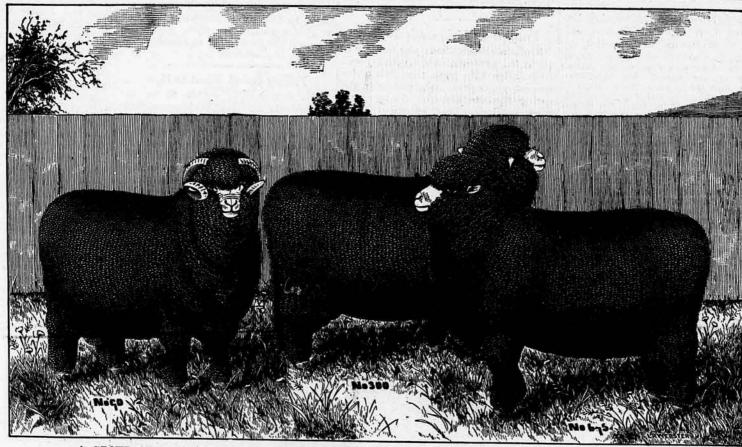
ESTABLISHED 1863. VOL. XXXII, No. 35.

TOPEKA, KANSAS, WEDNESDAY, AUGUST 29, 1894.

SIXTEEN TO TWENTY PAGES-\$1.00 A YEAR.



A GROUP OF DELAINE MERINO SHEEP, OWNED BY ALEX. TURNBULL & SON, CEDARVILLE, OHIO.

TABLE OF CONTENTS.

PAGE 2—THE STOCK INTEREST.—Unthreshed Wheat for Hogs. Prospects for Light Cattle Feeding. Feeding Soaked Wheat to Pigs. Cattle Feeding Machines. PAGE 3—AGRICULTURAL MATTERS—Agricultural Statistics. Thickening Up Alfalfa. Kaffir Corn. Cultivation of Small Grain. Manufacture of Sorghum Sirup. The National Farmers' Congress.

PAGE 4—IRRIGATION.—Profit in Irrigated Farms in Colorado. Who Will Deny? The Season Helpful in One Thing. Irrigation at Tribune. Alfalfa and Irrigation. PAGE 5—IRRIGATION (continued).—The Perfection Irrigation Pump....Our First-Page Illustration.....Family Doctor.—Irrigation vs. Health. Answers to Correspondents....Publishers' Paragraphs. PAGE 6—THE HOME CIRCLE.—The Pitcher of Tears (poem). When Baby Puts on Pants (poem). Abandoned Yan kee Farms. A Literary Feast. Strange Case of John Smith. Badly Tangled.

PAGE 7—THE YOUNG FOLKS.—Gardens (poem). Gold Tried in the Fire.

PAGE 8—EDITORIAL.—State Fair at Wichita. Needed Irrigation Legislation in Kansas. The New Tariff and the Manufacturers.

PAGE 9—EDITORIAL.—Physical Changes.
Winter Oats. Farmer's Account Book.
Weekly Weather-Crop Bulletin.
PAGE 10—HORICULTURE.—Drying
Peaches. The Kansas Currant.
PAGE 11—IN THE DAIRY.—The Bill Shaw
Miller Guerney Cover to Feet Sign.

Milker. Guernsey Cows as Economical Butter Producers. Good Butter...THE POULTRY YARD.—Early Moulting Hens. Poultry Notes. PAGE 12—Gossi Gossip About Stock. The Allen

County Fair.
PAGE 13—VETERINARIAN.... Horse Markets. Market Reports.

SHEEP.

BUCKEYE DELAINE SHEEP FARM.

We keep strictly to the Delaine sheep—wool on a mutton carcass—and we guarantee satisfaction in size and in quality of wool. Eighty rams and 100 ewes for sale at a low price, considering quality. Write at once to

ALEX. TURNBULL & SON.

BREEDERS' DIRECTORY.

Oards of four lines or less will be inserted in the Breeders' Directory for \$15 per year or \$8.00 for six months; each additional line, \$2.50 per year. A copy of the paper will be sent to the advertiser during the continuance of the card.

HORSES.

PROSPECT STOCK FARM.—Registered, imported and high-grade Clydesdale stallions and mares for sale cheap. Terms to suit purchaser. Thoroughbred Short-horn cattle for sale. Two miles west of Topeka, Sixth street road. H. W. McAfee, Topeka, Kas.

CATTLE.

ENGLISH RED POLLED CATTLE AND COTS-wold Sheep.—Young stock for sale, pure-bloods and grades. Your orders solicited. Address L. K. Haseltine, Dorchester, Green Co., Mo.

NEOSHO VALLEY HERD OF SHORT-HORNS.— Imported Buccaneer at head. Registered bulls, helfers and cows at bed-rock prices. D. P. Norton, Council Grove, Kas.

HOLSTEIN-FRIESIANS.—From this herd were furnished some of the winners at the World's Fair. Write for catalogue. M. E. MOORE, Cameron, Mo.

W. CHENEY, North Topeka, Kas., breed HOLSTEIN-FRIESIAN CATTLE. Farm four miles north of town.

VALLEY GROVE HERD OF SHORT-HORNS.— For sale, choice young bulls and heifers at rea-sonable prices. Call on or address Thos. P. Babst, Dover, Kas.

HOLSTEIN-FRIESIANS From this herd were furnished some of the wir ners at the World's Fair. Write for catalogue. M. E. MOORE, CAMERON, Mo.

CATTLE AND SWINE.

CHOICE Poland-Chinas J. H. TAYLOR, Pearl Kas

M. H. ALBERTY, Cherokee, Kas., Registered Hol-stein-Friesian cattle, Poland-China and Duroc-Jersey swine, Rose-comb Brown Leghorns. Stock of all ages and both sexes for sale. Orders booked now for pigs and eggs.

A SHLAND STOCK FARM HERD OF THORantee satisfaction in
Eighty rams and
ow price, considering
wiffer to second-prize yearling at Worlds Fair.
Individual merit and glit-edged pedigree my motto.
Cedarville, Ohio.

A SHLAND STOCK FARM HERD OF THORoughbred Poland-China hogs, Short-horn cattle
and Plymouth Rock chickens. Boars in service,
Admiral Chip No. 7910 and Abbottsford No. 28351,
full brother to second-prize yearling at Worlds Fair.
Individual merit and glit-edged pedigree my motto.
Inspection of herd and correspondence solicited.
M. C. Vansell, Muscotah, Atchison Co., Kas.

CATTLE AND SWINE.

M. IDLAND STOCK FARM.—F. M. Owens, Melvern, Ras., breeder of Galloway and Holstein cattle, Poland-China swine and thoroughbred poultry. Best of strains. Come, send or write.

SWINE.

V B. HOWEY, Box 103, Topeka, Kas., breeder and shipper of thoroughbred Poland-China and En-glish Berkshire swine and Silver-Laced Wyandotte chickens.

TOPEKA HERD OF LARGE BERKSHIRES.— Breeders strong-framed, growthy and prollific; eight to fourteen pigs to a litter this year. Boars and sows of all ages ready to ship. H. B. COWLES, Topeka, Kas.

DIETRICH & GENTRY, OTTAWA, KAS.—Our Poland-China spring pigs are sired by W. Z. Swallow's Ideal Black U.S. 2505 O., Guy Wilkes 3a 12131C., Pet's Osgood and the great Loyal Duke 29823 O. For choice pigs write us.

D. TROTT, Abilene, Kas.—Pedigreed Poland-Chi-nas and Duroc-Jerseys. Also M. B. Turkeys, Light Brahma, Plymouth Rock, S. Wyandotte chick-ens and R. Pekin ducks. Eggs. Of the best. Cheap.

A. W. THEMANSON, Wathens, Doniphan Co., Kansas.— Large Poland-China pigs sired by Early Sisson 11963 S. and other good boars. Write to-day. Mention KANSAS FARMER.

MAPLE GROVE HERD OF FANCY BRED PO-land-China swine. Also Light Brahma fowls. Owned by Wm. Plummer & Co., Osage City, Kas. Stock of all ages for sale at reasonable rates.

J. F. THOMAS, MAPLE CITY, KAS., breeder of POLAND-CHINA SWINE AND FINE POULTRY. Stock for sale cheap. Mention FARMER in writing.

OHIO IMPROVED CHESTER SWINE—Pure-bred and registered. Stock of all ages and both sexes for sale by H. S. Day, Dwight, Morris Co., Kas.

BERKSHIRES.—Wm. B. Sutton & Sons, Rutger Farm, Russell, Kansas. Choice February and March pigs. Young boars ready for service. Young sows bred. Good individuals and choicest breeding.

POULTRY.

HARRY T. FORBES—FINE S. C. BROWN LEG-express to any part of the United States. Address 701 Polk St., Topeka, Kas.

PURE-BRED LANGSHAN, BARRED PLYM outh Rock and S. C. B. Leghorn eggs, one dollar per thirteen. Address Robert Crow, Missouri Pa cific Railway Agent, Pomona, Kas.

A. B. DILLE & SONS, EDGERTON, KAS., breeders of choice B. P. Rocks, S. L. Wyandottes, Light Brahmas and M. B. turkeys. Chicken eggs \$1 to \$2 per 15; turkey eggs \$3 per 11. Satisfaction guaranteed.

POULTRY.

RIVERSIDE POULTRY YARDS—Have for sale M. B. Turkeys, S. L. Wyandottes, B. P. Rocks, S. C. White Leghorns, Brown Leghorns, Light Brahmas, Pekin ducks, and their eggs in season. Chick at all times. Lucille Randolph, Emporia, Kansas.

LUREKA POULTRY YARDS.—L. E. Pixley, Emporia, Kas., breeder of Plymouth Rocks, S. Wyandottes, Buff Cochins, B. and White Leghorns, B. Langshans, M.B. Turkeys and Pekin ducks. Chicks at all times. Eggs in season.

KAW VALLEY HERD FANCY POLAND-CHI-NAS—Of the most noted families, bred for feed-ing qualities as well as fancy points. Bebout's Tecumseh at head of herd. M. F. Tatman, Pro-prietor, Rossville, Kansas.

WHITE GUINEA FOWLS—\$2 each; eggs, \$1 per thirteen. Plymouth Rock Cockerels, \$2 each; eggs, \$1 per thirteen. White Holland Turkeys, \$3 each; eggs, \$2 per thirteen. MARK S. SALISBURY, Independence, Mo.

CATTLE.

SUNNY SLOPE FARM,

C. S. CROSS, Proprietor, Emporia, Kas. Breeder of pure-bred Herefords. Beau Real 11655 heads the herd. Young bulls and helfers for sale. Also for sale, Poland-China swine. Choice bred young boars and sows by the World's Fair prize-winner, Longfellow 29785; and Berkshire swine of the noted Duchess and Lady Lee strains of N. H. Gentry. Bismarck and General Lee, both Gentry bred boars, in service.

Brookdale Herd of Red Polled Cattle. Has won more prizes in 1892 and 1893 than any other herd out, including championship at six State fairs and World's Columbian Exposition on Iowa Davyson 10th 3149. His calves for sale. Write.

WM. MILLER'S SONS, Wayne, Neb.

SHORT-HORN CATTLE Poland-China Swine, Buff Cochin Fowls.

Inspection invited. E. L. KNAPP, Maple Hill, Kansas

SHANNON HILL STOCK FARM.

G. W. GLICK, ATCHISON, KAS.

Breeds and has for sale Bates and Bates-topped SHORT-HORNS. Waterloo, Kirklevington, Filbert, Cragg, Princess, Gwynne, Lady Jane and other fashionable families. The grand Bates bulls Waterloo Duke of Shannon Hill No. 89879 and Winsome Duke 11th 115,137 at head of herd. Choice young bulls for sale now. Visitors welcome. hoice young bulls for sale now. Visitors welcome Address W. L. CHAFFEE, Manager.

(Breeders' Directory continued on page 16.)

The Stock Interest.

THOROUGHBRED STOCK SALES.

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

SEPTEMBER 7-Bert Wise, Poland-China swine, Re-SEPTEMBER 7—Bert Wise, Poland-China swine, Reserve, Kas.

SEPTEMBER 19—W. H. Babcock, Poland - China swine, Hiawatha, Kas.

SEPTEMBER 27—June K. King, Berkshire swine, Marshall, Mo.

OCTOBER 2—C. C. Keyt, Short-horn cattle and Poland-Chinas, Verdon, Neb.

OCTOBER 3—W. H. Wren, Poland-China swine, Marion, Kas.

OCTOBER 4—J. A. Worley, Poland - China swine, Sabetha, Kas.

OCTOBER 4—J. M. Lail, Poland-China swine, Hiawatha, Kas.

OCTOBER 24—F. M. Lail, Poland-China swine, Marshall, Mo.

OCTOBER 24—J. B. Davis, Duroc-Jersey swine and cross-bred Short-horn and Red Polled cattle, Fairview, Kas.

NOVEMBER 7—Martin Meisenheimer, Poland-China swine, Hiawatha, Kas.

UNTHRESHED WHEAT FOR HOGS.

Prof. W. A. Henry, of the Wisconsin Experiment Station, sends to the Breeder's Gazette a valuable contribution to the wheat feeding discussion. He

says:
"The following very interesting let-ter from J. B. C., Mad River, Clark Co., O., is sent to me for comment:

"In the discussion of the feeding value of wheat for hogs why does no one advise feeding in the sheaf? My experience teaches that but a very small ration of threshed whole grain, either dry or soaked, is digested properly by hogs. To thresh and grind is an item of expense. I would suggest to farmers having surplus straw to try feeding fattening hogs wheat from the stack in the sheaf, scattered over a dry field or lot. It will not be eaten so fast and will be digested better. For best results they should be taken out at night to a small ration of corn. With the cows and pigs or stock hogs turned in to clean up the wheat after them there will be very little waste during dry weather.

"I claim for this plan that the 10 cents per bushel that it costs to thresh and grind is saved; that it is easier to feed a large number this way than to feed slop; that the straw is not wasted if properly distributed in feeding over a meadow or pasture field intended for corn next season, as it will be so broken up and scattered as to be readily plowed under in the spring, or if fed in the manure yard after the manure is drawn out they are bedded for the next crop of manure.

"I would like to ask Prof. Henry if the "In the discussion of the feeding value of

crop of manure.

"I would like to ask Prof. Henry if the portion of chaff eaten with the wheat is not likely to aid digestion.

"The foregoing is a valuable contribution to 'The Feeder's Corner,' and I am sure will be read with interest by scores of farmers at this time who are puzzling their heads over the perplexing problem of what to do with their wheat, corn (if they have any on hand or in prospect) and hogs.

"In the first place, let me say that I am in general strongly in favor of the scattered system of feeding hogs wherever it is practicable. To pile feed up in a trough is to invite the bolting of the feed, and that this occurs too often is shown by the number of reports we have had in 'The Feeder's Corner' from correspondents who state that wheat fed to hogs, even after soaking, comes through them still in the grain form, showing that much of it has been practically wasted. When whole corn passes through steers there is not necessarily much loss, for hogs can gather and use the softened grains, but such grains are certainly largely lost so far as the steer is concerned. We have no animals to follow up the hogs and so must be careful to prevent food materials passing through unutilized.

"We have all observed how industriously hogs work in the harvest field cattle are turned off annually not at e 53 bushels ground wheat, 45 bushes gleaners, and how well such animals enough corn will be raised to feed the els dry corn and 40 to 50 gallons per thrive where the scatterings are at all abundant. Every farmer has observed this year after year and knows that the feeding is out of the question, and feeding is out of the question, and pounds. I credit the milk with 450 when cut with the ordinary feeters.

Save the fodder and turn you into cash. Bright corn fodder pounds. I credit the milk with 450 into cash. hogs gain rapidly and that whatever chaff they may swallow at least does not hurt them. For one I confess that I do not know whether the hog really swallows much of the chaff or spits it out. We have not any grain at this time in shape to study this point. Can-not some of our boy readers of 'The Feeder's Corner' watch the hogs closely and settle this nice little point for us? I do not think the chaff has any feeding value with the hog, whose stomach can at best digest very little of such material.

"But we need not let the chaff question deter the feeding of the hogs in the way proposed if there are no other or more serious objections. The distribution of straw over a meadow or pasture lot is all right in many cases and the straw may as well rot there as of this pinch in money matters a year

in the barn yard, the only advantage of barn yard use being that the straw may serve as a sponge for soaking up liquid manure. Where one does not need it for this purpose nor for feeding, then it may well go at once as here suggested. This system gives the hogs considerable exercise, keeping them much of the time on their feet. For the first stages of fattening I believe this is not at all harmful; for the last stages perhaps there is too much exercise, but many farmers can use threshed wheat or corn, or a mixture of the two, to finish off on, keeping the hogs during that time in comparatively close confinement.

"We must cut the corners in our farming at every point possible. The saving of 10 cents a bushel in handling any better than feeders. a wheat crop is a large percentage of its whole value. I commend this letter as one full of suggestions worthy of thoughtful attention and most timely. Will not some of our farmers try this experiment and let us see if our correspondent's experience can be duplicated?"

Prospects for Light Cattle Feeding.

From all indications the number of cattle fed throughout the country will be smaller this year than last or for several years past. Since early in the spring the demand for feeders and stock cattle has been extremely light everywhere, and the number of young cattle turned to grass this summer with a view to finishing them off on corn during the coming fall and winter was comparatively small. The scarcity of money and favorable opportunities for investments in other directions

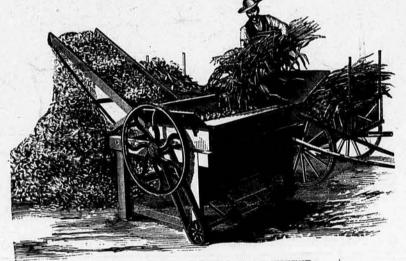
ago is causing much conservatism among feeders, although there is plenty of money in the country at present. (3) The general depression of business in all lines has discouraged and disheartened many who are generally ready to push business to the limit of their opportunities if there is any prospect of making a dollar or even coming out whole. (4) The dry. weather and short pastures have caused the marketing of numberless bunches of young cattle that would otherwise have been kept through the summer and finished off in the feed lots in the winter. A large proportion of the receipts at the fat stock markets for the past few months has con-

Other reasons might be assigned, but these are enough to show the prospects at present. There is time yet for changes to take place which may affect the situation somewhat, but from the present outlook the markets will not be over-supplied with good fat beeves next winter and spring. Those in position to feed advantageously may find as good a market for their corn crop through the feed lot as at the elevator. -National Stockman.

Feeding Soaked Wheat to Pigs.

Mr. Jediah Hill writes to an exchange, giving his experience in feed-

ing wheat to pigs. He says:
"I have been experimenting a little in wheat feeding this season, not with steers, but with pigs. Early in May I commenced feeding forty-two head of pigs, weighing about 84 pounds, giving them about all the wheat they would



THE PORTER CYLINDER FEED-CUTTER. Manufactured by E. A. PORTER & BROS., Bowling Green, Kentucky.

greatest reason for this, no doubt, but gallons per day of skim-milk and butfeeders as a rule seem to have but little termilk, and the run of a clover field. confidence in the cattle markets and The wheat was soaked until soft, and they backed their judgment by letting cattle alone. The drought and consequent light pastures was another good

reason for not stocking up heavily. July and August are the two months which generally find the heavy feeders in the great corn-producing States most active in laying in their supplies of feeding cattle. So far this year but little has been done in many of the best feeding districts. The failure of the corn crop has had much to do with the pigs having at that date reached the light investments in feeders, for in some sections where large numbers of the twenty-eight days following they probably much territory which furnishes a great deal of fat stock each year under ordinary circumstacesn will not be heard from this year for this reason.

There are various other reasons for predicting lighter feeding this year than usual. (1) The prices for corn, both present and prospective, are so much higher than the present prices for fat cattle that it takes a man of considerable courage to feed his grain with a view to getting more out of it than by marketing it. (2) A great many feeders had trouble last year in procuring money to handle cattle, and were forced in many instances to sacrifice their stock to pay their obligations which they calculated upon carrying as long as they desired. The influence

for those who had the cash was the eat up clean, in addition to about 50 very often had begun to sprout. Allowing the milk and grass to produce 15 pounds per day of gain, I had 12 to 13 pounds of gain for each bushel of wheat fed.

"Finding that considerable of the wheat passed through the pigs without being digested, I concluded to try having it ground. Commenced feeding ground wheat, in connection with skim-milk and dry corn, on June 21, an average weight of 138 pounds. In pounds, leaving 730 pounds to show for the 53 bushels wheat, or about 14 pounds per bushel. The pigs are not excessively fat, but plump, active and vigorous, and in splendid condition for future feeding."

Oattle Feeding Machines.

The Porter cylinder feed-cutter, made by E. A. Porter & Bros., Bowling Green, Ky., has proven by trial to be a first-class feed-cutter. The manufacturers claim that it cuts corn fodder with the ears on or off faster than one man will throw it into the cylinder by the large bundles without unbinding, or by the armful. Cuts sheaf oats as fast as a man can pitch the binds to machine by hand or with a pitchfork. Cuts ear corn as fast as two men can September 25 inclusive.

Leather

gets hard and old fast enough; to keep it new and soft, use

Vacuum Leather Oil.

It saves half the money spent for leather. It's food and life to leather.

25c. worth is a fair trial—and your money back if you want it—a swob with each can.
For pamphlet, free, "How TO TAKE CARE OF LEATHER," send to
VACUUM OIL CO., Rochester, N. Y.

feed it to machine with grain scoops. Cuts straw, hay, roots, etc.; in fact the machine has no equal, and is the most rapid, effective, complete and lasting feed-cutter ever made. A trial will not only convince you of these facts, but its use will prove to all that the feeding value of the corn crop is doubled if cut and shocked at the right stage -just when the husk is brown and before the blades are dried, and run through this machine, before feeding. Will prove that an acre of good bright corn fodder is worth more for feeding than an acre or two tons of the best timothy hay. Will prove to you, when you fail to save and utilize the stalks of your corn crop, that you have wasted half the feeding value of your corn crop. Will prove to you that you can do without hay, and winter or feed more stock than if an equal number of acres of meadow hay was used, thus releasing your hay for market. Will prove to you the correctness and value of the practical experiment made by Prof. Patterson, of the Maryland Agricultural Experiment Station, when he ascertained, after a practical test:
1. "All parts of the corn plant con-

tain valuable food material.

2. "The corn stalks and husks contain 60 per cent. of the total digestible matter produced by the plant.

3. "There is more digestible matter contained in the corn fodder from one acre than in the ears from one acre.

4. "The corn fodder from one acre yields as much digestible matter as two (2) tons of timothy hay.

5. "By cutting and crushing the corn stalks, cattle will eat nearly all of

6. "The butts and large part of the corn stalk contains a greater per cent. of digestible matter than the tops and blades.

7. "There is enough digestible matter produced by the corn fodder grown in the Southern States to winter all the live stock existing in those States, if it was properly preserved and pre-pared in a palatable form."

With a good crew of hands and a good power to machine, thirty to sixty acres of corn fodder, with ears on or off, can be run through the machine in a day, and at less expense than husking the corn from the stalks, requiring much less barn room to store the crop. Then, too, the feed is in the best shape and makes a complete ration for cattle. horses and sheep and but little trouble to feed. The large part or butts of the stalk is cut into suitable lengths and then torn to pieces or shredded, make ing it a soft and palatable feed, the stock consuming the entire stalk, and the stock do not reject this, the most nutritious part of the stalk, as they do when cut with the ordinary feed-cut-

Save the fodder and turn your hay ter and cheaper food for cattle, horse and sheep than hay. The market value of two tons of timothy hay is, therefore, the money value of the acre of corn fodder that can and ought to be saved for feeding on the farm.

Five World Beaters. "SICKLES" BRAND HARNESS. "Trade Mark." Made in five styles at \$6.50, \$9.00 \$10.00, \$15.00 and \$25.00 per set complete. The best harness for the money on the market. As your harness dealer for them. Manufactured only by J. B. Sickles Saddlery Co., St. Louis, Mo.

G. A. R. National Encampment.

Begins at Pittsburg, September 10. Low fare over Vandalia & Pennsylvania Short Lines from September 5 to 10, inclusive Connecting lines in West will sell reduced rate tickets over these direct routes St. Louis or Chicago, good returning unt

Agricultural Matters.

AGRICULTURAL STATISTICS.

Ohio stands at the head of the list of States for having the largest number farms, 251,430; Illinois comes second,

with 240,681; Missouri third, with 238, 043; Texas fourth, with 228,126; New York fifth, with 226,223; Iowa sixth, with 201,903, and Kansas seventh, with 166,617. In the amount of area under cultivation, however, Illinois comes first, with 25,669,060 acres; Iowa second, with 25,428,899; then Kansas, with 22,303,301; Texas, 20,746,215; Missouri, 19,792,313; Ohio, 18,338,814, and New York, 16,389,380 acres.

The returns of the census bureau furnish a surprise in respect to the amount of unimproved farm land in the Eastern and Southern States as compared with those of the West and Northwest. It is a very remarkable thing that less than half the farm land in Maine and New Hampshire is under cultivation, while in Massachusetts 1,341,258 acres are uncultivated and only 1,656,024 are cultivated. Taking the entire north Atlantic States, from Maine to Pennsylvania, the total area of farm lands is 62,743,525 acres, of which nearly one-third is idle, while in the Middle and Northwestern States -that is, from Ohio to Dakota in one direction and to Kansas in the otherthe proportion of uncultivated land is very much smaller. In none of the States in that section does the uncultivated area bear so great a proportion to the cultivated as in New England.

In the south Atlantic States there are 100,000,000 acres of land in farms, of which 42,000,000 acres are cultivated and 58,000,000 acres idle. Delaware and Maryland have very little waste land, but in Virginia there are 1,000,-000 acres less of improved than of unimproved. In West Virginia the proportion is about the same. North Carolina the unimproved property is double the area of the improved. In South Carolina of a total area of 13,000,000 acres, 5,000,000 are improved and 8,000,000 unimproved. In Georgia of a total of 25,000,000 acres, 9,500,000 acres are improved and 15,500,000 acres unimproved. A similar proportion exists in Florida. In Illinois there are 30,000,000 acres of farming lands, of which 4,000,000 acres are idle. There is a much larger proportion of unimproved land in North Carolina, South Carolina, Georgia, Alabama, Mississippi and Louisiana than there is in Texas, which will surprise people.

Illinois stands at the head of the list in the value of her farm property, which amounts to \$1,262,870,587. Ohio comes second with a valuation of \$1,050,031,838; New York third, with \$968,127,286; Pennsylvania fourth, with \$922,240,233, and Iowa fifth, with \$857.-581,022. But when you come to fancy farming and fine equipment in the way of implements and machinery, New York State heads the list, with Pennsylvania second, Iowa third, Illinois fourth, Ohio fifth, and then Michigan, Indiana, Missouri, Wisconsin, Kansas, Minnesota, Nebraska, Idaho and California, in order.

The farming lands in Illinois are worth more than all the south Atlantic States from Delaware to Florida, and coast States combined. They are worth nearly as much as all the southern central States combined, including Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma and Arkansas.

The farmers of Illinois have more money invested in farming implements and machinery than all the south Atlantic States and all the Rocky mountain and Pacific coast States combined. In the value of farm products Illinois stands first, \$184,759,013; New York second, \$161,593,009; then Iowa, \$159,-347,844; Ohio, \$133,232,498, and Pennsylvania, \$121,328,348.

Thickening Up Alfalfa.

I have tried successfully the sowing of alfalfa and barley on poor stands before the rain comes in the fall, then harrowing well with a sharp harrow to cover the seed with dust or put in cracks, or low places in the ground, to and am not afraid to sow all at that superphosphate with care, since too the good work of the congress.

The press generally are requested to publish the above notice, and further the good work of the congress.

come up with the first rains. The distance, though I have tried it only barley keeps down the foxtail and weeds, and being sown so early the crop of alfalfa and barley will be taken off before the moisture has gone out of the land, and it will be likely to thicken your stand of alfalfa, besides yielding a good cutting of hay.

Nothing has ever paid me better returns than this plan. Last year and this I have had fine crops, and my stands are much improved. About twelve pounds of seed per acre is When the crop is cut it should be put in stack as soon as possible, even if it be necessary to roll over the shocks in the morning to dry the bottoms before stacking. To my mind nothing shows such bad results as allowing hay of any kind to stand in the field to bleach and shrink in weight and lose its nutritive qualities and value. I believe hay will lose onefourth of its weight by standing in the field as we often see it, besides it militates against its selling qualities.—B. Walton, in Rural Californian.

Kaffir Corn.

EDITOR KANSAS FARMER:-If our after-thought could only be brought into play, we might make some changes in our program. If we had known that we were going to have such a "scorcher" as this season has been, we could have planted Kaffir corn instead of Indian corn and got it in early enough to ripen by this time. We have raised it for two years but have not given it a fair test, as we did not have the facilities for planting. We either got too thick or too thin.

I met a gentleman, some time ago, from the western part of the State, who said he used his header to take the tops off, and run it about three feet high. I think that would do very well if there is plenty of store-room. It is not a very slow process to take the seed off with a knife and gather in a sled narrow enough to run between the rows. In that way two pickings may be made and nothing but the heads saved, taking care to have a circulation around it to cure it.

The fodder is good for all kinds of stock. We cut with a low corn-cutting sled, laying an armful down on the row and another across and then stand the rest around it. There will be scarcely

This has been a season of disappointment. The yield of wheat was very much greater than was expected. Oats cut short by the freezing; the corn ruined by hot, dry weather. Some of our people have been feeding wheat with very favorable results.

D. W. KINGSLEY. Independence, Kas.

Cultivation of Small Grain.

I have learned by trying many experiments that harrowing wheat, barley and oats, after they come up, has been a benefit to the crop in almost all cases where I have tried it.

Harrowing often makes the crop look badly at first, but in the end the grain is thicker, the yield better and only a few days later.

I have harrowed almost all of my wheat, barley and oats on my home farm this year.

If deeply harrowed when the ground is very dry, I think the grain would be all the Rocky mountain and Pacific damaged. If harrowed in a very dry season, when the surface soil is fine, the dirt of course would be liable to drift in this Red river valley. Harrowing the progress of the precipitation, will might be done after the grain is of sufficient height to break the force of the wind at the surface, but I feel quite sure that early harrowing is much better for the crop.

When the grain is large the weeds are also large, and the harrow will not affect them much.

I have tried late harrowing, but it seems to neither help nor hurt the

I think I will make a cultivator to pare the surface between twelve-inch rows. To cultivate in that manner would kill the weeds, even though done late, and would probably help the crop, and also benefit the land. I am nearly sure that wheat in rows twelve inches

on small pieces. This year I harrowed mostly with a harrow made the width of the drill, having slanting teeth rounded at the ends to prevent cutting the grain while turning it on the piece; and worked the land between the six-inch rows, but some in different places, harrowed with a common fourhorse harrow with upright teeth, working without regard to rows, was the best. I harrowed the most of it three times, but once with a common harrow would probably have stirred the scil as much and saved expense.

Many farmers in this vicinity have harrowed wheat this year and report good results, and I presume they will harrow much more in future.

They used the common drag, working without regard to rows.

There have been failures, but I am satisfied that, if properly done, cultivation of the small grains will be of as much advantage as the cultivation of corn, potatoes, beans, etc.

A. L. Wentworth & Son have a piece of very heavy barley, which they sowed in rows eighteen inches apart and hand-hoed once.

I judge it will yield three times as much as any other piece which I have seen. They think the extra growth was caused by the hoeing, the land not being better than an average.—L. S. Safford, in Northwestern Farmer.

Manufacture of Sorghum Sirup.

The production of sorghum sirup of good quality, free from many of the objectionable features of this product as ordinarily made, requires a considerable degree of skill on the part of the workmen. In order to answer inquiries along this line the United States Department of Agriculture has issued a circular giving the method adopted by Prof. A. A. Denton, of Sterling, Kas., under whose direction the experiments were conducted.

According to his method the cold juice, as it comes from the mill, is treated with sufficient cream of lime to render slightly alkaline. Blue and red litmus papers, which can be procured from dealers in chemicals or from druggists, are employed in making the tests for alkalinity and acidity. The blue paper is reddened by an acid juice and the red paper is blued by an alkaline solution. If no red paper is at hand it may be prepared by dipping the blue paper in unlimed juice. If sufficient lime has been added, the precipitate formed will settle to the bottom of the tank, leaving the liquid clear and bright. Mr. Denton says that a test sample should be examined in a narrow white glass bottle, or in a test tube, in order to note the effect of the lime. A little experience gained by a few trials will enable any one to judge with reasonable certainty the quantity of lime required. A considerable excess of lime will increase the expense of manufacture in the subsequent stages without corresponding advantages.

The addition of clay is recommended to facilitate the settling of impurities. Coarse-grained clays subside so rapidly they do not carry down the impurities. Fine clays subside too slowly. Yellow or brown clays are considered best, being much superior to fine clays, the pure white, the blue, gumbo or waxy clay. The clay is added to the juice in the form of a smooth, thin batter. Experiments on a small scale, using small round bottles to permit observations of soon give one the necessary experience. For the sake of economy as little lime and clay should be used as is consistent with good work.

When the lime and clay precipitate has thoroughly settled, the clear juice should be carefully drawn off and heated nearly to the boiling point, then sufficient superphosphate of lime should be added to render it distinctly acid. This point is determened by the use of blue litmus paper, which turns red in an acid solution. A distinct change in the paper from blue should be considered an indication of sufficient superphosphate. About one gallon of super-phosphate of lime (concentrated) is sufficient for from 400 to 500 gallons of



great an excess will result in s sirup of disagreeable taste. After permitting the precipitate formed in the above process to settle, draw off the clear juice and rapidly concentrate it in a suitable evaporator.

The sediment from the treatment with lime and clay and that formed by the addition of the superphosphate should be mixed, a quantity of water added and the whole thoroughly agitated. Settle and decant as before. The clear liquid should be added to the fresh juices coming from the mill, and the sediment rejected. After the sirup has been evaporated to a suitable density, it should be rapidly cooled, but not barrelled until it reaches the ordinary temperature of air. It is claimed that if these principles are observed, care, attention and experience on the part of the maker will give a good article of

The National Farmers' Congress.

The fourteenth annual meeting of National Farmers' Congress will be held at Parkersburg, W. Va., October 3-6 next (both dates inclusive). The congress is composed of delegates. Each State and Territory is entitled to as many delegates as it has United States Senators and Congressmen, and each State bureau of agriculture is entitled to a delegate. In the meetings held for many years, more than thirty-five States and Territories were represented by duly appointed and properly accredited delegates.

The National Farmers' Congress, while instituted to discuss all economical and social questions affecting the farmer, is strictly non-political. This feature has been strictly observed.

At a meeting of the Executive committee in Chicago, attended by the President of the congress, B. F. Clayton, of Indianola, Iowa; Major W. G. Whidby, Atlanta, Ga.; John M. Stahl, Quincy, Ill.; Dennis Kenyon, McLean, Ill.; D. C. Waggoner, Chicago, and Henry Hayden, Indianola, Iowa, the following ledies and graphlemen. following ladies and gentlemen were selected as speakers at the meeting in October next, viz.: W. B. Powell, Pennsylvania; John S. Cunningham, North Carolina; William Lawrence, Ohio; H. C. Brown, Georgia; Mrs. B. E. Thompson, Michigan; T. J. Appleyard, Florida; Mrs. M. M. Coad, Nebraska; Hon. Hector D. Lane, Alabama; Mrs. C. B. Foley, Illinois; Prof. G. A. Stockwell, Rhode Island; J. S. Slaughter, Tennessee; Mrs. M. G. Rockhill, California; Jeff. D. Welborn, Sr., Texas.

It is desired that each State and Territory be fully represented. It will afford pleasure to any of the officers of the congress to give any information desired about the congress.

The officers are: President, B. F. Clayton, Indianola, Iowa; Vice President, G. M. Ryals, Savannah, Ga.; Secretary, John M. Stahl, Quincy, Ill.; Treasurer, Henry Hayden, Indianola, Iowa; First Assistant Secretary, W. G. Whidby, Atlanta, Ga.; Second Assistant Secretary, T. J. Appleyard, Sanford, Fla. B. F. CLAYTON, J. M. STAHL, President.

Irrigation.

PROFIT IN IRRIGATED FARMS IN COLORADA.

EDITOR KANSAS FARMER:-On account of the fertility of the soil, the superiority of the climate and the great advantages of irrigation, Colorado, as well as western Kansas, is peculiarly adapted for the successful operation of small and medium-sized farms, if conducted by men of intelligence, experience and enterprise, and there is perhaps no greater opportunity for this class of farming in any State in the Union than at present exists in Colorado. Over \$5,000,000 is annually sent out from Colorado to other States for the purchase of small farm products which this State could and should pro-

The soil of Colorado ranges from light sandy loam to the deep alluvial. A large percentage of the soils are of scoriac origin, rich, productive and easily worked. They are suitable for the crops of all the Eastern States and for many of the crops of the States north and south. No better climate exists for agriculture in its various forms. The freezing of winter is suffi-cient to secure a mellow, clodless soil for spring plowing and planting. The springs are usually early, with usually sufficient precipitation to germinate all crops without irrigation. Under the influence of perfect summer days, coupled with the superior benefits of irrigation, the growing crops are forced to early and complete maturity. The characteristic mildness of late autumn weather gives exceptional opportunities for the harvest of root crops and the last cutting of alfalfa, while the splendid winter weather affords excellent conditions for stock feeding.

Irrigation is of great advantage because of its positive security against drought. The water, with its rich mineral ingredients may be applied in proper quantities when needed, insuring thereby successul crops. Farmers unaccustomed to irrigation readily acquire a practical knowledge of it and infinitely prefer it to dependence on natural rainfall to which they have

previously been accustomed. lives in cities and towns of the plains, more than one-fourth in mining districts, furnishing a good home market for the products of the less than onefourth living in rural districts. As a matter of fact, Colorado is annually sending to other States about \$1,000,000 for dairy products, \$1,500,000 for pork supplies, over \$1,000,000 for poultry produce and considerably over \$1,000,-000 for fruits, all of which ought to be

There is a growing public sentiment on the part of the citizens of Colorado to give the preference in their purchases to Colorado products, not only to encourage home industries but because of their superior quality. DAIRYING.

While dairying is annually growing in importance, the creameries and cheese factories throughout the State have often more local orders than they can supply. The fact is there are not nearly enough milch cows in the State to supply the home market for dairy

quently making money; others, who sell milk to the creameries, keep cows which do not yield above eight quarts per day and do not milk some of their stock to exceed three months in the year, in fact, they are simply range stock producing calves and some milk. The creameries pay an average price the year round of 85 cents per hundred pounds for fresh milk, and keep only the separated cream. The cheese factories pay about 8 cents per hundred pounds more than the creameries and return the whey to the farmers. The average annual wholesale price of Colorado creamery butter is 28 cents a pound. There is a State law against oleo and a State Dairy Commissioner to see to its enforcement. If more cows were kept in Colorado and more

butter and cheese made, the by-prod-

ucts would result in a greater number

Colorado would no longer, as now, send \$750,000 per annum to other States for live hogs and an additional \$750,000 for hog products.

FRUIT-RAISING AND MARKET GAR-

Colorado does not yet produce more than 20 per cent. of the fruit it consumes, and notwithstanding the great increase during recent years of the area planted to fruit, principally orchards, it is not at all likely that the supply will equal the home demand for many years to come. Taking the averages of crops and prices actually obtained during 1893, as reported by the Denver Fruit-Growers' Association, the following were the money yields to the acre for small fruits and vegetables: Strawberries, \$350; blackberries, \$600; raspberries, \$400; currants, \$500; onions, \$200; celery, \$450; cabbage, \$100. The establishment of more fruit preserving factories will increase the demand for small fruits. As to tomatoes, the average yield to the acre is ten tons and the canning factories pay 50 cents per hundred pounds, or \$100 an acre, but as a matter of fact, the great bulk of the crop is sold at much higher prices in the retail markets and only the surplus taken to the canning factories, which, however, put up annually considerably over 1,000 tons, besides large quantities of peas, beans, pumpkins, etc., while the pickle factories put up hundreds of tons of cucumbers, cauliflower, onions and the like. A factory recently paid \$1,500 to one grower for three acres of pickling onions. Similar interesting particulars could be given did space permit, of the returns, ranging from \$200 to \$1,000 an acre, from orchards, according to age. POULTRY FARMING.

As an adjunct to a small Colorado farm, there is no industry that will yield a more profitable return on the capital invested than poultry. Colorado is now sending other States over \$1,000,000 a year for eggs and table poultry, but the people of the State are steadily awaking to the fact that it is really cheaper to pay a higher price for home-raised eggs and fowls than for inferior imported eggs and poultry. Near the cities, poultry farmers get from private customers as high as 25 cents a dozen the year round, and from One-half the population of Colorado 10 to 15 cents more than the average store price for fowl.

PRICE OF LAND.

From the foregoing it will be seen that small farms, say of about forty acres, thoroughly cultivated, devoted to dairying, hogs, poultry, fruit and market gardening, have a home mar-ket for their products. The present Colorado farms usually run in size from 80 to 320, or even a greater number of acres, and many are now ready for sub-division, but small farms can frequently be purchased, leased or rented. The price varies according to proximity to city and railroad, ranging from over \$200 down to \$20 per acre, including water rights.

AN EVER-INCREASING MARKET. The recent marvelous development of gold mining in Colorado, with its even more wonderfully certain future; the vast coal fields and equally vast iron and other mineral deposits of Colorado; together with the certain great manufacturing futures of Denver and Pueblo, in addition to the steady

whatever why they should be imported D. R. G. from other States.

Who Will Deny? EDITOR KANSAS FARMER:-I want to make a few statements and ask a few questions, which I want the readers of the FARMER to take issue with and discuss through your paper:

(1) There has been no new principle conceived, discovered or invented to raise water that was not known and used by the Romans.

(2) The Chinese chain pump, which has been in use more than 2,000 years. will raise more water a given height in a given time, with less expenditure of power, than any pump made.

(3) The double-plunger lift pump will deliver more water with the same power than any other pump of its class of hogs being raised and fattened, and that depends on the atmospheric press-

HE HOT WINDS

WOULD NOT AFFECT YOUR GROWING CROPS IF YOU HAD A

FAIRBANKS, MORSE&CO. IRRIGATION PLANT.

ONE CROP WILL PAY FOR PLANT. WRITE FOR PARTICULARS.

FAIRBANKS, MORSE & CO., 1310 UNION AVE., KANSAS CITY, MO.

ure and mechanical power, all condi-

tions being equal. (4) That a driven well will furnish more water from the same strata or depth than an open well, in a given time.

J. S. SHERMAN.

The Season Helpful in One Thing.

EDITOR KANSAS FARMER:-If any man had wished to create irrigation sentiment in Kansas he could have done no better than to have prayed for just such a season as this has been. To be sure it is an expensive way to secure the end, but it is very effectual, and it is barely possible that without this providential aid there might have been failure to arouse a sentiment of sufficient strength to secure from the Legislature next winter that kind of aid which is necessary for the most thorough solution of the irrigation problem in Kansas.

We know we can irrigate. We know there are immense bodies of water beneath our feet which are anxiously waiting to be lifted to the surface that they may bless mankind, may give wealth and beauty, health and comfort to the inhabitants within our borders. We know all this, but we do not know how far it is practicable to lift water to perform these services, nor the best way to apply the water to the soil, and besides there are many other things which need to be determined. These are problems for the solution of which the State can well afford to extend aid.

This, indeed, is the great question in Kansas. It is more important than the silver question or the tariff question or any other question which concerns the people of our State, and every true Kansan, regardless of party affiliations, will assist in the passage of a law for developing the water resources of the State by the creation of a thorough and complete system of irrigation. In this way only can a man show himself worthy of citizenship in so great a State as Kansas.

M. MOHLER.

Irrigation at Tribune.

An enthusiastic two-day irrigation convention, attended by citizens of Greeley, Hamilton, Wallace, Wichita, Scott and Lane counties, besides several visitors from Colorado, was held at Tribune, Greeley county, on Wednesday and Thursday of last week, preproducts. While some of the dairy-influx of population, all guarantee an ever-increasing Colorado market for the most improved methods and conse-farm products and these are the most improved methods and conse-farm products and these are the most improved methods and conse-farm products and these are the most improved methods and conse-farm products and these are the most improved methods and conse-farm products and the most improved methods and conse-farm products are the most improved methods and conse-farm products are the most improved methods and conse-farm products and the most improved methods and conse-farm products are the most improved methods are the most improved methods and conse-farm products are the most improved methods are t the most improved methods and conse- farm products, and there is no reason at each session and the ladies vied with the men in interest and entil The principal speakers were Judge Grinstead, Secretary F. D. Coburn, of the State Board of Agriculture, Prof. Robert Hay, the geologist, Mayor Wightman, Representative Glenn, and J. U. Brown, of Tribune, Geo. R. Allaman, of Wallace, and editor Hamman, of Wallace, and editor Ham-mond, of Syracuse; excellent papers sent by Engineer H. V. Hinckley, of Tepeka, and I. L. Diesem, of Garden

City.
Water is found in the vicinity of
Tribune at a depth of 120 feet, and so
far as tested is inexhaustible; there are seven small irrigation plants in the town with windmills and pumps of two and one-half to three-inch capacity, and from the tests made the people of that region are much encouraged to undertake the work on a very much more extended scale than heretofore

attempted.

WATER PIPE.

W. S. DICKEY CLAY MFG. CO., Makers of all kinds of Burned Clay Good Office 800 N. Y. Life Bldg., Kansas City, Mo.

working up this very successful meeting is due to Mr. Eugene Tilleux, editor of the Western Homestead, who, through his paper, is doing a good work for western Kansas.

Secretary Coburn found the Russian thistle growing by thousands in the vicinity of Tribune, and supposed by the people to be the ordinary tumble-weed. He forcibly called their attention to the serious misapprehension they were the victims of, and in each of the meetings showed them the peculiarities and dangers of the dreaded enemy, exhorting them to a united effort for its destruction before the ripening of its

Alfalfa and Irrigation.

I have just read an article in an agricultural newspaper, headed "Alfalfa West of the Missouri." In the last three years I have seen this plant in all its different conditions in Colorado, Kansas, Utah, Idaho and Washington, and have watched its growth in different localities, and while at first I was not favorably impressed with its fattening qualities, Î am free to say I consider it superior to any for cattle or sheep, and I have seen horses eat the hay in Colorado in preference to oats, and while it is claimed by some that horses can't work when fed on alfalfa hay, I have made a drive of more than fifty miles in a day, over a rough road, and the team had no grain and lived exclusively on alfalfa hay. It is dangerous to turn cattle on alfalfa, unless it be very short, for they are likely to cram so much down their throats as to

There is more danger in this respect with alfalfa than the common red clover, but after cattle become accustomed to it they will fatten very quickly, and the meat is exceedingly nutritious, I think fully as good as that made of the desert bunch grass, and will say right here that our Western bunch grass beef is luscious enough to gratify the taste of the most fastidious epicure. Red clover is good enough for the East, and I have never yet seen any place where alfalfa was what I consider a success, except on irrigated

The roots of alfalfa will go down a long way in the ground hunting moisture, but this plant thrives much better where plenty of water comes on the surface, as under a system of irrigation. In the summer of 1891 I came over the Santa Fe railroad, between Kansas City and Colorado, nearly every week, and quite early in the spring my attention was called to a field of alfalfa, I think east of Newton, Kas., and this was on the lew lands, and that season there was a great deal of rain, so much that in many places along the railroad the wheat and corn were ruined. For a time this field of alfalfa did splendidly, but as soon as the rain ceased to fall the alfalfa began to fade, while that in western Kansas and Colorado on irri-The largest measure of credit for gated land made three crops of hay in the season. Alfalfa is very success fully grown on the irrigated lands of Colorado, Utah, Idaho and Washington, and I have seen an immense yield along the north fork of Snake river, eastern Idaho, where there is nothing but white sand for a depth of fifty feet, and in the Wood river valley of Idaho, where it is coarse gravel, and seemingly no soil at all for a depth of twenty feet, alfalfa grows luxuriantly, but in each of these places named the land is deluged with water. Alfalfa is proving a success in the Yakima valley of Washington, on the irrigated lands, but I hear very little of it on the famous bottom lands of the Puget Sound country. In the arid region, where there is plenty of water for irrigation, it is, in my judgment, far more desirable than any other forage plant I have ever seen. It thrives best in the countries of perpetual sunshine, for it depends largely on the nitrogen of the air for its growth. Alfalfa and irrigation go well together .- L. C. Teed, in Western America.

The Perfection Irrigation Pump.

One of our representatives reports that last week he witnessed the working of a new irrigation pump that has been christened the "Perfection Irrigation pump" by the well-known and successful manufacturing concern, the St. Joseph Pump Company, of St. Joseph, Mo. The new pump, or water-elevator, is constructed something on the plan of the celebrated Perfection pump, but larger, heavier materials, and with a special end in view of meeting any capacity that may be desired by the practical irrigation farmer or gar-The buckets are constructed with a peculiar yet very simple automatic valve, that provides for the rapid escape of the air from the inverted bucket as it descends and fills with water, and when it has reached the highest point in its ascent and turns to empty, the valve drops, admits the air, thereby rapidly and successfully emptying the bucket. The capacity and cost of this water-elevator is estimated about as follows: To raise eighty gallons in one minute, twenty feet, \$50; 200 gallons, \$70; 400 gallons, \$90; 1,000 gallons, \$165. The company manufacturing these pumps invite correspondence and estimates as to the quantity of water to be raised, the height and the kind of power to be used. Write them for further information.

Our First-Page Illustration.

Mr. Turnbull's flock was founded in 1847, and this is a very good specimen of the high-grade of Merino sheep that they have breeding ever since. John Turnbull, the father of Alex. Turnbull, in 1847 had a flock of about 200 sheep. His selections were made from the most noted flocks of Ohio and Pennsylvania, such as those of Matthew Berry, of Washington county, Pennsylvania, and Jacob Stoolfire, of Harrison county, Ohio, and others. Stock rams used were of the smooth variety, and he always selected the best regardless of price, which ranged from \$50 to \$100. When the wrinkle craze became so fashionable he avoided sheep of that variety, as well as those producing the heavy, greasy, short-stapled wool. Length of staple, constitution, size and the strictly Merino blood was his model, and he always sold the inferior and retained the top of the flock. The Turnbulls believe that the big, smooth, Delaine sheep are the most profitable sheep for the farmer or wool-growers for two reasons-first, they have the size and constitution; second, they grow a Delaine fleece, which brings a much higher price than the old-style knotty, harsh Merino wools. Thus is produced a combination of wool and mutton. As to climate, they claim no sheep will stand a cold climate better than a smooth sheep, and will cross profitably with most any kind of breeds. Rams at maturity weigh from 150 to 200 naturity weig pounds, shearing from sixteen to twentyfive pounds of wool. Ewes at maturity will weigh from 110 to 140 pounds and raise lambs, shear nine to fourteen pounds of Delaine, snow-white wool. This, in brief, is what Mr. Turnbull has at the present time to offer in great variety and he will be glad to answer any questions our readers may ask him concerning their ways.

A Nice Present.

If any reader of this paper who expects to buy a steel range or cooking stove this fall, will send us their full address and 10 cents in stamps, we will have them forwarded a cook book of 100 pages and a nice memento reminder. Address, Majestic Mfg. Co., care Kansas Farmer, Topeka, Kas.

Its either Direct Legislation through the INITIATIVE and the REFEREN-DUM or another Revolution. Which shall it be? For books, information and plan write W. P. BRUSH, Topeka, Kansas.

The Family Doctor.

Conducted by HENRY W. ROBY, M. D., consulting and operating surgeon, Topeka. Kas., to whom all correspondence relating to this department should be addressed. Correspondents wishing answers and prescriptions by mail will please enclose one dollar when they write.

Irrigation vs. Health.

Several letters on our table ask for information as to the effect on the general health of the people, of a general system of irrigation, such as is now freely talked of in western Kansas. We answer, that, with the proper sanitary precautions all along the line, the effect will be beneficial rather than otherwise. But with careless habits and unsanitary conditions, the effect will be the decimation of population. With an extensive establishment of irrigation works so that a considerable percentage of a large area is brought under the influence of the system, the atmospheric and magnetic conwill be radically changed. prevailing dry atmosphere will be displaced by a prevailing humidity, which will have special effect on the human system. Those cases of bronchial and pulmonary catarrhs, with incipient consumption, which heretofore have found asylum and sanitarium on our Western plains, will probably need to "move on" to some drier place. But as drought has its disease-breeding tendency, as well as humidity, it will but work an exchange of compliments.

Clean, pure water is never unwholesome or dangerous to health. Millions of people live long and well on the water or close beside it, and they show as good health records as those who live remote from water. But let the water in lake, river, pond, creek or pool become stagnant and filled with dead and decaying animal and vegetable matter, and then disease and death come marching in. With a good, clean and well-kept pond on every farm, only beneficial effects may be expected. But let the pond become stagnant, and dump into it all the dead cats and dogs and chickens; all the old shoes and hoopskirts and other rubbish that accumulate about the place; let the pump get out of order and remain so until the hot sun evaporates nearly or all the water in the pond; let leaves and weeds and grass rot in the shallow basin and death will claim its own. The grinning skeleton on the pale horse will thrust in his big scythe and reap the dread harvest that your McCormick's reaper has passed by and left untouched. Let your cows and horses and pigs and chickens wade into and trample your pond and drop manure all about its margin to putrefy and reek in the hot sun, and a coffin will not come amiss among the family supplies. If you allow your barn-yards and privies and cess pools to drain, or in the rainy sea son wash into your ponds, then you should have your doctor and undertaker employed by the year. If you will keep your pond full of living water, and keep it in motion by keeping the pumps going, filling the pond at one side while it overflows at the other, and see to it that no refuse from house or barn, no rubbish, no dead animals or leaves or grass foul the pool, you can hang the American flag over your lakelet and raise the shout of victory.

Probably the best countries in the world in which to study the relations of irrigation to health are Egypt, India and the Island of Ceylon, though the empires of China and Persia have spent mints of money on irrigation, but have no mortuary records.

The Nile valley swarms with a dense population, but the living water of the Nile on all the water meadows of Egypt and in all its acqueducts and ditches brings only the rose tints of health to its inhabitants.

The vast rice fields of India, flooded from the Indus, the Ganges and Brahmapootra and many other great rivers, are only unsalubrious when they receive the offal and excreta of towns and cities or other dense centers of population.

Sir Emerson Tennent, the most careful and voluminous writer on Ceylon, where the most gigantic irrigation works in the world, in the way of ponds, pools, tanks and lakes, have been erected and maintained for hundreds of years, tells us that round about all the great tanks, some of them many miles in extent, and filled from rushing rivers and mountain streams, the highest degree of health prevails. He says: 'The vast, level plains, whose stagnant waters are made available for the cultivation of rice, are seldom or never productive of disease." It is even believed that deadly air is deprived of its poison in passing over an expanse of still water.

Answers to Correspondents. (NUMBER 32.)

Family Doctor:—Can you recommend to me a cure for nasal catarrh? I am 14 years old; have had the trouble four years. If am 14 years old; have had the trouble four years. If am otherwise healthy. Please answer through Kansas Farmer.

Sharon, Kas. CLAUDE WOOLLOMES.

Your question has been answered many times in the FARMER. I fear you have not been a diligent and observing reader. Mer-

curius sol., 3x trituration, used as a snuff and taken internally three times a day, is excellent. The internal dose is a powder the size of a grain of corn.

Publishers' Paragraphs.

Dates of the Frankfort, Marshall county, Agricultural fair have been changed to the following dates: September 4, 5, 6 and 7,

Chas. Engler, Topeka (six miles south) built hay-stacker after plans of Gates patent—a Kansas institution and our advertiser. Material cost \$12, labor \$12, patent \$5, and wouldn't take \$100 for it. Has given it a severe test in millet.

We are in receipt of the twelfth annual catalogue of the Chicago Veterinary College, which should be examined by those of our readers who desire a course of study in this profession. For further information address Joseph Hughes, Secretary, Chicago.

The amount of light that Harper's Weekly vas able to throw upon the remote and little-known country of Korea, the instant that public attention was directed to it, may be taken as an indication of the almos boundless resources of the paper, and its capacity to deal promptly and comprehensively with every occurrence of interest to the public.

The James Leffel Co., of Springfield, O., has issued a fine and complete new pamphlet, illustrating and describing their well-known line of upright and horizontal steam engines and steel boilers with latest improvements, which were awarded diploms and medal at World's Fair. A copy may be had free on application to the com pany. It is well worth sending for by any one needing an engine or boiler.

Louisville, Ky., contains, probably, the oldest, and certainly the largest plow works in the United States, namely, that of B. F. Avery & Sons. They make a specialty of steel, chilled and cast plows, also planters cultivators and harrows. Avery Sulky and Gang plows are noted the world over for simplicity and strength. Avery's Moon rolling coulter and plow gauge illustrated in our advertising columns is a wonderfully effective tool. Explorer Stanley found Avery plows in darkest Africa, and there is hardly a farming district on the globe where they are not used and praised. If you do not know and use them, write to B. F. Avery & Sons, Louisville, Ky., giving name of this paper, and stating your wants.

As the autumn draws near, the country boys are reminded of the approach of the cider season. Many of us who are confined to our city offices remember with much delight boyhood days on the farm, when sucking cider through a straw was an autumn treat. The methods of making cider in those days were very crude and laborious. The inventive genius has done for the cider-maker, as he has done for other farm machinery, much towards lessening labor and cost of production. The Hy draulic Press, manufactured at Mt. Gilead, Ohio, and sold by Davis-Johnson Co., 45 Jackson street, Chicago, Ill., who are general Western agents, is indeed a marvel of completeness. To get a full explanation of it, send for one of their handsomely illustrated catalogues, which they will mail free upon application. The Davis-Johnson Co. are also agents for spray pumps and various other fruit machinery.

George H. Stahl, of Quincy, Ill., manufacturer of the well-known Excelsior Incubator, has found it necessary, owing to the rapid growth of his business, to seek new and larger quarters where his capacity will be equal to the increasing demand. The new plant will be five stories high, giving a floor space of 35,000 square feet. It will be thoroughly equipped with the latest appliances, operated be electricity, and capable of producing, if necessary, a hundred incubators a day. That there is a reason for such a step as this during these dull times will be apparent to every thoughtful reader. It means, on one hand, that the poultry condition: on the other hand, it reflects the greatest credit on Geo. H. Stahl and his business methods. Those who are now engaged in poultry-raising, and those who are studying its possibilities as a source of profit, will do well to send 6 cents to Mr. Stahl for his catalogue. It contains much valuable information about incubators, brooders and poultry-raising in general.

Bethany College, Lindsborg, Kas.

Large, modern, well equipped. Just the place for farmers' boys and girls. Seven departments. Best and largest music school in the State. Fine Art department. A splendid business college. Hard work and rapid success are always popular at Bethany. 175 rooms, all steam heated. Board only \$2 per week. 440 students, twenty-five instructors. Fine catalogue and lithograph free on application. Surroundings safe and pleasant. Write the President,

Dr. C. A. Swensson, Lindsborg, Kas.



ed, from 20 to 56 inches in diameter, with tires from 1 to 8 inches wide. By having low wheels enables you to bring the wagon box down low, saving one man in loading fodder, etc. It is also very convenient for loading and unloading manure, grain, hogs, etc., and will save in labor alone their cost in a very short time. These wheels are made of best material throughout, and have every possible advantage over the high wooden wheels with narrow tires, and will outlast a dozen of them. There will also be no resetting of tires necessary, and consequently no blacktires necessary, and consequently no black-smiths' bills to pay. Wide tires save your horses and prevent cutting up your fields. For further information, write The Em-pire Manufacturing Co., Quincy, Ill., who will mail catalogue free upon application.

NOW FOR PITTSBURG.

28th Annual Encampment G. A. R. Low Rates via B. & O.

For the national encampment of the G. A. R. at Pittsburg, September 8 to 15, and the meeting of the Naval Veterans Association, September 8, the B. & O. R. R. Co. will sell excursion tickets to Pittsburg from stations on its line, September 5 to 10, valid for return passage until September 25 inclusive. The rate for the round trip from Chicago will be \$10, and correspondingly low rates for other stations. Tickets will also be placed on sale at all the principal offices throughout the West and North-

No matter where you start from ask for tickets via Historic B. & O.

For information in detail write L. S. Allen, Asst. G. P. A., B. & O., Grand Central Station, Chicago, Ill.

Leasing Oklahoma School Lands.

All persons wanting to lease school land in Oklahoma will be rewarded by sending for a free sample copy of the Home, FIELD AND FORUM, Guthrie, Okla., the leading agricultural paper of Oklahoma Territory.

Climate and Crops Just Right.

Oklahoma has thousands of acres of the Oklahoma has thousands of acres of the finest farming land in the world, waiting for you or anybody else with a little cash and lots of gumption. Climate crops are just right. Farms will cost more next year than this. To find out if this is the country you want, ask G. T. Nicholson, G. P. A., Santa Fe route, Topeka, Kas., for free copy of Oklahoma folder.

Six Thousand Square Miles of Wealth.

The vast fertile valleys of the two Indian reservations in northeastern Utah, soon to be open to settlers comprise about 3,500,000 acres of the finest agricultural and grazing lands. The direct line to Uintah and Uncompanier reservations is by the Union Pacific system via Echo and Park City. E. L. LOMAX, G. P. & T. A., U. P. system, Omaha, Neb.

Excursion to Pittsburgh.

The Baltimore & Ohio Southwestern railroad will sell excursion tickets, September 5 to 10, to Pittsburgh, Pa., account G. A. R. 5 to 10, to Pittsburgh, Pa., account G. A. R. National Encampment, at special low rates, good returning until September 25. Best line from St. Louis, Springfield, Louisville or Cincinnati to Pittsburgh.

For rates or further information apply to any agent of the B. & O. S. W. railroad, or address A. C. Goodrich, Western Passenger Agent, P. O. Box 264, Kansas City, Mo.

MAILED FREE

"UP TO DATE DAIRYING" containing full instruction how to secure Higher Grade Products, make

MORE BUTTER will bring BETTER PRICE

and with Less Labor get More Money

Reviewing and explaining in a practical manner . . .

THE NORMANDY (FRENCH) SYSTEM,
DANISH DAIRY SYSTEM AND
ELGIN SEPARATOR SYSTEM

which have brought prosperity and ease to the dairy farmer.

Write for this Valuable Information. Mailed FREE on application. Kindly send address of neighboring farmers who own cows. Address R. LESPINASSE, Ex. Sec'y Columbian & Illinois Dairy Associations. 246 W. LAKE ST

The Some Circle.

To Correspondents.

The matter for the HOME CIRCLE is selected Wednesday of the week before the paper is printed. Manuscript received after that almost invariably goes over to the next week, unless it is very short and very good. Correspondents will govern themselves seconducty.

The Pitcher of Tears.

The woman had closed her eyes.

A-weary with weeping,
She leaned on the empty cradle
And sobbed in her sleeping
Her breast, like the wave of the sea,
Was rising and falling;
Her heart, through the mist of sleep,
On her baby was calling.

Then her soul was lifted away
To the garden of heaven,
Where flowers shine like stars in the grass,
So smooth and so even;
And she saw where 'mid roses and May
An angel did wander,
With bright children who looked in his face
To dream and to wonder.

Alone, and apart from the rest,
A little child tarried,
And in his small arms, soft and round,
A pitcher he carried.
His sweet eyes looked wistfully toward
H s mates in the meadow,
Heaven's glory was bright, but his face
Bore the touch of earth's shadow.

The woman knelt down where she stood.
"My own and my dearle,
Now why do you wander alone
With little feet weary?
If you cannot come back, come back,
To the arms of your mother,
"Tis your sweet hand the angel should hold,
And never another."

"O! mother, the p'tcher of tears,
Your tears, I must carry;
So heavy it weighs, that behind
I linger and tarry.
O! mother, if you would smile,
And cease from your weeping
My place by the angel's s'de
I'd gladly be keeping."

The woman waked by the cradle,
And smiled in the waking.
"My baby, the pitcher of tears
To my heart I am taking,
Go, frolic and sing with your mates;
My smiles shall be given
To make a new light round your head
In the Garden of Heaven."
—Youth's Companion.

When Baby Puts on Pants.

It's a day we all remember, and its scene of solemn state Still casts a gleam of sadness, when at home we

congregate;
For a baby form is missing, and no childish
prattle grants
Its musics weet, refreshing, since the baby put
on pants.

'Iwas a transformation truly, and it marked an epoch grave, It took away deer babyland and boyhood to us

The change could be discovered with the slightest kind of glance
At the pride-flushed face of baby—that day he put on pants.

It closed the doors of lullaby and opened wide

the doors of inliany and opened wide the gate

That leads from arms of mother to the hill of man's estate:

The light of dawning future 'cross the fragrant pathway slants.

Of baby, and enthralls him—on the day he put on pants.

—St. Paul Dispatch.

ABANDONED YANKEE FARMS.

In the town of Mercer, in Somerset county, Me., is a decaying homestead which is typical of hundreds in New England. For this farm of about 207 acres, with house, barn, stable, etc., its owner, a thrifty and industrious deacon of the local Baptist church, was offered \$6,000 during the war. After his death in 1881, his widow, a shrewd, hard-working and pious woman of the best New England type, was offered \$4,000 for the property. Two or three years later she gave up the farm and moved to the adjoining village, where she has comfortably added to her income by entertaining travelers since the destruction of the village hotel by fire, and this week she has offered the farm for sale for \$1,500. It is on the road from Norridgewock to Farmington, and already there is talk of an electric railway between those two villages.

This farm, whose value had thus shrunk from \$6,000 to \$1,500, formerly cut seventyfive tons of hay. It comprises about seventy acres of hay fields, about the same amount of pasture, and perhaps an equal quantity of good wood land. Lack of attention for a dozen years or more has reduced the yield of hay from seventy tons to thirty, and the buildings are suffering from similar neglect. The great barn, well clapboarded and conveniently arranged with a large cupola on the roof, is capable of holding 100 tons of hay and accommodating a proportionate amount of stock. The house has a fine cemented cellar, a parlor, sitting-room, dining-room, kitchen, buttery and two bedrooms on the floor; on the upper floor are four spacious sleeping apartments; adjoining the house is a large stable for horses and cattle, with a connecting shed after a common New England plan for farm build-The land lies upon both sides of the road from Mercer to New Sharon. The barn is upon one side of the road and the house and stable upon the other, and back of the house, from which a beautiful view is obtained, the farm slopes gracefully to

the pretty Sandy river, that forms one of the boundaries of the estate.

The good Baptist deacon, who died in 1881, took his young wife forty years earlier to a farm of fifty acres of land. By the fruits of his own industry he acquired an estate of more than 200 well-tilled acres, and as time passed he erected the spacious and excellent buildings which enabled him to receive an offer of \$6,000 for the place thirty years ago. While the whole prop-erty is now offered for \$1,500, the barn alone cost \$1,200.

How easy it would be for a young man and woman, trained and equipped as were the young farmer and his wife, between 1840 and 1850, to take this place where they left it, and enjoy a comfortable and pros perous life upon this New England farm.

Did not the former owner leave sons Yes. One of them is the village black smith, and another is a traveling salesman

They do not like farming.

Four or five miles beyond this farm is the village of New Sharon, at which a broad dam in the Sandy river furnishes a water power which would astonish the casual Like many other New England visitor. country villages, New Sharon is retrograding in population and industry, and yet it possesses greater resources than half the Southern and Western boom towns in which so much Eastern capital has been sunk in recent years. As I drove through the covered bridge and up the main street of New Sharon I asked some of the villagers why the place was going down, and the answer was usually, "Because the young men go away as soon as they grow Having in mind the possibility of profitably reclaiming through sheep husbandry the farm which I have described, I was informed that many sheep were sold in Farmington last fall for 75 cents and \$1 per head. Local butchers stated that they could pick from their purchasers this fall some hundreds of the very best ewes with which to stock a farm for \$1.50 to \$2 per head.

In Mercer and adjoining villages several honest and industrious young married men were introduced or mentioned as willing to take charge of such a farm as the one above. I talked with one of them who was willing to move into the house with what furniture he needed and run the farm for \$26 per month and what milk, butter and wood he required for his small family of wife and baby. All other supplies needed for his family he would provide out of his \$26 per month. With 100 sheep, costing \$150 to \$200; a pair of horses, costing \$75 each; two cows, at \$25 each, and the comparatively small amount of tools required, the farm would be ready for occupancy. American Wool Reporter.

A Literary Feast.

The American mail reaches some of the missionaries in Micronesia only once a year When letters and papers arrive, they have Christmas, New Year, Fourth of July and Thanksgiving all in one. And when the mails fail they have days of sorrow instead. Some years ago several missionaries had

The missionary schooner, Morning Star. left the mail at a certain point for distribution, and the boat carrying a number of pouches, left two, for a distant island, behind. When the missionaries heard of the neglect, they dispatched a boat immediately for the missing bags. But the vessel came too late.

The hungry natives knew that other supplies than mail came to the missionaries from America, and supposed the two neglected packages contained foreign dainties, so a great company assembled and pre pared for a feast. They had heard much about foreign food, but had never eaten any. At last the time to sample it had come, and few were absent. Large pots were hung over the fire, and into each was hung a bag of mail. The blaze was bright, heat furious, the water boiled vehemently, but the bags did not soften, whatever might be said of the contents. Perhaps the cook thought them old ones and grew tired of waiting. The packages were taken from the pots and divided, that each guest might have a portion, and the feast began. The papers and letters were tender, the bags tougher than ancient poultry, but every particle was eaten. Foreign delicacies were too precious to be wasted. When the feast ended some of those sharing in it declared that for a steady diet they preferred their own to foreign dainties, though they admitted that they had not yet acquired a taste for such food.

The boatmen arrived after the feast, and sought in vain for the missing pouches of mail. Told what had become of them, they said:

"Why, that was food for the mind, not for the stomach.'

"Well," answered one of the feasters, "as part of it was so tough for our teeth, we feel certain that it would have been far worse had they tried to take it into their minds. So we did them a favor, perhaps saved their lives. Surely it must have killed them, for it came near taking the lives of several of our number."-InterStrange Case of John Smith.

John Smith, sitting in the shade of the big maple, leaned back comfortably and the Messenger. He had just reopened turned from town and now, as he waited for his supper, he would read his paper.

The lowing of the cows and the answering call of the calves, as the hired man drove them up from the pasture, came faintly on the breeze and mingled with the rattling of the dishes as his wife prepared the table. The farmer glanced approvingly about him, then turned to his paper.

Among other things he read of the man who had driven home and forgotten his wife, leaving her behind, and with it the comments made on the item. Was it true that men were so forgetful? Would it be possible for him to go on living and know that Anna, his dear, loving, patient wife, was not only gone, but was forgotten? He remembered the fate of his own dear mother, who had died when he was but 12 years of age, and how soon his father had married again, married a woman who, though kind and pleasant, could never take his mother's place in his childish heart, no matter though she seemed to fill his father's heart and life and crowd out all memory of that first love. He could never so forget his wife. The memory of Anna would keep sacred the place she had occupied in his heart and life; there would never be room for another.

Just then Anna came out at the door of the kitchen and he noticed with a start how worn and thin her face and form had grown. There was not a faint resemblance to the rosy-cheeked, bright-eyed girl he had so proudly brought to the farm ten years ago. She was drifting away from him, and the cares of life, borne alone without sympathy, were leaving their marks on her face. He had not noticed it until now.

She went swiftly past him and called the hired man to supper, and as they sat around the table John did not speak, but watched her furtively as she sat at the head of the table and poured the tea and waited on the two younger children. If she ate a mouthful he did not see her, although she drank her tea as if very thirsty. John was not an unkind man, and early in married life had insisted that she, too, must have hired help; but when she assured him that to teach them to do the work as she wanted it done, would be just as hard and require just as much time, he had assented and thought no more about the matter. He now remembered, with his aroused attention, that time after time he had awakened in the night to find her up and striving to quiet the fretful baby, but he had been so tired that he soon went to sleep and forgot her. Yes, he, too, had forgotten his wife. He had been so tired that he had not noticed that she came down the next morning, pale and languid, or if he did notice it he attributed it to the warm weather. Smith was not a demonstrative man, but never had his wife seemed more dear to him than now. The loss of all earthly goods seemed to be nothing com-pared with losing her. He would do better and be more thoughtful. Thank God, it was not yet too late to let her know that he yet loved her and had not forgotten her.

After supper the hired man went on to the barn-yard to begin milking. It had been her custom to help with this work, but to-night John took her pail and gently "Sit down, love, and rest until we get the milking done and then I'll help you you look tired." And he stooped and kissed her. - Tom Condry, in Minneapolis Messenger

Badly Tangled.

A jag is a bad thing even from a moderately temperate point of view, but there are few places where it is worse to carry a real, genuine, full-blown jag than into the underground windings of the capitol.

The capitol crypt is in some respects like a jail, a good deal easier to get into than out of, and a man who is in that state of mind that he sees two corridors branching out into infinity for every one that really exists, is likely to get helplessly and hope-lessly lost in the crypt and leave his skeleron to be found by gating committee of the next century who are poking into odd corners in hopes of improving the ventilation and earning their salaries by some easier method than staying upstairs to reform the tariff.

A Post man was down in the basement of the capitol the other day with a telegraph lineman, who was running in wires for some new 'phones. Just about that time a jag came wandering down the corridor. He was a large, luscious, extra super jag, such as a man can't find every day, or at least such as he is not likely to hold onto very long after he finds it.

"Shay, stranger," lisped his jaglets, "zou be sho kind ash ter tell me wish zeoutshide zish place.

"Want ter find the door?" said the line man

"Yesh, been huntin' 't fer ages."

The lineman turned the wanderer around at right angles, told him to go to the right the first opening he came to, and he would see the door in front of him. It was only about fifty feet.

The jag disappeared in the right direc-

9944% *PURE*

FOR THE BABY.

THE PROOTER & GAMBLE CO., CIN'TI.

tion, but after about ten minutes he came steering carefully down the corridor in the same direction from which he first ap-

"Shay, pardner," said he, when he reached the lineman, "zou 't gem'm'n zush now show'd me zoutshide zish place?"

The lineman acknowledged the effort. "Well, 'rection's all right, I guesh, but dorsh moved."

The workman was pretty well convinced the door had not been moved, but he led the jag around the corner in full sight of the door and turned him loose. Some time passed, and the work on the wires had carried the party deeper down into the depths of the building, for the capitol is three stories under ground in places, when the same jag hove in sight, with a worried, anxious look on his face.

"Pardner," said he, brightening up when he saw the lineman, "pardner, ish all my fault, but you know I losh zat door 'gen."

Seeing that it was a hopeless case, the lineman called a messenger and started him off with the jag toward the nearest door. The pair went on till they were near the lower west front door, when the messenger, who did not know the jag's propensenger, who aid not know the jag's propensity for getting lost, turned him loose, and the lineman, who was watching from afar, saw the inebriate lurch off into one of the openings of the new terrace addition instead of keeping on toward the door, and, as he had about three-quarters of a mile of corridor before him in that direction without a door to the outside world, it is likely he spent the rest of the night in the building.—Washington Post. ing .- Washington Post.

Every season of the year has its own peculiar malady. To render the system malaria-proof during these "muggy" and oppressive days, the blood should be kept pure and vigorous by the use of Ayer's Sarsaparilla. It will help you wonderfully through the dog-days.

AGENTSWANTED&'STRIKING&LIFE'

Labors' side of the labor question, by John D winton, the pillar of light of labor movement. Send c. for agents' outfit. Quick, large profits. Address NATIONAL PUBLISHING CO., Chicago.







The Houng Folks.

Gardens.

The wide fair gardens, the rich lush gardens, Which no man planted and no man tills, Their strong seeds drifted, their brave bloom litted.

nifted.
Near and far o'er the vales and hills;
Sip the bees from their cups of sweetness,
Poises above them the wild free wing.
And night and morn from their doors are borne
The dreams of the tunes that blithe hearts
sing.

The waving gardens, the fragrant gardens
That toss in the sun by the broad highway,
Growing together, gorse and heather,
Aster and golden-rod all the day.
Popples dark with the wine of slumber,
Daistes bright with the look of dawn,
The gentian blue, and the long year through
The flowers that carry the seasons on.

And the dear old gardens, the pleasant gardens.
Where mother used to potter about.
Tylne and pulling, and sparingly culling,
And watching each bud as its flower laughed

Hollyhocks here, and the prince's feather, Larkspur and primrose, and lilies white. Sweet were the dear old-fashioned gardens Where we kissed the mother, and said, "Goodnight." -Margaret E. Sangster, in Harper's Bazar.

GOLD TRIED IN THE FIRE.

"Old Gold and Silver Bought Here," was a sign hanging in front of a shop that attracted the attention of two passers-by.

One of the passers was a Sun reporter, and the other was Mr. J. Robley Dunglison, registrar of deposits in the Philadelphia mint, who probably knows more about the unseen supply of gold than any other man in this country. The "unseen gold supply" is a term the mint people use to describe the tons of gold and silver that lie in the half-forgotten boxes in bureau drawers-old gold pencils, old watch cases, neglected pocket pieces, broken chains, spectacle rims, and a thousand other bits of metal that have an intrinsic value. Most of these things are sure to find their way to the mint sooner or later, and when they do it is Mr. Dunglison who makes an entry of their weight in the mint's big books. His name will have a familiar sound to all the doctors, because "Dunglison's Medical Dictionary" is found in every medical library. Mr. Dunglison, of the mint, is a son

of the author of the dictionary.
"There is one of our feeders," Mr. Dunglison said as he read the sign. "You would be surprised to know how much of the gold and silver that we turn out in coin comes to us through such places. There are thousands of buyers of old bullion in this There are city and tens of thousands of them throughout the country. In the aggregate they send us a great many tons of bullion every year, and so put a great deal of money into circulation that would otherwise lie idle.

"There is no piece of gold or silver so large or small," he continued, "that the dealers will not buy it. Do you know that gold fillings out of extracted teeth make a considerable item in the mint's gold? They do. When a dentist extracts a tooth he is sure to extract also any gold that may be in it, and these tiny bits after a while make a little boxful, which is sold to a dealer. The idea seems unpleasant, but it is not, when you know how thoroughly all bullion is refined and cleansed in the mint before it is coined.

GOLD THAT IS NOT GOLD.

You will find that all these dealers would a little rather buy old silver than old gold, because there is more profit in it. The price of silver fluctuates so much that they can always buy it for considerably less than its real value; but the price of gold never varies. An ounce of gold is worth \$20.67 always, in all civilized countries, and this is so well understood that the dealer must pay pretty nearly that much for it. He generally increases his profit a little by paying in goods instead of in cash. The dealer must be able to do a little crude assaying himself, or he is likely to make mistakes. Gold jewelry, for instance, is rarely made of pure gold. Our mint standget a watch case or a ring or a chain that assays more than 500, showing that it is half of gold or silver and half alloy. You think you are carrying a gold watch, but the chances are ninety-nine in a hundred that the cases are half copper. The cases will reach the mint some day, almost to a certainty, and then the copper will come

out.
"The flow of old jewelry to the mint is almost as certain and steady as the flow of water down an incline. The old trinket is broken and useless, and you lay it away. Perhaps it is an heirloom, or for some other reason you are attached to it, and you must not think of selling it. But a rainy day may come, and you are glad to sell it. In any case, you are sure to die some time, and your heirs will not care for the chain; then we get it, and turn it into dollars or

eagles.
"We do not buy bullion in small quantities at the mint-nothing less than \$100 worth of gold or silver at a time, and then we do not pay for it until it has been assayed. If you bring us \$100 worth of metal | the touch feels like soft cheese. After it

that you suppose to be gold, we weigh it and give you a receipt for it, and three days later you can call and receive the money for whatever gold we find in it. No matter if the lot contains only a dollar's worth of gold, we will receipt for the weight and extract the gold for you and pay you for it. But you lose all the base metal, because in the refining everything but the gold and silver is destroyed. That is, it is practically destroyed, because our work is with gold and silver only, and we do not make any effort to save the base metals. It could easily be done, but it would not pay for the time and trouble. We could separate not only the gold and silver, but the copper also, and the lead and whatever else is present.

"When you take a quantity of old gold to the mint to sell, your metal is not mixed with any other metal. Each lot is kept separate until it has been assayed. Your gold is put into an iron box with two locks, and when its turn comes the box is taken to the melting room, where it is opened by two men, each of whom has a key to one of the locks. The metal is put into a crucible, with a little borax to prevent its sticking. The crucible is put into a furnace, and when the metal is melted it is moulded into a bar. That bar contains all the metal in your lot, whether it be gold or brass, and it is the assayer's business to find out how much gold it contains. While it is in the crucible it is stirred constantly and thoroughly, so that all its metals may be distributed equally throughout the bar.

"When the bar is returned to the weighing room the assayer chips from it a tiny piece that must weigh just half a gramme, or 7.7 grains troy. The bar and the sample are numbered to correspond, and the bar is locked up in the iron box again. But the chip is taken to the assaying room, where it is put through one of the most delicate mechanical processes in the world. No danger of visitors following the chip to the assaying room, for a man who is working with scales that will weigh the thirteenhundreth of a grain cannot be talking to visitors.

ABSORBING THE ALLOY.

"You are not familiar with the hone-ash cup, I suppose, that we call the cupel? To the uninformed that is one of the wonders of the mint. It is simply a little shallow cup made of bone ashes moistened and pressed, but it does some wonderful work. It will absorb any metals that are melted in it, except gold and silver. That sounds a little doubtful, but it is a fact that can readily be accounted for on scientific principles. You melt a lump of mingled gold and copper in this little cupel and every particle of the copper disappears, leaving the gold alone in the bottom of the cup. That is the first step in assaying gold, taking no account of a dozen minor operations.

"This melting in the cupel does not purify the gold, however, for gold is often alloyed with silver. After the tiny button that remains in the cup has cooled suffi-ciently it is flattened with a hammer and run between rollers till it comes out a little spiral that we call a cornet. This is put in a little vessel like a thimble with a slit in the bottom and is boiled in nitric acid. The acid dissolves the silver, which runs out through the slit, but it cannot dissolve the gold. The tiny chip that remains in it is pure gold.

"You see the reason for this process now I suppose. The sample weighed 7.7 grains at the beginning; if the pure gold taken from it weighs half as much then the sample was one-half gold and consequently the bar is one-half gold. Whatever pro-portion the weight of the gold bears to a half gramme that is the proportion of gold

in the bar.
"The refining of silver is an entirely different process. Our visitors never tire of seeing silver disappear in the big tank. There stands a big tank of boiling water, apparently, and we drop in lumps of silver, and they disappear in a second. But we take good care to get them back again. It is not boiling water in the tank, but boiling nitric acid, which is colorless and looks precisely like so much water. We take the metal that is supposed to be silver, or to contain silver, and cut it into small pieces and throw them into the tank, and in the twinkling of an eye they are gone, and nothing is to be seen but the clear boiling liquid. Of course, the silver is not gone, for even boiling nitric acid cannot destroy silver or any other metal; it merely changes its properties and converts the silver into nitrate of silver, which is a colorless fluid like the acid. All the base metal that may be mingled with it is destroyed, practically, for it is converted into other nitrates, which are thrown away. We might rescue the base metals, but our business is to receive the liquefied silver.

"The liquid is drawn from the tank into large tubs and a little salt water is poured into them. Immediately a whitish sediment begins to form and fall to the bottom—to precipitate, as we call it. This is the silver again, but in another form. The salt has converted it into chloride of silver. The sediment looks like slaked lime, and to

Highest of all in Leavening Power.-Latest U. S. Gov't Report.

ABSOLUTELY PURE

has all settled we pour off the acid, and the tubs are half full of chloride of silver. You can make this experiment for yourself by dropping a silver coin into some boiling nitric acid; but I advise you not to, for boiling nitric acid is dangerous stuff to handle.

SILVER CHEESES.

The deposit is put in a hydraulic press and pressed into round cakes that look very much like huge cheeses. These cakes are then treated with spelter or zinc, which turns them into metallic silver again. When gold and silver are massed together the mass is boiled in nitric acid, which does not affect the gold but dissolves the silver. The resulting nitrate silver has to be drawn off carefully with a big siphon. The acid liquefies any metal except gold or the still more costly platinum, so the siphon used is made of gold and contains \$4,000 worth of it.

"I have explained these processes to you to convince you that no matter what uses gold or silver may have been put to before they reach the mint they are absolutely pure when they are turned out in coin. Nothing can go through that bath of acid without losing all impurities. Some strange things happen in the big acid tank. We have had big assignments of rare old family plate that disappeared utterly when the acid took hold of them. That is, there was no silver whatever in the articles, though all the ordinary tests led us to believe that they were made of bullion. The acid always tells the story, and tells it truth-fully. When there is no deposit of chloride of silver in the tubs there was no silver in the articles. After the silver is refined it is moulded into bars, and in this shape it may lay in the mint vaults for ten or twenty years before it is coined. When it is to be coined the bars are run into ingots and in the form of coin it may lay in the vaults for twenty years more.

"I suppose you know how to tell where any American coin was made. The mint at Philadelphia was the first one in this country and after others were established it was for a long time the head establishment, the mints at New Orleans, San Francisco and Carson City being branches; but a few years ago each mint was made a separate concern. When you see a small o any-where on a coin that tells you that it was minted in New Orleans. An s shows that the coin was made in San Francisco; C. C. stands for Carson City, but you will not find that on any new coins, as no coining is done at Carson City at present.

THE MINT'S FIREARMS. "The mint's neighbors in Philadelphia have become used to hearing a fusillade of firearms in our court yard every month, as though we were having a battle. The law requires us to keep a supply of firearms and direct how they shall be handled. In the corridor close to the assay office are two racks and a large cabinet. The racks contain twenty rifles, with bayonets attached, and the cabinet is filled with revolvers. It is necessary to have these things to defend the government's property with in case of attack by a mob, for there is too much money in this building to take any chances. We have at present about \$150,000,000 worth of gold and silver deposited in the vaults, besides a great number of relics in the museum that could not be replaced. By an act of Congress we are required to have all the firearms examined every day, and they all have to be fired and cleaned once a month. When the twenty night watchmen go on duty in the afternoon they take the revolvers from the cabinet and lay them in convenient places about the building.

"There are many other curious things about Uncle Samuel's mints. I suppose you know that two men are under heavy bonds for the safe keeping of the treasure in each mint. One of these is the Director of the mint, who has charge of all the establishments, and the other is the Superintendent of each mint. Every vault door has two locks and there is a man for each key, so that the door cannot be unlocked without the presence of both men. One of the men represents the Director, the other represents the Superintendent.

"One of our curiosities in Philadelphia is a small consignment of gold from Mada-

gascar. It was mined and smelted and done up for shipment by natives and is the brightest gold we have. They took a piece of bamboo about six inches long and two inches in diameter and polished the outside till it is as smooth as glass. Then they put a wooden cork in one end and poured in the melted gold and corked up the other end.

HOW COINS ARE COUNTED. "One of the simplest and most useful contrivances we have is the counting board. Formerly all the coins were counted by hand, and this took longer than to make them, for the coining machines work very fast. One of the old employes invented the counting board, which is now in use in all the mints in the country. It is a smooth, flat board, about six feet square, divided into longitudinal columns with thin metal strips, each column being just wide enough to hold the coins to be counted. The board is laid over a big bin containing the coins and one man scoops up a shovelful of coins and scatters them over the board. Another man gives the board a shake and sees that every space in every column is filled. Then with a tip of the board the counted coins are dumped into another bin. Fifty dollars' worth of five-cent pieces can thus be counted in thirty seconds."—New York Sun.

Investigate advantages at Wichita Commercial College before deciding to attend elsewhere. It will pay you. Y. M. C. A. building.

WILL YOU distribute Circulars and samples for usf No can-vantage. Salary and expenses to travel. Send stamp.



WANTED FOUNG MEN to learn Telegraphy and be assisted to positions.
Only exclusive and co-operative school. Reduced ates until September 3.
Address W. H. SKELTON, Box 565, Salina, Kas.

MCKILLIP VETERINARY COLLEGE CHICAGO, Thorough, Practical, Scientific. Three by the largest private practice in the country. For information or catalogue address: OLOF SCHWARKOPF, DEAN, 1639 WABASH AVENUE, CHICAGO, ILLINOIS.



The WINFIELD BUSINESS COLLEGE stands first. Our Course is complete and Thoroughly Practical. We assist our students to paying positions. We pay your railroad fare to Winfield. Send for Catalogue and Specimens of Penmanship. Address, C. S. Perry, Prin. Winfield, Ks.

PIERRE S. BROWN'S School of Business Shorthand

We make specialties of rapid calculating and simple and concise methods of recording and posting as they are used in actual business. Commercial course, six months, \$40; English course, three months, \$10.

Bayard Bld., 1212-14 Main St., Kansas City, Mo.



Actual Business Practice with Eastern brough U. S. Mail the crowning feature.

The Commercial leads, others follow.

KANSAS State Agricultural Gollege

Largest Farmers' College in the Country.

TUITION FREE! NO FEES! EXPENSES LIGHT!

Its course gives the best of training for sons and daughters of farmers, whether they stay one term or four years. Good English, genuine science, industrial arts, are included. Students received from district schools.

Write for catalogue to President or Secretary, Manhattan, Kansas.

CHICÁCO

VETER FOUNDED 1883.

The most successful college on this continent. For further particulars address the Secretary, JOS. HUGHES, M. R. C. V. S., 2537-2539 State St., Chicago, Ill.

KANSAS FARMER

ESTABLISHED IN 1863.

Published Every Wednesday by the KANSAS FARMER COMPANY.

OFFICE: No. 116 West Sixth Street.

SUBSCRIPTION PRICE: ONE DOLLAR A YEAR. An extra copy free fifty-two weeks for a club of six, at \$1.00 each.

KANSAS FARMER CO., Topeka, Kansas. Address

ADVERTISING RATES.

Display advertising 15 cents per line, agate, (fourteen lines to the inch).
Special reading notices, 25 cents per line.
Business cards or miscellanous advertisements
will be received from reliable advertisers at the rate
of \$5.00 per line for one year.
Annual cards in the Breeders' Directory, consisting of four lines or less, for \$15.00 per year, including a copy of the KANSAS FARMER free.
Electros must have metal base.
Objectionable advertisements or orders from unreliable advertisers, when such is known to be the
case, will not be accepted at any price.
To insure prompt publication of an advertisement, send the cash with the order, however monthly
or quarterly payments may be arranged by parties
who are well known to the publishers or when acceptable references are given.
Every advertiser will receive a copy of the paper
free during the publication of the advertisement.
Address all orders
KANSAS FARMER CO., Topeka, Kas.

The call for extra copies of KANSAS FARMER of August 8 and 15 has been so great, on account of the articles on irrigation and alfalfa, that this office is no longer able to supply copies of those

NAMES WANTED.

It is not often that this paper makes a special request of its readers, but we want the name and address of every farmer in Kansas who is not a subscriber. Will every one of our readers favor us with a postal and a list of

The volume of business in the United States, as well as the more hopeful tone of public sentiment, indicate that the great depression has reached a maximum. The end of the tariff controversy is looked upon as a turning point and the financial prophets are predicting a revival of prosperity. We are ready for it in Kansas.

FOR FIRST-CLASS FARMERS.

Kansas farmers are not the only people that appreciate the "old reliable" KANSAS FARMER, as shown by the fol-lowing from W. W. Parks, of Okla-homa, who writes: "Here is one dollar for another year. We think the FARMER a valuable paper and think all first-class farmers should take it."

The new tariff law went into effect at 12 o'clock last Monday night, without the signature of the President. The measure was so far short of what Mr. Cleveland had expected, as he explained in a letter to a Congressman, and yet in his estimation was so great an improvement on the McKinley law, that he would neither approve nor veto it. He therefore held the bill the ten days prescribed by the constitution, at the expiration of which it became a law without approval.

THE STATE FAIR AT WICHITA.

The premium list of the State Fair Association is out and the premiums offered are quite liberal and should atthis fair will be the leading fair in depth below the surface a phenomenal tract a large and creditable exhibit, as Kansas this year and the only one of a State character. The management is in competent hands and Wichita promises the best fair held for years in the State, on October 2-6. For any information address C. M. Irwin, Secretary, Wichita, Kas.

A great Labor day parade and celebration is to be held at Garfield park, in Topeka, September 3, at which the following are announced to speak: Address of welcome, Mayor T. W. Harrison; Hon. David Overmyer, Democrat, rison; Hon. David Overmyer, Democrat, 1:30 to 2:30 p. m.; Hon. Frank Doster, Populist, 2:45 to 3:45 p. m.; Hon. J. C. Caldwell, Republican, 4:00 to 5:00 p. m.; Laura M. Johns, Equal Suffrage, 7:30 to 8:45 p. m.; Hon. I. O. Pickering, Prohibitionist, 9:00 to 10:15 p. m. The speaking will be interspersed with music by Marshall's band. A long list of sports and prizes is announced and of sports and prizes is announced and dancing is to continue all day and evening. Admission, 10 cents.

NEEDED IRRIGATION LEGISLATION IN KANSAS.

The great irrigation gathering of the nation, which is to convene next week at Denver, Colorado, will be composed of representatives of every irrigation interest in the country. The problem of irrigation is one the solu-tion of which is so greatly variant with the conditions of localities, that what to one section will seem all-important will have little application in other sections. The methods of applying water to the land indeed vary but little, and important as is this branch of the subject and susceptible of vast improvement as it probably is, it will attract and really deserve little attention from the national convention of irrigators.

The first requirement for irrigation is water, and it is to the problem of obtaining the necessary supplies of water that co-operative efforts, that associated devising must be turned, and in the protection of the correlated rights of individuals and communities in and to water is found one of the liveliest concerns of society. In mountainous and rocky regions, in regions of open streams or periodical floods, much progress has been made. The earlier irrigation developments of the United States have been made in the mountain States. There a stream is diverted and its waters distributed over the land to be irrigated. If the area accessible to this water is small, but few owners become interested in the water, and if the supply is adequate but few questions arise, and these few are amply met in the provisions of statutes, customs and common law. Where large areas of tillable land lie so as to be reached from a common water supply, questions of larger moment are presented and not unusually the administration of the water service falls under the control of a water or ditch company. The questions which arise between this company and the users, etc., are not new but require adjustment. In some cases the entire subject of appropriation and distribution becomes so great as to be of over-shadowing importance. The questions of over-selling, of the times and seasons of supply, of the order in which users may take from the ditches, of payment of water rents, are also interesting and important to the patrons of large companies, whether private or cooperative.

The development of the water resources of the arid and semi-arid regions has presented an apparently attractive field to the capitalist, and large sums have been expended in enterprises, only a portion of which have proved remunerative. But whether in the control of a mountain stream or in the conservation of flood waters in reservoirs, the undertakings of the mountain States are usually of considerable magnitude, and only by the investment of large sums, perhaps in distant works, does the land become

productive and valuable. But a large part of the semi-arid

region presents a far different situation. The great plains country, which spreads over a region some 300 or 400 miles wide, and more than 1,000 miles long, east of the Rocky mountains, is a land of even contour and fertile soil, but is almost destitute of reliable flowing streams. But it has at no great demonstrated by the experience already had that in much of this region the individual or farm irrigation plant, whereby the user of water draws from the hidden reservoir so much as he needs, is cheaper and more satisfactory than any scheme of co-operation or large enterprise. Should this plan become universal over the plains it will remove from the irrigation problem, as it applies to this vast region, many of the questions which must be settled and are now uppermost in the mountain regions. But in their stead the problem of irrigating the plains presents other questions no less important and which have received less attention than those of the older irrigation districts.

In the appropriation of water from open streams, the rights of users have long ago been considered by the courts,

and the common law and the "code" furnish fairly good protection until statutes are framed to more specifically direct and regulate.

In the appropriation of hidden waters, there is much less definite information as to rights. There will be no question raised as to the right of the owner of land to bring to the surface and apply water, perhaps as much as he needs, to the land from under which he took it. But there have been constructed in western Kansas and in Colorado vast systems of ditches for the distribution of water over great bodies of land remote from the heads of these ditches. They were originally constructed with the expectation that they would be supplied from the flood waters of the streams. This method is found to be too unreliable, and various propositions are under consideration to supply them from the hidden waters near the upper ends of the ditches. There are no engineering impossibilities in these propositions, and there is little doubt but that large drafts will be made upon the hidden stores for this purpose. Possibly with their present dimensions the ditches already constructed may be supplied without seriously interfering with the availability of this supply for those under whose land it is now most accessible. The Kansas statute of 1891 attempts to make applicable to the appropriation of these hidden waters the same laws as have been enacted for the regulation of the use of surface waters. This law was enacted before the development of individual plants had made much progress and is likely to require modification before it will conserve the best interests of Kansas as the development is now being made. The best authorities agree that the total available supply of water will be adequate for only a portion of the lands in eastern Colorado and western Kansas. If, therefore, the ditches be greatly multiplied and extended to great distances from the source of supply, it will be quite possible to overdraw the supply to the great detriment of those now most favorabley situated for the use of individual plants, as well as rendering a short supply alone available for ditch customers and all others.

The intelligent direction of the efforts put forth to make available the water resources of Kansas is a matter of the first importance. It has been shown that the best and most valuable development will consist of individual plants. The independence which accompanies these appeals most strongly to the best class of American farmers and assures a prosperity, good, both for the farmer and for the State. But the installation of these many small plants is sure to be accompanied by less engineering and less hydrographic investigation on the part of the projectors than would be devoted to the preliminaries were there to be only one or a few great enterprises instead of the many small ones. The inordinate waste of money and effort for lack of the requisite scientific investigation can be avoided only by the aid of a State Commission of Irrigation Engineering and hydrograpic survey. Such a commission should consist of at least one competent engineer and one competent geologist, well versed in the water-bearing rocks and sands of the State.

The foregoing brief consideration of some of the more important elements of the situation in Kansas indicates a line of action by the next Legislature which should be insisted upon by every interpreted in the water-bearing rocks and solven in the water was into the underwear business is that the duties are at valorem instead of specific. If the duties are at valorem instead of specific. If the duties are at valorem instead of the structurers of this country can hold their own. We are making goods of such a high class, and have made such progress in the last five years, that as a rule in the medium and low-priced goods we are ahead of foreign goods, both in fabric and finish. There will be practically no readjustment of wages." preliminaries were there to be only one

line of action by the next Legislature which should be insisted upon by every person interested in the welfare of the State, and especially by all in the districts in which irrigation interests are now being developed.

First, the law should clearly define rights of appropriation, use, conveyance and sale of the hidden waters, with reference to their largest use by

individual appropriations.

Second, an Irrigation Commission or Bureau should be established and its duties and powers defined with reference to the situation as it exists in Kansas rather than modeled after the irrigation departments of other States.

Every voter in western Kansas should see that the man he helps to send to the Legislature is right on these questions and is not prejudiced in favor of some large scheme which "has some-thing it."

THE NEW TARIFF AND THE MANU-FACTURERS.

Public interest in the effect of the new tariff law upon American industries, as well as upon the prices which the consumer will have to pay and the quality of the goods he will get for his money, has led the American Wool and Cotton Reporter, of Boston, Mass., to interview a number of representative commission merchants and manufacturers on the subject. Below are given significant expressions from these interviews:

Arthur T. Sullivan, of Sullivan, Vail & Co.: "The Senate bill is much better than the House bill, of course; and I think that the manufacturers can live under it. It is the manufacturers can live under it. It is going to make a great difference in the commission business; it will cut down the gross commissions very much. I think the woolen manufacturer will be able to hold his own with free wool; on the low grades we may have severe competition. Of course if we have it, it will turn the machinery now on low goods on the finer grades and make competition sharper in that line. I do not think it will revolutionize the industry very much. I think fine goods are going to be sufficiently protected to compete with foreign goods."

George W. Bramhall, of G. W. Bramhall

eign goods."
George W. Bramhall, of G. W. Bramhall & Co.: "I think everybody, irrespective of party affiliations and views as to the merits of the bill, will be happy in the thought that we have reached a conclusion; and we have reached a conclusion on a bill formulated not so much on the merits of the schedules as upon the political necessities to make a bill, a condition which made it a far more uncertain contemplation while it was under discussion than if it had been was under discussion than if it had been discussed on its merits.

"As to the effect the bill will have upon the manufacturers: There are certain of the lowest grade goods (and this may seem contradictory) that will continue to be manufactured in this country under a 40 per cent. rate; there are grades immediately above them that I do not see at present how they can be manufactured in this country in competition with the foreign goods. in competition with the foreign goods.

"Still my faith is strong in the ability of our manufacturers to make goods for this market. The woolen manufacturer of this country has within the past six months, to my knowledge, gained information that is worth the terrible cost it has been to him worth the terrible cost it has been to him of obtaining it. The impossible of twelve months ago is to-day a realized fact in woolen manufacturing. This is exemplified in the facility with which the manufacturer has supplied the Clay worsteds for this market this season, and he has a fighting chance to do so for next spring."

chance to do so for next spring."

Thomas H. Cullen, of Converse, Stauton & Cullen: "My impression is that all good manufacturers in this country will exist under the Senate bill, and it will be as profitable in the future as in the past. Some of the old manufacturers with old ideas and old machinery may have to step down and out, and will not be able to compete; but all well-equipped manufacturers certainly can exist under the bill and successfully compete with their foreign competitors."

James Philips, Jr., of Fitchburg Worsted Co.: "I think it is a very unjust schedule as compared with the cotton, iron, metal, silk and linen schedules."

A. W. Kingman, agent of the George H. Gilbert Manufacturing Co.: "In my judgment the effect of this Senate bill upon the wool dress goods industry of the United States will be to tend to develop a wider range of products.

"There is a question of just how far the

George H. Sutton, knit goods manufacturer's agent: "I should say that I believe we can adapt our industry to the bill; that it may necessitate the changing about a little of some of our qualities on cotton hosiery, but I think that the fact that the bill is likely to become a law will give us some immediate business, and I believe that we will be able to run our mills to better advantage than they have been run for a long time. The general idea, I think, is that it is time for us to take off our coats and shirts and suspenders and get right down and face the music; and I have not the least doubt that we will be able to do some business." George H. Sutton, knit goods manufac-

business."
F. Stanhope Philips, of Philips & Kunhardt: "I think the new bill will have a very damaging effect on the woolen industry of this country after it has been in operation six months. I think that the passage of the bill now will remove the uncertainty that has existed for over a year and which has produced stagnation in business to such an extent that the country

is absolutely bare of spring fabrics. The demand that will arise on account of this scarcity will be very great, so great that this iniquitous bill will not be able to damage the current spring business.

"So far as the duty according to the Senate bill on woolens is concerned, 40 to 50 per cent. protection with free wool would be at first glance to be sufficient. If the per cent. protection with free wool would seem at first glance to be sufficient. If the 50 per cent. were specific instead of ad valorem the American manufacturer might have a fair show. It is generally believed, however, that fraudulent valuations, which can readily take place under the ad valorem system, will reduce the real protection to 25 per cent."

Manton Metcalf, of Metcalf Bros. & Co.: "I think there will be a great business for the mills this fall. I think the domestic manufacturer will be able to compete with

"I think there will be a great business for the mills this fall. I think the domestic manufacturer will be able to compete with Bradford on plain worsteds. There is not the slightest question about this. We can deliver better and more honest goods for the same money. There will be a reduction in price of goods. Take, for instance, twelve-ounce Clay; they go at 80 cents; I don't know whether the American manufacturer can touch this price without making a still further reduction in wages. It is to be hoped he can."

Seth Milliken, of Deering, Milliken & Co.: "The woolen schedule will have a tendency to increase the price of fine goods in this country, and also increase largely the importations. When you stop the production of fine goods in this country you increase the price to the consumer. As to the low and mediums it is impossible to tell to-day what the result will be. In my judgment it means the destruction of the manufacturing of fine grades of goods here."

facturing of fine grades of goods here."

Clinton Blake, of Gowing, Sawyer & Co.:
"My opinion is that the passage of this bill will clear the atmosphere and relieve this market from the suspense which has come over the trade and this teacher with the

will clear the atmosphere and relieve this market from the suspense which has come over the trade, and this together with the low stocks of goods will enable manufacturers to make prices and place a fair amount of spring orders. The future cannot be absolutely determined at this time; but my opinion is that the tariff bill will not be found favorable to the woolen industries of this country."

A. F. Libby, of H. J. Libby & Co.: "We shall be very much surprised indeed if Mr. Cleveland can sign the bill on any ground. We doubt very much if it can stand with wool and lumber alone on the free list. As for the protection in it to woolen industries having free wool, of course we can adjust ourselves to the reduced protection, but it will be largely at the cost of wages. I have not studied the effect of the bill in all directions, nor have I studied it as to its effect upon the foreign and domestic wool market. I believe that the American manufacturer will adjust himself to the altered circumstances. I believe the immediate ufacturer will adjust himself to the altered circumstances. I believe the immediate effect of the bill will be to revive business, but not with any degree of confidence until Congress has adjourned and is out of the way of doing mischief."

Edward D. Page, of Faulkner, Page & Co.: "I think the bill contains almost as much protection as the McKinley bill, and wool dress goods manufacturers certainly should prosper under it."

Immediately following the interviews

Immediately following the interviews is a bold-faced advertisement, "Shoddy Mill for Sale." Whether the new law is a blow at the "shoddy" industry, as claimed, none of the interviews disclose an opinion, but the suggestiveness of the advertisement in connection with the general opinion that prices are to be lower and that American manufacturers are still to live and prosper, cannot be escaped. And why should they not prosper? The foreign manufacturer lives from his craft, and yet under the reduced tariff of the new law the American manufacturer can charge 40 to 50 cents on the dollar's worth more than the foreigner gets in our markets before the foreigner can compete with him.

There are many features of this new law which the KANSAS FARMER does not like. So also the McKinley law was from its enactment criticised as unfair to the tillers of the soil. The present law makes wool entirely free. subjecting the American wool-grower to open competition with the wool of all the world, whether produced with cheap or dear labor. In the case of wool, protection was of consequence to the wool-grower because this country produces very much less wool than it consumes, so that the grower was able to obtain for his clip the foreign price plus the duty, subject, of course, to such reduction as combinations of buyers were able to enforce.

But the reductions on the manufactured articles even more than offset the advantage which the manufacturer gets from his ability to buy his wool cheaper. Still the consensus of opinion is that the manufacturer will live. It is to be hoped that the consumer

will get both cheaper and better goods. It will be observed that there is no contention that any of these tariff changes affect the prices which the farmer gets for either breadstuffs or meats. It is reasonable to expect that dam being so high as to make a great he can the more easily endure low lake. Indeed, a great lake was formed

prices for these under the reductions on manufactured goods.

It is remarkable that many of the prominent manufacturers think that no reductions in wages will be necessary. How a reduction of duties from 163 per cent. to 40 per cent. can be made, as in the case of one grade of cloth in common use, without necessitating a reduction of wages, is one of the puzzles of the situation which the ordinary man will probably never understand. But farmers will be willing to wear the goods at the lower prices.

PHYSICAL CHANGES.

The uniformity of nature's methods and the constant repetitions by which she regulates her changes, create the impression that however men may come and men may go, nature, as typified by the brook, goes on unchanged forever. An exception will usually be allowed of the wind, which is proverbially uncertain, and of the weather, which is never exactly as expected, but is either the hottest or the coldest, the wettest or the dryest ever experienced by anybody until the "oldest inhabitant" is touched up and recounts that "in eighteen hundred and -— there was a spell of weather," etc., etc. So it appears that, after all, the fickleness of the weather and the unsteadiness of the wind, their phenomena are not new but mere repetitions of former

A writer in the land of the Dakotas, however, relates some circumstances of that land of flowing wells which may well cause us to question nature's uniformity. He says:

"It is an absolute fact, well attested, that the general level of the surface of the water in Devil's lake has lowered over seven feet. Another beach is seen above the present shore line where the lake must have been and stood for several years that, judging from the trees now standing here, must have occurred sixty or seventy years ago. The surface of the lake has been, at no very remote period, thirty-five feet above the present surface. This is distinctly shown by the beach lines on the north side of the lake. About one-half of this subsidence, it is stated, has occurred within the memory of men now living-thirteen feet of this subsidence has occurred since 1867.

"Stump lake-so called because its bed was once a forest-has, at its eastern extremity, a well-defined shore line in hard shale some three or five feet above the present water line, and only a few years ago the water was up to this point. There is a legend among the Indians at Fort Totten that many summers ago, maybe fifty-they are uncertain as to that—what is now Stump lake was then a forest and was used by them as a winter camp. But one fall when they went there they found, instead of the forest, a lake which was so deep as to cover the tops of the tallest

"Eight years ago Lakes Irvine, Hurricane and Lac au Morts were expansive sheets of water several feet in depth. Now they are grass-grown, and, in fact, a portion of the former bed of Hurricane lake is under cultivation. All that now remains of Church's ferry is the name. The 400 or 500 feet of water which formerly were ferried over are now replaced by waving grass. Where formerly from St. Paul butte, in the Turtle mountains, could be counted nearly threescore of lakes, now but twelve can be seen. It is beyond doubt that this region has experienced periods of greater dryness and humidity, and it may be that the present dry years are a variation in the curve which tends toward

increasing humidity." But, to come nearer home and go further back in time, we are told of physical changes in Kansas quite as remarkable as those which are reported to have taken place recently in the far north. Before the 1894 meeting of the Kansas State Board of Agriculture, President Sharp, of McPherson college, read an exceedingly interesting paper, in which it was shown that at some time in the past the present outlet of the Kaw river had been choked up with ice, the

by the intercepted waters flowing east through the Dakotas, Nebraska and Kansas. The accumulated waters, which may formerly have found outlet through the Missouri as now, were then restrained by the fields of ice and accumulated to great depth. The waters of the north poured southward through the valley of the Blue river. The high hills south of the Kaw presented a barrier not easily passed, but as the water was backed further and further up stream a soft place; and possibly a slight depression, was found through and over which the floods escaped into the Arkansas, thence into the Mississippi and the gulf. Prof. Sharp shows that this outlet was across McPherson county, and thus accounts for some peculiarities of the surface of that county. Later, when the ice fields, which must have been several hundreds of feet deep, disappeared, the water again escaped into the Missouri through the Kaw, through the Platte, through the Elkhorn, and the present order was established.

That such changes and many others as great have taken place in the past, the priceless investigations of Prof. Robert Hay have well shown as to our own State, and others well qualified have demonstrated for other sections. But that these changes were very slow, that they were ages in coming about; that generations might have lived during their progress disputing as to whether "the climate was changing" and have left the question still unsettled, is likewise fully believed by those who have investigated the sub-

The great physical cause of these changes, the cause which covered all northeastern Kansas and many times more country with ice, both winter and summer, is scarcely conjectured.

It thus appears that while, by patient research, men may read something of what has transpired in the recent and even somewhat remote past, they are yet so little informed as to the causes and they know so little of the cycles of time through which these changes have run; they are so ignorant as to whether the events of the past are to be repeated in the future, that it is the merest charlatanism for any one to set up as a prophet of cyclic events.

The Chaldeans and the Egyptians of ancient times devoted great attention to the study of these subjects and to the making of records for reference. These were followed by later nations, and by the aid of the records made some recurring events have been traced as to their periods. Among these may be named the star showers which occur with great brilliancy about three times per century. At the present time careful records of all observable phenomena are being kept. It is not impossible that these may some time indicate the cycles of changes not now known. The attention given to the weather is now greater than ever before, and it is to be hoped that the time may come when the business of the "weather prophet" will be superseded by intelligent forecasts based on long recorded observations. Of course such forecasts may be liable to interference from the greater changes which are shown to have occurred in times past, should they, as well as the minor events, be of the recurring sort.

Winter Oats.

EDITOR KANSAS FARMER:—I hear a great many of the farmers of this Territory talking about "winter oats." They claim that these oats are sowed in the fall and they have the second of the fall and they have the second of the fall and they furnish good pasture—far surpassing wheat
—and yield an excellent crop of oats the -and yield an excellent crop of case the following year. Do any of your readers know anything about the merits of these oats? Where can I get some of these oats for seed? Parties who have tried them here claim that their yield per acre is much larger than the oats we sow in the spring.
H. H. HAGAN.

Guthrie, Okla., August 18, 1894. Referred to Prof. Georgeson, who replies:

"There are several varieties of hardy, or winter oats, which can be used for pasture during fall, winter and spring, about as rye is used, but I am not aware that their yield exceeds that of spring-sown oats. Any seedsman can furnish the seed."

Get up a Club for KANSAS FARMER.

FARMER'S ACCOUNT BOOK.

The keeping of farm accounts is one of the important elements of farm prosperity which is too often neglected. This results largely from the feeling of uncertainty as to the correct method of making the entries. This is entirely overcome by the use of a book prepared expressly for the farmer and embracing a system both simple and satisfactory. Anybody who can write can keep all necessary accounts intelligibly by the use of this book. The KANSAS FARMER has, during the past, supplied many of its subscribers with copies of this book and has given them the advantage of discount rates, whereby they obtained a \$2 book for \$1. The FARMER Company has just now bought out the entire stock of these exellent books at panic prices and is now able to supply it to any subscriber, postage or express prepaid, to any address in the United States, for only 60 cents, or as a premium for three subscribers and \$3. The book contains 222 pages, 8x12 inches in size, substantially bound in cloth-covered boards.

The following is the table of con-

	tents:		
		P	age.
	Directions and Explanations		4
	Introductory		
	Diagram of Farm.	1000	B
	Inventory of Live Stock		7
	Inventory of Farm Implements,		15
,	Inventory of Produce on Hand		28
	Cash Received from all Sources		82
	Cash Paid Out		33
	Field Account	000	63
	Live Stock Account		79
	Produce Account		91
	Hired Help per Month		103
	Hired Help per Day		119
	Household Expense		131
	Accounts with Neighbors	0,06	147
	Dairy and Fowls	SIGN	155
	Fruit Account		167
	Notes and Obligations Owing		175
	Notes and Obligations Due You		.179
	Interest, Taxes and Insurance		188
	Physician and Druggist Account		187
	Miscellaneous Accounts		191
	Improvement and Repairs		
	Weather Report		203
	Recapitulated Annual Statement		
	Useful Information, etc		219
		2911	

The sooner you adopt the business methods of all money-makers, the sooner you will begin to correct mistakes and prosper.

Weekly Weather-Crop Bulletin.

Issued by the United States Department of Agriculture, in co-operation with the Kansas State Board of Agriculture, for the week ending August 27, 1894, T. B. Jennings, observer:

An abundance of rain has fallen in the extreme southwestern counties, with light rains through the remainder of the western division. Little or no rain has occurred in the middle division, while in the eastern generally fair to good rains have fallen south of the Kaw, with light to fair rains north. The rainfall amounts to two inches and over in Bourbon, Crawford and Cherokee.

The temperature has averaged 50 above normal daily, while the sunshine has been less than the average, owing to the smoky condition of the atmosphere.

The fine rains in the southwest have improved pastures and late crops very much and fall plowing has commenced.

In the middle division the conditions have not improved. In the eastern division there has been an improvement, slight in some parts but decided in Anderson, Linn and Bourbon, while in Crawford and Cherokee, where the season has been favorable, the crop conditions are much above the average. Corn is being very generally cut and shocked. Haying is practically done and the crop is light. Apples still continue falling badly, are being ripened by the dry weather which leaves them small; grapes and tomatoes likewise. In Cherokee, where the crops are fine, tomatoes are selling for 20 cents per

Homes for the Homeless.

The opening of two Indian reservations in northeastern Utah to settlers opens up over three and one-half million acres of fine agricultural and stock-raising land for home-

The Uintah and Uncompangre reservations are reached by the only direct route, the Union Pacific system, via Echo and Park City. E. L. LOMAX, G. P. & T. A., U. P. system, Omaha, Neb.

The Kansas Weekly Capital publishes more Kansas news than any other weekly paper. A free sample copy will be sent on application to THE TOPEKA CAPITAL Co., Topeka, Kas.

Borticulture.

DRYING PEACHES.

In some parts of Kansas there is this season such a peach crop as to make it desirable to dry some of the fruit. It is always well to know the best way, and for the information of those interested we reproduce from the Rural Californian some well-considered suggestions by J. E. Straw:

"To produce only a prime quality of dried fruit implies that every move must be thorough; no half-way and careless work will do. Not only should it be carefully picked from the tree in baskets, and from them poured into fifty-pound boxes, delivered to the cutting and pitting shed and graded, but all imperfect fruit—culls—should be first eliminated. By imperfect fruit is meant malformation, bruised, warry or wormy specimens. Only sound fruit should find its way to the trays. Next, as to grading. It pays to grade as to size in apricots and peaches, not only because the larger specimens bring better prices dried, but uniformity enhances the values of all grades. There is another advantage in drying: When ungraded fruit is piled promiscuously on the trays it dries unevenly-the small will be dry enough to remove while the larger fruit will yet be too green. If we wait until it is sufficiently evaporated or sun-dried, the smaller samples will have become as hard as bone and as tough as leather. Thus grading facilitates drying, secures a better product of dried, and of course commands a correspondingly better

"Touching the proper condition of ripeness at which apricots and peaches should be picked, is rather difficult to express specifically in words. Generally speaking, apricots and peaches should be 'full ripe'—somewhat more than 'hard ripe,' and yet not too ripe. Above all they should not be green. Unripe or green fruit produces a wretched article of dried fruit, while over-ripe fruit is apt to 'spread' and presents a neglige appearance dried. It will not retain shape and form so well as that picked just at the right time, and of course loses correspondingly in commercial value. From a purely utilitarian point of view it is wholesome and not deleterious as an article of food like the under-ripe. Possibly the best way to express what is meant by 'full ripe,' is to say when the fruit has attained its full bloom and lost the 'hard' feeling that is so pronounced in green fruit; it presents an elasticity, not a soft, sensation to the touch. The riper it can be had, and yet not be 'mushy,' the better.

"Most of the cutting and pitting of these fruits in southern California is done by hand. There are 'a number of fruit pitting machines on the market, several of which possess sufficient merit to justify their more general use, but owing possibly to their cost and other contingencies have not come into general use. The fruit should be cut entirely around, and the pit deftly thrown or lifted out. Under no circumstances squeeze or push it out, thereby jamming and breaking the natural for-mation of the pulp. This bad practice has been the direct cause of lowering the grade of much fruit that might amount of bleaching is desirable. He

"Having now got our harvesting. cutting and pitting under way, trays will next command attention. The regulation tray used by the largest growers hereabouts is 3x3 feet, made of one-half inch sugar pine, with ends of inch stuff two inches in depth, and sides of half-inch stuff and threequarters of an inch in depth. These trays can conveniently be handled by one man, and the opening or less depth to the sides allows the free and full circulation of the sulphur fumes when applied. These trays can be used either stacked by themselves or put into racks, the side opening affording every facility for the thorough circulation of the fumes. In filling the trays care must be taken to lay the fruit cut side up exposed to sun, and only one layer to each tray. The drying grounds should be kept scrupulously clean and be chosen with a view to securing the

length of time it requires to properly dry the fruit largely depends upon the state of the weather. Along the coast it generally takes from four to five days; further inland where the air is drier and the sun warmer, less time is of course necessary. Possibly a good criterion is when the fruit does not feel sticky when taken between thumb and finger and is reasonably pliable. To bone dry is to deteriorate both the eating and selling qualities of the fruit, and should therefore be avoided. From the trays the fruit should be sacked ready for market; it will be found advantageous to do this while the sun is shining, as then there is less liability of moths and millers laying their eggs on much of the fruit. Some growers and dryers observe the practice of sweating their dried fruit before sacking for market. This is done by removing the fruit from the trays and putting it into bins in a perfectly dark room. This keeps out all insects and 'livens up' the fruit, making it pliable and more even in quality.

"So far I have made no allusion to sulphuring. On this subject there is considerable difference of opinion, not only among fruit-growers, but also in the trade, not to mention the learned men of medical science and physics. Most growers, however, believe in sulphuring in some form or other. That it enhances the appearance of the fruit there can be no question, while in the opinion of others it also deteriorates its eating qualities. There is another consideration, however, in favor of sulphuring, and that is that it has a tendency to repel insects, and of course thereby lessens the chances of wormy fruit. D. Edson Smith, of Santa Ana, lays down the rule that 'as fast as a tray is filled put it into the sul-phuring box, and when the box is full ignite a small teacupful of sulphur under the trays of cut fruit, close tightly and let it remain two hours. Use sulphur enough so that when the fruit is taken from the sulphur box there is liquid in each half where the pit was taken out.' Mr. S. R. Thorpe, who has had considerable experience in this direction, is of the opinion that 'probably the most important part of the drying is the bleaching. For this the best sublimed sulphur—French or the Brooklyn brand -should be used.' Prof. Hilgard is

pointedly gives his reasons as follows: pointedly gives his reasons as follows:

"Sulphurous gas, which is formed when sulphur is burned, as is well known, is constantly used as a disinfecting, bleaching and deodorizing agent, second in virtue only to chlorine. The fact that it is the agent officially used in the disinfection of infected houses, ships and individuals is conclusive on these points. It is, therefore, idle to pretend that sulphuring does not diminish the flavor of fruit, or of anything else touched by it. It is perfectly certain that it does so; and the only debatable question is the extent to which it may be used for bleaching fruit without any material detriment in the flavor.

"It is in evidence that a reasonable

strongly opposed to sulphuring, and

"It is in evidence that a reasonable amount of bleaching can be done by apply-ing the gas to the freshly cut fruit without injuring the flavor to a material degree, since the flavor will penetrate from the inside outward to a sufficient extent to compensate for the loss of what naturally belongs to the bleached exterior portion.

"Mr. Tracy Abbott, who has had some fifteen years experience in fruit drying, is of the opinion that a small otherwise have passed for prime recommends about three-fourths of a pound of sulphur to about 1,200 pounds of green fruit. Specifically he uses this amount to about sixty trays 3x3 feet in size, and estimates that on an average each tray contains about twenty pounds of fruit. His practice is to allow the trays to remain under the influence of the bleaching not less than three hours. Others say less time will do equally well. One fact must be strenuously observed, and that is this: The object of sulphuring is not to 'bleach' the fruit, but to retain its natural color and form. Consequently only a sufficient amount should be applied to sear up the outside of the fruit, and the quicker this is done after it has been cut and pitted, the better; indeed, if the cut fruit can possibly be put under the influence of the sulphur fumes immediately after the pit has been extracted, the best results will be obtained at the least expense of its eating qualities.

"The shrinkage in weight due to clusive.

direct rays of the sun all day. The drying the apricot and peach, in pounds is about 5.56 of green to 1 of dried of the former, and 6.04 of green to 1 of the latter. At least this was the result of careful observations made by a number of drying establishments in 1893. Of course some allowance must be made between irrigated and non-irrigated fruit, and also between a season of heavy and light rainfall."

The Kansas Current.

EDITOR KANSAS FARMER:-By this name I speak of the wild black current peculiar to western Kansas. I do not know how far its habital extends. There is a black Missouri currant, a Colorado currant, and a Black Hills current, and it may be the same as any or all of these, but the latter has, I am told, both red and black varieties. A description of these but slightly known varieties of this valuable fruit, from some of our experienced horticulturists, would make interesting reading and would doubtless lead to their more extensive culture and propagation from them of new varieties which would have the quality of resisting drought in which the tame varieties are quite deficient. The Kansas current is quite different from the black currant of Iowa, both in leaf and fruit, the latter having a strong, unpleasant flavor and a leaf similar to the tame current, while the Kansas current is pleasant to eat when ripe and when cooked in any form is, I think, equal to any of the tame varieties. Its leaf few would recognize as a current, it being deeply cut and its surface smooth as satin. Exposed to our hot and drying winds it makes a bush six feet high and four feet across, while the tame currant similarly placed rarely exceeds one-third this size. Its blossoms are nearly an inch long, golden yellow with red stamens, and, being sweetly scented, it is a very attractive shrub when in full bloom.

I have never seen the Crandall cur rant, but have read that it is identical with our wild ones, having been propagated from a choice specimen taken from our woods. I believe this state-ment, but may be mistaken. There is a great diversity of opinion about this currant. Mr. B. P. Hanan, a Kansas nurseryman of great experience, has expressed to me a high regard for the Crandall, while J. A. Sage, of Fairbury, also of wide horticultural experience, writes me that he would not give it nursery room.

In the spring of 1891 I planted sev eral rows of this current in my orchard, small plants from the woods. They made great wood growth every year since, but failing to give any adequate return in fruit I determined to remove them all this spring. Pressure of other work, however, prevented me from carrying out my intention, and I was very glad that it did so, as I never saw bushes heavier set with fruit than they were this summer. The fruit was more conspicuous than the leaves and the outer branches were mostly bowed to the ground with weight of fruit. The yield from several of the largest bushes was twelve quarts from each. As the extraordinary frost of May 19, which killed all of our large fruits. did not hurt these currants in the least, I conclude that they are of especial value for western Kansas and every locality where dry atmospheric conditions prevail. Their season, too, is very long, being this year from June 10 to August 10. They are more a family than a market fruit, as they ripen quite irregularly, green and ripe berries being found nearly always on the same bunch. For home use, however, this is not a material objection. as they are equally good for cooking. Their size ranges from less than onefourth to fully half an inch in diameter, being larger than our tame ones.

JNO. J. CASS. Allison, Decatur, Co., Kas.

People with hair that is continually falling out, or those that are bald, can stop the falling, and get a good growth of hair by using Hall's Hair Renewer.

Going to Pittsburg?

Best route from West via St. Louis or Chicago is Vandalia & Pennsylvania Short Lines. Vestibule trains run into Pittsburg Union station, convenient to headquarters, hotels and boarding houses. Low rate tickets over these short routes will be sold September 5 to 10 inclusive by connecting lines, good returning until September 25 in-



Mrs. C. J. WOOLDRIDGE, of Wortham, Texas, saved the life of her child by the use of Ayer's Cherry Pectoral.

use of Ayer's Cherry Pectoral.

"One of my children had Croup. The case was attended by our physician, and was supposed to be well under control. One night I was startled by the child's hard breathing, and on going to it found it strangling. It had nearly ceased to breathe. Realizing that the child's alarming condition had become possible in spite of the medicines given, I reasoned that such remedies would be of no avail. Having part of a bottle of Ayer's Cherry Pectoral in the house, I gave the child three doses, at short intervals, and anxiously waited results. From the moment the Pectoral was given, the child's breathing grew easier, and, in a short time, she was sleeping quietly and breathing naturally. The child is alive and well to-day, and I do not hesitate to say that Ayer's Cherry Pectoral saved her life."

AYER'S Cherry Pectoral Prepared by Dr. J. C. Ayer & Co., Lowell, Mass.

Prompt to act, sure to cure

SURELY CURED. To THE EDITOR—Please inform your read-

ers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been per-manently cured. I shall be glad to send two bottles of my remedy free to any of your readers who have consumption if they will send me their express and post office address.

Respectfully, T. A. Slocum, M.C., Respectfully, T. A. Slocum, M.C., No. 183 Pearl Street, New York.



Douclas SHOE IS THE BEST.



5. CORDOVAN, 4.53.50 FINE CALF& KANGAROO \$ 3.50 POLICE, 3 SOLES. \$250 \$2. WORKINGMENS EXTRA FINE. \$2.\$1.75 Boys'SCHOOLSHOES. **LADIES **
\$3.250.92.91.75
BEST DONGOLA **
SEND FOR CATALOGUE **
W.L. DOUGLAS,

You can save money by wearing the W. L. Douglas \$3.00 Shoe.

Because, we are the largest manufacturers of this grade of shoes in the world, and guarantee their value by stamping the name and price on the bottom, which protect you against high prices and the middleman's profits. Our shoes equal custom work in style, easy fitting and wearing qualities. We have them sold everywhere at lower prices for the value given than any other make. Take no substitute. If your dealer cannot supply you, we can.

MABOVE FACTORY \$8.78 buys a **\$65** Singer Style Machine. \$19.88 buys Highest Grade modern style ma-chine in the world. 25 different styles at intermediate prices.

warranted Ten Years.
We are the only manufacturers selling sewing machines direct.
Liberal terms for securing a Sewing Machine FREE.
CHICAGO SEWING MACHINE CO., CHICAGO, ILLA.

The FARMER has made arrangements by which we are enabled to make a number of good Premium Offers for new subscribers, those interested in ruising a OLUB shored and us postal card for Premium Supplement.

In the Dairy.

Conducted by A. E. JONES, of Oakland Dairy Farm. Address all communications Topeka, Kas.

THE BILL SHAW MILKER.

Bill Shaw, editor of Texas Farmer, is a great hand to tackle every agricultural device that is put on the market. For years he has been trying his utmost to induce the editor of the Harpoon to give up the study of politics, journalism and theology, and go into the patent right business right. For years we have evaded his arguments and solicitations, and so long as we could keep out of his reach we were pretty safe, but while Bill and the writer were in New York recently, in company with Governor Hogg and other capitalists, the Farmer got in his work, and we were induced to become general soliciting agent for a patent cow-milker called the Bill Shaw Milking Machine. It was a very complicated piece of machinery, but once you got the concern buckled onto a cow it would pump her as dry as a nigger on election day in two and seven-eighths minutes, Central time. Bill was very enthusiastic and he has a peculiar way of imparting his enthusiasm to others and after he got us in the notion we were quite enthusiastic ourself, and could see tubs of cool, sweet milk and mountains of rich, golden butter sparkling in the sunlight. The trip was, of course, pleasant, and we enjoyed it immensely, but we were glad when we crossed into the Lone Star State at Texarkana, and our crowd began to split up for their respective homes.

We went on to Dallas and inspected Bill's "milking machine," and had one shipped to Tyler as a sample. It consists of a frame of wood, the legs standing far enough apart to allow a cow to be driven or dragged inside the frame, when, before she knows it, she is milked and fired out to pasture. The milking machines are intended for fine-blooded milkers, and when we proposed to try it on old "Speck," our long-horned east Texas fence-smasher, our wife urged us not to do it. She said that the old-fashioned way of tying "Speck's" hind legs together and her head to a tree was perhaps a little slow, but there was an element of safety and certainty about it that was an absolute joy forever. The more she tried to induce us not to try it the greater our determination to practice on "Speck." In fact, we had it in for our cow, on account of numerous cups of milk which she had at sundry times deposited in our face, or, missing that, had spattered it against the blue sky above. We went out and hired three good able-bodied niggers, and proceeded to put old "Speck" into the machine and buckled up the straps and running-gear. At the very start she was unruly, and when one of the niggers got to turning the cog wheels and chawed off about a quarter of a yard of "Speck's" off ear she got outrageous, and we could scarcely prevent her breaking away. We finally got "Speck" conquered, all the machinery was adjusted, the bucket placed to catch the milk, a big nigger seized the crank and began to turn. At first 'Speck" paid no attention to it, but finally the suction valves began to work. Then a look of astonishment began to spread over face, and exout to the tips of her horns. She tried to turn her head to catch sight of the queer sort of a calf that was extracting the milk, but the straps held her firm. She finally got to squirming and twisting, and I told the nigger to turn faster, as I wanted to milk about six gallons of devilment out of old "Speck." The faster he turned the more her eyes stuck out and the hair on her back stood straight up. She finally got to bellowing, and all the small boys, dogs and neighbors within the corporate limits came over to see what was the matter. At last I noticed a concave spot across old "Speck's" loin about the size of a watermelon, so I told the nigger to let up. We unbuckled the straps and turned her loose; when, instead of stopping to eat

flag-staff, gave a "Mogul" engine snort, jumped the ten-rail fence four feat "clear light," and headed for Black Fork swamp. This was six days ago, and "Speck" has not come back. We had a letter from W. E. Foster, of the Canton Telephone, saying that something passed his office last Tuesday, and it went so fast he couldn't tell whether it was "Speck" or Colonel Kilgore running for Congress. On examining the milk bucket we found not only the regular morning's milking, but two milking's in advance and one of 'Speck's" kidneys.

We regret exceedingly that we are unable to continue as agent for the "Shaw milker." While we like a success in all lines of business, this machine rather overdoes the thing. We consider the suction entirely too strong unless you want to draw a draft on a bank one thousand miles away. By reversing the machine it could be used to suck artesian water to the surface. Unless "Speck" shows up this week, we propose to charge her up to the firm, and unless Bill Shaw pays for her we will proceed to levy on the milker now in our possession. We can probably sell it to the third party, to be used as a drawing card in the coming election. -Tyler Harpoon.

Guernsey Cows as Economical Butter Pro-

EDITOR KANSAS FARMER :- Perhaps no breed has so honestly won their high rank as butter-producers as have the Guernseys. Never forced for large records, they have always stood upon the work they would do at the pail or churn. It is especially gratifying to notice how they are received in the sections where they are introduced. Go into New England, down the Hudson in New York, eastern Pennsylvania, Delaware and New Jersey and into Wisconsin, and you will see not only fine herds of thoroughbreds but you will notice that the dairymen of those sections have been impressed with their fine, substantial, businesslike appearance and golden colored products, and have drawn on the breed to grade up and improve the dairy stock of those sections. Their ability to produce butter fat and butter at a low cost demands the attention of all dairymen. At the New York Experiment Station several of the dairy breeds are being carefully tested. The recently issued annual report of the Director gives the results of the first two periods of lactation. In both instances the Guernseys produced butter fat at the least cost, as the following shows:

COST OF BUTTER FAT PER POUND. First period. Second period.

Guernsey18.4 c	ents.	15.6 c	ents.
Jersey20.0	**	18.5	
Devon23.0	**	19.0	**
Ayrshire24.3	**	24 8	**
Am. Halderness26.3	**	22.8	**
Holstein-Friesian. 26 3	**	26.4	**
mi. t	4.9		

This agrees with the work done at the New Jersey Experiment Station, and with the average results of the butter tests at the World's Fair.

COST PER POUND OF BUTTER PRODUCED. New Jersey. World's Fair

Guernsey .15.3 cents.
Jersey .17.9
Ayrahire .20.6
Short-horn .20 8
Holstein .22 4 13.1 cents. 15.8 This shows the Guernseys to be the

most economical producers of butter; and such golden, yellow butter, too! There is no mottled color to it. This true, golden, cow color is the mo tractive feature on the market. It is truly said that the Guernseys have but to be tried to be appreciated.

WM. H. CALDWELL. Peterboro, N. H.

Good Butter.

But a small part of the butter sold in the Boston market is what is termed "gilt edge," yet the makers of this fancy article are those who reap the profit, and the secret of their success is cleanliness.

Perfume manufacturers realize the importance of fat as an absorbent of odors. In fact there is no substitute for it. Attar of roses is simply fat saturated with the perfume of roses.

This collecting of odors is precisely her cotton-seed, she took one hasty glance at the "Shaw milker," stuck actually doing to-day. A little filth is also important to give them dry

HERE is but one way in the world to be sure of having the best paint, and that is to use only a wellestablished brand of strictly pure white lead, pure linseed oil, and pure colors.*

standard "Old Dutch" process, and The following brands are are always absolutely

Strictly Pure White Lead

"Southern," "Red Seal," "Collier."

*If you want colored paint, tint any of the above strictly pure leads with National Lead Co.'s Pure White Lead Tinting Colors. These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead.

Send us a postal card and get our book on paints and color-card, free.

St. Louis Branch, Clark Avenue and Tenth Street, St. Louis.

NATIONAL LEAD CO.

cream), gathers the odor and holds it; but this is not all; butter made from this cream may be contaminated so little as to leave the maker's hands apparently sweet, but the seed is there, and sown in good soil. The germs of the filth multiply, and by the time this butter is offered for sale the taint has so increased as to force its sale at cost, or perhaps less, with very little satisfaction for any one concerned. It is the money over and above cost that all butter-makers most desire, and this profit very much depends upon clean stock.—Exchange.

The Poultry Hard

Early Moulting Hens.

As a rule, when the hens begin to moult early in the summer they cease to lay, the result being that they are at once sent to market as no longer profitable. This is a mistake, for all hens must shed their old feathers and take on new plumage, some beginning early in the summer, while others do not commence till late in the fall, but the process requires about three months' time. In other words, a hen takes one-fourth of the time during the year to moult, giving her a period for laying not exceeding 300 days at the

The moulting period has something to do with winter laying. Granting that three months' time must be lost, it is plain that if a hen begins to moult the first of August, she will not be in full plumage again until the first of November, and she will not lay again until the moulting has been completed. If the weather is mild, however, during November, and winter does not set in before December, she will have a full month's rest, and will begin laying and then continue laying through the winter. Hence this rule must not be overlooked, which is, that if the hens begin to lay before cold weather they will lay during the winter, but if cold weather overtakes them before they begin to lay they will probably not lay before spring.

What then should be done with the hens that begin to moult early? Keep them, of course, as they will soon finish moulting and be ready for work long before some of the other hens begin. When you sell off the hens now because they are shedding their feaththe very hens that you should keep over for producing eggs during the cold months. So do not sell the moulting hens, but sell those that are fat and do not lay. Old hens moult earlier than the pullets, because they begin about eleven months from the last moulting, which causes them to moult a month earlier every year, and therefore it will be noticed that the hens which moulted in July last year will moult in June this year.

Feeding of the moulting hens is a matter to receive careful consideration. When making the new feathers they require food rich in nitrogen and mineral matter. Linseed meal, bone, meat and milk should be given in preference to grain, and they should have free her tail as straight up in the air as a gets into the milk, the fatty part (the quarters, so as to protect them when at all hours of the day and night.

nearly naked, as dampness may induce roup, which is contagious and may carry off the whole flock .- P. H. Jacobs, in Farm and Fireside.

Poultry Notes.

A small flock well cared for will pay more dollars than a large one neg-

Market your eggs when fresh and you will establish a reputation that brings money.

Feed little corn to the hens these hot days. Wheat or middlings make the best foundation for eggs.

Don't feed surplus cockerels until they become "old roosters." It takes corn and cuts the price to do it.

Some who supply customers regularly with fresh eggs use a rubber stamp to mark on each egg the date on which it was laid.

Gather the eggs daily, store in a cool, dry place and find, as far as possible, private customers that will take eggs weekly or oftener.

When shipping poultry long distances supply the coops with corn and water. Do not mix a lot of meal and compel the eating of sour stuff.

The hog has been called the mortgage-raiser. Have you ever tried to see what a few hens well cared for will do toward preventing a mortgage.

If you have old hens that are to be disposed of this fall it will pay to sell as soon as they quit laying. Grain is money, and fed to fat hens that are not laying it will bring no paying returns.

We hold that no farm is properly stocked unless it has at least a small flock of fowls that are not half roosters and that no farm is properly managed if the hens are not taken care of regu-

If you are supplying "fresh eggs" to customers and happen to find a new nest in the straw pile or elsewhere, do not put the contents with the eggs you sell. Keep them for home use and you can "try them" when breaking. People that buy fresh eggs of private parties do not expect to have to "try" them before using—that is why they pay the extra price.

An interesting egg-laying contest is in progress under the auspices of the National Stockman and Farmer. It is to cover a period of one year and is participated in by over two hundred contestants, who have varying numbecause they are shedding their feath-ers, and do not lay, you will be selling three to two hundred. A similar contest was conducted four years ago in which first place was won by a pen of Single-Comb Brown Leghorns, which averaged 2221 eggs each during the year. A pen of Silver-Laced Wyandottes stood second, with 2001 eggs each. In the present contest the first six months closed August 1, with a pen of eight Single-Comb Brown Leghorns ahead with a record of 1,255 eggs to their credit, or nearly 157 for each hen and six months more for industry. Second place in the present contest is held by a pen of nine White Plymouth Rocks, with a credit of 1,295 eggs, or nearly 144 to each hen.

> A dose of Ayer's Cherry Pectoral taken in time has prevented many a fit of sickness and saved numerous lives. This proves the necessity of keeping this incomparable medicine where it can be readily reached

GOSSIP ABOUT STOCK

The latest in the way of stock feed is wheat meal made from low-grade wheat that is being sold at \$18 per ton. It resembles fine middlings. It is claimed that corn meal costs \$22 per ton.

E. J. Nuzum, the banker of White Cloud, Kas., was among the visitors. He says Mr. Zimmerman, of Troy, Kas., is feeding two bushels of wheat per day to seventyfive shoats and is getting a gain of seventy five pounds of pork per day as a result. He thinks wheat feeding pays big.—Drover's Journal.

At a recent public sale of Short-horns in England there were sixty-one cows and calves sold, at an average of \$204.04 each, and thirty bulls at an average of \$220.48 each. The highest price for any animal was \$700, for the bull Royal Senator. The highest price paid for a cow was \$600.

The Texas, Illinois, Kansas and Missouri Boards of Live Stock Commissioners are arranging for a series of experiments to be conducted under the direction of the Bureau of Animal Industry, to ascertain whether Texas cattle which have been cleaned of ticks will communicate the fever to natives. The "tick" theory has been held by some as the real solution of the fever problem, and it is hoped to throw light upon the subject by the tests proposed .- Breeder's Gazette.

Kansas is more fortunate in having 40 per cent. of an average corn crop than her sister States Nebraska and Iowa, and every shrewd farmer safely predicts high prices for hogs next year, consequently he is quietly stocking up with the best blood obtainable for next season's operations. No more opportune time has occurred in years than now to let the scrub go and breed up a more growthy and early maturing herd. Those that have the two inclinations, viz., the intention and the means at hand, may profit by attending Wise's sale of Poland-Chinas next week, on Friday, the 7th, at Hiawatha, and get just what you want.

The Kansas Farmer takes pleasure in calling the attention of its readers to the public sale advertisement of Poland-China swine which will be made by Mr. W. H. Babcock, of Hiawatha, Brown county, Kansas, on Wednesday, September 19, 1894. On reference to Mr. Babcock's advertisement, the reader will learn more concerning the breeding of the herd and points concern-ing the sale. Our field man reported the herd at length which appeared in our issue of August 8. For additional points write Mr. Babcock for a copy of his free catalogue. More will appear in the FARMER concerning the herd in next week's issue, but if you want breeding animals that are growthy, early-maturers and prolific, make up your mind and attend the sale and get what you

Mr. George W. Berry, the well-known Berkshire breeder, whose farm of 280 acres lies near Berryton, Shawnee county, nine miles south of Topeka, on the Missouri Pacific railroad, lately entertained our field man, Mr. Brush, who reports that the herd was founded in the fall of 1885, and has from time to time been strongly re-inforced by the best American and English Berk-shire blood. That the reader may the better understand the value and usefulness of the herd as it now is, a brief review of a part of the individuals is herewith given. Among the first looked over was a lot of seven young boars farrowed spring of 1894. Four of these toppy fellows were sired by Longfellow's Model 27058 and the others were by the very excellent sire Major Lee, that has gone to do service in the herd of Mr. C. S. Cross, of Emporia, Kas. The best individual, perhaps, of the lot, is an April 18, 1894, farrow, got by Longfellow's Model. The six are a last of March farrow and will weigh now, on an average, about 135 pounds each. In an adjoining paddock a royally-bred youngster was seen that is sure to attract the attention of any visitor, be he Jew or Gentile. He has been christened Majestic Lad 32201, was bred by Metcalf Bros., Elma, N. Y., and sired by Imp. Royal Hayter 30457; dam Imp. Majes tic 30459. Both dam and sire were prizewinners at the New York and the Ohio State fairs, as well as at the World's Fair. Majestic also won champion prizes at several of the English shows in 1892. Three of her last litter that were farrowed on English soil sold for \$287 when four months of age. At the World's Fair she farrowed a litter of eleven and Majestic Lad was "one of the boys." He has a clean dished face, wide between a pair of full open eyes, neat upright ear, combining with other points a neat and well-finished head set on a high-crested neck, balanced by a wellproportioned jowl. His wide, deep shoulder and chest are followed by a broad back supported by a remarkable well-sprung rib, a well-down flank and extra deep well-down to hock hams. He stands on a short, to hock hams. He stands on a short, smooth bone, well up on toes and sports a fine black coat, star in forehead, four white feet and carries a white flag in the latest regulation Berkshire style. Three of his sisters were lately looked over by us on the farm of Mr. J. S. Magers, near La Cygne,

Kas., and after a careful comparison the visitor arrives at the conclusion that the get of Royal Hayter out of Majestic are among the tops and hard to excel. another run, Longfellow's Model 27058, that was farrowed August 25, 1890, was called up for inspection. He was sired by Longfellow 16835, the greatest of Berkshire kings, he having sired a majority of the prize-winners shown up to date in American Berkshire show rings, and his descendants won seventeen out of a possible eighteen first prizes at the World's Fair. The dam of Longfellow's Model, Lady Lee VII, was by Model Duke, that was sold by Mr. Gentry, of Sedalia, for \$750, and went to California. This is one of the cash sales about which there has been no controversy nor doubts entertained concerning its reality. Perhaps some of our readers will remember the grand dam of Longfellow's Model, Emma Lee, that won sweepstakes at Lincoln, Topeka and St. Louis, in 1888. After looking over the subject one finds that he scales in length sixty-eight inches and in heart and flank equally as good. His fore leg spans nine inches and the hind one nine and one-half. Stands well up on oes, good smooth bone, and would weigh, if put in professional show ring condition, close on to 900 pounds. The day that he was ten months of age he tipped the beam at 480 pounds, which confirms one in the belief that his get ought to be, and in fact are, of the early-maturing kind. The visitor will find the female division of Mr. Berry's herd a very interesting and strong one, so much so that a brief description is warranted the time and study of the reader. It is doubtful if a more even lot of brooders is now collected in any one Kansas herd of any breed. After bringing them up in a front face array line, Silver Tips XVII 31134 may, by some, be selected as the first choice queen of the harem. She has to her show ring record first and sweepstakes and was a member of the first herd at the Kansas City fair of 1893. In conformation she has a wide, well-dished face, with short tapering nose, fine, erect ears, short, full neck full jowel, a round, full and deep chest, well-down in brisket and flank, the most approved model ham and nicely turned all over. Her great size is finely modified by her finish and style, which takes after the quality of her sire, Longfellow's Model. Her dam was Silver Tips IX, by Volunteer 18514, another son of the great Longfellow. Thus the reader will see that she has a double infusion of the blood of the greatest Berkshire sire in American Berkshire history. Closely following in line was Silver Tips XV 29829, got by Longfellow's Model. So good is she that one almost concludes that there may possibly be two first place queens in the herd. Others immediately answer to roll call—Silver Tips XI 29826 followed by Silver Tips XIV 29829 and Rosa Lee 31140, all three the daughters of On-ward 25383. They have inherited from their sire immense forms, having broad arched backs, good, deep, full hams and possess great brooder characteristics. Another good one is Laura Lee 27300, bred by Mr. Gentry, that has proven herself a very valuable brooder, producing individuals that are always growthy and among the first to leave the farm. Once in sight, the visitor very naturally asks about the breeding of Zenobia 28445, whose conformation, style and quality attracts close inspection. She is one of the best of Mr. Cowles' famous 'Clover Blossoms" and is worthy a front place in any herd. Another one, the yearling Royal Empress III 32684, is very similar to Silver Tips XVII in outline, style and finish, in reality that type that best pleases the well-up modern Berkshire breeder. She was sired by one of the best that Mr. Gentry ever bred, Admiral 29840. Her dam was Royal Empress 27928 by Royal Champion. Space forbids a further notice of the females further than to state that these mentioned, with others, are all bred for early fall litters to Longfellow's Model and the grand young fellow, Majestic Lad, that we wonder why Mr. Magers parted with before he had grown out of his pig form, as we consider the young "laddie" one of the best Berkshires in the West. The individuals that comprised the first prize herd at the Kansas City fair of 1893 vere Silver Tips XI 29826, Silver Tips XIV 29829, Silver Tips XVII 31134 and Laura Lee 27300, headed by Longfellow's Model 27058. The sows have all farrowed since and are now in splendid breeding condition. Mr. Berry decided early not to fit up a show herd this year, hence one may expect something extra good in the coming fall pig crop. Kingscote Belle VI 31634, one of the best female Berkshires in the entire swine field, has been bred to Majestic Lad, and if no mishap overtakes the promise something very desirable is to be expected. A few good gilts, Mr. Berry says, could be spared

Our readers should bear in mind that next week, on Friday, September 7, the

UNION STOCK YARDS, CHICAGO.

(Consolidated in 1865.) The largest live stock market in the world. The center of the business system from which the food products and manufactures of every department of the live stock industry is distributed.

Accommodating capacity: 50,000 cattle, 200,000 hogs, 30,000 sheep, 5,000 horses. The entire railway system of Middle and Western America center here, rendering the Union Stock Yards the most accessible point in the country. The capacity of the yards, the facilities for unloading, feeding and reshipping are unlimited. Packing houses located here, together with a large bank capital and some one hundred different commission firms, who have had years of experience in the business; also an army of Eastern buyers, insures this to be the best market in the whole country. This is strictly a cash market. Each shipper or owner is furnished with a separate yard or pen for the safe keeping, feeding and watering of his stock, with but one charge of yardage during the entire time his stock remains on the market. Buyers from all parts of the country are continually in this market for the purchase of stock cattle, stock hogs and sheep. Shipper should ask commission firms for direct information concerning Chicago markets.

The Greatest Horse Market in America, the Dexter Park Horse Exchange. GEO. T. WILLIAMS, Secretary and Treasurer. D. G. GRAY, Ass't Superintendent. N. THAYER, JOHN
President. Vice I

J. C. DENISON.
Ass't Secretary and Ass't Treasurer. JOHN B. SHERMAN,
Vice President and Gen. Manager.
JAS. H. ASHBY,
reasurer. General Superintendent.

The Kansas City Stock Yards

Are the most complete and commodious in the West and the second largest in the world. Higher prices are realized here than further east. This is due to the fact that stock marketed here is in better condition and has less shrinkage, having been shipped a shorter distance; and also to there being located at these yards eight packing houses, with an aggregate daily capacity of 9,000 cattle, 40,000 hogs and 4,000 sheep. There are in regular attendance sharp, competitive buyers for the packing houses of Chicago, Omaha, St. Louis, Indianapolis, Cincinnati, New York and Boston. All of the eighteen railroads running into Kansas City have direct connection with the yards.

	Cattle and calves.	Hogs.	Sheep.	Horses and mules.	Cars.
Official Receipts, 1893	966,792 249,017 860,237	1,427,768 10,125 510,469	569.517 872,385 71,284 15,200 458,869	35,097	99,755

E. E. RICHARDSON, H. P. CHILD, E. RUST, C. F. MORSE, General Manager Secretary and Treasurer. Assistant Gen. Manager.

fall farrow of 1893, also the very excellent two-year-old breeding boar, Roy Wilkes Jr. 9512 S., he by George Wilkes 9550 S.; dam Tecumseh's Perfection 3d (22141), and she by D. F. Tecumseh 6555. Breeders readily understand that after using a sire that a change must be made, hence this very excellent son of George Wilkes will be offered tor sale to the highest bidder under the direction of Col. F. M. Woods, the wellknown live stock auctioneer. Mr. Wise having secured old Butler's Darkness, a sire of much merit, to use in his herd, the future offerings that will come from the Black U. S. and Wilkes blood now in the herd will, beyond doubt, be fully up to the present standard of the herd. The reader may visit every herd in the entire Missouri valley and its adjacent territory and not find a more superior lot than those that will be offered at Mr. Wise's coming sale. Consult his sale advertisement elsewhere in this issue and learn more of the line of breeding. Such was the high character and standard of the sale last year that this annual sale ought to be better, if anything, than was that because of the greater number of better individuals among the stronger array of the 1894 offerings. The bidder that gets Roy Wilkes Jr. may have to pay what would be considered a long price, but such is his individuality and the high character of his sons and daughters that no sensible person would look for anything

The Allen County Fair.

The fourth annual meeting of the Allen County Fair and Moran Driving Park Association was held last week at Moran, and was, considering everything, up to the average county fair in Kansas. The speed ring came in for its popular share of interest, there being about one hundred and twenty track horses on the grounds, a major portion of which are campaigning the circuit known as the Kansas and Oklahoma circuit, which closes at Guthrie, October 9

The Floral hall was nicely arranged and filled with home productions that made a very creditable display and showed that the fair ladies of Allen county are adepts in the mysteries of household requirements and the comforts of modern civilization.

The exhibit of farm products, especially those of grain, grasses, fruits and vegetables, were far above the usual county fair exhibit. But little evidence was visible that tended to show that the agricultural people of Allen county had suffered from the effects of the drought. The writer could only wish that the thousands of noble people scattered over the western half of Kansas might be permitted to enjoy and share a part of the year's fruitful blessings in common with their more fortunate coworkers in Allen county

The live stock exhibit, horses, cattle, sheep, swine and poultry, was a better one than is usually shown in the State, save about three or four exceptions. The draft breeds were represented by Clydesdales, French Draft and Percherons, pure-bred and grades, while the all-purpose and roadster class came in with a good strong showing. The "liable to go off mule" and his

Southdowns represented the fleecy "tariff troubles," and close along came the Poland-China and Duroc-Jersey swine.

Among others that exhibited live stock were the Boeken Bros., of Funston, Kas., who showed ten head of Percheron horse ten head of Short-horns and ten head of Poland-China swine. In the horse division they carried off six prizes, four first and two second. On cattle won first on best cow, second on bull any age or breed, second on cow 1 year and over, first on bull calf. In the swine class took first on boar 1 year and over, same on sow, and first and second on sow under 1 year, first and second on boar under 1 year, first on sow and litter and sweepstakes on boar and same on sow. They will be out and exhibit at the Iola fair that opens September 12.

F. Chase, of Osage Mission, showed string of registered Clydesdales and a good Kentucky-bred Spanish jack. He won on two mares over 4 years first and second, first on mare over 2, first on yearling colt, first on horse colt, same on mare and second on jack.

J. C. Strong, of Moran, was out with the most varied collection of farm products. In the class for jacks, he won first on each of two in class, second on mules, first and second on Short-horns, first on timothy seed, first on best display of corn, he showing nine varieties, and a special on best collection of stuffed birds, consisting of forty-six specimens.

Wesley M. Jones, of Moran, exhibited a nice little herd of pure-bred and grade Red Polls, and won first on bull, first on cow, econd on yearling heifer and same on heifer calf.

Dell Almack, of Moran, came out with six head of Holsteins and won first on bull, same on cow, first on heifer over 1 year, same on heifer calf.

R. L. Manley, of Moran, won two seconds, Holstein cow and same on heifer.

J. T. Treadway, of La Harpe, Kas., showed twelve head of Duroc-Jerseys that were good representatives of the breed and they attracted a good deal of attention, as many of the visitors had never before seen the "red coats." He having no competi-

tion won all the class prizes.

B. R. Adamson, of Fort Scott, took time by the forelock and ran over with a nice string of spring pig crop youngsters and had a very good trade, selling at satisfactory prices. His Poland-Chinas are good ones and worthy of a more extended ac-

quaintance throughout Kansas.

There were three exhibitors of sheep, the There were three exhibitors of sheep, the strongest of them being J. G. Norton & Son, of Moran, Kas. They showed three pens, two of Shropshires and one of Cotswolds. These drafts were made from their flock of 115 head. At the head of the Shropshire division was the two-year-old Kirk 64 No. 47788, A. S. A. He was bred by the well-known Kansas breeders, Kirk atrick & Son, of Hoge, Leavenworth by the well-known Kansas breeders, Kirkpatrick & Son, of Hoge, Leavenworth
county, and reflects credit alike on the care
of his present owners and former masters.
A very fine ewe, No. 55940, that was purchased at the same time as was Kirk 64,
had a very excellent ram lamb that now
promises to be a better individual than is
his sire. The cross-breds, Shropshires and
Cotswolds, showed a happy blending that
was interesting to both the wool-grower
and the mutton sheep breeder.
The attendance during the four days was

The Veterinarian.

We cordially invite our readers to consult us whenever they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the KANSAS FARMER. Give age, color and sex of animal, stating symptoms accurately, of how long standing, and what treatment if any, has been resorted to. All replies through this column are free. Sometimes parties write us requesting a reply by mail, and then it ceases to be a public benefit. Such requests must be accompanied by a fee of one dollar. In order to receive a prompt reply, all letters for this department should be addressed direct to our Veterinary Editor, Dr. S. C. Orr, Manhattan, Kas.

going a mile or two on the road at a going a mile or two on the road at a moderate gait; he got over it after standing a few minutes. Two days after he acted in the same way; and once since, on the farm, he seemed to be weak and staggering. I have not harnessed him for several days. He eats well and appears all right, only not on lively as usual. He is in good fleeh so lively as usual. He is in good flesh but not fat. I am feeding a little salt-petre and Glauber's salt. Thanks for the prescription for my stallion. He is about well. Valley Falls, Kas.

Answer.—The symptoms given are common to several diseases, with nothing upon which to base a definite conclusion. It may be a mild form of epilepsy or so-called stomach staggers: or the horse may have slight attacks of azoturia, due to liberal feeding and insufficient exercise. Let his food be of good quality and in moderate quantity. Give in his feed, two or three times a day for a week, a heaping tablespoonful of the following: Epsom salts, 8 ounces; sulphur, 8 ounces; powdered nitrate of potash, 4 ounces. Mix. Turn him out for exercise every day when not working. When working see that no part of the harness has

Horse Markets.

first mile or two.

undue pressure, and drive slowly the

Our report of last week's Chicago horse market states that the receipts were quite liberal, but there was a large number of buyers present, quite a few of them being from the Southern States for small shapey chunks, 900 to 1,000 pounds. Other years this demand from that section would not open before November, but with crops of every kind the most bountiful and undoubted prospects of high prices, the people are enthusiastic and will buy with a freedom heretofore unknown and we confidently believe three times greater than last or former years. Draft horses, too, for the pineries should be in fair to good demand from now on to Christmas. Good smooth shapey chunks and good big drivers, well broken, 5 to 7 years old, are always in demand and commanding satisfactory prices. Good ones are always scarce.

W. S. Tough & Son, managers of the Kansas City Stock yards horse and mule department, report the horse market as showing very unexpected activity. There was little change in prices, except on the smoother grades of horses with considerable finish, but there were more buyers on the market than at any time since last spring. The receipts were very fair. Notwithstanding this fact there were a number of buyers who were not able to fill out and will remain on the market until next week. Anything in the way of a nice smooth chunk or nice tasty Southerner was eagerly sought for. Buyers all want stock with good flesh, as they cannot afford to pay the cost of fattening them. Shippers will do well to take advantage of the pres-

what the future will be.

Mule market quiet. Some little local trading, but none to speak of. Dealers will not touch a mule of any class unless he is

Extra draft. \$ 75@100 Good draft. 50@ 75 Extra drivers 100@140 Good drivers 600@ 85 Saddle, good to extra 75@165 Southern mares and geldings 25@ 55 Western range, unbroken 15@ 30 Western ponies 10@ 15 14 hands, 4 to 7 years \$00@ 40 15½ hands, 4 to 7 years 50@ 90 15½ hands, 4 to 7 years 85@105	fat and good hair.	
Extra drivers 100@140 Good drivers 600@85 Saddle, good to extra 75@165 Southern mares and geldings 25@55 Western range, unbroken 15@30 Western ponies 100@15 14 hands, 4 to 7 years \$00@40 14½ hands, 4 to 7 years 400@55 15 hands, 4 to 7 years 50@90 15½ hands, 4 to 7 years 85@105	Extra draft8	75@100
Extra drivers	Good draft	500 75
Good drivers 60@ 85 Saddle, good to extra 75@165 Southern mares and geldings 25@ 55 Western range, unbroken 15@ 30 Western ponies 10@ 15 14 hands, 4 to 7 years \$ 30@ 40 14½ hands, 4 to 7 years 40@ 55 15 hands, 4 to 7 years 50@ 90 15½ hands, 4 to 7 years 85@105	Extra drivers	100@140
Southern mares and geldings 25@ 55 Western range, unbroken 15@ 30 Western ponies 10@ 15 14 hands, 4 to 7 years \$ 30@ 40 14½ hands, 4 to 7 years 40@ 55 15 hands, 4 to 7 years 50@ 90 15½ hands, 4 to 7 years 85@ 105	Good drivers	60@ 85
Western range, unbroken. 15@ 30 Western ponies. 10@ 15 MULES 14 hands, 4 to 7 years. \$ 30@ 40 14½ hands, 4 to 7 years. 40@ 55 15 hands, 4 to 7 years. 50@ 90 15½ hands, 4 to 7 years. 85@105	Saddle, good to extra	75@165
Western ponies 10@ 15 MULES 14 hands, 4 to 7 years \$ 30@ 40 14½ hands, 4 to 7 years 40@ 55 15 hands, 4 to 7 years 50@ 90 15½ hands, 4 to 7 years 85@105	Southern mares and geldings	25@ 55
MULES 14 hands, 4 to 7 years	Western range, unbroken	15@ 30
MULES 14 hands, 4 to 7 years	Western ponies	10@ 15
14½ hands, 4 to 7 years. 400 55 15 hands, 4 to 7 years. 50@ 90 15¼ hands, 4 to 7 years. 85@105	MULES	
14½ hands, 4 to 7 years. 400 55 15 hands, 4 to 7 years. 50@ 90 15¼ hands, 4 to 7 years. 85@105	14 hands, 4 to 7 years	3000 40
15 hands, 4 to 7 years	14% hands, 4 to 7 years	400 55
15½ hands, 4 to 7 years	15 hands, 4 to 7 years	50@ 90
16 to 16½ hands, 4 to 7 years 90@125	15% hands, 4 to 7 years	85@105
	16 to 16½ hands, 4 to 7 years	90@125

Excursion to Washington, D. C.

On account of the Knights of Pythias Conclave at Washington, D. C., the Baltimore & Ohio Southwestern Railway offers a rate of one fare for the round trip from all points on its lines. Tickets on sale August 22 to 26, good returning until September 15. Splendid opportunity to visit the National Capital at low rate. For particulars apply to any agent Baltimore & Ohio Southwestern Railway, or address A. C. Goodrich, Western Passenger Agent, P. O. Box 264, Kansas City, Mo., or O. P. McCarty, General Passenger Agent, St. Louis, Mo.

Horse Owners! Try **GOMBAULT'S** Caustic Balsam

A Safe Speedy and Positive Cure The Safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses HORSE AILING.—I have a four-year-old horse that appeared well, but suddenly seemed to get stiff all over, and partly lose the use of his limbs, after going a mile or two on the road at a

MARKET REPORTS.

LIVE STOCK MARKETS.

Kansas City.

August 27, 1894.

CATTLE—Receipts, 5,850 cattle; 813 calves.

Dressed beef and shipping steers, \$3 4604 75; cows, \$1 50@2 65; bulls, \$1 50@1 75; heifers, \$1 55 62 00; calves, \$6 00@7 00; stockers and feeders, \$2 90@4 10; Texas steers, \$2 60; Colorado steers, \$2 90@4 00; Texas and Indian steers, \$1 95@2 77½; Texas and Indian calves, \$1 50@2 00; Texas and Indian calves, \$2 50@7 00.

HOGS—Receipts, 2,135. Heavy hogs, \$5 25@5 575; pigs and lights, \$3 25@5 27½.

SHEEP—Lambs, \$2 55@3 50; Utah, \$2 25@2 40; Utah ewes, \$2 10.

Chicago.

August 27, 1894.

CATTLE—Receipts, 18,500. Beef steers, \$3 00 August 27, 1894.

CATTLE—Receipts, 18,500. Beef sters, \$3 00 @5 70; stockers and feeders, \$1 50@3 00; bulls, \$1 40@2 00; cows, \$1 00@2 75.
HOGS—Receipts, 27,000. Mixed, \$5 30@5 95; heavy, \$5 40@6 00; light weights, \$5 25@5 75.
SHEEP—Receipts, 9,000. Market active. Natives, \$1 50@3 35; lambs, per cwt., \$2 50@4 00.

St. Louis. August 27, 1894. CATTLE—Receipts. 4,500. Natives strong. Texans strong. Top. \$3 80. Natives steers, common to best, \$3 25@5 10. HOGS—Receipts. 2,900. Market steady. Bulk, \$5 60@5 30. Top. \$5 90. SHEEP—Receipts. 200. Market strong. Natives, \$2 00@3 00.

GRAIN AND PRODUCE MARKETS.

Kansas City.

August 27, 1894.

Kansas City.

August 27, 1894.

In store—Wheat, 1,103,707 bushels; corn, 24,-328 bushels; cats, 153,830 bushels, and rye, 2,803 bushels.

WHEAT—Receipts for forty-eight hours, 136,-200 bushels; last year, 178,400 bushels. A*slow, but at the same time steady market was had, the increased offerings making buyers backward, while holders wanted old prices, hence slow sales. The demands for low grades were also less brisk, though they are holding up well. By sample on track on the basis of the Mississippi river, local 6c per bushel less: No. 2 hard, 18 cars 59 to 60 pounds at 54½c, 6 cars 60 to 61 pounds with special billing at 55c, 2 cars at 54½c, 2 cars poor billing at 55c, 2 cars at 54½c, 2 cars poor billing at 55c, 2 cars at 54½c, 1 car at 53½c; No. 4 hard, 52@53c; rejected, 48@51½c; No. 2 red, 10 cars 59 and 60 pounds at 54½c, 1 car at 54½c, 10 cars choice with good billing at 55c; No. 3 red, 1 car at 53½d, 12 cars at 54c; No. 4 red, 2 cars at 53d, 3 cars at 52½c.

CORN—Receipts for forty-eight hours, 8,400 bushels, last year, 111,000 bushels, Demand light, but the market holding up well under the influences of the very light offerings, but the close was weak. By sample on track: No. 2 mixed, 1 car at 51½c, 1 car at 51½c; No. 3 white, 50@51c. No. 2 white, 7 cars at 51½c; No. 3 mixed, 50@51c; No. 2 white, 7 cars at 51½c; No. 2 mixed, 10 cars at 31c, 8 cars at 31½c, 1 car fancy at 32c; No. 3 mixed, 3 cars at 30½c; No. 4 mixed, 28@29c; No. 2 white, 34@35c; No. 3 white, 28@33c; No. 4 white, 28@33c; No. 4 white, 289@39c; No. 2 white, 34@35c; No. 3 white, 82cars and firm. By sample on fact of the cars and firm. By sample on last part of the cars and firm. By sample on last part of the cars and firm. By sample on last part of the cars and firm. By sample on last part of the cars and firm. By sample on last part of the cars and firm. By sample on last part of the cars

mixed, 3 cars at 30%c; No. 4 mixed, 28@29c; No. 2 white, 34@35c; No. 3 white, 32@33c; No. 4 white, 29@30c.

RYE—Receipts for forty-eight hours, none; last year, none. Scarce and firm. By sample on track: No. 2, 58@60c; No. 3, 55@56c.

FLAXSEED—Quiet and lower at \$1 1@113 per bushel upon the basis of pure, as to billing. BRAN—Firm and in good demand. Bulk, 60c; sacked, 68c per cwt.

CASTOR BEANS—Steady and in good demand at \$1 20 per bushel in car lots and \$1 15 per bushel for less than car lots.

HAY—Receipts for forty-eight hours, 950 tons. Market dull and weak under the increased supply. Fancy prairie, \$8 00: choice, \$7 00@7 50; low grades, \$5 00@6 50; timothy, choice, \$8 50@ 900; No. 1, \$8 00; No. 2, \$7 00@7 50, and choice clover mixed, \$5 00@8 50.

BUTTER—A steady and firm market is had for all good to choice goods, and even the low grades are meving more freely. Creamery—Highest grade separator, 21c per pound; finest gathered cream, 10c; fine fresh, good flavor, 16c; fair to good, 13c. Dairies—Fancy farm, 15@16c; fair to good, 13c. Dairies—Fancy farm, 15@16c; fair to good lines, 10c. Country store-packed—Fancy, 15c; fresh and sweet packing, 10c.

EGGS—Receipts light and market firm.

CHEESE—Herkimer county, N. Y., cheddars, 12c per pound; Crawford county, Pa., cheddars, 12c; Cheboygan, Wis., twins, 9c; Cheboygan, Wis., Young America, 9c; Kansas and Missouri, full cream, 8c.

POULTRY—The receipts moderate and de-mend on account of the retail trade alor.

Wis., Young America, 9c; Kansas and Missouri, full cream, 8c.
POULTRY—The receipts moderate and demand on account of the retail trade slow. Springs hardly so firm, while hens held steady. Turkeys quiet and so were ducks. Hens, per pound, 5c; roosters, 15c each; springs, per pound, 7c; turkeys, young, per pound, 6c; ducks, young, 7c; old, 4c; goslings, 7c; pigeons, per dozen, 9c; veal, choice, 80@100 pounds, per pound, 44@5c.
POTATOES—The market is firm and demand very good, both for local lots and orders. The former are bringing 58@60c, and the latter 55@58c.

Sec.

MELONS—Offerings good and values are low, with the supply being in the hands of growers, who are letting go at all kinds of prices, \$3 00@ 8 00 per 100. Cantaloupes at 30@ 60c per dozen.

PEACHES—No natives coming in.

CALIFORNIA FRUITS—The quality of stock offered is exceedingly fine and the prices asked are low. Pears are in fine condition for shipping and so are peaches, while the other kinds offered are plentiful and good keepers. Peaches, per box, \$1 25@1 35; pears, per box, \$1 50@175;

plums, per crate, \$1 25@1 50; prunes, per crate, \$1 25@1 75; grapes, per crate, \$1 25@1 50.

GBAPES—Still plentiful and dull. Selling at 2@2½ oper pound from growers.

FRUIT—The movement of California goods on sale hurts the movement of natives. Apples are steady and in good demand, with the offerings only fair. Jobbing prices: Apples, fancy, per bushel barrel, \$1 50@2 50.

VEGETABLES—Jobbing prices: Beans, navy, California, per bushel, \$2 10\pi 25 25.

VEGETABLES—Jobbing prices: Beans, navy, California, per bushel, \$2 10\pi 25 25 0.

VEGETABLES—Jobbing prices: Beans, navy, California, per bushel, \$2 10\pi 25 25 0.

VEGETABLES—Jobbing prices: Beans, navy, California, per bushel, \$2 10\pi 25 25 0.

VEGETABLES—Cabbage, homegrown, \$1 50 per cwt., crated; egg plant, per dozen, \$30\pi 40c; new corn, per dozen, 10\pi 15c; tomatose, half bushel, 50\pi 60c; new onions, 40 \(\) \$50c per bushel; squash, 20\pi 25c per dozen.

BROOMCORN—Hurled, green, \$2\pi 40\pi 20; crooked, half price. Dwarf, 2\pi 3\pi 6.

FEATHERS—Prime geese, 35c per pound; dark and soiled, 30c; mixed and old, 15\pi 20c; 1 per cent, tare on small sacks and 3 per cent, on large.

GROUND LINSEED CAKE—We quote car lots sacked at \$25 per ton; 2,000 pounds at \$27; 1,000 at \$15 00; less quantities \$150 per 100 pounds.

WOOL—Steady and in fair demand. Missouri and similar—Fine, \$201c; fine medium, 10\pi 12c; medium, 10\pi 13c; combing, 12\pi 14c; coarse, 9\pi 10c. Colorado—Fine, 7\pi 10c; fine medium, 8\pi 11c; medium, 10\pi 12c; coarse and carpet, 9\pi 10c; extremely heavy and sandy, 5\pi 7c.

Chicago.

August 27, 1894.

Chicago.

The following table shows the range of prices for active "futures" in the Chicago speculative market for the speculative grades of the commodities. This speculative market is an index of all prices and market tendencies:

11		High- est.	Low- est.	Aug. 20,	Aug. 27.
WHEAT-	Sept Dec	54% 54% 58	53% 54% 57%	54% 55% 58%	53% 54% 57%
COBN-	Aug Sept May	55%	55 55 5234	58% 58% 52%	55 55% 52%
OATS-	Aug Sept May	30% 30% 35%	29¾ 29¾ 84¾	30 % 30 % 85	29%
Pork-	Aug Sept Jan.	13 60 18 60 18 70	13 55 18 57 18 62	18 45 18 50 13 69	13 55 18 57 13 65
LARD-	Aug Sept Jan	7 87 7 92 7 70	7 85 7 77 7 65	7 55 7 57 7 57	7 87 7 90 7 65
S. Ribs-	Aug Sept Jan	7 47 7 50 7 05	7 47 7 42 7 00	7 32 7 82 7 00	7 47 7 47 7 02
	and the same				Life.

St. Louis. August 27, 1894. August 27, 1894.

WHEAT—Receipts, 76,000 bushels; shipments, 1,000 bushels. No. 2 red, cash, 50%c; August, 50%c; September, 51c; December, 54%c; Msy, 59%c.

CORN—Receipts, 13,000 bushels; shipments, 6,000 bushels. No. 2 mixed, cash, 53c; August, 52%c; September, 52%c; December, 49c; May, 49% 40%c.

OAIS—Receipts, 53,000 bushels; shipments, 8,000 bushels. No. 2 cash, 30%c; August, 30c; September, 30%c; May, 35%c.

THE STRAY LIST.

FOR WEEK ENDING AUGUST 15, 1894.

Norton county-D. W. Grant, clerk. PONY—Taken up by D. C. Mosher, in Lecta tp., one mare pony, sorrel, white face, three white feet, branded S. on left jaw and character somewhat similar to B. on left thigh and S. on left hip; valued at \$12.

Cherokee county-P. M. Humphrey, clerk FILLY—Taken up by Manson Steel, in Spring Valley tp., one yellow filly, 2 years old; valued at \$5 FILLY—By same, one sorrel filly, 2 years old; val ued at \$5.

FILLY—By same, one sorrel filly, 1 year old; val-ued at \$5.

FOR WEEK ENDING AUGUST 29, 1894.

Montgomery county-J.W. Glass, clerk.

Montgomery county—J. W. Glass, clerk.

HORSE—Taken up by H. L. Swisler, in Liberty
tp., August 3, 1894, one iron-gray horse, 4 years old,
sixteen hands high, white spot in forehead.
PONY—Taken up by —, in Rutland tp., July 19,
1894, one dun pony, 10 years old, blind in left eye,
branded C on right shoulder.
PONY—By same, one dun pony, 10 years old, white
feet to knees, branded 2 with — under it and a charscher under that similar to E in writing, and G. B.
on left shoulder.

Labette county-J. F. Thompson, clerk. Labette county—J. F. Inoinpson, cierk.

MARE—Taken up by A. A. King, of Elm Grove,
August 4, 1894, one dark gray mare, white face, 2
years old; valued at \$12.

MARE—By same, one light bay mare, star in face,
left hind foot white; valued at \$12.

HORSE—By same, one light gray horse, 2 years
old; valued at \$10.

HORSE—By same, one brown horse, hind feet
white, 2 years old; valued at \$12.

Sumner county-Chas. Sadler, clerk. HORSE—Taken up by T. H. Crawford, in Falls tp., P. O. Drury, January 10, 1894, one bay horse, fourteen hands high, no marks or brands.

John B. Campbell, | Managers Refitted and (refurnished.

Armourdale Hotel.

Kansas City, Kansas.

\$1 and \$1.25 per day. Five minutes ride on electric cars from Union Stock Yards.

CAMPAIGN RATE REDUCED!

The Kansas City **Times**

EVERY DAY TILL JANUARY 1.

\$2.00!

The Twice-a-Week Times

TILL JANUARY 1,

30 Cents.

In order that no one may have an excuse for not being posted on the developments of the political campaign of 1894, THE TIMES has made these rates, which scarcely cover the cost of publication. Its news facilities are unsurpassed, and it handles political news fully and fairly.

Subscribe Now.

THE TIMES,

Sample copies free. KANSAS CITY, MO.

The Chicago Times.

ESTABLISHED 1854.

The People's Paper.

8, 12 and 16 PAGES DAILY: 32 to 48 SUNDAY.

No great daily in the United States is so closely in touch with the people as THE CHICAGO TIMES.

TIMES.

Its policy is progressive, liberal, tolerant.
THE TIMES holds that existing social, political and industrial conditions are not founded upon the principle of equal rights to all and special privileges to none. That under existing conditions injustice necessarily is done the mass of the people.

THE TIMES has its own convictions as to how these conditions may be amended. While urging its own beliefs strenuously and intelligently it does not dismiss with contempt or without a hearing the advocates of other economic reforms.

THE TIMES is fearless in its utterances and unswerving in its devotion to the great body of the people.

swerving in its devotion to the speech, the free people.

THE TIMES believes in free speech, the free coltage of silver, and radical tariff reform.

THE TIMES believes in government control of all natural monepolles.

THE TIMES believes in such a tax on land values as shall lighten the burden of the farmer and make the owner of valuable city property pay his just share.

THE TIMES believes in the wisdom and good faith of the people.

faith of the people.

THE TIMES prints all the news from all the world in a manner interesting and instructive to all the people.

Send for samples to THE CHICAGO TIMES. Forward subscriptions to KANSAS FARMER.

An Opportunity for Settlers

The Orchard Irrigation Co., located at Orchard Farm, Idaho, on the Union Pacific railroad, can employ a large number of men and teams, beginning about August 15 and continuing as late as weather permits. This work will be given to settlers living upon the land, allowing them to work out their water rights. The company will pay ourrent wages.

The finest fruit land in the West opened to government entry can be secured with ne expense in money. A little work each year pays for the land. Secure a home and be independent of rain. Send for circular and full particulars to

ORCHARD IRRIGATION CO.,

Box 162, Boise City, Idaho.

CHEAP HOMES

In San Luis Valley, Colorado, the Garden Spot of the Rocky

Mountains.

Sixty thousand acres of fine land, all under first-class irrigation canals, with perpetual water rights, for sale cheap, six years time, 8 per cent. interest.

Grains, Grasses and Vegetables Grow Here to Perfection.

Crops sure; no droughts, no cyclones, no blizzards; abundance of pure artesian water; climate unequaled. We have churches, schools, railroads and good markets. For maps, circulars and full information, address JAMES A. KELLY & CO., Agents Colorado Valley Land Co., Monte Vista, Colo.

WOOL+WOOL+WOOL+WOOL+WOOL+WOOL

COMMISSION

FOR 28 YEARS we have successfully conducted a WOOL **BUSINESS** and have maintained confidence and successful relations with wool growers and the trade. Our reliability is vouched for by Chi-

cago banks and mercantile houses. Established 1866. SILBERMAN BROS. 212-214 Michigan Street

WOOL+WOOL+WOOL+WOOL+WOOL+WOOL

At One-Third Regular Price

The following useful Agricultural Books have been placed at the disposal of the KANSAS FARMER to be sold at ONE-THIRD of publishers list prices. Some of them are slightly shelf-worn, but otherwise they are in perfect condition. They are bargains which are offered exclusively to sub-scribers of the KANSAS FARMER. "First come

Publishers' list price.

HORSEMEN!

Try Dr. Orr's Veterinary Remedies.
Tonic Cough Powder, for cough, distemper, loss isppetite, etc. Pound, by mail, 60 cents.
Tonic Worm Powder, for expelling worms and oning up the system. Pound, by mail, 60 cents.
Ready Blister, for curb, splint, sweeny and all parts where a blister is indicated. By mail, 50 cents.
Magic Healing Powder, for sore necks, collar galls, etc. By mail, 25 cents.
Remit by postal note to S. C. ORR, V. S., Manhattan, Kas.

OKLAHOMA, INDIAN TERRITORY

AND CHEROKEE STRIP

Constitute the future great Agricultural State of the Union and a prosperous country. The last chance for free homes for the farmer. For reliable information concerning this favored region, subscribe for the only farm journal published there, the HOME, FIELD AND FORUM, a sixteen-page Monthly, price 60 cents a year. Sample copy free.

Address HOME, FIELD & FORUM, Guthrie, Oklahoma.

THE GREAT ROCK ISLAND RY.

East, West, North, South.

Through cars to Chicago, St. Louis, Colorado, Texas and California.

Half Rates to Texas Points!

LOW RATES TO ALL POINTS.

Especially California, Texas and Southeastern Points. If you are going to the Midwinter Fair at San Francisco, if you are going to Texas, if you are going East on business or pleasure—in fact, if you intend to do any traveling, be sure to consult one of the agents of the

Great Rock Island System

JOHN SEBASTIAN, General Ticket and Passenger Agent, CHICAGO. T. J. ANDERSON, Assistant Gen'l Ticket and Pass. Agent, TOPEKA.

H. O. GARVEY. City Ticket and Passenger Agent, 601 Kansas Ave., TOPEKA, KAS.



THE GREAT SYSTEM.

Connecting the Commercial Centers and rich MISSOURI,

The Broad Corn and Wheat Fields and Thriving Towns of KANSAS,
The Fertile River Valleys and Trade Centers of NEBRASKA,
The Grand, Picturesque and Enchanting Scenery, and the Famous Mining Districts of COLORADO,
The Agricultural, Fruit, Mineral and Timber Lands, and Famous Hot Springs of ARKANSAS,
The Beautiful Rolling Prairies and Woodlands

The Beautiful Rolling Prairies and Woodlands of the INDIAN TERRITORY,

The Sugar Plantations of LOUISIANA,
The Cotton and Grain Fields, the Cattle Ranges and Winter Resorts of TEXAS,
Historical and Scenic
OLD AND NEW MEXICO,
And forms with its Connections the Popular Winter Route to
ARIZONA AND CALIFORNIA.
For full descriptive and illustrated pamphlets of

or full descriptive and illustrated pamphlets of of the above States, or Hot Springs, Ark., San tonio, Texas, and Mexico, address Company's sats, or

H. C. TOWNSEND, Gen'l Passenger & Ticket Agent, ST. LOUIS, MO.

PATRONIZE YOUR HOME INSTITUTIONS!

STOCK COMPANY-CAPITAL \$100,000.

Paid Over \$160,000. Organized in 1882. Over Twelve Years of Successful Business. A Strong Western Company.

The SHAWNEE FIRE INSURANCE COMPANY

Of TOPEKA, KANSAS.

Insures business and farm property against Fire, Lightning, Cyclones, Wind Storms and Tornadoes Agents in all the principal cities and towns in Kansas.

J. W. GOING, Secretary and Manager, TOPEKA, KANSAS.

100 RICH MEN SUBSCRIBED \$1,000 EACH

To secure practically what readers of this paper may have for a cash outlay of

Reference is made to that Superb Memorial Collection known throughout America and Europe as

I he White City

Comprising 80 unequaled Photographs, secured by William H. Jackson, the world's greatest scenic photographer, who took first prize at the Paris Exposition and at the World's Fair, and was called to Chicago as being at the head of his profession.

Each Folio contains four superb plates, 14x17 inches in size, and descriptive text furnished by Stanley Wood, Esq., the pages of description being inserted from time to time in the Folios, so that when the series is complete the possessor will have a connected commentary on all the views presented. Each plate is ornamented by a delient eather and the series is complete the possessor will have a connected commentary on all the views presented. Each plate is ornamented by a delient eather and the series of the series and artistic mural decoration. This method of presenting these souvenirs of the Exposition possesses many advantages over that of binding, and places the Folio at once in the domain of art works. The Artfolio will be kept by all who obtain it as the most noble reproduction of the magnificence of the White City that exists, and will become the one standard souvenir of that glory now departed forever. It is the single series which reveals in the highest form the rare and manifold architectural beauties of the White City.

THOUSANDS ALREADY HAVE THEM. THOUSANDS MORE WILL HAVE THEM ON THESE EASY TERMS:

> SEND US ONE DOLLAR for a subscription one year to KANSAS FARMER and we will send you one number of the Artfolio free.

> Send us two subscriptions and two dollars (\$2) and we will send you three Artfolios. And for each dollar subscription, after the first one, we will send you two numbers of the Artfolio A little work at odd times, in any neighborhood, will soon entitle one to the whole series FREE. There are twenty (20) numbers in all.

The cash price of any number of the Artfolio is 20 cents.

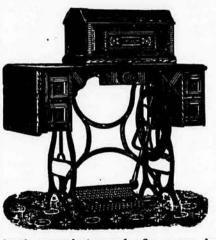
THIS IS YOUR CHANCE! IMPROVE IT!

KANSAS FARMER CO., Topeka, Kas. Address

Look Here!

THIS WILL INTEREST YOU

If You are Thinking of Buying



The wood cut herewith represents The Kansas Farmer Sewing Machine, made under a special contract with the publishers of this paper. It is an elegant high-arm machine, beautifully finished in antique oak, with the name "Kansas Farmer" artistically lettered on the cover and on the arm.

Economy is a virtue in itself, and, when judiciously applied, it becomes financial wisdom. Of course the family must have a sewing machine, but it is poor economy to pay \$40 to \$60 for what you can have for less than half the money.

READ:-We will deliver, express charges prepaid, at any express office in Kansas, the "Kansas Farmer" high-arm sewing machine, all complete, with full attachments, and warranted

by the manufacturers for five years, for only \$20, including a year's subscription to the "Old Reliable" KANSAS FARMER. OR, if a less expensive machine is wanted we will deliver, express charges prepaid, at any express office in Kansas, the "NEW SINGER" high-arm sewing

machine, all complete, with attachments, and manufacturers' warranty, for only \$15, including a year's subscription to the "Old Reliable" KANSAS FARMER.

These prices are, of course, for strictly cash with the order.

Address all orders to KANSAS FARMER CO., Topeka, Kas.

PROPOSED AMENDMENT TO THE CONSTITUTION.

Substitute for Senate Joint Resolutions Nos. 1 and 2.

Be it resolved by the Legislature of the State of Kan-sas: two-thirds of the members elected to each house thereof, concurring therein.

sas: two-thirds of the members elected to each house thereof, concurring therein.

Section 1. The following proposition to amend the constitution of the State of Kansas is hereby submitted to the qualified electors of the State for their approval, or rejection, namely: That section one, article five of the constitution of the State of Kansas be amended so that the same shall read as follows: "Section 1. Every person of the age of 21 years and upwards belonging to the following classes, who shall have resided in Kansas six months next preceding any election, and in the township or ward in which she or he offers to vote, at least thirty days next preceding such election shall be deemed a qualified elector. Let: citizens of the United States of the United States of the United States conformable to the laws of the United States on the subject of naturalisation."

SEC. 2. This proposition shall be submitted to the electors of this State at the general election of the Representatives to the Legislature in the year eighteen hundred and ninety-four, for their approval, or rejection; those voting in favor of this proposition shall have written or printed on their ballots "For the suffrage amendment to the constitution;" said ballots shall be received and such votation; and said such votation, and in the suffrage amendment to the constitution; and ballots shall be received and such votation; as and such votation; as and such votation, and in the safers and returns made thereof, in the same manner and in all respects as provided for by law; as in the case of the election of Representatives to the Legislature.

SEC. 3. This resolution shall take effect and be in force from and after its publication in the statute book.

I hereby certify that the above resolution orgi-

I hereby certify that the above resolution originated in the Senate January 16, 1893, and passed that body February 8, 1893.

PERCY DANIELS, President of Senate.

W. L. Brown, Secretary of Senate.

Passed the House March 1, 1883.

GEO. L. DOUGLASS, Speaker of House.
FRANK L. BROWN, Chief Clerk of House.
Approved March 6, 1893, 3:50 p. m.
L. D. LEWELLING, Governor.

STATE OF KANSAS,
OFFICE OF SECRETARY OF STATE;
I, R. S. Osborn, Secretary of State of the State of
Kansas, do hereby certify that the foregoing is a
true and correct copy of the original enrolled restution now on file in my office, and that the same
took effect by publication in the statute book May
18, 1893.

took effect by publication in the last state of State 18, 1893.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal.

Done at Topeka, Kansas, this 25th day of July, A. D. 1894.

R. S. OSBORN, Secretary of State.

TEXAS CHAIR CAR LINE.

THE

MISSOURI, KANSAS & TEXAS RAILWAY.

Using the Celebrated

Wagner Buffet Sleeping Cars and Free Reclining Chair Cars

On all Trains.

THE BEST ROUTE FOR ALL POINTS IN

KANSAS, INDIAN TERRITORY, TEXAS MEXICO and the PACIFIC COAST.

AND FOR

St. Louis, Chicago, Hannibal, Kansas City and Sedalia.

For information apply to any Agent of the Com-JAMES BARKER, Gen'l Pass. & Ticket Agent, St. Louis, Mo.



SOLID THROUGH TRAINS FROM

KANSAS CITY 3 ST. JOSEPH

ST. LOUIS, CHICAGO, OMAHA, PEORIA. ST. PAUL AND MINNEAPOLIS

> WITH Dining Cars

Vestibuled Drawing Room Sleeping Car Reclining Chair Cars (Seats Free).

ONLY ONE CHANGE OF CARS

THE ATLANTIC COAST

THE BEST LINE FOR NEW YORK, BOSTON,

Washington, Baltimore, Cincinnati, Philadelphia, Niagara Falls, Pittsburgh, AND EASTERN POINTS.

or full information, address

H. C. ORR,
Ass't Gen'l Passenger Agent, Kansas City; Mo

In writing advertisers please mention FARMER.

LIGHTNING | WELL MACHINERY Forks. leal Artesian Pumping Riga to Work by Steam, Air, etc Let us help you. THE AMERICAN WELL WORKS Aurora, Ill.; Chicago, Ill.; Dallas, Tex.

Well Machinery [Mille, Pumpe, Well Tools of every description were res rects. Caratosus rate. Address Teates & Liebendorfer, Meetles this paper. Ottawa, Ill.

Portable Well Drilling MACHINERY

Established 1867. Covered by patents. Machines drill any depth both by steam and horse power. We challenge competition. Send for free illustrated catalogue.

Address, KELLY & TANEYHILL, WATERLOO, IOWA. WELL•MAGHINER\

SIOUX CITY ENGINE & IRON WORKS,
(Successors to Pech Mfg. Co.) SIOUX CITY, IOWA.

1217 Union Ave., Kansas City, Mo.



Sixth and Mill Streets.







to S in wide—hubs to fit any axle. Saves Cost many times in a season to have set a season to have set of low wheels to fit your wagon for hauling grain, fodder, manure, hogs, &c. No resetting of tires. Catl'g free. Address EMPIRE MFG. CO., Quincy, Ill.





degree of fineness than any other mill. Grinds ear-corn, oats, etc., fine enough for any purpose. War-ranted not to choke. We warrant the Peerless to be JOLIET STROWBRIDGE CO., JOLIET, ILL. G. E. WALSH, P.O. Box 1189, New York City. Jobbers and Manufacturers of Farm Machinery, Carriages, Wagons, Windmills, Bicycles, Harness, etc. Prices lowest. Quality best.

The Kirkwood Steel Wind Engine



four angle steel corner posts, substantial steel girts and braces — not fence wire. They are light, strong, simple in construction, much cheaper than wood and will last a lifetime. Our mills and towers are ALL STEEL and fully guaranteed.

anteed.
Write for prices and circulars. Address, mentioning this paper,

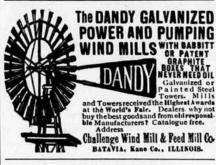
KIRKWOOD WIND ENGINE CO., Arkansas City, Kas.

Gasoline Engine

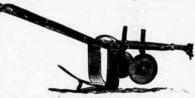
few minutes atten-tion a day will keep it running. Most economical; guar-anteed cost of run-ning is one cent per h. p. per hour.

WEBER GAS & GASOLINE ENGINE CO. For Catalog. ad.421 S.W.Boulevard, Kansas City, Mo



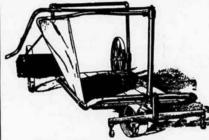


PERINE'S Sweet Potato Digger.



Has gone to the front and holds that honora position against all rivals. Is simple, effectual a cheap. Is a boon to sweet potato raisers. Call a see it or write for illustrated catalogue.

PERINE'S PLOW WORKS, Topeka, Kas



Save Your Fodder with the Improved

BLUE VALLEY CORN

Send at once to

BLUE VALLEY FOUNDRY CO.,

Manhattan, Kas.

Buy your GROCKRIES and other Household and Farm sup-plies of JACOBY BROS. 206 N. 2nd St., ST. LOUIS, NO who Retail at Wholesale prices OT WOH SAVE MONEY

degree of fineness than any other mill. Grinds ear torn, oats, etc., fine enough for any purpose. Warranted not tochoke. We warrant the Peerless to be THE BEST AND CHEAPEST MILL ON EARTH.

Write us at once for prices and agency. There is money in this mill. Made only by the There is money in this mill. Made only by the Control of the Peerless of th

Bargains for Sale.

I am selling excellent farms of 160 acres in Rooks county, Kansas, and in central Nebraska from \$5 to \$10 an acre, and most of them improved. I have 8,480 acres in Lincoln county, Nebraska. If sold quick \$3 per acre, spot cash, will take it, which is only half its value. One of the best stock and grain farms in Kansas, well and extensively improved, and other great bargains. Don't pay rent any longer, but own your own farm. Write what you want to

B. J. KENDALL Room 507 Brown Block, Omaha, Neb.

Real Estate Bargains.

I own the town site of Halsey, Thomas Co., Neb. It has depot and other railroad improvements located on the 160 acres It is clear and will be sold for half its value or exchanged for Omaha property or a clear farm. Write for particulars.

I have several fine lots near the Methodist college at University Place, Lincoln, Neb., for sale cheap, or will exchange them for farm lands.

B. J. KENDALL, 507 Brown Block, OMAHA, NEB.



It will pay you to buy a Saw with "DISSTON" on it. It will hold the set longer, and do more work without filing than other saws, thereby saving n labor and cost of files. They are made of the best quality crucible cast steel, and are

FULLY WARRANTED. For Sale by all Dealers.

Send for Pamphlet, "The Saw," mailed free. HENRY DISSTON & SONS, Philadelphia, Pa.

You can make a little more cider, a little better cider, in a great deal less time and with a great deal less work on the Hydraulic Press than any other press made. Write for illustrated catalogue of Cider, Fruit Machinery, Spray Pumps, Etc. DAVIS-JOHNSON CO., Western Agents H. P. Mfg. Co., 45 E. Jackson St., CHICAGO, ILL.

Mention KANSAS FARMER.

PRESS. FARMERS HAY



DEVOL-LIVENGOOD MANUFACTURING CO., KANSAS CITY, MO. Mention this paper when you write.



OSBORNE



OSBORNE STEEL SELF-BINDERS





ESTABLISHED 40

St. Louis,
Chicago,
Kansas City,
Louisville,
Indianapolis,
Dallas,
Denver,
Minneapolis,
Detroit,
Omaha,
Peoria. Neb

Peoria, Des Móines, Fargo, Nashville, New Orleans,

WRITE QUICK Send two-cent stamp for Souvenir Catalogue & free premium offer to farmers guessing nearest 1894 wheat crop

REPAIRS and STOCK ON HAND AT ALL THE PRINCIPAL POINTS. IF NO DEALER

SELLS OUR GOODS WRITE US AT ANY OF THE ABOVE PLACES.

FIRST-CLASS GOODS. NOT IN ANY TRUST.

OSBORNE MACHINE OIL

OSBORNE BUGGIES, FARM AND SPRING WAGONS, SURREYS, PHAETONS, HARNESS Ready Rock Asphalt Roofing, Any one can lay it.

OSBORNE PEG TOOTH HARROWS

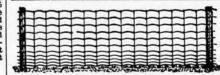


OSBORNE BINDER TWINE

HANG
Corrugated Steel Hinges.
They are Stronger, Handsomer and cost no more than the old style. For sale by Hardware Delers generally, but if not in your vicinity write the Manufacturers. Send for "Biography of a Yankee Hinge," mailed free.



THE STANLEY WORKS, New Britain, Ct.



Canada Heard From. New use for the Page.

A Canadian farmer was in need of a Foot Bridge and the Page agent was equal to the emergency. A five ft. fence for the bottom and three ft. for the sides stretched over 100 ft. span proves a grand success. With four men in the middle it sagged only 10 in., coming right up to place when relieved. Owner is so well pleased, he tears down 80 rods of good board fence to make room for Page.

PAGE WOVEN WIRE FENCE CO., Adrian, Mich.

LATEST! CHEAPEST! BEST! 1

We keep all kinds of bee supplies. Send for free circular. Satisfaction guaranteed. ST. JOSEPH APIARY CO., 212 Edmond St., St. Joe, Mo. E. T. ABBOTT, Manager.

THE "WESTERN SETTLER"
TELLS ALL ABOUT THE WEST.

WILL BOUT THE WEST. 1000 JOHN SIBASTIAN, Gos. Thebat and Passenger April 9 Chicago, Book School and Pacific Ratironi, Chicago, Ell.



TWO-CENT COLUMN.

"For Bale," "Wanted," "For Exchange," and small advertisements for short time, will be charged two cents per word for each insertion. Institute or a number counted as one word. Oash with the order. Special:—All orders received for this column from subscribers, for a limited time, will be accepted at one-kaif the above rates, cash with order. It will pay. Try ti

POPCORNOWANTED.—Correspond with F. Bar teldes & Co., Lawrence, Kas.

THE MORTGAGE - LIFTERS. — Yorkshires, the grass hogs. Alfaifa, the grass for hogs. Langshans, Leghorns and Brahmas. Quality rather than quantity. James Burton, Jamestown, Kas.

LLUSTRATED INCUBATOR PLANS—Ten cents. Cheap in making. Hundreds are in use. Hot water system. H. A. Jacobs, Hammonton, N. J.

FOR SALE-1,200 bushels old corn, 500 of wheat T 1,000 of oats, sixty acres corn in field (good place to feed), fifty tons of prairie hay, farm implements, one span mules and horse, a few hogs. Will sell all or part. Address E. Hunt, Lane, Kas.

SITUATION WANTED—By a Swedish man, on a farm or elsewhere. Has worked on a farm in this country two years. Is a graduate of agricultural, stock-breeding and dairy school in Sweden. Can also use carpenter tools. A. Swensson, Lock box 53, Belleville, Kas.

TOR SALE OR TRADE.—I have a good creamery outfl, consisting of Danish-Weston separator, twelve horse-power boller, ten horse-power engine, steam Babcock milk-tester, tempering vat, milk receiving vat, two pumps, scales, shafting, pulleys and belting; good refrigerator, capable of holding 2,000 pounds of butter; milk cans, cheese press and hoops. Everything to fit up a good creamery capable of handling 8,000 to 10,000 pounds of milk per day. Will sell for cash or will trade for steers. Want to move this within next ten days. Write or call on D. J. Wallace, Wichita, Kas.

FOR SALE - Improved broomcorn machinery. Chain-feed scraper and horse-power press, used one season. J. A. Hammers, Anthony, Kas.

FOR SALE—Jersey buil calf, thoroughbred, registered, solid fawn color, black points, a perfect animal. Address E. W. Blaine, Roxbury, McPherson Co., Kas.

RRIGATION PUMPS.—For prices of irrigation pumps used by the editor of KANSAS FARMER write to Prescott & Co., Topeka, Kas.

OTEAM CIDER WORKS—Sixth street road, three D miles west of Kansas Ave., Topeka. Bring me your apples. Mill in operation Tuesdays, Thursdays and Saturdays. I will make your cider at reasonable rate or buy your apples at market price. H. W. MoAfee, Topeka.

CRIMSON CLOVER SEED—New crop. Per pound 12 cents; per bushel, \$6. F. Barteldes & Co. Lawrence, Kas.

WANTED—Three hundred sgents to sell nursery stock for The Seneca Nursery. The finest Kansas-grown stock, the best terms, the biggest pay. S. J. Baldwin, Seneca, Kas.

WE WANT AN AGENT (EITHER SEX) IN every county to sell the Mary Jane Dish Washer and the No Burn Frying Pan. Best selling articles out. Send 35 cents in stamps and get a prepaid sample frying pan. Purinton & Co., Des Moines, Lowa.

JERSEY BULL CALVES FOR SALE—Bull calves from cows closely related to the winners at the World's Fair. Dams are making from twelve to fourteen pounds of butter a week. Will ship to any part of the State. A E. Jones, Topeks, Kas.

FOR SALE—Two Holstein-Friesian bull calves, eligible to registry. Price reasonable. Alex. Gardner, Richland, Shawnee Co., Kas.

CLIPPER GRAIN AND FEED MILL—Best fan-catalogue write to F. Barteldes & Co., Lawrence, Kas.

SHORT-HORN BULLS — Of the milking strain, stred by a son of imported Thistletop. Address M. Waltmire, Fountain, Kas.

WANTED-English blue grass, timothy, alfalfa rye and other seeds. Correspond with F. Bar-teldes & Co., Lawrence, Kas.

WANTED—Buyers for Large English Berkshires.
One hundred pure-bred pigs, farrowed in March
and April, are offered for sale at from \$10 to \$15
each. Farm two miles west of city. Riverside
Stock Farm, North Topeka, Kas.

FRESH ALFALFA SEED.

MCBETH & KINNISON, GARDEN CITY, KANSAS.

FOR EXCHANGE—One thousand choice bargains in farms, ranches, timter and mineral lands, but iness and residence property, mills, hotels, operahouses, livery barns, stocks of merchandise, etc. Write me what you have for sale or trade and what you want for it. John G. Howard, Topeka, Kas.

POLAND - CHINA MALES — Tecumseh, Square Business strain, cheap. J. D. Ziller, Hiawatha

SUNNYSIDE — YAKIMA VALLEY. — Irrigated lands. Produce apples, pears, prunes, peaches, hops, alfalfs. Worth \$30 to \$600 per acre. "Twenty acres enough." For map, prices, particulars, write F. H. Hagerty, Sunnyside, Washington.

PEDIGREE SEED WHEAT

Red Clawson,	per	bushel	••	• •	• •		• •	*	• •		*		•	• •				*	1.00
Winter Fife,	44	**	••	••	• •		•	• •	•	• •	•	• •	•	• •	•	•	'	٠	1 0
Currell,			**	• •	• •	٠	• •		• •	*	•		• •					*	1.00
Red Russian,	**														٠				1.00
Red May.	**	**	٠.	٠.						٠.	٠								1.00
White Leader,	44	**																	2.0
Genesee Giant	. **	**																	4.0
Sacked f. o.	b	Lawren	ac	е.	F	۲E	O	18	8	8.									

COMMERCIAL HOTEL AND RESTAURANT.— Rates per day, \$1.25; single meals, 25 cents. First-class lunch room connected. F. Long, proprietor, 528 Kansas Ave., Topeka, Kas.

WANTED-A farm near Topeka. Dr. H.W. Roby, Topeka, Kas.

WANTED—Sale bills, horse bills, catalogues and other printing. A specialty at the *Mati* job printing rooms, 300 North Kansas Ave., North Topeka.

CHOICE BARRED PLYMOUTH COCKERELS— At \$1.50 apiece. Also White Holland turkeys. Young toms \$3 each, \$5 a pair. Mrs. E. P. Mason, Belle Plaine, Kas.

BELOW THE BLIZZARD LINE—Fruit and stock farms for sale. Enclose stamp for price list, terms, etc. Hynson & Elmore, Mammoth Springs, Ark.

SEND TO-DAY FOR FREE SAMPLE COPY OF Smith's Fruit Farmer, a practical Western horticultural journa', 50 cents a year. Smith's Fruit Farmer, Topeka, Kas.

"How To RAISE PIGS"—A free book to farm-ers, postpaid. J. N. Reimers, Davenport, Ia.

TWO-CENT COLUMN--CONTINUED.

CLOSING OUT—Entire stock of Hamburgs, incu-bators, brooders, bone-mill, clover-cutter, etc., on account of death of wife. J. P. Lucas, Topeka, Kas.

SOUTHWEST MISSOURI.

Fruits of all varieties except tropical, and all grains and vegetables grow profusely. No crop failures. No drought. No irrigation. Pleasant and healthful climate. Good stock country. Good schools. Good churches. Good society. Good mater. Timber and minerals abundant. Cheap land. Investigate. Address Southwest Missouri Immigration and Improvement Co., Springfield, Mo.

SWINE.



A. E. STALEY, Ottawa, Kansas.
CHESTER WHITES AND
POLAND-CHINAS. Light
Brahma eggs, twenty for \$1.



W. S. ATTEBURY Rossville, Kansas. BREEDER OF Chester Whites

Exclusively.
Young stock at all times. Satisfaction guaranteed

Thoroughbred Duroc-Jersey Hogs

Registered stock. Send for 44-page catalogue, prices and history, containing much other useful informa-tion to young breeders. Will be sent on receipt of stamp and address. J. M. STONEBRAKER, Panola, Ill.

SELECT HERD OF BERKSHIRES

Have for sale pigs from State fair winners. Can ill classes for show. Boars for fall service. A few hoice sows bred. Address G. W. BERRY, Berryton, Shawnee Co., Kas.

S. McCULLOUGH.

Ottawa, Kansas.

Breeder of Pure-bred
BERKSHIRE SWINE.
Stock for sale at all times.
Satisfaction guaranteed. Write for what you want.



Choice pigs of best families now ready to ship. Come or write. Satisf'n guarant'd.



JAMES QUROLLO Kearney, Mo. Large Berkshires,

S. C. Brown Leghorns and Bronze Turkeys. On H. & St. Joe, 28 miles northeast of Kansas City.



Rome, Kansas, Breeder of POLAND-CHINAS and BERKSHIRES. Two hundred head. All ages. Fifty boars and forty-five sows ready for buyers.



CLOVER LAWN HERD POLAND-CHINAS. Young sows and boars and spring pigs for sale. Prices reasonable. Stock first-class. W.N.D. BIRD, Emporia, Kas.



P. A. PEARSON Kinsley, Kansas, Breeder of Poland-China Swine

All ages for sale. Herd headed by Dandy Jim Jr. and Royalty Medium, a son of Free Trade.

HILLSDALE HERD



Short-horn cattle and Poland-China hogs, bred by C. C. KEYT, VERDON, NEB. Aberdeen King 101458, a pure Cruickshank, heads the herd. Stock for sale at all times. Visitors welcome. A fine lot of young male pigs for sale. Farm two miles north of Verdon, Nebraska.



J. R. KILLOUGH & SONS Richmond, Kansas, Breeders of

POLAND-CHINA SWINE The very best strains. Nothing but first-class stock will be shipped to any. Come and see us or write.



POLAND - CHINAS Won six prizes, including first blue ribbon west of Mississippi at World's Fair. Stock all ages for sale.



Wichita, Kas., Breeder of

solicited.

R. S. COOK

World's Fair—more than any single breeder west of Ohio.



Poland-China Swine. For sale sows bred to farrow in September and October. Also young stock at reasonable figures at all times. Satisfaction guaranteed. Cor-

RIVERSIDE HERD

respondence as well as inspection invited. J. V. HANDOLPH,
Emporia, Kas.
Established 1868.

MAINS' HERD OF POLAND-CHINAS.



A grand lot of early pigs
A grand lot of early pigs
for sale, sired by Monroe's
Model U. S. 29933 O., Tornado
Model U. S. 29935 O., Tornado
thighly-bred sows, many of them and the two first
named boars purchased direct from Ohio's best
breders. I pay express on pigs to August 7. Sows
bred to farrow in the fall for sale. Write me for
No. 1 stock. Safe arrival of all guaranteed.

SEED

J. Ct. PEPPARD 1400-1402 UNION AVE. Red, White, Alfalfa and Alsike Clovers, Timothy, Blue grass, Orchard grass, Red Top, Onlon sets, Tree seeds, Cane seed. KANSAS CITY, MO.



FREE ILLUSTRATED BOOKLETS-

> New Mexico. California, Kansas, Oklahoma-The

Santa Fe Route

Publishes them for Everybody

Please write to or Talk it over with G. T. NICHOLSON, Gen. Pass. Agt. A. T. & S. F. R. R., Topeka, Kansas.

PUBLIC SALE POLAND-CHINAS

At Fair Grounds, Hiawatha, Brown Co., Kansas, Friday, September 7, 1894.

About seventy-five head of choicely bred POLAND-CHINAS, consisting of sows bred for fall litters, a few glits and males of fall of 18% breeding, balance early pigs from this spring litters. Only tops selected. This offering sired by eight choice males, comprising blood of all the leading strains extant, such as Black U. S., Wilkes, Teeumseh, Corwin, Susas, etc., and out of prize-winning sows, second to none. Some of Lizer's Nemo's pigs, sired by A. 2d., ahe by Black U. S., will appear in sale. Also pigs from Lady U. S. Butler, she by Butler's Darkness. Some from Fannie Moore, she by Ed. Kleaver's Quality, and other fine sows. This being the last day of the banner county of Kansas fair, come and semany of its products and hear the opening speech of Col. F. M. Woods, the auctioneer. Free accommodations to all purchasers from a distance. For fuller descriptions, with pedigrees, terms of sale, location, etc., send for catalogue, ready August 15.

BERT. WISE. Reserve. Brown Co. Kag.

PUBLIC SALE OF POLAND-CHINA SWINE!

One Mile East of Fair Grounds,

Hiawatha, Kansas, Wednesday, September 19, 1894.



I will offer on the above date about FORTY HEAD of the tops of my spring pigs. Also a few aged sows with litters by their sides, sired by Young Free Trade (1107), that grand, prollife, yearling at head of herd, bred by G. W. Brown, of Ohio. Free Trade 20237 O. was sired by All Right 19765 O. and out of Graceful F. 4912 O.; dam Winning Girl, and her sire Riever Roy 25283 O. Young Free Trade was assisted in herd by Kld Tecumseh (11109), sired by Tecumseh Chip 2d 7609, and out of Lady Bess (13795), her sire Black Duke 5455 by Moorlab King 649; granddam old Midnight 226. Herd sows royally bred and very prolific. Twelve sows farrowed ninety-three pigs. My pigs are strong, growthy and very lengthy, good backs and No. 1 feet.

Parties from a distance will be met at train if notified of coming to sale. Catalogues will be ready September 5. Send for one. Free lunch at noon. Sale at 1 o'clock.

Terms of Sale:—Five months time without interest, if paid when due; if not paid when due, 10 per cent. interest from date of sale. All notes must be bankable.

ELI ZIMMERMAN,

WM. H. BABCOCK, Proprietor. ELI ZIMMERMAN, Auctioneer.

Poland-China Shropshire Sheep. Aberdeen-Angus Cattle.

Largest and best flock in the west. 50 yearl'g and ram lambs guarantee them the equal of any prices. KikkPATRICK & SON, ut of Imp. Grand Delight. In State in quality and breeding.



Cattle Feeding Machine.

The best, most rapid, most powerful and most efficient Feed-Cutters, Corn-Orushers, Ensilage-Cutters, Root-Cutters, ever invented. Cuts and crushes corn fodder, ear on or off; crushes ear corn, hard or soft, wet or dry, husk on or off; crushes shelled corn or cotton seed faster and better than any other machine made. Sold on trial. For free descriptive circular and location of nearest shipping point, address

E. A. PORTER & BROS.,

930 State St., BOWLING GREEN, KY.

SOLD AT AUCTION. On Tuesday, Wednesday, and Thursday of each week. Private sales every day, At the KANSAS CITY STOCK YARDS, HORSE & MULE DEPT.

THE LARGEST & FINEST INSTITUTION OF THE KIND IN THE UNITED STATES. 88107 head handled during 1893. All stock sold direct from the farmer, free from disease, and must be as represented or no sale. Write for market report, mailed free. Address, W. S. TOUGH & SON, Mgrs., Kansas City, Moket report, mailed free.

MISCELLANEOUS.

J. M. HOSMER, Live Stock Auctioneer, Maryville, Mo. Fine stock a specialty. I respectfully so licit your business and guarantee satisfaction. Terms reasonable. Secure dates early.

F. M. WOODS, Auctioneer, Lincoln, Neb. Refer to the best breeders in the West, for whom I do business. Prices reasonable and correspondence

JAS. W. SPARKS,

Live Stock Auctioneer, Marshall, Mo. Sales made in all States and Territories. Refer to the best breeders in the West, for whom I have made sales. Write or telegraph for dates before advertising. Terms reasonable.

ELI ZIMMERMAN, Hiawatha, Kansas, Pedigreed and registered live stock a specialty. Write for dates. Sales conducted anywhere in the country. Best of references and satisfaction guaranteed.

C. A. SAWYER, FINE STOCK AUCTIONEER—Se Manhattan, Riley Co., Kas. Have thirteen different sets of stud books and herd books of cattle and hogs. Compile catalogues. Retained by the City Stock Yards, Denver, Colo., to make all their large combination sales of horses and cattle. Have sold for nearly every importer and noted breeder of cattle in America. Auction sales of fine horses a specialty. Large acquaintance in California, New Mexico, Texas and Wyoming Territory, where I have made numerous public sales.

In writing to our advertisers please say you saw their advertisement in the KANSAS FARMER.

SHEEP AND POULTRY FOR SALE.—So me Scholce Cotswold and Merino bucks, any age. Will sell to suit the times. The leading varieties of first-class poultry for sale at all times. Address H. H. Hague & Son, Walton, Kas.

Farmers, Spay Your Sows

For fall fattening. Also your Nannies, Ewes and Gip Dogs, with Howsley's Spaying Mixture. Easily used, quick, absolutely certain and safe. Price, \$3 per bottle; \$2 haif bottle. One bottle spays one hundred head. Write for testimonials and particulars.

THE HOWSLEY SPAYING CO., Kansas City, Mo.

arded Highest Medal at the World's Fair. latest improvements. Catalogue free. F. C. AUSTIN MFG. CO.,

HOMES IN SO. DAKOTA FOR SALE \$5,00 to \$10.00 per acre. 10 years time, low int. FARMS TO RENT OR EXCHANGE. WE HAVE Rich soil, healthy clichurches and markets. Information and list of

farms free. S. W. NARREGANG, Aberdeen, S. Dak.