, held together with silken threads spun from its own body. As the caterpillar grows it enlarges the case to suit its needs. It carries this case about with it as it moves from one feeding ground to another. When stopping for food or rest it attaches the case to twig or leaf with threads of silk. In feeding it thrusts its head and thorax out of the case. If disturbed it will quickly retire into its

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house and draw the sides of the opening together.

During August and September it becomes fully grown and, after firmly fastening the case to the food plant or some other object, transforms to a pupa. In this stage it lies quietly without feeding for about three weeks, at the end of which time it transforms into an adult insect. If it be a male it transforms into a moth having a wing spread of about one and one-fifth inches; if a female, it transforms into a grub-like creature which does not leave the case until the eggs are laid. Sometimes, indeed, she never emerges from the case at all, but dies in it after depositing her eggs.

METHODS OF CONTROL The bagworm may be destroyed by gathering the bags during the sumLINCOLN Business College

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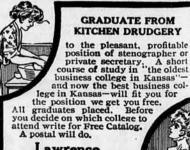


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mer, fall or winter and burning them. or it may be poisoned at any time after it hatches form the egg until it transforms into a pupa.

When the trees are small or few in number it is practicable to pick the bags and burn them.

When there are trees enough to render the purchase of spraying machinery worth while, or when spraying apparatus is at hand the bagworms may be destroyed by thoroughly spraying the foliage on which they are feeding with arsenate of lead at the rate of three pounds to fifty gallons of water. This strength of poison is necessary to destroy them at this time of the year when almost fully grown and is no doubt greater than would be necessary while they are yet small.

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POULTRY



Now that the cockerels are getting be of good size, they should be seprated from the pullets. Both pullets and cockerels will thrive much better or the separation. One lot will necssarily have to be penned up; let his be the cockerels, giving the pulets free range, so as to give them the etter chance for thriving. All the ockerels that are not needed for next eason should be sold to the butcher s soon as they are large enough for ries or roasters.

Plenty of pure, fresh water is very ssential to the health of the poultry ock during warm weather. The rinking water if left to stand gets oul very soon and when it gets dirty, with a green scum on it, it is posiively harmful. The vessels should be scalded out occasionally and kept illed with fresh water. Water is the principal constituent of the flesh, ones, feathers and eggs of fowls and hey necessarily consume large quanities of it daily. Therefore, it should be seen that the water supply is not paly pure, but fresh. To allow them of drink from impure pools around the parn yard is criminal.

The season of fall fairs is now at and and a great many people are hinking of exhibiting their chickens at some of these shows. It is a very ommendable thing to take your fowls to the fair and try to win a premium, but it is very unwise to go there with handicap on your birds so that they a namericap on your birds so that they cannot possibly win a prize. This is often done by persons who are not careful enough to see that their birds are disqualified from competition. The Standard of Perfection mentions all the disqualifications of the different background of the exhibitor is so ent breeds and if the exhibitor is so careless as to take a disqualified bird to the show room, he must lay the blame upon himself and not upon the The judge is at the show to do his duty and the very first duty that falls to his lot, is to see that the birds are not disqualified. Another thing that often loses a prize, is the fact that the owners pay no attention to the condition of their birds before ley take them to the show. often hear the remark at the fair, "I picked up these birds just as they ran in my wards without any prepara-tion." Maybe it is better to bring such birds to the show than not to bring any at all; but as a rule such birds do not win any premiums. The rule is, that it is the well-groomed birds that win. If you do not take the time to fix them up, you may be sure that the other fellow will and the chances are that though your birds are better than his, he will take way the prizes, because his birds are in the best condition for showing. All white birds should be washed, and it would improve the looks of other col-ored birds to be washed. The feet and legs of all breeds should be thoroughly washed and cleaned and then oiled. If their legs have scales on them, they should be attended to several days before the show. Any grease or oil with a little carbolic acid in it, is good for this. The plumage of old fowls at this time of year is never in extra good condition and is very scanty at times, but what plumage they have, should be carefully brushed and smoothed down. head and beak of the fowls should be Washed and sometimes the beak

and White Plymouth Rocks, all m top-notch quality. Our rocks So will the young ones. Now is

Route 2. SMITH & KNOPF, Mayetta, Kan.

THE STRAY LIST

SEPTEMBER 4, 1909. Taken up August 16, 1909, by G. W. Rob-kon of Eminence twp., Woodson county, Kansa, one sow, 150 lbs., black, 4 white leet, valued at \$10.00.

should be scraped, so as to make it smooth. The fowls should be cooped several days before the show and should be handled quite often so as to make them tame and contented with their lot in close quarters.

Chickens Have Colds.

We would like the opinion of KAN-SAS FARMER on what disease our young chickens have. They are about half grown. They begin by being lame and are inclined to lay over on one side. Their feet and legs look quite natural. They get very light and in three or four days die. Some of them have diarrhea and their heads and eyes swell but not all of them. We feed them oats, corn and Kafir-corn. We cannot find any lice on them.—W. M. V., Phillipsburg, Kan.

Ans.-Judging from the fact of your chickens having swelled heads and eyes, we should say they were suffering from a cold, probably because they roost in a drafty place. The rem-edy of course is to see that no drafts strike them while sleeping and that they have dry quarters. For diarrhea give twenty drops of camphorated spirits in a quart of water and give no other water to drink for a few days. Don't feed many oats unless they are scalded and soaked over

Roup-the Cause and Cure.

The time has arrived when the numerous inquiries come forth stating that there is something wrong in the poultry yard. One letter received read like this: "My chickens get mopy, have watery discharge from eyes and nose, then in a few days one or both eyes are swollen shut. The breath gets offensive and I looked in the mouth and saw a cheesy substance in the throat. What is the matter with them and do you know of a cure?

cure?"
In the first place I would say give the chicks plenty of fresh air. I have a shed which I call an ideal chicken roost. This shed is built with good roof and sides to about 30 inches of the ground. The lower 30 inches enclosed with one inch poultry mesh. The west is also all covered with small poultry mesh. This affords an airy roosting place while no vermin can invade. I do not think it possible for roup to develop in such a poultry for roup to develop in such a poultry

If you already have roup in your flocks, ask yourself, are my chickens not crowded? If they are get to work at once and thin them out by making more room or by selling the surplus. Put one pound of copperas and one ounce of oil of nitriol in a gallon jug. Fill the jug with water, shake well and to each gallon of chicken drinking water put four tablespoonsful of the mixture. Keep the jug out of reach of the little folks. While doctering the chickens allow no other drinking

Another remedy which is very effective is to put enough permanganate potassium in the water for the chickens to drink to turn the color purple. If any bird is badly effected make double strength and immerse the chicken's head three or four times daily. A few drops of coal oil poured down the throat is good if there is difficulty in breathing.

Let me say again give plenty of room and plenty of fresh air and you will need no cures. Also keep everything around the poultry house scrupulously clean and plenty of clean water to drink. Just thing how soon we would be sick if we had to drink the stale, stagnant, dirty water which I have seen that some chickens have to drink this hot weather. Chickens are just as susceptible to disease as we are.-Mrs. Lizzie B. Griffith, Emporia, Kan.

The season of fall fairs will soon be at hand and it behooves the poultryman to be making up his mind to send some of his birds to these exhibitions. No better place in the world can be found wherein to advertise his stock or sell his birds. He should ex-

BREEDING STOCK FOR SALE

In order to make room for growing stock I will sell a few dozen W. P. Rock hens at \$10 per dozen or less quantities at \$1 each. Such breeders would be worth from \$2 to \$5 each a breeding season. Some late chicks might yet be gotten out of them.

THOMAS OWEN, Station B, Topeka, Kansas.

RHODE ISLAND REDS.

ROSE AND SINGLE COMB RHODE · ISLAND REDS.

Eggs for hatching, \$1.00 per setting, re-mainder of season. Red pullets hatched mainder of season. Red pullets hatched in September and October will make early spring layers. No stock for sale until

H. A. SIBLEY, Lawrence, Kan.

LIGHT BRAHMAS.

LIGHT BRAHMAS—Young stock for sale. Cockerels, \$1 to .\$3; pullets \$9 to \$12 per dozen. Order now. Prices higher later. Farm raised. Quality way up. Spitz dogs, all ages, \$5 to \$10. MRS. A. P. WOOLVERTON, R. 8, Topeka, Kan.

PURE BRED POULTRY.

SUNNY CREST.

Stock, fruit and poultry farm. Eggs to sell from M. B. Turkeys, R. I. Rels and Leghorns. Registered Jersey calves and Poland China hogs for sale. Write me. MRS. WM. BRITE, Pierce City, Me.

hibit at his county fair and then send some birds to the State-Wide Fair at Topeka Sept. 13-18. A copy of the

premium list can be procured from the secretary, R. T. Kreipe, Topeka,

Kan. No entry fees on poultry are required at this fair. They are fed, watered and taken care of free of all

The Annual meeting of the American Poultry Association takes place this week at Niagara Falls, N. Y.

The meeting this year will be of un-

usual importance. Many changes in the constitution will be brought up for

final action and the report of the re-

vision committee will be considered.

Important changes in the Standard of

Perfection have been outlined by this committee; these include the striking out of all color disqualifications, also

the greater part of other disqualifica-

tions, including the one for stubs on shanks and toes of clean-legged fowls. Also the elmination from the Standard

of Buckeyes, Frizzlies and Buff tur-

the Standard to half-tones has been recommended by the committee, and there is a movement on foot to com-

pel judges to pass an examination be-

fore a board that will be appointed by

When writing advertisers please mention Kansas Farmer.

TOO LATE TO CLASSIFY.

The farmer who interests himself in clover and alfalfa is the one who is now looking so prosperous. "From Idaho to Italy" is a good thing for these farmers. the properous kind, to read. Have you read it?

FOR SALE, ONE VERY FINE POLAND China boar, sired by Corrector 2d, dam by Perfection E. L., 3d dam Crucella by Keep On. He is a grand individual and well enough bred to head any herd of good Poland Chinas; also two spring boars by one of Meddler 2d best son, out of Porfection E. L. dam. If you want a good one write me at once. No fancy prices asked. J. W. Ferguson, Route 1, Topeka, Kansas.

SOLOMON & SMOKEY VALLEY lands in Saline and Dickinson counties. Improved farms from \$45 to \$95 per acre. Also cheaper lands in Caddo Co., Okla.

T. E. HALE,

MARION, MORRIS AND DICKINSON county, Kansas lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list.

T. C. COOK, Lost Springs, Kansas.

the executive committee.

keys.

The changing of all line cuts in

BUFF ORPINGTONS.

BUFF ORPINGTONS, extra fine cock and two fine hens, \$10; also 12 utility hens, \$1 each. HARRY CURE, Atchison, Kan.

BUFF ORPINGTONS—Ckls., pens, baby chicks, eggs. More first prizes State Fairs and State Shows than all other breeders. My POULTRY BOOK, containing information worth hundreds of dollers to farmers sent for 10 cents. W. H. MAXWELL, R. 95, Tepeka, Kan.

BEST BUFF COCHINS IN KANSAS.
This variety exclusively. Can furnish eggs
from prize winning stock at \$1.50 and \$2 per
etting. J. C. BAUGHMAN, Topeka, Kan.

FOR SALE.

S. C. Buff Orpington hens, pullets and cockerels.
S. C. White Orpington hens, cockerels and pullets.
S. C. Black Orpington pullets and cockerels.

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erels.
White Plymouth Rock pullets.
Rose Comb R. I. Red cockerels and pullets and a few
Diamond Jubilee Orpington hens and pullets. \$1.00 to \$2.50 each.

MRS. LIZZIE B. GRIFFITH,
Route 3, Emporia, Kan.

ALFALFA HONEY—CHOICE 120 LBS. extracted, \$10; chunk \$12; new cans. A. S. Parson, Rocky Ford, Colorado.

MELBOURNE HERD POLAND CHINAS.
I have a few choice spring boars and gilts sired by Gold Metal. Hadley Boy and Klever Boy for sale at moderate prices.
Let me know your wants.
JOHN C. HALDERMAN,
Burchard, Nebraska.

CEDAR LAWN FARM.

Polands and Shorthorns for immediate sale: 15 choice spring boars, sired by Orphan Chief 50906, Priceless King and a good son of Pan Famo. Dams carry the blood of Bell Metal, Logan B, Big Hutch, etc. Also a few good gilts. No culls shipped.

S. B. AMCOATS, Clay Center, Kansas.

Voter! Voter! Voter!

Fine lot of spring pigs, both sexes, sired by the world's champion Voter, and out of of the best bred dams of the breed. Oth-ers by Meddler 3d by Meddler 2nd. Write

A. & P. Schmitz,

Dietrich & Spaulding's Poland Chinas.

4 herd headers, will sell you choice. 4 bred sows and gilts. 35 spring pigs, individuality good, breed-ing the very best. Write us at

Ottawa, Kansas.

GLENWOOD HERDS.

The home of the Scetch bulls Prince Pavonia 207316 and Searchilght 292031.

Large type Poland China boars, Designer 39199 and Major Look 48033. The original Designer kind—choice herd boars now ready for shipment. The Designer kind that grow big. See my cattle exhibit at the leading fairs this fall. Write your wants. C.

C. S. NEVIUS,

Chiles, Miami Co.,

Kansas.

Ramaker Offers: 5 Kant Be Beat 2-year-old-sows out of an Ohio Chief dam, 1 Ohio Chief, 1 Improver II, 4 Granddaughters of Jr. Jim, out of an Improver 2d sow. 1 Kant Be Beat 2-year-old boar out of an Ohio Chief sow. 90 choice large pigs. Everything at rock bottom prices. Write for prices and descriptions. G. H. RAMAKER, Prairie View, Kan.

GOETH'S DUROCS.

25 spring boars for sale sired by my herd boars Attractive Chief, Big Crimson, Walnut Wonder and others and out of sows by Ohio Chief, Kant Be Beat, Nebraska Wonder, Model Chief Again and King of Col's II. Write me.

Leenardville, Kansas.

Leonardville,

9 TOPPY HEREFORD BULLS 9.

For sale, sired by Loyalty 16239 by Imp.
Majestic, Armour's great buil. Their dams
rich in the blood of Anxiety
Boy, Beau Real. and Hesiod.
Are good and will be priced to sell.

W. L. WOOD, Streng City, Kansas.

FAIRVIEW JACK AND JENNET FARM. Registered Mammoth Jacks

Jennets for sale cheap, at all times, and Jennets for sale cheap, at all times, quality considered. They have big bones, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands high. A big lot to select from. Everything guaranteed as represented. Established 1892.

J. C. HUCKSTEP, Proprietor, EOLIA, MO.

BEST IMPORTED PERCHERON, BEL-gian, English Shire, Suffolk Punch and German Coach Stallions, \$800 to \$1,000, your choice. Imported mares, home-bred horses, \$250 to \$650. A. LATIMER WILSON, Creston, Iowa. Frank L. Stream, of Creston, Iowa is selling young, choice imported Belgian, Percheron, English Shire, Suffolk Punch and German Coach Stallions, at \$1,000. to \$600.

ROSS FARM—Registered Percheron Horses, Shorthorn Gattle, Poland China Hogs.

40 head Percheron mares— one to four years old. Several nicely matched teams, blacks, bays and grays. Imported and American bred.

A few splendid young stallions, with plenty of bone and quality. 36 head of pure A few splendid young stallions, with plenty of bone and quality. 36 head of pure Scotch helfers, all reds and extra good at a bargain price. Farm adjoins depot main line Santa Fe Ry. See the Ross exhibit at Kansas State Fair at Hutchinson, Kan. GEO. B. ROSS, Alden, Rice County, Kan.

ember 11

HOME CIRCLE



It ain't no use to grumble and complain, It's just as cheap and easy to rejoice; When God sorts out the weather and sends

Why, rain's my choice.
—James Whitcomb Riley.

The inner side of every cloud is bright and shining.

I therefore turn my clouds about And always wear them inside out
To show the lining.
—Ella Thorneycroft Fowler.

Be Careful What You Say. In speaking of a person's faults. Pray don't forget your own; Remember those with homes of glass Should seldom throw a stone.

If we have nothing else to do
But talk of those who sin,
'Tis better we commence at home,
'And from that point begin.

We have no right to judge a man Until he's fairly tried; Should we not like his company, We know the world is wide.

Some may have faults—and who has not? The old as well as young— Perhaps we may, for aught we know, Have fifty to their one.

I'll tell you of a better plan, You'll find it works full well; To try your own defects to cure Before of others tell.

And though sometimes I hope to be No worse than some I know, My own shortcomings bid me let The faults of others go.

Then let us all, when we commence To slander friend or foe, Think of the harm one word would do To those we little know.

Remember, curses sometimes, like Our chickens, "roost at home," Don't speak of others faults until We have none of our own.

Household Hints.

Carefully breaking eggs into a funnel will separate the whites from the yolks. The white will slip through and the yolk will remain in the fun-

When making jelly skim the fruit juice, as it boils, into a fine wire sieve, using a silver spoon. The clear juice will go through into the kettle, while the scum will remain.

Equal parts, wood ashes, pearline and soap make a fine scouring powder. Put them into a perforated can and they are ready for use. This is very fine to scour all kinds of kitchen

A florist tells a sure remedy for the dandelions which so spoil lawns. Apply a few drops of gasoline in the center of the plant with a medicine drop-This permanently removes these blemishes.

A handful of sulfur sprinkled over fire in the stove creates a gas which puts out a chimney fire. Open the back draft to let the gas escape readily. This is something every one ought to know and use carefully.

Soak cream stains in ammonia and water; tea, coffee, cocoa or chocolate stains, soak in cold water first, then place the stain over a bowl and pour boiling water through it, holding the teakettle at a height to insure force.

An economical and useful article is a tin clothes sprinkler. clothes may be sprinkled with hot or cold water very quickly and evenly. Any housekeeper can make one for herself out of a baking powder can or cocoa can. Perforate the top of the cover with tiny holes, the smaller the

If you are using the heavy common white dishes, which many people are doing, and you find them getting dirty and discolored from constant use, try this plan which has been used with Take a large kettle and place in it the plates, cups, saucers, and other dishes, cover them with water, and add a generous portion of some good washing-powder, put on the stove and let boil for about one-half hour, take from the water and rub briskly while still hot, the griminess will disappear like magic, and your dishes will look like new ones.

We felt the need of a mail box, but most of those for sale are unsightly. My husband solved the problem. Our porch has square, hollow columns. In

one of these, near the steps, he cut a little door, 6 by 8 inches. Inside was fastened to the door a cheap spring. The bottom of this novel mail box is the top of the railing, and it extends to the top of the porch, thus it will accommodate even the largest magazines. A tiny button, which operates the spring at the door, is all that would indicate anything unusual, and it is seldom noticed.—A subscriber.

Keeping Promises to Children. A promise to a child is a serious and solemn thing and woe be unto the person who first destroys that beautiful trust and confidence.

Why do so many parents promise a thing that they absolutely know is impossible to do? Is it any wonder that so many children see no need of keeping their promises when their elders are daily breaking their word to them? How can they be expected to discrim-

It is so easy to promise when we have no possible knowledge of the out-

Many fathers give their children calves or colts but unfortunately there is a string on the gift and while they are young and need care they may belong to the youthful owners but when enough to be salable the fathers pocket the money.

As long as we make and break promises lightly we must expect our children to grow up with the same sort of a standard.

To preach one doctrine whether it be in the home, the school room or church, and to practice another is detrimental to old and young.

The Fireless Cooker a Boon to Country Women.

Our modern civilization has evolved many labor-saving devices for women, which in comparison to the old-fashioned methods render housekeeping extremely easy. Hence the country woman has reason to welcome the fireless cooker and she should not allow prejudice to keep her from fully investigating its claims. The name fireless cooker is somewhat misleading; heat retainer would have been better, as the principle upon which it cooks is that the heat is retained by insulation after the food has been brought to a boil on the flame or coal stove. This principle has long been known and used in Europe and its practical adaptation to the needs of the American housekeeper is destined to revolutionize the burden of cooking three

By means of the fireless cooker the farmer's wife can start her vegetables, meat and soup to boiling while she is cooking breakfast and have them snugly packed away in the cocker half an hour later to be taken out "piping hot and done to a turn" for dinner. In the meantime she has a cool kitchen in which to wash up her breakfast dishes, churn and do the many other things that fall to the lot of a woman in the country.

One farmer's wife, writing of the fireless cooker, says: "It is the greatest help to women of the age and the greatest saver of fuel and labor. My dinner is all in the cooker now and it has been for three hours. My kitchen is nice and cool and I have taken a ood rest. No running to see about fires, just leave it alone and when wanted all will be done 'to a turn.' "

Do Most People Love Sunshine?

Ask that question of every one of your friends, after a winter of colds and influenza, and each will look at you with amazement. Yet, if further interrogated, almost all will admit that many of their actions do not agree with their emphatic statement that sunshine is life to them, that they revel in it, and so forth. sunshine, but we are constantly shutting it out of our rooms, in spite of the fact that we are convinced that the glorious rays mean death to our tiny microbe enemies.

We commence with the spring sun, just that very warmth and light that restores our impaired vitality. As soon as its rays enter our rooms

through the window panes down come

In the first place, the rays of the sun in spring are so searching that they show up the dust and the faded hangings and carpet in a way that makes us want to clean and renew

with the utmost rapidity.

Then those penetrating gleams "take the color out of everything." The wall paper, only just put on, so to say, loses its color, or tine, becoming old in appearance immediately. The furniture suffers in the same fashion and the carpets follow. the sunshine truly, but think of the furniture! It may mean health, but it means a faded condition, so keep it out!

Down come the window blinds and up or out go the sunshades. The heat is too great, and, as a rule, the only method of keeping the apartment cool is to shut out the sun.

We open the windows on the street, we keep our doors open to create some kind of a cooling draft, but we deprive ourselves of the sun and light. We are inclined to think more of the heat than of the fading of our hangings, but, of course, the hot, strong sun works havoc in the latter direction also.

"How can we help it: we sigh.
"We shall be stifled!" That is most probable. The pity of it is that we can not devise some plan for obtaining a current of fresh, cool air without shutting out the magnificent light.
One of these days we shall be able

to have electricity or some form of motive power cheaply enough to permit of running ventilating fans in our houses and so maintaining coolness without losing the benefit of the sun.

Yet, even then, we shall probably wish to shut it out now and then; for, ardently as we wish for it during the dark, cold days, we grow tired of it if we have it for many consecutive

In a remote way our experience, then, resembles that of the dweller in a tropical country who declared that he was tired, absolutely tired, of walting up every morning and seeing the sun shining! "Sun, sun, sun, day after day," he wailed; "it is a relief to see it cloudy and soaking wet!"-Farmers and Drovers' Journal.

Some Toothsome Recipes for the Fireless Cooker.

BY PERMISSION FROM THE FIRELESS COOK-ER RECIPE BOOK, BY CAROLINE B. LOVE-WELL, FRANCES D. WHITTEMORE, AND HANNAH W. LYON.

Salmon Loaf-One can of salmon, 1 cup of cracker crumbs, 2 tablespoons of melted butter, 3 eggs beaten separately, pepper and salt, a grate or two of the rind and the juice of 1 lemon. Put in a mold and place over hot water in a cooker kettle. Boil five minutes and place in cooker for two hours. Longer will not injure it. Brown the

Fried Chicken-Have ready over the fire the large cooker kettle filled with hot water. Place over it a deep pan that will serve as a cover, fitting closely into the keetle. Clean and cut the chicken into pieces; lay in salt and water, changing it several times. Roll each piece in flour and brown in a frying pan containing a mixture of lard and butter, seasoning with salt and pepper. When it becomes a nice brown on both sides put it into the pan over the kettle of boiling water and cover with kettle lid. To the gravy remaining in the frying pan add two cups of rich milk. Boil and thicken with two tablespoonsful of flour. Season with salt and pepper and pour it over the chicken. Cover closely. Cook over the fire fifteen minutes and in the cooker two hours.

An old chicken may be fried according to the above recipe, but must be boiled in the cooker the day before it is to be served. Boil as follows: After the chicken is cut and salted in the usual manner, put it into a closed kettle or deep dish that can be closely covered, without water, and immerse it in the large kettle. The boiling water should come up to within two inches of the top of the kettle that contains the chicken. Boil until it is thoroughly heated through, about thirty minutes. Then remove the kettle carefully covered to the cooker. Leave for twelve hours, or over night. Reheat in the morning, if necessary, and leave until time to fry for dinner according to directions given above. This is a delicious way of serving old chickens.

Jugged Rabbit, the English Way-Cut a fresh rabbit in handsome pieces.



Home Kait Hosiery

J. E. GEARHART, Box DF Clearfield, P.

Roll in flour and fry to a good brown in half a cup of mixed fats. Lift the brown pieces into a stew pan. Min two tablespoons of flour with the talleft in the pan. Stir until smooth, add salt, pepper, a teaspoon of lemon juice half a glass of apple jelly, and stir in two cups of water. Pour this sauce over the rabbit in the stew pan. In sert a bay leaf, two cloves, and three allspice in a cheesecloth bag. Boil firminutes and set in the cooker three hours. Take out the bag of spices be fore serving. New England Boiled Dinner-With

Mustard Sauce—The night before the dinner is to be served prepare pounds of corned beef, washing washing i thoroughly and trimming as seem necessary. Put it into the large ket ele and nearly fill with cold water. Heat slowly, boil fifteen minutes and skim, then place in the cooker over night. In the morning reheat and leave in the cooker until time to pre pare the vegetables. About two hour before the dinner hour place over the fire and put into the kettle with the fire and put into the kettle with the meat two onions and four turning sliced, two parsnips and two carrot cut into small pieces, and one small head of cabbage, which should have been cut into quarters and soaked u hour in cold water, then drained and tied in cheesecloth. When the content of the kettle are boiling, remove to the cooker for one hour, then rehea and add eight medium sized potatoe cut in halves. When it is again boll ing, return to the cooker until time to serve. Take up the meat in a large platter, surround with the vegetables and send to the table. A number of beets should be prepared in a sep-rate cooker kettle and made ready to serve with the other vegetables, six ing and arranging them around the

Mustard Sauce for the Above-Into 1/2 cup of boiling water stir 1 teaspool ful each of butter and flour creame together. Mix smoothly 2 tablespoons ful of mustard with a little vinegat and add to the sause, with 1 table spoonful sugar and a little pepper an salt. Cook five minutes and pour into the mustard cup for the table.

How We Came to Have Pink Roses Once, ever and ever so long ago, w didn't have any pink roses. All the roses in the world were white. There weren't any red ones at all, any yel low ones, or any pink ones-just only white roses.

And one morning very early, a little white rose bud woke up and saw the sun looking at her. He stared so hard that the little white rosebud did not know what to do; so she looked up at him and said, "Why are you looking at me so hard?" "Because you are so next the side of the said. pretty!" said the big round sun. And the little white rosebud blushed! She blushed pink. And all her children after her were little pink roses!—Told by Elizabeth McCracken.

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Size.

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SHIO



8562-A Useful Apron.

s562—A Useful Apron.

Is practical design for a work apron is simplest of garments to make, and be found a real aid in preserving the will be solved in work about the transported with two deep pockets that add conably to its usefulness. The gathered covers the front of the waist and is held to a circular yoke that slips on yover the head. Plaid glingham was for the making, but percale, linen cambric are all suitable for reproducting the medium size requires 3½ yds. Inch material. Pattern is cut in sizes I, medium and large. medium and large.



8557-A Natty Little Suit.

857—A Natty Little Sult.

thing is smarter for the little boy than pretty little tunic suits, simply finished achine stitching or narrow braid. Such odel is here illustrated in white serge. Aped trimming band outlines the neck front edges, and a deep pleat is area the full length of the front and back, ading out over the shoulders in a very ming manner. The little knickerbockares shaped by the usual outside and le seams, the fulness at the knee being sted by an elastic inserted in the hem. Iop is tinished by an inside waist band, mode is equally builed to the firmly the wash fabrics, such as linen and pique, well as the flannels and woolens. For hid of 6 years 2½ yds. of 54 inch mall will be required. Sizes 2-4-6 years.



8516—A Graceful House Gown.

The comfort and ease suggested by this pretty model, as well as its graceful simplicity, will commend it at once to the home dressmaker. The front and back are gathered to a square yoke and fall in straight folds to the hem. It may be confined at the waist by a ribbon girdle or a belt of the material attached in high waist line effect. Challis, albatross, crepe de Chine and the soft sliks will all develop nicely after this design. The pattern is cut in 6 sizes, 32 to 42 inches bust measure. Size 36 requires 9 yds. of 27 inch material. Provision is made for either high or low neck.



8561-8559—Charming Mode for a Young Girl.
A simple blue and white dotted linen was used in the development of this attractive model. The blouse waist is laid in a deep tuck over the shoulder in Gibson style and is unsually chic and becoming. The low Dutch collar and turned back cuffs are finished by a narrow frill of sheer white lawn, headed by a band of insertion. The skirt is an excellent two piece model, closing in either front or back. The pattern is cut in 3 sizes, 14-16-18 years. The 16 year size requires 1% yds. of 44 inch material for the waist, and 3 yds. for the skirt.

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^{Uneral} Director and Licensed Embaimer.

STOP HARD WORK. Write today to Wenzelmann Mfg. Co. Galesburg, Ill., for catalog of well made labor saving implements. State how many acres of small grain you have.

RECIPES.

Onlen and Cucumber Pickle.

Wash thoroughly and dry one peck very small cucumbers. Peel one of very small cucumbers. Peel one heaping quart of small onions. Have jars clean and cold; fill the jars with alternate layers of cucumbers, onions, a slice of sweet red pepper to each layer, and sprinkle each liberally with whole allspice and celery seed. Scald one gallon of vinegar containing a cup of salt and one and two-thirds cups of granulated sugar; pour this mixture, while hot, over the vegetables and seal at once. In following this recipe there is only one precaution to be taken to insure crisp, piquant pickles—the cucumbers must be fresh; often those beauth at the market have been pulled several days.

Pepper Hash.

Chop fine one large head of cabbage, six large onions and eight large sweet red peppers—having removed the seeds from four of the peppers. Mix the vegetables and one-half cup of salt together. Put in a jar and let stand over night. Next morning drain well; add one-fourth of a cup of white mustard seed, two cups of sugar and one tablespoon of celery seed. Cover with vinegar and then add one extra quart. Put in small jars an seal.

Tomato Relish.

Scald, peel and chop fine one peck of ripe tomatoes; also chop six onions and four large sweet red peppers; mix together and drain in a colander overnight. Next morning add one bunch of celery, cmopped fine, two ounces of white mustard seed and one-half cup of salt. To two quarts of vinegar add two pounds of granulated sugar, scald and when cold mix with the other ingredients. mix with the other ingredients.

The Value and Best Method of Preparing Prunes.

Perhaps every housewife does not realize what a healthful and inexpen-sive dessert prunes are. There is no dried fruit that is better for everyday use, and when one takes into consideration the cost of sugar, etc., to say nothing of time and labor necessary in making preserves and jellies, it is at least economical to lay in a goodly supply of prunes. It is best to cook them without sugar. They should be washed thoroughly in several waters and left to soak over night in water sufficient to well cover them. The next morning cook slowly for several next morning, cook slowly for several hours in the same water, adding more if necessary, until they separate read-ily from the stones but are still whole.

Marshmallows.

Boil two teacups of white sugar in twelve tablespoons of water until it threads, then pour it over one-half box of gelatine, or two tablespoons of that which comes in bulk. Flavor with one teaspoon of vanilla and beat until white and almost stiff. Make a powder of two teaspoons of cornstarch powder of two teaspoons of confectioner's and two tablespoons of confectioner's sugar, dust the tins with this powder before pouring in the candy. When before pouring in the candy. When cold, cut in squares. In winter the mixture will be ready to cut in two hours, but in summer it is necessary to leave it over night.

Ham Loaf.

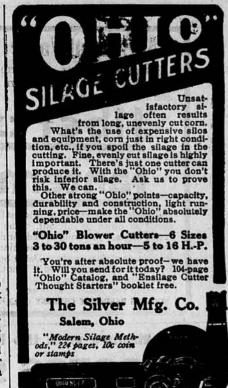
There are many odds and ends of boiled ha mthat can be profitably utilized by the thrifty housewife. is one way which in our house always proves satisfactory. Boil two slices of bread in a pint of milk, then add two eggs and beat the whole together. Pour this over four cupfuls of chopped ham and thoroughly mix again, adding a little mustard. Bake one hour, and when cold it will cut in good, firm slices.

Lemon Syrup.

Take the juice of twelve lemons, grate the rind of six in it and let stand over night; then take six pounds of granulated sugar and make arthick syrup. When it is quite cool, strain the juice into it and squeeze as much oil from the grated rind as will suit Put in bottles securely corked for future use. A tablespoon-ful in a glass of water will make a delicious drink on a hot day.

A Cocoa Egg-Nog.

A cocoa egg-nog is quickly made. Beat the white of one egg until stiff, and add gradually, while beating constantly, one tablespoonful of sugar, one teaspoonful of breakfast cocoa and a few grains of salt. Add to one-half the mixture, while beating constantly, three-fourths of a cupful of cold milk. Turn into a glass and pile the remaining mixture on top.—Woman's Home Companion for August.







Stop Scooping

ether well made farm implements to WENZELMANN MFG. CO., manufactur-ers, Galesburg, Ill. State how many acres of corn and small grain you have.





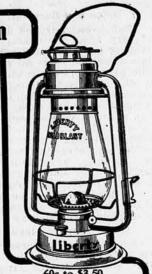
A Special-Value Lantern

Liberty Lanterns are worth more in actual service than any lantern made and don't cost a penny more.

iberty anterns

give the broadest, strongest, whitest light. They won't jar down or jolt out. The bail stands at any angle. A strong coiled spring holds the globe steady. The globe is the thinnest, toughest chimney glass made. Don't be persuaded to buy the "just as good" kinds. Buy the to buy the "just as g best—Liberty Lanterns.

If not at your dealer's, write us. SIMMONS HARDWARE COMPANY (Inc.), St. Louis and New York, U. S. A.



Spread Manure with the Roller-Bearing, Light Draft

SUCCESS SPREA

Save half the laber both for yourself and horses and make the manure go twice as far as by hand spreading. he Success pays for itself ever and over again in increased fertility of the land. It's the spreader based on kperience. We've been building spreaders 31 years. It contains all the most valuable patented devices. The half yroller-bearing spreader. Light and strong. No gear wheels to break. Equipped with weoden or metal wheels desired. Write us about the Success. Be sure you know the Success before you buy a Spreader.





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agaged in business areas cash com-agents. We pay liberal cash com-missions. Write for our catalogue and full particulars.

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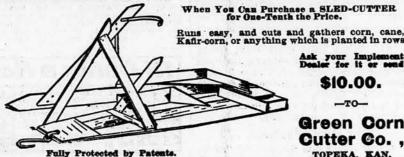
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Ask your Implement Dealer for it or send \$10.00.

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-TO-

Green Corn Cutter Co. , TOPEKA, KAN.

Lightning Pitless Scales

New Pastern. Solid Channel Sfeel Frame
Channels are seven inches which is the height of platform from ground.
Levers are octagon in shape giving greater strength. Beating are
Toolsteel. This Scale will last a life time with ordinary care
Equipped with compound Beam Free. Furnished
absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity.
Write for our orices and description before buying.

KARSAS GITY HAY PRESS 50., 122 Mill St. Karsas City, Me.

RICH MEN'S CHILDREN

By Geraldine Bonner

Copyright 1906 by the Bobbs-Merrill Company.

(Continued from last week.)

Gontinued from last week.)

Berny's rages invariably worked themselves out on the same lines. With battle boiling within her, she could preserve up to a certain point a specious, outward calm. Then suddenly, at some slight, harmless word, some touch as light as the pressure on the electric button that sets off the dynamite explosion, the bonds of her wrath were broken and it burst into expression. Now her enforced restraint was torn into shreds, and she cried, her voice quavering with passion, shaken with breathlessness:

"What do you suppose I want to sav? I

and it burst into expression. Now her enforced restraint was torn into shreds, and she cried, her voice quavering with passion, shaken with breathlessness:

"What do you suppose I want to say? I want to ask you what right you've got to try and steal my husband?"

"I have no right," said Rose.

Berny was, for the moment, to taken aback, that she said nothing but stared with her whole face set in a rigidity of flerce attention. After a moment's quivering amaze she burst out,

"Then what are you doing it for?"

"I am not doing it." she cried furiously.

"You're a liar," she cried furiously.

"You're worse than a liar. You're a thief. You're trying to get him every way you know how. You sit there looking at me with a face like a little innocent, and you know there's not a thing you can do to get him away form me you're not doing. If a common chippy, a gutter girl, acted that way they'd call her some pretty dirty names, names that would make you sit up if you thought any one would use them to you. But I don't see where there's any difference. You think because you're rich and on top of the heap that you can do anything. Just let me tell you, Miss Rose Cannon, you can't steal Dominick Ryan from me. You may be Bill Cannon's daughter, with all the mines of the Comstock behind you, but you can't steal Dominick Ryan from me. You may be so the comstock behind you, but you can't buy my husband."

Rose was aghast. The words of Berny's outburst were nothing to her, sound and fury, the madness of a fealous woman. That this was a loving wife fighting for her husband whose heart she had lost was all she understood and heard. That was the tragic, the appalling thought. The weight of her own guilty conscience seemed dragging her drun into sickened silence. The only thing it seemed to her she could honestly say was to refute the woman's accusations that Dominick was being stolen from her.

"Mrs. Ryan," she implored, "whatever else you may thank, do please understand that I am not trying to take your husband away from you You're di

Meetings, words, renouncements were nothing.

"Yes,—but—but—you must believe mewhen I tell you that that time and once before—one evening in the moonlight on the steps of our house—were the only times I've seen your husband since I came back from Antelope."

"Well, I don't," said Berny, "I don't for a moment believe you. You must take me for the easiest fruit that ever grew on the tree if you think I'll swallow a fairy tale like that. If you met once on Telegraph Hill, and once in the moonlight, what's to prevent your meeting at other times, and other places? You haven't mentioned the visits up at your house and the dinner tonight."

Rose drew back, frowning, uncomprehending.

Rose drew back, frowning, uncomprehending. She stammered in her misery.
"What dinner tonight?" she said.
"The one you're going to take with my husband."

"What dinner tonight? see said."

The one you're going to take with my husband."

For the first time in the interview, the young girl was lifted from the sense of dishonesty that crushed her by a risind flood of angry pride.

"I take dinner with my father tonight in our house on California street," she said coldly.

"Bosh!" said Berny, giving her head a furious Jerk. "You needn't bother wasting time on lies like that to me. I'm not a complete fool."

"Mrs. Ryan," said Rose, "I think we'd better end this talk. We can't have any rational conversation when you keep telling me what I say is a lie. I am sorry you feel so badly, and I wish I could say something to you that you'd believe. All I can do to ease your mind is to assure you that I never, except on two occasions, have seen your husband since his return from the country and I certainly never intend to see him again."

"Then how do you account for the money that was offered me yesterday?"

"Money?" said the young girl, pausing as she stood. "What money?"

"The three hundred thousand dollars that your father offered me yesterday afternoon to leave my husband and let him get a divorce from me."

"Tell me that again," she said. "I don't

"The three hundred thousand dollars that your father offered me yesterday afternoon to leave my husband and let him get a divorce from me."

"Tell me that again," she said. "I don't quite understand it."

"Oh, as many times as you like," she said, with her most ironical air of politeness, "only I should think it would be rather stale news to you by this time. Yesterday afternoon your father made me his third offer to desert my husband and force him to divorce me at the end of a year. The offers have gone up from fifty thousand dollars—that was the first one, and, all things considered, I thought it was pretty mean—to the three hundred thousand they tried me with yesterday. Mrs. Ryan was supposed to have rnade the first offer, but your father aid the offering. This last time he had to come out and show his hand and admit that one-third of the money was from him." She turned and looked at Rose with a cool, imperturbable impudence. "It good to have rich parents, isn't it?"
Rose stared back without answering. She had become very pale.

"That," sed Berny, giving her head a judicial nod, and delivering her words with a sort of impersonal suaveness, "Is the way it was manzed; you were kept carefully out. I wasn't supposed to know there was a lady in the case, but of course I did. You can't regotiate the sale of a husband as you do that of a piece of real estate, especially when his wife objects. That, Miss Cannon, was the Alifficulty. While all you

people were so anxious to buy, I was willing to sell. It takes two to mabargain."

Rose, pale now to her lips, said in a

Rose, pale now to her lips, said in volce:

"I don't believe it. It's not true."

"Well, that's enly fair," she said wit air of debonair large-mindedness, been telling you what you say is lies now you tell me what I say is lies. It's and you know it's not. How would I found out about all this? Do you Dominick told me? Men don't tell wives they want to get rid of them. To stupid, but they're not that stupid."

Rose gave a low exclamation and ther head away. Berny was waiting second denial of her statements, whe young girl rose to her feet, saying horrified murmur:

"How awful! How perfectly awful!"

"Of course," Berny continued address her back, "I was to understand you know anything about it. I had my opinions on that. Fathers don't go buying husbands for their daughters they know their daughters are dead shaving the husbands. Bill Cannon watrying to Dominick away from me is cause he wanted to be philant Neither was Mrs. Ryan. You're the wife she wanted for her boy, ju Dominick's the husband your lather for you. So you stood back and let the people do the dirty work. You.

Rose turned quickly, sat down on the of the bench, and leaned toward the sp Her face was full of a quivering intent concern.

"You poor, unfortunate woman!" he

concern.
"You poor, unfortunate woman!" she
in a shaken voice, and laid her ha

Berny's knee.

Borny was so astonished that for the ment she had no words, but stared in prehending, still alertly suspicious.

"You poor soul!" Rose went on "known or guessed for a moment id spoken differently. I can't say anythididn't know. I couldn't have guessel the most horrible thing I ever her it's—too—too—"

She stonned billion be in the mean in the stonned billion be in the mean in the stonned billion be in the mean in the stonned billion be in the stonned billion be in the mean in the stonned billion be in the stonned billion be in the stonned billion be in the stonned below the stonned be

didn't know. I couldn't have guessel the most horrible thing I ever her It's—too—too—"
She stopped, bitting her lip. Bern that she was unable to command her though she had no appearance of teas at the beginning of the interview. A amiable, rosy softness was gone. The wooman was too astounded to say any She had a feeling that, just for that ment, nothing could be said. She wienced by something that she did not stand. Like an amazed child she sta Rose, baffled, confused, a little awd a minute of silence, the young girl we "I can't talk about it. I don't alto understand. Other people—they may lain. I've been—no, not deceived, but in the dark. But be sure of one this terday was the end, of it. They'll say that I don't know how it could him pened. There's been a mistake, a bunforgivable mistake. You've been wand insulted, and I'm sorry, sorry in miliated and ashamed. There is the stopped again with a gesture if the redigenation and disguist, and the services and insured.

words—"
She stopped again with a gesture of less indignation and disgust, and of the feet. Berny, through the darks her stunned astonishment, realized the was shaken by feelings she could be a stopped to the stunned astonishment.

her feet. Berny, through the darks her stunned astonishment, realized the was shaken by feelings she could be press.

"You didn't know anything also then?" the wife said sullenly, wanth to be deflant and finding all her de overwhelmed by an invading sensai feeling small, mean and contemptible "Know it?" said the girl, letting a of scorn touch the questioner. "Said Berny, be voice did not have any assurance occonviction on the subject. It sounds and spiritless.

"You have. You seem to me to right to say anything savage and saff insulting. And I can only say to posorry, I'm sorry, and I ask your parforme and for the others. And that make it any easier for you to bear you any good."

Berny swallowed dryly and said: "doesn't."

"All I can do now is to promise you it stops today and forever. You'll as bothered again by anything of the You can go back to your home as that never again will any one belong me try to come between you and you band. I can't say any more. I can about it. Goodbye."

She turned away as she spoke and out a backward look walked rapidly the gravel walk to the street. Will immovable, unwinking gaze, Berny her figure as it melted into the stematomy of the stematom

CHAPTER XXIII

CHAPTER XXIII.

The Wall Across the Way.
It was dark when Rose reached. She had walked rapidly, mechanically ing familiar turns, cresting the long st the hill at a panting speed, rounding of where gushes of light revealed her dark, flitting figure, hurrying by simulations.

where gushes of light revealed and ark, flitting figure, hurrying by aims a run.

She was as oblivious to her surrous as Berny, left motionless on the park in this touched her. Such few troubles that known had been those of a she domestic life—the life of a cherished whose dainty self-respect had never blurred by a coarse breath. Now had this horrible revelation. It shook the this horrible revelation. It shook the lides had lived in like an early lides and the seen her father rough and bruill as to Gene, but that was a different the to Gene, but that was a different when the father's buying that wretched when the sum of the lides and buying the tweether sumption of jaunty bravado, its means usincess under the coating of powder rouge.

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PUBLISHERS'

in reading our real estate page this week be sure and notice the new ad of T. C. Cook. Lost Springs, Kan. Mr. Cook has some bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write ranging from \$45 to \$80 per acre. Wr and ask him for his big list of bargain-

A new real estate advertiser in this issue is T. E. Hale, Solomon, Kan. Mr. Hale has listed for sale lands in Saline and Dickinson counties. His improved farms range from \$45 to \$95 per acre, with cheaper lands in Caddo county, Okla. Write Mr. Hale about his list of farms.

head what the Fuller & Johnson Mfg. 393 North Ave., Madison, Wis. have y about the farm pump engine. This relightened, when it comes to you. Cut at the coupon and send for a catalog. Be are and mention Kansas Farmer when you

On page 20 of this issue will be found the advertisement of H. B. Glies, located at Emporia, Kan. Mr. Glies is offering 560 acres of land three miles from Galena at 140 per acre. All but a few acres of this is nice, tillable land. There is a good 7-room house on the place and all the buildings are in a good condition. Write Mr. Glies about this at Emporia.

In this issue Jones Bros. Mercantile Co., a Liberty St., Kansas City, Mo., give prices their shoes direct from the factory to their shoes direct from the factory to their shoes direct from the factory to their lease you. This company can save a money on rubber boots and shoes, rite for their large catalog. They will ly you boots rubbers and moses at wholesperices. Mention Kansas Parmer when

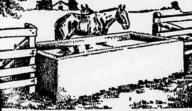
Stock Show and Salos.

Don't forget the big three days' show and sale of pure bred stock at Yates Center to be made by the Woodson County Breeders' Association on Sept. 23-30 and Oct. 1. There is no other organization like this anywhere and there will be no other stock show like the one at Yates Center. Two hundred and the the sale and the thing of the choicest hogs will also compete and all this without the giving of premiums or the charging of gate fee. Everything is free. Also a big show of horses and mules, sheep and poultry. It will be the big event in Southeast Kansas and nothing smaller than a State Fair will anywhere near approach it in magnitude or quality of exhibits. The afternoon of each day will be devoted to sales. 50 Angus and Herefords first day, 60 Shorthorns second day and 60 Duroc Jersey, Poland China and Berkshires the third day. Watch this paper next week for ad and full particulars and be show and sales.

W. R. Webb Writes:

W. R. Webb Writes:
"Had you forgotten that there is a fel-low over by Bendena, Kan., by the name

How to Cement Feeding Floors and Watering Troughs



Sunflower Portland Cement Sill Company Portland Cement mixed with clean broken rock, sand and water makes an artificial stone superior to any turned out in Nature's laboratory. Used by U.S. Gov. and careful builders in all kinds of concrete work from Seattle to New Orleans. Send for FREE bulletin on how A. L. Saylor made a concrete trough, feeding floor and hog dipping tank on his farm near Sylvia, Kansas. United Kansas Portland Cement Co. 813 Company Register 18 Sender 18 Send

813 Commerce Building, Kansas City, Mo.

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direct to you
o pay for
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one small profit. Send for
my big BOOK FREE.

Wm. Galloway. Pres. GALLOWAY quality speak for themselves are to be the sole judge. 5-H.-P. only\$119.80

Wm. Galloway, Pres. Wm. Galloway Co. 385 Galloway Station Waterloo, Iowa

of Webb who has some of the best big type Polands going? My pigs are doing fine considering dry weather, etc. I have sold fone of my young Expansion boars to head the good herd of Geo. Wedd' & Son of Spring Hill, Kan. Received \$100 for him and he is certainly the making of a great hog. I have just received a number of inquiries through Kansas Farmer. Just received one yesterday from Frank Rockfeller, Cleveland, O., through your paper. I am thinking of taking a trip up through Nebraska this week in search of a herd boar."

O. A. Tiller's Fine Durocs.
O. A. Tiller, proprietor of the Grandview Duroc Jersey herd located at Pawnee City, Neb., writes that he has recently purchased two very choice spring gilts sired by the noted Valley Chief. One is out of Minnie Advance by Proud Advance and the other out of Mary Belle by the prize winning boar Bell's Chief. Mr. Tiller has a fine lot of choice spring pigs of both sexes for sale that are as well bred as any in the land and he will price them reasonably. Look up the advertisement in this issue and write, mentioning Kansas Farmer.

The farmer who interests himself in clover and alfalfa is the one who is now looking so prosperous. "From Idaho to Italy" is a good thing for these farmers. the properous kind, to read. Have you read it?

Halderman's Polands.

John C. Halderman, the hustling Poland China breeder located at Burchard, Neb., writes that the pigs are coming along in fine shape. In the advertisement which appears in this issue he is offering to sell at moderate prices growthy pigs sired by Gold Metal, Hadley Boy, and Kleve Boy. Halderman also writes that he has bought a bunch of very fine Shorthorns from J. H. Walker, one of our good advertisers living at Lathrop, Mo. Write Mr. Halderman your wants and mention Kansas Farmer.

BOARS.
E. W. Melville, Eudora, Kan., Duke of Oakdale 2d, \$52.50.
J. M. Rogers, Beloit, Kan., Duke of Oakdale 2d, \$45.

E. W. Melville, Eudora, Kan., Duke of Oakdale 2d, \$52.50.

J. M. Rogers, Beloit, Kan., Duke of Oakdale 3d, \$45.

W. H. Rhodes, Manhattan, Kan., boar pig by Berryton Duke Jr., \$52.50.

G. A. Conklin, Los Animas, Colo., Kaw Valley Duke, \$37.50.

E. O. Chiles, Paola, Kan., boar pig by Berryton Duke Jr., \$50.

SOWS.

Kinloch Farm, Kirksville, Mo., Duchess of Oakdale 7th, \$40; Wakarusa Dimple 5th, \$37.50; Wakarusa Dimple 6th, \$40; Wakarusa Dimple 7th, \$22.50; Wakarusa Lee 3d. \$35; Wakarusa Lee 4th, \$35.

E. W. Melville, Lady Premier 82d, \$70.

John Roe, Vinland, Kan., Lady Perfection D., \$47.50; Wakarusa Dimple 3d, \$52.50.

W. K. Pickens, Livingston, Ala., Miss Royal Robin, \$62.50.

J. M. Nielson, Marysville, Kan., College Martha B., \$70.

W. H. Rhodes, Bacon Lee Girl 2d, \$20; Bacon Lee Girl 3d, \$35; Bacon Lee Girl 4th, \$42.50; Bacon Lee Girl 5th, \$42.50.

E. W. Leonard, Ottawa, Kan., Wakarusa Dimple B., \$50.

E. W. Leonard, Ottawa, Kan., Wakarusa Dimple 2d, \$50.

R. G. Brown, Minneapolis, Kan., Rutger Blossom C., \$23.50; Wakarusa Blossom, \$37.50; Wakarusa Blossom 2d, \$37.50.

A. L. Stanton, Lawrence, Kan., Wakarusa Lee 2d, \$15.

W. O. Knapp, Guthrie Center, Ia., Wakarusa Lee 2d, \$15.

W. O. Knapp, Guthrie Center, Ia., Wakarusa Lee 2d, \$15.

W. B. Sutton, Kansas City, Kan., Miss Duke 5th, \$35.

\$30.

W. B. Sutton, Kansas City, Kan., Miss Duke 5th, \$35.

Pennshurst Farm, Norba, Penn., Wakarusa Dimple 4th, \$50; Rutger Blossom

8th, \$50.
D. E. Hunt, Holton, Kan., Wakarusa Lee 6th, \$22.50. 6th, \$22.50.
Peter Dreher, Lawrence, Kan., Duke's
Queen 5th, \$52.50.
Aldora Farm, Whitehall, Ill., Lady Ivanhoe \$115.

IX <u>Goes the Limit</u> in Pumping!

Pumps 800 to 1,000 Gallons an Hour in Any Ordinary Well - Fits Any Ordinary Pump

Just take a good look at that slick little engine that's tugging away at the pump! It's the Farm Pump Engine—the latest marvel of this age of surprising inventions. An engine that is absolutely complete in itself—no cement foundation needed—no pump jack—no belts—no arms! It fills the watering troughs and tanks with pure, fresh water in unlimited abundance. And it fills the farmers with wonder because of its prodigious capacity and power. It works in even the deepest wells, and has never been known to "back down."

FULLER & JOHNSON Farm Pump Engine

A Record-Breaking Engine

rumps 800 to 1,000 gallons per hour from any ordinary well, and as high as 6,000 gallons per hour on a "short lift" of 20 feet. This amazing engine makes a business of pumping—but just for recreation it will run any sort of hand-power or foot-power machine. It likes to help the women folks by running the churn or cream separator or washer or ice cream freezer. It's glad to give the boys a lift by turning the grindstone or doing similar "chores." And it's tickled to death to be put to work at running the fanning mill, corn sheller, feed grinder, grain elevator, green bone cutter, sprayer, feed cutter, etc., etc.

This remarkable engine has played smash with the wind-mill business. It pumps at the rate of 31 to 35 strokes per minute—lifts half a ton each stroke! It's a "vertical" type engine—same as used in the highest class of automobiles. Self-cooling, without fans. Never gets "hot under the collar"—never freezes. Oils itself. Gears enclosed in dust-proof crankcase. Has a 4-inch pulley for running light machinery. By attaching a piece of ordinary pipe for extra air chamber, the Farm Pump Engine will throw a stream higher than a house, giving ample Fire Protection and affording a means of storing great volumes of water in reservoirs or tanks.

Solves Water Supply Problem for Farmers, Stockmen,

Solves Water Supply Problem for Farmers, Stockmen,

Bairymen The sales of Farm Pump Engines are
engine has ever attracted such widespread attention or received such a tremendous ovation. It's
the very thing most needed throughout the great
farming states, and every mail brings a deluge of
requests for catalogs and full information.

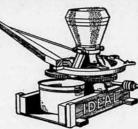
Send Coupon for Catalog! The second edition of the Catalog is now off the press. Send for it today. Got one of these "waterworks" going on your place at the earliest possible moment. Write for name of nearest Farm Pump Engine dealer.

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for information concerning Mill No. 15, which is four machines in one. We make Grinders for doing all kinds of grain grinding.

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Ash Grove Superfine PRICTICAL CEMENT EACTS This is the cement that will save you 20% of the amount of cement you will use. One reason is that it is ground 10% finer than any standard ground cement. The finer a cement, the stronger it is, the more and better work it will do. Learn all about it send for our book, "Practical Cement Facts,"

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FIELD NOTES

FIELD MEN.

.Topeka, Kan Jesse R. Johnson......Clay Center, Kan. .. Beloit, Kan.



PURE BRED STOCK SALES.

Perchetons.

Nov. 9—J. C. Robison, Towanda, Kan.

Nov. 11—Percheron Breeders' Sale at Manhattan, Kan. Will H. Rhodes, Manager.

Nov. 16, 17—Lakewood Farm, Rock Papids, Ia. Sale at Sioux City, Ia.

Nov. 30—M. L. Ayers, Shenandoan, Ia.

Dec. 9—W. L. Declow, Cedar Rapids, Ia.

Draft Horses.

Nov. 26. 27, 28—Percherons, Belgians, French Draft, Shires, Clydes, Trotters, at Bleomington, Hl. C. W. Hurt, manager, Arrowsmith, Ill.

Feb. 1, 2, 3, 4—Percherons, Belgians, French Draft, Shires, Clydes, Trotters, at Bloomington, Ill. C. W. Hurt, manager, Arrowsmith, Ill.

Jersey Cattle.

Sept. 30—Mrs. Wm. Brite, Pierce City, Mo. Oot. 1—Geo. W. Null, Odessa, Mo. Oet. 12—Kinloch Stock Farm, Kirksville, 15—C. A. Robinson, Kirksville, Mo. 28—A. R. Enos, Lost Springs, Kan.

Herefords. . Oct. 27—Miss Lou Goodwin's dispersion at
Blue Rapids. Chas. R. Thomas, manager,
Williamson Bldg., Kansas City, Mo.
Oct. 6—Sam'l Drybread, Elk City, Kan.
Nov. 12—Breeders' Sale Company, sale at
Bloomington, Rl. C. W. Hurt, manager,
Arrowsmith, Ill.
Nov. 16—Shawnee Breeders' Association, L.
L. Vrooman, manager, Topeka, Kan.
Shortherps.

Oct. 1—P. H. Greene, Latham, Kan.
Oct. 6—F. G. Nies & Son, Goddard, Kan
Nov. 9—Breeders' Sale Company, sale at
Bloomington, Ill. C. W. Hurt, manager,
Arrowsmith, Fil.
Nov. 17—Shawnee Breeders' Association, L.
L. Vrooman, manager, Topeka, Kan.
Nov. 10—Breeders' sale Company, sale at
Bloomington, Ill. C. W. Hurt, manager,
Arrowsmith, Ill.

Oct. 27—Sutton Farms, Chas. E. Sutton, ewaer, Lawrence, Kan.
Nev. 11—Breeders' Sale Company, sale at Bloomington, Ill. C. W. Hurt, manager, Arrowsmith, Ill.

Arrowsmith, Ill.

Poland Chinas.

Sept. 21—V. J. Bosh, Marion, Kan.

Sept. 23—J. R. Sparks, Hunner, Okla.

Oct. 1—Geo. W. Null, Odessa, Me.

Oct. 2—Herman Gronninger & Sons, Bendena, Kan.

Oct. 13—H. W. Griffiths, Clay Center, Kan.

Oct. 13—H. W. Griffiths, Clay Center, Kan.

Oct. 13—B. M. Bell, Beattle, Kan.

Oct. 20—Roy Johnston, South Mound, Kan.

Oct. 26—C. S. Nevius, Chiles, Kan.

Oct. 27—Geo. W. Smith, Pawnee City, Neb.

Oct. 29—J. H. Harter, Westmoreland, Kan.

Oct. 29—J. H. Harter, Westmoreland, Kan.

Oct. 30—J. H. Hamilton & Son, Guide linck, Neb.

Neb.

Nov. 2-3—Breeders' Sale Company, sale at
Bloomington, Ill. C. W. Hurt, manager,
Arrowsmith, Ill.

Nov. 3—J. W. Pelphrey & Sons, Humboldt,

Nov. 3—J. W. Pelphrey & Sons, Humboldt, Kan.
Nov. 3—H. S. Chapman & Sons, Pawnee City, Neb.
Nov. 3—J. W. Owens, Mill Grove, Mo.
Nov. 4—E. E. Axline, Oak Grove, Mo.
Nov. 4—H. S. Chapman & Sons, DuBois, Neb.
Nov. 5—The Mortons, Tampa, Kan.
Nov. 10—H. B. Walter, Effingham, Kan.
Jan. 19—H. O. Sbeldon, Wichita, Kan.
Feb. 2—F. G. Nies & Son, Goddard, Kan.
Feb. 15—D. A. Wolfersperger, Lindsay, Kan.
Feb. 15—D. A. Wolfersperger, Lindsay, Kan.
Feb. 16—J. H. Pilcher, Glasco, Kan, at
Concordia, Kan.
Feb. 16—J. H. Harter, Westmoreland, Kan.
Feb. 25—Chas. O. Parsons, Clearwater, Kan.
Feb. 25—Chas. O. Parsons, Clearwater, Kan.
Feb. 25—Chas. O. Parsons, Neb.
Peb. 25—Lee Gress, Nelson, Neb.
Barnard, Angus, Neb., at Nelson, Neb.

Barnard, Angus, Nelson, Nels, and John
Bureces.

Sept. 25 and Nov. 20—S. W. Alfred & Son, Sharon, Kan.
Oct. 27—Pearl H. Pagett, Beloit, Kan.
Oct. 30—W. H. Nicholson, Spring Hill, Kan.
Nov. 2-3—Breeders" Sale Company, sale at Bloomington, Ill. C. W. Hurt, manager, Arrowsmith, Ill..
Nov. 5—Miner & Cross, Guide Rock, Neb.
Nov. 5—Miner & Cross, Guide Rock, Neb.
Nov. 5—A. L. Atkin and W. W. Weast, Parsons, Kan.
Nov. 10—Sam'l Drybread, Elk City, Kan.
Jan. 31—J. E. Joines, Clyde, Kan.
Feb. 1—Pearl H. Pagett, Beloit, Kan., and R. G. Sollenbarger, Woodston, Kan. Combination sale at Concordia, Kan.
Feb. 2—E. M. Myers, Burr Oak, Kan.
Feb. 3—Rinehart & Slagle, Smith Center.
Kan.
Feb. 4—W. C. Whitney, Agra Kan.

Feb. 3—Rinehart & Siagle, Smith Center, Kan.
Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 7—Frank Elder, Green, Kan. Sale at Clay Center, Kan.
Feb. 8—Samuelson Bros., Manhattan, Kan.
Feb. 9—Samuelson Bros., Cleburne, Kan.
Feb. 9—Miner & Cross, Guide Rock, Neb.
at Superior, Neb.
Feb. 9—Miner & Cross, Guide Rock, Neb.
Feb. 10—Samuelson Bros., Blain, Kan.
Feb. 17—Thompson Bros., Garrison, Kan.
Feb. 18—T. E. Goethe, Leonardville, Kan.
Feb. 18—T. F. Goethe, Leonardville, Kan.
Feb. 22—Pearl H. Pagett, Beloit, Kan.
Feb. 23—F. G. McDowell, Corning, Kan.
Feb. 23—R. G. Sollenbarger, Woodston, Kan.
Berkshires.

Berkshires.

Oct. 12—Kinloch Farm, Kirksville, Mo.
Nov. 2-3—Breeders' Sale Company, sale at
Bleomington, Ill. C. W. Hurt, manager,
Arrowsmith, Ill.
Nov. 16—F. T. Hadachek, Wayne, Kan.
Feb. 15—F. T. Hadachek, Wayne, Kan.

Hampshire Swine.
ov. 2-3-Breeders, Sale Company, sale at
Bloomington, Ill. C. W. Hurt, manager,
Arrowsmith, IR.

Chester Whites.

Nov. 2-3—Breeders' Sale Company, sale at
Bloomington, Ill. C. W. Hurt, manager,
Arrowsmith, Ill.

Combination Sales.

Jept. 28 to Oct. 1—Woodson County Breeders' Association will sell: Aberdeen-Angus cattle, Sept. 29; Shorthorn cattle, Sept. 30; Durecs, Berkshires and Poland Chinas, Oct. 1. Write G. A. Laude, Secretary, at Ress. Kan. Oct. 1. Write G. A. Laude, Secretary, at Rese, Kan. Dec. 11-18—Enid Fine Stock Show and Sale, F. S. Kirk, Manager, Enid, Okla.

Feb. 16, 17, 12—Mitchell County Breeders'
Association, Beloit, Kan.
American Royal Sales.

Oct. 12—American Hereford Breeders Association, Kanss City, Mo.
International Sales.

Nev. 30—American Hereford Breeders Association, Chicago, III.

The farmer who interests himself in clover and alfalfa is the one who is now looking so prosperous. "From Idaho to Italy" is a good thing for these farmers, the properous kind, to read. Have you read it?

Ben Bell of Beattie, Kan., sold 10 pigs to the Kansas State Agricultural College, to be delivered this week, for the purpose of a feeding contest between the large and small type of Foland Chinas.

The bars have been thrown down and this year or the first time there will be a big exhibit of all kinds of farm machinery at the Interstate Live Stock and Horse Show in St. Joseph, Mo., the week of Sept.

F. H. Geiger of Everest, Kansas, has just bought a big steam plow, with six fourteeninch shares. This kind of thing is not unusual in the wheat belt, but this is the first purchase of the kind we have heard of in that part of Brown county.

Ex-President Roosevelt pronounces Lucille Mulhall the most wonderful horsewoman of the age. Miss Mulhall will be seen in exhibitions of broncho busting every afternoon of the Interstate Live Stock and Horse Show in St. Joseph, Mo., the week of Sept. 20-25.

Near Falls City, Neb., a drainage system on the Nemaha river, to cost \$250,000, will be constructed to reclaim the lowland farms from the annual overflows of the Nemaha river. Surveys of the proposed drainage district are now being made and the work of deepening the river bed and building levees will start soon.

The Bureau of Animal Industry has announced the withdrawal of its quarantine for cattle mange or scables from that portion of North Dakota lying south and west of the Missouri river. This took effect on Sept. 1. The Bureau also announces the modification of the quarantine for scables in sheep for the state of Kentucky, so as to admit of the immediate reshipment of interstate cargoes which have been unloaded within the state and which are free from this disease.

Report comes that six pigs of a bunch shipped to the Kansas City market by B. M. Elliott of Franklin county were selected by government officials of the animal industry bureau, with which to experiment for scientific purposes. The animals were picked out of a great number because of their particularly healthful appearance, to be innoculated with hog cholera virus in a test to determine the virtues of anti-toxin. To the astonishment of the experts the pigs proved to be immune—they were too healthy to take the cholera even under special treatment.

Our Latin Sisters on the South.

The wonderful development that is now going on in the Latin American republics—industrial; commercial, educational, and governmental—is set forth in a report by the International Bureau of the American Republics, just issued in the form of an "annual review," but so creditably as to entitle fit to be regarded as a treatise. A resume largely statistical is presented in an attractively readable manner, which cannot fail to draw a great interest, as is designed, on the part of the people of the United States as to what is going on among the sister nations of the New World. Director John Barrett, Bureau of American Republics, Washington, D. C., may rurnish copies of the Review. of the Review.

Autos in Farm Fire Fight.

The efficiency of the automobile and the rural telephone probably saved the farm house, wheat granaries and stock at the W. J. Sponster farm, says the News. A fire that started in meadows near the house burned four acres of hay land, but was extinguished after an hour's fire fighting babout fifty farmers. Mr. and Mrs. Sponster are spending a vacation in Colorado, after wheat harvest. A daughter noticed a blaze in the meadows shortly after supper. She hastily summoned neighbors for five miles around by use of the rural telephone. Many came in automobiles. Wheat sacks were soaked with water and used to extinguish the flames. Plows were brought into use to turn furrows some distance from the blaze to keep the fire from spreading.

Lover of Camp Life at State Fair.

Lover of Camp Life at State Fair. Fair managements everywhere should take a hint from the action of the Missouri state board in buying a larger tract of land adjoining the fair grounds, to be used as a free camping grounds by visitors to the annual exhibitions. The wisdom of Missouri's action has been demonstrated. Last year a large number of visitors took advantage of the opportunity for a pleasant outing and spent the week there, seeing the Fair in comfort and at a very moderate expense. A week of camp life will prove profitable and valuable to every person. Secretary Stinson says that for the coming exhibition, Oct. 2-8, there will be a largely increased number of tents on these camp grounds. A large tent and awning company will have number of tents on these camp grounds. A large tent and awning company will have headquarters on the Fair grounds, prepared to furnish any sort of a tent desired, also cots, at small cost, but prospective campers should bring blankets or comforts with them. The camp grounds are abundantly supplied with good water, food, and other living necessaries are delivered there.

Dry Farming Congress

Dry Farming Congress.

A dry farming congress is called to meet at Billings, Montana, Oct. 26 to 28. "To discuss and compare methods by which the great area of arid land can be profitably utilized. To encourage the use of methods by which, in districts where rainfall is slight, or irrigation water is limited, the actual productive acreage can be increased. To create closer co-operation between the government and state experts in charge of dry arming experimental work and the actual farmers of the arid districts. To enlarge the plans for carrying on a great educational propaganda by which, eventually, the arid districts of the entire world can be populated by prosperous and contented agriculturists. To encourage legislation looking to increased federal and state appropriations for the establishment of more experimental stations. To study methods and results of dry farming operations. Among the rules of the congress are the following: All farmers living where rainfall is less than 20 inches per annum, depending solely upon rainfall to grow and mature crops, are eligible to compete for premiums at this Dry Farming Congress.

Exhibits shall represent crops season of 1909, and shall not have been grown upon irrigated, sub-irrigated or seepage land.

Enos Visited.

The writer made his annual visit to the A. R. Enos home recently. Mr. Enos has his usual fine lot of pigs but not so many as usual. This year's crop are by Upper Crust and Mammoth Mike. This is the first crop by Mammoth Mike but he is certainly making good as a breeder. Phe pigs by him and out of Upper Crust and Commoner gilts are especially fine. Neosha Queen the dam of Mammoth Mike has a great litter by Upper Crust. Mr. Enos will hold his annuar rall sale Oct. 28. File application for catalog any time by writing Mr. Enos and mentioning Kansas Farmer.

Dietrich & Spaulding's Offering.
Dietrich & Spaulding, the well known Poland China breeders located at Ottawa, Kan., are offering, in this week's Kansas Farmer, 4 herd headers, 4 sows and glits, and 35 spring pigs. This offering includes 4 of the best boars that can be found in any one herd, and will be sure to please any one needing a boar. Their spring crop pigs has some great prospects for herd any one herd, and war any one needing a boar. Their spring of pigs has some great prospects for pigs has one great individually mhase pigs are individually platfield. or pigs has some great prospects for herd boars. These pigs are individually good and of the best breeding. Dietrich and Spaulding will show some of their herd boars at the State Wide Fair at Topeka this fall. Write these breeders for information and prices, mentioning Kansas Farmer.

Goethe's Good Durocs.

This week we start the advertisement of the wide-a-wake young and successful Duroc Jersey breeder, T. E. Goethe, of Leonard-ville, Kan. Mr. Goethe, it will be remembered, made the best Duroc Jersey bred sow sale held in Kansas last year, although it was his first public sale. This year's crop of pigs are by the great boars Attractive Chief, Big Crimson, Walnut Wonder and other good sires. The dams are by Ohio Chief, Kant Be Beat, Nebraska Wonder, Model Chief Again, and King of Col's 2nd. Mr. Goethe has culled the entire crop down to 25. They are strictly tops and will be priced worth the money. When writing please mention this paper.

Good Hereford Bulls.

This issue of Kansas Farmer contains the advertisement of W. L. Wood. Hereford breeder located at Strong City, Kan. The young bulls are all by Loyalty and range in age from 14 to 18 months. They are splendid individuals out of cows rich in the blood of the very best sires. In fact Mr. Wood has one of the best cow herds the writer has seen lately. The herd which was established something like 14 years ago now numbers about 1,000. Mr. Wood has bought liberally from nearly all of the very best breeders. Any one in need of a bull will certainly consult his best interests by getting in touch with Mr. Wood. When writing please say you saw the ad in Kansas Farmer. Good Hereford Bulls.

Durocs Grow in the Ozarks.

One of Missourl's good herds of Duroc Jerseys is owned and cared for by C. 1. Carter at Caboul, Mo. Mr. Carter is one of the most progressive young men in that section of the country. The herd consists of all the up-to-date and prize winning blood lines. There is Ohio Chief, Muncle Chier, Model Prince, King of Models, Inventor, Model Prince, King of Models, Inventor, King I Am Advance and Col. Carter. The herd sows are the type of big heavy bone, broad backed Durocs with plenty of quality. Mr. Carter has raised about 75 spring pigs. They are well grown out and look as near alike as peas from the same pod. For color and breeding with quality combined, you need not look any farther. If you need a good spring boar write Mr. Carter. He can supply your wants. Look up ad on another page. Mention Kansas Farmer when you write.

The farmer who interests himself in clover and alfalfa is the one who is now looking so prosperous. "From Idaho to Italy" is a good thing for these farmers, the properous kind, to read. Have you read it?

Reyal In Its New Home.

The eleventh annual Americann Royal Live Stock show, at the Kansas City stock yards October 11 to 16, will be notable for the christening of the new permanent home, now being erected for the show by the Kansas City Stock Yards company. This building will take the place of the big tents that have been used in past years for the judging events and parades of prize winners, and the night horse shows. It is being erected on the site previously occupled by these tents, at Nineteenth and Genessee streets, within the show grounds. The pavilion will have seats for about 7,000 people and a show ring or track 80x300 feet. Cattle and horses will be judged in their several classes in the ring during the day, and the horse show will be held in it at night. The building is 148 feet by 366 feet in depth and will be built of frame with outside walls, which are 20 feet high, of cement on steel lath. The roof, which is 45 feet in height in the center, will be carried on steel trusses spanning the show ring so that ft will contain no roof supports or other obstructions of any kind. The sale dates for cattle are: Angus, Tuesday, October 12: Herefords, Wednesday, October 13: Galloways, Thursday, October 14: Shorthorns, Friday, October 15. Sales of other classes of live stock, including range bred cattle and sheep, will be held during the week.

Amcoats Poland Chinas.

This week we start the advertisement of the Codar Lawn farm located at Clay Center, Kaan. S. B. Amcoats is the proprietor of this farm and he makes a specialty of breeding pure Shorthorns and Poland Chinas. Mr. Amcoats, is one of the most successful young farmers in his part of Kansas, and with his mother and sisters cwns and operates a beautiful well improved larm four miles east of Clay Center. The land is in a high state of cultivation and the buildings large, nicely arranged and allways in perfect repair. It is a real pleasure to visit the Amcoats home and see the fine stock, everything from the dog up shows its breeding. The Shorthorn herd was established about three years ago and pure bred Polands have had a piace on the farm for several years. Last winter Mr. Amcoats was a good buyer at many of the best sales held in the state, buying quite a variety of very choice breeding. He rather leans to the big type in hogs and bought this sort last winter. Among the good things purchased was Cinderilla stred by Hutch Jr., he by Big Hatch, one of the very best boars of recent years. Her dam was closely related to the extremely large boar. Logan B. She has raised a very fine early litter sired by the great nerd boar Orphan Chief. Two gilts of Sunshine breeding have nice litters by a good son of Pan Famo, one of the really good by boars of the Amcoats Poland Chinas.

state. Fannie by Just Look, he by Grang Look, has a nice litter by Priceless king 57545. The dam of Fannie is Garrison's great boar Gold Metal, a good sow and a granddaughter of the 1,100-pound Expansion. He has a litter by M's Perfection Several litters are by a good son of Billy U. S. 45993. Mr. Amcoats believes in culting very close and only saving the very best for breeding purposes so he has selected 15 of the very choicest boars and is advertising them in this issue. He will price them much lower than such stuff is ordinarily priced. He will also reil a few gilts. Write him and be assured of a correct description and an absolutely square deal if you buy. When writing please mention Kansas Farmer.

Nofsger's Polands.

This week we start the advertisement of R. Nofsger & Sons, of Du Bols, Neb. Their goed herd of strictly big type Poland Chinas was established about seven years ago. It is located eight miles east of Du Bols and seven miles northeast of Berne, Kan., on the Rock Island. The farm is a good one for the purpose for which it is being used. Plenty of water, shade and all kinds of Plenty of water, shade and all kinds of Plenty of water, shade and all kinds of Plenty of water. There is at present about 100 fine spring pigs sired by Young Hadley, a good son of Bid Hadley, Blain's Tecumseh 2d and Pilot Chief by Johnson's Chief. The dams are as fine a lot of son's can be found in any herd. They are daughters of such sires as Blain's Tecumseh 2d, King Do Do, Johnson's Chief and other big sires of the breed. Pairs or trios can be bought here that are not related and a herd started at very small cost. When writing please mention Kansas Farmer. R. Nofsger & Sons, of Du Bois, Neb. Their

Percheron Horses and Shorthorn Cattle For Sale. We wish to call the attention to Kansai

Farmer readers to the new advertisement of Geo. B. Ross of Alden, Rice county. Kan. Mr. Ross is widely known. He is a good judge and a careful stock buyer. The Ress stock farm adjoins the town of Alden, Rice county, Kan., on the main line of the A. T. & S. F. Ry. It would be worth any ones time to look over the good herd of Percherons and Shorthorn cattle. The farm is rich with American bred and imported Percherons. Among the attractions that are offered for sale are several nicely matched pairs of mares, blacks, bays and grays. They are the kind that please the cyc of the visitors and fit the bank account of the buyers. Mr. Ross invites all his friends and all lovers of really good Percherons to visit his exhibit at the Kansas State Fair, Hutchinson, Kan., Sept. 11 to 11. Very recently Mr. Ross added to his herd three matched pairs of imported mares and an imported stallion. The mares include a pair of four-year-olds. Bapair of four-year-olds. The four-year-olds weigh 3.400 pounds, the three-year-olds weigh 3.400 pounds on the two-year-olds weigh 3.2000 pounds. One of the four-year-olds weigh 3.2000 pounds. One of the four-year-old mares was the grand champion mare of the Mammere's show, in France, last season. The stallion is Habourg, a 1,900-pound two-year-old by the great champion stallion, Marselliais the highest priced service stallion in the French government stud. The dam of this great colt was the champion mare, Gentille, in Mammere's show. She was carrying the foal when she won her championship heros. These seven imported Percherons, a pair of nicely matched bay two-year-olds weighing 3,000 pounds, and a pair of god yearling fillies, will make up Mr. Ross show herd. These horses are all for sein fact, all the stock on Ross Farm is for sale. The entire herd of Shorthorn catternow owned by Mr. Ross is offered for sale at very attractive prices on account of seling his pasture and going more extensiver into the horse business. There are about 35 head of females, all reds and richly bred they are mostly o Farmer readers to the new advertisement of Geo. B. Ross of Alden, Rice county, Kan 35 head of females, all reds and richly ore. They are mostly one's, two's and three-years-old, and are from pure Scotch families and as well bred as you will find in asy herd. Write Mr. Ross your wants and you will find him a pleasing man to den! with and his word as good as a government head. You will make no mistake if you buy from Mr. Ross. Kindly mention Kansas Farmer when you write.

Three Masters of Three Ages. Each one of the last three centuries have

Each one of the last three centuries have had their compliment of a brilliant light is equestrian breeding science. Of naturally gifted and deeply informed artists in this the deepest and most complicated of all the animal breeding science, the world has been blessed with but few outside of the desert. The eighteenth century can boast of none greater than Count Alexis Orloff of Russia, who, though curtained in the nightfall of time, still lives to be better and better known to the world through his masterly creation of those matchless thoroughbreds. The Orloff Trotting and Coach Horses. Built on the immovable rock of Arabian blood, is sufficient guarantee that the Orloff horse, like his name, will endure to be most familiarly known to the world. It the year 1777, during the reign of Empress Catherine the Great of Russia, Count Alexis Orloff laid the foundation of two great breeds of horses—the trotter and the coach. He started by buying in the south of Greece a silver white Arabian stailien. Smetanka, for 60,000 roubles (assignats) which is equal to 1,714 pounds. Smetanks was of the Saclavi class, of the Koeland breed, and was a magnificent horse and very powerful; he was 2 archines, 21, vershoks high (15 hands, or 1 metre 5,240. He was used one season only at the stud and died in 1778, leaving only four colts and one filly. Smetanka had two ribs more than ordinary horses, as can be seen by his skeleton, which is still kept in the Orloff Museum. Count Orloff bred Smetanks, of England, and later the "Anglo-Arab's (of Arabian and Barb origin). Hence it plain to be seen that the Orloff, like all other breeds of horses, are of Arabian origin. Count Orloff never sold a stallion of the preds of horses, are of Arabian origin. Count Orloff never sold a stallion of the Orloff, daughter of its founder, consisting of 21 stallions and 194 brood mares of the Orloff stude of trotters and coach horses from the Countes and 112 brood mares of the Orloff stude of trotters and coach horses from the Countes and 112 brood mares of had their compliment of a brilliant light in equestrian breeding science. Of naturally

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Septembe

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T

e best exhibit of cattle, hogs, sheep horses of the fall season will be seen he Interstate Live Stock and Horse in St. Joseph the week of Sept. 20-25.

Hale, the hustling land man located lomon. Kan., starts an advertisement mass Farmer this week. He has a lot of improved farms located in the on and Smoky river valleys at from \$95 per acre. Write him.

the Robison Percherons at Hutchinson.
C. Robison will exhibit one of the best discording the percherons that has ever been will not any Fair in Kansas. We ask Kansas Farmer readers to visit the bison barn and inspect this great herd.

The Gilt Edge Stock Will Show Herd.
F. M. Giltner, owner of the Gilt Edge
Stock Farm, at Winffeld, Kan., will show
tow of his Poland Chinas at the Kansas
tate Fair at Hutchinson next week. Look
im up and inspect them for quality.

A. P. Wright's Herd at the State Fair.
P. Wright, of Valley Center, Kan., well known breeder or Poland Chinas, be at Hutchinson next week with bis herd. Don't fail to see the Wright when you attend the State Fair.

Voter Pigs For Sale.

If you are thinking of buying a choice bar or gilt sired by the great and only voter write A. & P. Schmitz of Alma, Kan. They have some good ones out of dams as richly bred as the breed affords. Mention Kansas Farmer when writing.

If you are in the market for a herd header better look up the ad of J. W. Ferguson. Route 1. Topeka, Kan. The young bear by Corrector 2d is a good one. His dam is a litter sister to the Grand Champion at Hutchinson last fall. His second dam is litter sister to the great Impudence. 1:eter write at once for information.

The Big Designer Kind.

With this issue C. S. Nevius of Chiles, Kan. starts a card for his large type Polands—the Designer kind, the kind of hog that grows big, the big broad backed, smooth coated, stretchy fellows that will please you. He now has 40 spring boars just right for fall service, that are extragoed and bred right from a big hog standpoint. Send in your order today and get your pick from the bunch. They are priced at \$25.00 and at this price they will not iast long. Don't fail to see C. S. Nevius's fine exhibit of Shorthorn cattle at the State Fair at Hutchinson next week. Don't fail to see Searchlight, one of the greatest young bulls in the state. Ask for Searchlight, the grand champion bull at Okiahoma Fair and Show at Enid, Okla., last April.

Shorthorns and Poland Chinas Oct. 6.

On Oct. 6, F. G. Nies & Son and J. H. Pruitt of Goddard, Kan., will hold a sale of Poland Chinas and Shorthorn cattle. The cattle are a useful lot of well bred cattle, mostly cows with calves at foot. They are in good condition and several of the cows are extra good milkers and will make the average purchaser money. Most of the cows have calves at foot and are bred again. In buying this kind of foundation stock it will soon build up a herd. The offering that Mr. Nies will put up will mostly be spring pigs, the get of Modern Monarch—all the breeders know Modern Monarch. He was sired by the great three state prize winner, Indiana, and his dam was Princess Vivian by Prince Elert. F. G. Nies has attended and been a good bidder at all the leading sales for the past two years and we earnestly hope that the breeders will return the compliment by coming to this sale and help make it one of the best of the season. Send your name early for a catalog and arrange to attend. We will say more about this sale later. Mention Kansas Farmer when you write. Shorthorns and Poland Chinas Oct. 6.

The farmer who interests himself in lover and alfalfa is the one who is now working so prosperous. "From Idaho to taly" is a good thing for these farmers. he properous kind, to read. Have you ead it?

Orloff Stallions at Topeka Fair.
Orloff trotter is a light harness horse The Orloff trotter is a light harness horse Russia and the breed was established Count Orlov in the last half of the

THE LARGEST AND BEST LINE OF

MACHINERY in America. We have been makling it for over 20 years. Do not buy until
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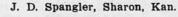
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Snap-Shop Among the Prominent Breeders---By Reid.







C. S. Nevius, Chiles, Kan.

STOCK AND **INTER-STATE LIVE** HORSE SHOW

South St. Joseph, Mo., September 20th to 25th, 1909 \$30,000 in Cash Prizes.

28 People - IGORROTE VILLAGE - 28 People Lucille Mulhall in Wild Steer Roping, Broncho Busting and Fancy Riding

Largest Exhibit Agricultural Implements ever seen on our Grounds. Racing each afternoon. Other Attractions too numerous to mention. National Horse Show each evening with Thursday and Saturday Matinees.

eighteenth century. The Orloff horses trace their ancestry to an Arab horse called Smetanka, imported from Greece in 1775 and bred to Danish and Dutch mares. The tendencies of the breed are somewhat mixea, giving rise to light and heavy trotters, with hairy fetlocks, sloping hips, and wedge-shaped heads. The prevailing colors are gray and black. The length of leg varies greatly within the breed, so that some are good trotters, while others are heavy harness horses. For this purpose a small number were imported into the United States in 1902. There will be a pair of Orloff stallions at the State Wide Fair at Topeka. Kan., from the Czar's stables at St. Petersburg, Russia. Be sure to see these stallions while seeing the fair.

Harriman Bros. Great Sale.

Six states were represented in the list of buyers at the dispersion sale of Shorthorns held Friday, Sept. 3, by Harriman Bros. at Pilot Grove, Mo. The sale was the most successful of any held since the Tebo Lawn dispersion. Forty-seven cattle sold for \$16,430, and average of \$349 per head. Twenty-six females sold for \$13,800, an average of \$372 per head. The bulls sold for \$2,630, an average of \$263. The top price was \$1,100, paid by Frank Melugin, Reeds, Mo., for the roan helfer, Golden Belle and cow calf, Frank Melugin, Reeds, Mo.; Hopkins & Carter, Mexico; C. W. Daugherty. Sedalia; L. A. Tompkins Warsaw, Mo.; C. S. Nevius Chiles Kan.; Geo. B. Ross, Alden, Kan.; June K. King & Son, Marshall, Mo., and the Allen Cattle Co. Husted, Colo., were were the heaviest buyers of good cattle. The herd bull New Goods, sold to Hopkins & Carter, Mexico, Mo., for \$795. The roan show bull, Good News sold to John Regier, Whitewater, Kan., for \$405. Following is report in full of representative sales: No.

1 New Goods, Hopkins & Carter, Mexico, Mo.
2 Lady Star, C. W. Daugherty, Sedalia, Mo.
3 Morning Star, H. A. Tompkins. 500.00 Golden Star, H. A. Tompkins. 500.00 Fecho, W. V. Adams, Boonville, Mo.
3 Golden Relis, Frank Melugin, Reeds, Mo.
4 Golden Star, G. and A. Harmeyer, West Point, Ia.
5 Golden Star, H. A. Tompkins. 500.00 Silver Star, G. and A. Harmeyer, West Point, Ia.
6 Golden Star, H. A. Tompkins. 500.00 Silver Star, G. and A. Harmeyer, West Point, Ia.
6 Golden Star, H. A. Tompkins. 500.00 Silver Star, G. Snevius.
6 Golden Relis, Frank Melugin, Reeds, Mo.
6 Golden Star, C. S. Nevius.
6 Golden St

12 Victoria Star, C. S. Nevius...

13 Messin Valentine, Hopkins & Carter.

14 Good Victoria, Frank Meiugin...

15 Golden Violet, G. & A. Harmeyer, West Point, Ia...

16 Lady Violet 2d, C. S. Nevius...

17 Imported Princess Thule 5th, C. S. Nevius...

18 Nonpariel of Tebo Lawn 4th, June K. King & Son, Marshall, Mo...

19 Nonpariel Goods, June K. King & Son

20 45th Dutchess of Glester, C. W. Daugherty

21 Pansy Blossom, Allen Cattle Co. 165.00 350.00 200.00 125.00 300.00 105.00

IOWA-FIRST OF GREAT FAIRS. (Continued from page 11.)

(Continued from page 11.)

Champion Cow Any Age: Buttonwood Glade, Jacob Marti, Lansing, Ia.

GUERNSEY.

Bull Three Years Old or Over: First, Lord Mar, W. W. Marsh, Waterloo, Ia.; second, Golden Ben, A. W. & F. E. Fox, Waukesha, Wis.

Bull Two Years and Under Three: First, Gratify, A. W. & F. E. Fox; second, Ruchbrooke Masher, W. B. Quarton.

Prof. H. G. Van Pelt, Judge.

Cow Three Years Old or Over: First, Duenna D. A. W. & F. E. Fox, Waukesha, Wis.; second, Glow of Rose Farm, W. W. Marsh, Waterloo, Ia.

Helfer Two Years Old and Under Three: First, Laura of Brook Hill, Howard Greene, Genesee Depot, Wis.; second, —, W. W. Marsh, Waterloo, Ia.

Helfer Two Years Old and Under Three: First, Laura of Brook Hill, Howard Greene, W. W. Marsh, Waterloo, Ia.

Helfer Calf Under One Year: First, Lottle M. Greene, Howard Greene; second, Bertha Q. of Oakwood, W. I., Quarton.

Champlon Stallion: Truman's Ploneer Stud Farm, Bushnell, Ill.

Champlon Mare: J. Crouch & Son, Lafayette, Ind.

Get of Stallion: First, H. G. McMillan & Sons, Rock Rapids, Ia.; second, Maasdam & Wheeler, Fairfield, Ia.

Produce of Mare: First, H. G. McMillan & Sons; second, Maasdam & Wheeler.

Grand Display: First, H. G. McMillan & Sons; second, Maasdam & Wheeler.

Best Five Stallion—Percheron Society Award—First, Robt. Burgess & Son; second, J. Crouch & Son.

Award—First, Robt. Burgess & Son; second, J. Crouch & Son. SPECIAI. PRIZES OFFERED BY THE PERCHERON SOCIETY OF AMERICA. Special A—Best American Bred Stallion—Any Age: First, Finch Bros. Joliet, Ill.; second, M. J. Nelson, Cambridge, ia. Special B—Best American Bred Mare, Any Age: First, Burgess & Son, Wenona, Ill.; second Finch Bros. Special S—Champion Stallion, Open Class: First, Burgess & Son; second, J. Crouch & Son, Lafayette, Ind.
Special D—Champion Mare, Open Class: First, J. Crouch & Son; second, H. G. McMillan & Son, Rock Rapids, Ia.
Special E—Best Five Stallions, Open Class: First, Burgess & Son; second, Crouch & Son.
Special E—Best Five Mares. Open Class: First, Burgess & Son; second, Crouch & Son.
Special E—Best Three Mares. Open Class:

Class: First, Burgess & Son;
Crouch & Son.
Special F—Best Three Mares, Open Class:
First, Burgess & Son; second, McMillan & 225.00

Son.
Special G—Best American Bred Five Stallions: First, Finch & Son; second, McMillan & Son.
Special H—Best American Bred Tigge Mares: First, Finch & Son; second, McMillan & Son.
"Best Stud" (stallion and four mares) any Age, Owned by Exhibitor: First, Burgess & Son; second, McMillan & Son.
Special J—"Best Stud" (stallion and four mares Any Age, Bred and Owned by Exhibitor: First, McMillan & Son.

Special K—Four Animals, Get of One Sire, Any Age: First, H. G. McMillan & Son, Rock Rapids, Ia.; second, H. G. McMillan &

NOCK Rapids, Ia.; second, H. G. McMillan & Son.

Special L—Two Animals, Produce of One Mare, Any Age: First, Finch Bros., Joliet, Ill.; second, McMillan & Son.

Special M—Best Stallion, Any Age, Bred and Owned By Exhibitor: First, Finch Bros.; second, McMillan & Son.

Special N—Best Mare, Any Age, Bred and Owned by Exhibitor: First, McMillan & Son; second, Burgess & Son, Menona, Ill. SPECIAL PRIZES OFFERED BY THE PERCHERON REGISTRY COMPANY.

Special A—Stallion Four Years Old and Over: First, Loualaba, Crawford & Griffin, Newton, Ia.; second, Acordeur, Crawford & Griffin, Newton, Ia.; second, Acordeur, Crawford & Griffin.

MORGANS.

MORGANS.

AMERICAN CARRIAGE HORSES.

George M. Rommel, Washington, D. C., judge.
Stallion Four Years Old and Over: First, Advance Guard, O. J. Mooers, Columbia, Mo.; second, Alexander Jester, Chas. C. Judy, Tallula, Ill.
Stallion Three Years and Under Four: First, No first premium; second, Amber King, Shaw Bros.
Stallion Two Years Old and Under Three: First, Admiral George Dewey, Dewey & Langley, Amboy, Ill.; second, Van Line, E. J. & M. D. Brouhard.
Stallion One Year and Under Two: First, Pear Admiral, Dewey & Langley; second, Will Tainer, E. J. & M. D. Brouchard.
Mare Four Years Old and Over: First, The Lavender Lady, O. J. Mooers, Columbin, Mo.: second Point Lare, O. J. Mooers, George M. Rommel, Washington, D. C.,

bia, Mo.; second Point Lare, O. J. Mooers.

When You Buy Catalpa

The price is not of such importance to you as it is to get Genuine Pure Speciosa, the big hardy kind. Our seed is inspected by U. S. Dept. of Agriculture Forest Service. Write for proof and prices. Also have fine line of trees of quality.

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ALFALFA HONEY, 1909 CROP.
Two cans, 120 pounds, \$8.50, single can
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PURE HONEY.

Extracted in cans of 60 lbs. net, amber \$7.80, whit \$9. Comb honey in one lb. sections. Send for price list. Nothing but genuine bees' honey. Reference Kansas Farmer. The Arkansas Valley Apiaries, CHEEK & WALLINGER,

Bargains in Farms, Ranches & City Property

320 ACRES CHOICE ROOKS COUNTY LAND, \$6,800.

Nearly all tiliable. Some in cultivation, 5 from station.

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Texas panhandle, covers 25 years, 32 pp., complete birdseye view and wall map Amarillo, 15,000 population, in heart of Panhandle, sent prepaid for 35c; clubs of four, 51. Order today—cdition limited. Mirror Publishing Co., Amarillo, Tex.

820 ACRES of extra good land, house of 14 rooms, a fine barn, and other good improvements. 2½ miles to town. One of Brown county's best. Enquire of R. A. HENRY,

The Real Estate Man,
H'nwathn, Kansas.

H'nwatha,

FOR SALE-480 acres in Custer Co., Neb. 30 acres alfalfa, fenced with woven wire, good buildings, all kinos fruit; 200 acres in outlivation, balance pasture and hay land. For further information address J. E. ALLAM, Grand Island, Neb.

LAND AT \$20 TO \$50 per a: in corn, alfalfa and stock country; 160 miles west of Kansas City; improved ranch, 560 a. \$25 per acre. You will be shown, will you look? Ask for list.

O. G. PIRTLE,

Wisley Kansas.

Kansas.

TWO GOOD BARGAINS.

TWO BIG BARGAINS IN KANSAS LAND.

240 acres smooth prairie land, 5 miles
from Dodge City; price \$18 per acre. 160
acres near Perry, Jefferson county, Kansas,
partly improved, price only \$40 per acre.
For information write

HALE & ENGLISH,

Dodge City,

Kansas.

160 ACRE farm bargain, 7 miles northeast of Ness City. Small frame house, 2 rooms, frame barn for 4 horses, hen house, small granary, good well and windmill, 76 acres in cultivation, 35 acres in wheat, one-fourth with place, 12 acres alfalfa. Land can be plowed, nearly level. 1 mile school. Price \$2,509. \$2,000 must be cash.

J. C. LOHNES & SON, Ness City, Kan.

THE BEST TOWN TO LIVE IN.

If you would like to live in the mest beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive where real estate values are low, but stuadily advancing, where living expenses are reasonable, a city with natural gas at lowest prices, address the Secretary of the Commercial Club, Topeka, Kan.

SOLOMON VALLEY LAND.

We have tarms for sale in Ottawa and adjoining counties, good upland improved, at from \$25 to \$60 per acre. Bottom land improved at from \$60 to \$125 per acre. You have not seen the best till you see the Solomon Valley.

Minneauclis,

Minneauclis,

FOR SALE OR TRADE—North Missouri farms; 240, 250, and 400 acre farms for cheaper Kansas impreved or unimproved lands. Write at once what you nave. G. T. KINSEY, Chillicothe, Missouri.

WHY NOT BUY LAND of the owner and save from \$5 to \$10 on the acre? Land of all descriptions from \$3.50 per acre up. Send for clicular or come and see us. G. N. DAVIS & CO., Cimarron, Gray Co., Kan.

1854 ACRE RANCH FOR SALE.

75 acres creek bottom in cultivation and alfalfa, balance limestone and pasture, creek water and timber, feed lots. A snap for \$16.00 per acre. For terms write Cedar Vale, Kan.

J. W. BRADSHAW,

The Land Man, of Hisrington, Kansas, is offering a section of land with two sets of improvements, 6 miles from Herington, for \$45 per acre. 200 acres in cultivation. A snap well worth \$50 per acre.

WASHINGTON COUNTY LAND FOR SALE.

160 acres, 4 miles from county seat, one mile to school, all fenced, one set improvements, orchard, well, 120 acres cultivated, 40 pasture. \$50 per acre; terms on half. W. J. GORDON, Wachington, Kan.

FARMS FOR SALE in South Missouri. I have several good farms for sale on easy payments from \$5 to \$10 an acre. Please write me for full particulars.

WILLIAM BOWEN,

Missouri.

TO FARM BUYERS.

160 acres Montgomery county, black rich lime stone soil, well improved, well fenced and cross fenced. 80 acres in cultivation, 80 acres fine grass. Good frame house, two barns, granary, and out buildings. Plenty of fine water, nice location. One mile from town, half mile to school. Price \$45 per acre, worth \$60. Age and sickness demands sale. Price \$45 per acts sale. slokness demands sale.
I. B. DAVIS & SON, Kansas.

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No farmer should think of buying a home before seeing a copy of THE FARM AND REAL ESTATE JOURNAL. It contains the largest list of farm lands, city property and stocks of goods of any paper published west of Chicago. It reaches 50,000 readers each issue, 85 per cent of whom are farmers. Every one who has any property they wish to advertise will find this Journal one of the best advertising premiums published. Advertising rates 2c per word each insertion. Send 75c and we will mail you the Journal for one year, or for 10c in silver or stamps we will send it for two months unless you renew your subscription. FARM AND REAL ESTATE JOHNAL. months unless you renew your subscription. FARM AND REAL ESTATE JOURNAL, Traer. lowa.



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For further information call on, or address.

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THE HEATH COMPANY, General Agents.

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LAND OPENING

Along Railroad in Montana **CONRAD-VALIER** Project

69 Miles North of Great Falls. 70,000 acres of irrigated land, segregated by the United States under the Carey Land Act, will be open to entry and settlement.

\$3.50 per acre down; balance in fifteen years' time This land will be allotted by drawing at Valier, Montana, a new railroad town, on Thursday, October 7, 1909.

You May Register for This Drawing by Power of Attorney.

If you do not take land after your number in drawn, it costs nothing.

Title Can be Acquired by Only 30 Days' Residence

There is no sage brush or stumps on this land which is ready for the plow. Reached over Great Northern or Burlington Railroads. For complete information and blanks, call on or address

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ROOKS COUNTY LAND

One Hundred Farms for sale. Write for lists.

C. H. DEWEY, -:- Stockton, Kan.

HOMES AND INVESTMENTS

in reach of all in a growing locality. For information write to

WINN REALTY CO.,

SALINE COUNTY.

160 acres in Saline county, 60 acres in cultivation, no other improvements, all fine pasture. Price \$20.00 acre. 240 acres Saline county, 80 in cultivation, all fenced, fair improvements, ½ mile school and church. \$25 per acre. WM. KINDT, Marquette, Kan.

OTTAWA COUNTY.

Before you look around better get our we list of farm lands. What have you to exchange?
GRIMES & STULL, Minneapolis, Kan.

GOOD UP TO DATE stock ranch, 800 a. cheap. 240 a. well improved, \$40 per a. 80 a. in good shape, \$3,700. Lots of cheap western land. nice little stock of furniture in good town for sale or trade. Sale date solicited. P. J. GEORGE, Wayne, Kan.

THIRTY MILES FROM KANSAS CITY

Well improved, 105 acres, 2 miles tows, ½ mile to school, \$2,000 cash, balance to suit at 5 per cent.

U. S. REALTY CO., Spring Hill, Johnson Co., Kansas.

GOOD HOME CHEAP—100 acres, 130 in cultivation, all fenced, 3 room house, barn, cow shed, poultry house, well and windmill, only 4 miles to R. R. where an elevator will be built this summer. Will take a small cash payment and give 5 years on balance. Price \$2,500. KIRBERG & MILLER, Ness City, Ness Co., Kan.

EASTERN KANSAS FARM BARGAIN—80 acres 2 miles Osage City, 55 a. in cultivation, 2 a. orchard, balance tame and wild grass pasture, 5 room house, good cellar, barn for 10 head of stock, granary, hen house, hog and cattle sheds, plenty of good water, ½ mile to school, R. F. D., and phone. Price \$45 per acre. For particulars write J. C. RAPP, Osage City, Kan.

Strictly modern, within 2 blocks, Main and Douglas. Wichita, Kan., all furnished in good shape. Price \$16,000. This property rents for \$125 per mo. \$5,000 against the place, runs for 5 years, 6 per cent. Will make the swellest rooming house in Kansas. MULLEN & BREKER, Room 15, Turner Bldg., Wichita, Kan.

560 ACRES, 3 miles Geneva, Anderson Co., about half cultivated, all but a few acres nice tillable land. Near school. Barn for 32 horses, cribs and granary. Good 7-room house, all buildings in good condition. Plenty of water and nice shade. Forced sale, \$40. H. B. GILES, Emporio, Kan.

SEE NESS COUNTY: 340 acres, 13 miles from Ness City and 3½ miles from station on new line of railroad, 4 room stone house, frame barn for 8 horses, cattle shed, 2 wells and windmills, all well fenced and cress fenced, 160 an cutivation, 100 acres of good alfalfa land, 10 acres in alfalfa, 40 rods to school, all smooth, price for short time, \$16 per acre. LOHNES & CASON, Ness City, Kan.

Every Man is Entitled to a Slice of This Good Old Earth.

Some Are Getting It; Some Are Not
Are you one that is not? You can get a
slice from \$10 to \$20 per acre in the wheat
belt, where they have fine soil, fine climate
and plenty of water if you will write TEED
& ORBISON, Jetmore, Kan. for their list
of farm lards. They have something good.

CAN'T BE BEAT.

Sixty acres, joins Anthony, rich, level, hance to make money. Lay out in blocks r build and have farm in town. Eighty dollars per acre.

Eighty acres, one mile of Anthony, six room house, barn, windmill, fine place. Eighty dollars per acre. Call or write

F. L. COLLINS, Real Estate Barber, Anthony, Kansas.

Wilson County Bargain.

160 acres of fine land, 6 room stone house and barn, never failing spring, 100 acres in cultivation, balance pasture and scres in cultivation, balance pasture and meadow, near school, church and on R. F. D. Natural gas on farm. Price \$30.00 per acre. Easy terms. Write

W T. DEWESSE, Neodesha.

217 Acre Farm Bargain

Three quarters of a mile southwest of Anadarko, Okla. One 5 room house with cave, cistern, well and windmill, barn for 20 horses including large hay-loft and nachinery shed. One hen house. One granary, capacity 3,000 bushels. 130 acres in cultivation, balance grass and timber, black sandy loam land, Joining Washita river, all fenced but 30 acres, fine for truck gardening, or alfalfa and corn. \$8,500 cash balance 2 years 7 per cent interest. The improvements consist of actual money expended \$4,500. To prove a bargain in this about one year ago 160 acres ½ a mile east of above land sold for \$43,000 being laid out for an addition to the city of Anadarko. Inquire

HENRY SCHAFER,

Oklahoma

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Have you read my list of GREENWOOD CO. FARMS? The best corn, alfalfa, clover, cattle and hog country in the west. Fine blue stem pastures. Write for list and prices to P. D. STOUGHTON, Madison,

BARGAINS in Kansas Lands. 400 a. Morris county, mile from station, 125 in cultivation, 2 sets of improvements, 855 per acre. Other farms of any number of acres in Dickinson, Marion, Klowa, Gove, Ford, Rush, Ness and Sherman counties at various prices, according to location. Lands booming prices advancing. ing prices advancing.
ROBT. SUTHERLAND, Herington, Kan.

SHARON VALLEY ALFALFA FARMS.

Choice corn and alfalfa farms for sale in Barber county, Kansas. Crop failures unknown. Write for particulars and list. Address

WILLIAM PALMER, Medicine Lodge, Kansas,

WEI.I. IMPROVED 334 acre farm. Jefferson Co., Kan., 2 miles station, 4 miles town of 1,500 population, 50 miles Kansas City, 50 miles St. Joseph, Mo., 24 miles Topeks; 220 acres dry bottom, fine for alfalfa; this is a snap at \$60 per acre, time on \$8,000, if desired. ADAMS BROS. & HAMM, Atchison. Kan.

A CLAY COUNTY SNAP—240 acres, 1 miles from Wakefield, 6 room house, cellar, cistern, cob house, hen house, barn for 11 head horses and cows, implement shed, hog sheds, well, wind mill, good water: 200 under cultivation, 40 pasture, 50 fine creek bottom, nice alfalfa field, hog tight, shade and water for hogs, balance nice laying upland. Must be sold soon. A bargain for some one. Write at once. Price \$13,500 J. C. WEAVER, Wakefield, Kan.

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Beautiful Smith Co. improved farm and 20,000 scres unimproved land in Comanche Co. now being surveyed and ready for settlement in a short time. Buy now at reasonable prices and terms. Double your money before long. Can use some good paper on approved securities as cash. Write me and do it now, for list, descriptions and prices.

CARL G. ANDERSON.

CARL G. ANDERSON, Kansa.

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MAKE \$1,000 PROFIT.

160 acres, good smooth land, 40 acres in cultivation, balance hay and pasture; one mile to R. R. town; 6-room house, barn, etc., good water, orchard, all fenced. Gees now for \$5,500; \$1,500 cash will handle. We guarantee this farm to be worth \$6.500 guarantee this farm to be w now. Get busy and see this.

MILLS REAL ESTATE AGENCY, Room 317, Barnes Building, Wichita, Kas.

160 Acres—\$50 Per A.

160 acres well improved, 100 acres in cultivation, 30 acres pasture, balance mor-land and timber, ½ mile from school of R. F. D., two good wells, creek runs of land. Price \$50 per acre. Write the owner

Box 315. Neodesha, Kan.

200 ACRE BOTTOM FARM FOR SALE CHEAP.

CHEAP.

100 acres now under cultivation and in tame grass, balance in pasture. 50 acres of which could be farmed. This is a darl laom soil that produces fine crops and does not overflow it has a very fine body of timber and everlasting water. A 5 room house, plenty of barn and shed room, good lots making it an ideal farm and stead lots making it an ideal farm and stead atown of 500 people and on a fine road. Price if sold soon \$40.00 per acre. For further information write or call on J. J. WILSON, Meron, Kan.

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a quick deal, list your trading property with us. We trade while the other fellow sleeps We have exchanges for land, merchaskie live stock, or anything of value. Try us. NEFF REALTY CO., Kansas.

Olathe,

To Sell or Trade for Land.

A nice clean stock of furniture, harness A nice clean stock of furniture, named and undertaking goods, also 1 store building, 2 apartments 40x42, 1 residence, new, 4 rooms. This is the only business of the kind in a live, little town in Greenwood Write or call on county.

G. K. JACKSON LAND CO., Eureka.

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Kansas