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HORSES.

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Dover, Kas.

V. B. HOWEY, Box 108, Topeka, Kas., breeder and shipper of thoroughbred Poland-China and En-glish Berkshire swine and Silver-Laced Wyandotte chickens. THE WOOD DALE BERKSHIRES

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.

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FOR SALE CHEAP - Choice Poland-China boar pigs, Cotawold and Merino bucks, fifteen varie-ties of pure-bred poultry. Prize-winners. No cat-alogue. Address with stamp, H. H. Hague & Son, Walton, Kas.

POLAND-CHINAS. — Districh & Gentry, Rich-mond, Kas., have a fine lot of fall boars and sows and two very fine young sows bred that they will sell cheap. Breeding choice. Quality guaran-teed. Write or come and see us.

CATTLE AND SWINE.

A SHLAND STOCK FARM HERD OF THOR-oughbred Poland-China hogs, Short-horn cattle and Plymouth Rock chickens. Boars in service, Admiral Chip No. 7819 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.

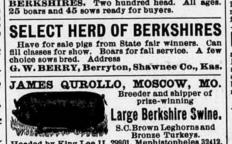
POULTRY.

A. B. DILLE & SONS, EDGERTON, KAS., breeders of choice B. P. Rocks, S. L. Wyandottes, Light Brahmas and M. B. turkeys. Chicken eggs 11 to 52 per 15; turkey eggs 53 per 11. Satisfaction guaranteed.

EUREKA POULTRY YARDS.-L.E. Pizley, Em-poria, Kas., breeder of Plymouth Rocks, S. Wy-andottes, Buff Cochins, B. and White Leghorns, B. Langshans, M.B. Turkeys and Pekin ducks. Chicks at all times. Eggs in season.

Thoroughbred Duroc-JerseyHogs

T.A.HUBBARD Rome, Kansas, Breeder of POLAND-CHINAS and



We offer choice selections from our grand herd, headed by a great imported boar. New blood for Kansas breeders.

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SWINE.

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

D. W. EVANS' HERD **REGISTERED POLAND-CHINA SWINE**

FAIRVIEW, BROWN CO., KAS. 250 head headed by Swi Tecumseh 11929 S., by L's Tecumseh 11413 S., and Billy Wilkes 9309 S., by George Wilkes 5550 S. Inspection invited.

MAINS' HERD OF POLAND-CHINAS. JAS. MAINS, Oskaloosa, Kas. (Jeferson County.) A grand lot of sows bred to Monroe's Model, Excel, MoWilkes Jr. and Storm Cloud 2d. Also all other classes and ages of stock for sale. I guarantee safe arrival and stock as represented or money refunded. Breeding stock recorded in Ohio P. C. R.



ROCK QUARRY HERD. N. E. MOSHER & SON, SALISBURY, MO.

Fifteen choice Poland-China sows bred to Mosher's Black U. S. and Faultless Wilkes for sale; ten choice young boars ready to go; six young Hereford bulls. Also eggs for sale from Black Langebans scoring \$4 to \$954 and from a choice lot of Light Brahmas and Mammoth Bronze turkeys.



DONIPHAN COUNTY HERD **Recorded Poland-China Swine.**

A. W. Themanson, Wathena, Kas. Herd boars Graceful F. Sanders 1805 S., sire and dam prize-winners World's Fair, and Early Sisson 1933 S., that has one thousand descendants in a radius of fifteen miles. Fail and winter gilts bred for sale. Booking orders now. Write or come.

Poland-China Hogs, Holstein Cattle and B. P. Rock chickens of the choicest strains. Butler's Darkness No. 68468 and Ideal U. S. Nemo at head of swine herd. Only choice stock shipped on order. Sows bred and a few extra good young boars for sale. Write your wants. Satisfaction guar-anteed. Sixth Annual Clearance Sale, Sept. 17, 1896. BERT WISE, Reserve, Brown Co., Kas.



Breeder of PURE-BRED HEREFORD OATTLE. Herd headed by Wild Tom 51692, a son of Bean Real 11055 and assisted by sons of Cherry Boy 26475, Archibald 1st 39268 and Washing-ton 22515. 200 head, all ages, in herd. Strong in the blood of Lord Wilton, Anzlety and Horsoe. A choice lot of young heiters, fit for any company. Buils all sold. Correspondence solicited, or, better still, a personal inspection invited. SHANNON HILL STOCK FARM G. W. GLICK, ATCHISON, KAS.

CATTLE.

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Breeds and has for sale Bates and Bates-topped SHORT-HORNS. Waterloo, Kirklevington, Fil-bert, Gragg, Princess, Gwynne, Lady Jane and other fashlonable families. The grand Bates bulls Win-some Duke 11th 115137 and Grand Duke of North Oaks 11th 115735 at head of the herd. Choice young bulls for sale now. Visitors welcome. Address W. L. OHAFFEEE, Manager.

SWINE.

TOWER HILL HERD PEDIGREED POLAND-CHINAS.

B. R. ADAMSON, Prop., Ft. Scott, Kas. 25 highly-bred brood sows of best strains, headed by Black Dandy 8809 S., Black Stop 10550 S. and Joker Wilkes 12683 S. About 100 selected indi-viduals sold this season. 25 youngsters coming on now for choice. Write or come and visit my herd.



PLEASANT VIEW STOCK FARM.

Poland-China Swine, Short-horn Cattle,

Light Brahmas and G. L. Wyandottes. Herd headed by Anxiety 20251 A., assisted by Com-bination U.S. 13408 and America's Equal 12279. Have some choice fall pigs, both sexes, for sale, and a few Light Brahma cockerels. Eggs i and \$1.60 per setting. Write. [Mention KANSAS FARMER].

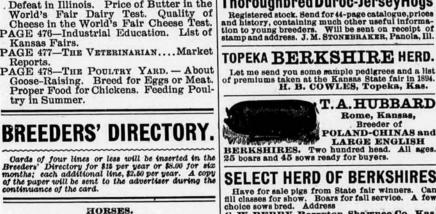


Horton, Kas. Headquarters for Admiral Chip yiles. The great \$250 bacr, Admiral Chip yile, Ends the herd, assisted by Kansas Chief 13076, Winterscheidt Victor 13294, Geo. Wilkes Jr. 11893. Also pigs from Orient's Success 27259 and Banner Chief 12714. Sows of following strains: Tecumseh, None Such, Wilkes Admiral Chip, etc. Prices reasonable. Write or come



of the Tom Corwin and I. X. L. strain. None better. Public sale, Friday, Sept. 6, 10 a.m. Send and have your name recorded for a catalogue at once. Stock grown by Latimer are sure winners. Col.Sawyer, auc.

STANDARD POLAND-CHINA HERD.



PROSPECT FARM-CLYDESDALE STALLIONS, SHORT-HORN CATTLE, POLAND-CHINA HOGS. Write for prices of finest animals in Kansas. H. W. McAfee, Topeka, Kas.

Headed by King Lee II. 29801, Mephistopheles 32412.

PEDIGREED Holstein- M. H. Alberty, Cheroke BERKSHIRES. VALLEY GROVE HERD OF SHORT-HORNS.-For sale, choice young bulls and helfers at rea-sonable prices. Call on or address Thos. P. Babst, Dorae Kes

ENGLISH RED POLLED CATTLE AND COTS-wold Sheep.-Young stock for sale, pure-bloods BBITT. HIAWATHA, KAS Address L. K

SWINE.



Agricultural Matters.

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WEEDS, AND HOW TO KILL THEM. Investigations of Lyster H. Dewey, Assistant Botanist, United States Department of Agriculture.

(Continued from last week.)

HORSE NETTLE (Solanum carolinense). The horse nettle is native in the southeastern part of the United States, as its specific name indicates. It is now found in nearly all of the States east of the Missouri river, and is slowly increasing its territory. As the seeds are seldom found as impurities in commercial seeds, and as they have no special adaptation to aid in distribution except that the berries are sometimes eaten by birds, the horse nettle spreads ough cultivation is practiced. The rather slowly. When it has once ob-tained a foothold, however, it ranks among the worst weeds of this country as regards difficulty of eradication.

It is closely related to the common potato, which it much resembles in its white or purple flowers and yellow ber-ries. The plants are six to twenty inches in height, loosely branshing, rough, with short, stiff hairs, and armed with yellow prickles. The eaves are oblong and irregularly lobed like those of the white oak. The mid- The Canada thistle and spiny amaranth rib and larger veins bear prickles like those of the stem, but smaller. The plant is reproduced by the seeds, which are borne in the berries, and it is abundantly propagated, also, by slender perennial rootstocks.

The horse nettle is not eaten by any kind of farm stock, even when dried and made into hay, being avoided on account of its sharp prickles and rough pubescent foliage. Ordinary cultivation has comparatively little effect on it, often tending to multiply and improve its growth rather than to subdue it. It is more or less troublesome in nearly all crops and in all soils, but is worst in sandy or loose, friable soils, which are easily penetrated by the long rootstocks.

The production of seed may be prevented by keeping the plants mown. The rootstocks must be killed, however, and this task is about as difficult as killing the rootstack of the Canada thistle; in fact, the methods which are most successful in destroying the Canada thistle may be used with advantage in destroying the horse nettle. Clean cultivation and grubbing or spudding sufficient to prevent any development above ground will starve out the rootstocks. Oats, barley or millet sown thickly on well-tilled land will weaken the rootstocks, preventing much growth above ground. Immediately after these crops are harvested the land may be plowed and harrowed frequently until time for sowing crimsan clover or winter rye. This will induce the germination of weed seeds, and at the same time expose some of the rootstocks to be killed by the sun. Crimson clover, hairy vetch, rye or winter oats may be sown to choke down the growth of horse nettle and other weeds during the fall and early spring, to furnish winter pasturage, and then to be plowed under as a green fertilizer. A hoed crop following, if kept well cultivated, will clear out most of the remaining weeds. The plowshare used in these operations should be kept sharp, so as to cut a clean furrow, otherwise the rootstocks are likely to be dragged and scattered about the field.

nearly spherical spiny balls, filled with black, irregular seeds. These burs, becoming attached to passing animals, are readily scattered. The plant has a lighter, more bushy habit than the horse nettle, and is often blown about as a tumble-weed in the prairie region. It is an annual, easily subdued by preventing the production of seeds. This may be done by mowing as often as the yellow blossoms appear. The seeds are less abundant than those of most of the bad annual weeds, and they are not often ripe, at least in the northern part of its range, until after the hurrying work of harvest Each bur contains two seeds. is over. The buffalo bur is seldom troublesome in fields where thorseeds may be expected as impur-ities in alfalfa and clover seed grown in the West. So far as knewn, how-ever, in the East this weed has ap-peared in waste places in cities and towns and has spread thence to the closed in the hard, spiny bur, they are surrounding farms.

In this respect the buffalo bur is typical of a large number of introduced weeds, which are neglected on the waste land in villages and cities where they do no direct and manifest injury. are growing on many vacant lots in Washington. The prickly lettuce first became abundant in Michigan and Ohio in the cities of Detroit and Toledo. The Russian thistle is now growing unchecked, save by the occasional botanical collector, in many localities in and about Chicago. Similar instances might be multiplied; in fact, probably the majority of cities and towns of this country are harboring noxious weeds which should be destroyed in simple justice to the farming communities, which aid most directly in supporting the prosperity of these towns.

The spiny amaranth, or prickly careless weed, as it is often called, is native in tropical America, and seems to have been first introduced into this country along the southeastern coast. It is now more or less abundant in most of the States south of the Potomac and Ohio rivers, and is spreading with considerable rapidity. It resembles the common tumble-weed (Amaranthus albus) and other amaranths or careless weeds of the neglected corn field and garden. It is an annual with a succulent stem, branching profusely throughout and attaining a height of fifteen to thirty inches. The leaves are darkgreen, lance-ovate, smooth, about one and one-half inches long. At the base of the leaf stalk in most cases are two slender sharp spines, one-fourth to onehalf inch long. The small, green flowers are crowded in slender spikes at the ends of the branches and in dense clusters in the axils of the leaves. The seeds, borne singly in the flowers, but aggregating several thousand on an average plant, are black and shining, round or slightly flattened, and about one twenty-fourth of an inch in diameter. They might be found in clover seed, millet, or grass seeds. The plant grows in broken ground like other amaranths, but unlike most of them, it also grows and even spreads aggressively in strong blue grass sod. No farm stock will eat it, at least after the spines begin to develop.

first, but developing at maturity into bright yellow spines. The stem branches from the base and grows to the height of one to three feet, bearing many narrowly ovate leaves about one and one-half inches long, sometimes slightly toothed near the base, rather thick in texture, the upper surface dark green with a whitish midrib and the lower white with woolly pubescence. At the base of the leaf stem on one side is a three-pronged spine about an inch long. On the other side is an inconspicuous flower, followed by an oblong, spiny bur like those of the common native cockleburs, but smaller, about one-half inch long.

The seeds are therefore less abundant than those of most troublesome annuals, but this apparent defect is counterbalanced by the fact that they retain their vitality many years and that the hooked spines on the burs provide for their wide distribution by passing animals. As they remain inseldom found in commercial seeds. Although this weed is an annual, it is most troublesome in pastures and meadows, spreading even in strong sod.

Its growth at first is slow, and, as it needs light and room to develop into a robust plant, it may be choked down by any quick-growing crop that will crowd and shade it. In permanent pastures and waste places, where it flourishes best, it could doubtless be eradicated in time by mowing the plants about twice each year, in August and September, or by cutting them up with a hoe or spud in May and June. As the seeds often lie dormant in the thick-walled bur several years before germinating, it might require a like period to exterminate a patch by this method; but the plants would be continually growing less in number, and the labor correspondingly lighter.

(To be continued.)

Destroying the Hessian Fly.

Under date July 17, 1895, Bulletin No. 11, Purdue University Agricultural Experiment Station, of Indiana, says: "Owing to the prevalence and destructiveness of the Hessian fly this year, concerted efforts should be put forth to prevent a recurrence of its ravages upon the next wheat crop. In order to prevent a serious attack of the fly, the following measures should be adopted: (1) Thoroughly burn all fly-infested wheat stubble in which there is not a stand of young clover or grass. (2) Prepare very early a border, one or two rods wide, around each field of wheat, and sow the same to wheat in August. (3) Turn this border under very late, using a jointer, following with roll and harrow, and then sow the entire field. By taking this course many of the insects which escape the fire will be buried when the early-sown border is turned under, and the late sowing of the general crop will avoid the earlier it every week; no trouble to sell good attacks of any remaining fly. If these butter; he used some himself and knew precautions are carefully and generally observed by the farmers the Hessian in groceries or dry goods, when, perfly will not seriously damage the next haps we did not need them! Wasn't wheat crop. United effort is necessary to be effective.

"Fall sowing of clover seed .- The our pay in United States currency, intense drought has quite generally then we can buy where we please and destroyed the spring seeding of grass what we most urgently need, instead and clover. Unless a 'catch' of grass Like other annuals it may be subdued is secured this season the crop rotaof stale dry goods and groceries." Well, Kansas is humping herself in by preventing the production of seed. tion will be thrown out of joint, the the corn fields at present, since the It would readily succumb to thorough supply of hay and pasture next year cattered about the field. BUFFALO BUR (Solanum rostratum). This plant is also a native in this untry and pasture next year the corn neuts at present, since the cultivation, as it grows rather slowly at first and does not produce seed un-til midsummer or later. Mowing or any plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant is also a native in this cultivation of the plant before the former of the former of the plant before the former of the plant is also a native in the plant is also a native in the plant before the former of the plant is also a native in the plant before the former of the plant is also a native in the plant is also a native in the plant before the former of the plant is also a native in the plant before the former of the plant before the plant before the former of the plant before the plant before the former of the plant before the plant before the former of the plant before the plant bef country, originally growing on the grubbing up the plant before the flower full belief that under average weather all left in the county. What little conditions a 'fall catch' of clover and weeds have outgrown since the rain, grass seed may be secured: (1) Burn so the headers have had to cut weeds the stubble to destroy all rubbish that to get wheat heads, consequently there would interfere with the perfect prepwill be lots of damaged wheat. I hear aration of the seed-bed. (2) Harrow wheat is already rotting in the earlyrepeatedly with a disc or spading harcut stacks. I am cutting mine with row until the soil is thoroughly the binder and dumping it off loose in loosened to the depth of two or three bunches. If the rains will let up so weeds can cure, I think it will do to inches. (3) Pulverize the soil very finely with a fine-tooth harrow. (4) As put in stack. soon as the soil becomes thoroughly Now, I don't want all you agricultural moistened, sow the clover seed, harrow editors to make such a "blow" about it in lightly, and heavily roll the ground. The timothy or other grass Kansas corn this fall, as being mountains high all round the barns, and so seed may be sown later, say about the forth, or the "bears" will say corn will usual time of sowing wheat. If the sell for 10 cents a bushel, and the farmwork is well done at the proper time a ers must take it. Wheat prices have catch' will be reasonably certain. "The urgent need of combating the been so ridiculously low lately that we

Sick Headache Permanently Cured

"I was troubled, a long time, with sick headache. It was usually accompanied with severe pains in the temples and sickness at the stomach. I tried a good many remedies

recommended for this complaint; but it was not until I began taking

AYER'S

Pills that I received anything like permanent benefit. A single box of these pills did the work for me, and I am now a well man.' C. H. HUTCHINGS, East Auburn, Me.

For the rapid cure of Constipation, Dyspepsia, Biliousness, Nausea, and all disorders of Stomach, Liver, and Bowels, take



Hessian fly, and the value of the clover crop as a soil-renewer and forage plant, should induce the farmers to act promptly and unitedly in their efforts to repair the damage already sustained and prevent further loss."

Orops, Etc., in Kingman County.

EDITOR KANSAS FARMER:-I notice in your last issue an offer to send Mrs. E. M. Jones' book, "Dairying for Profit, or the Poor Man's Cow," for five 2-cent stamps, so find enclosed the amount for book, if not too late. "Dairying for profit" is pretty hard to do in Kansas, at 8 cents a pound for butter. We took butter to Kingman two weeks ago, before the creamery started. Merchants said butter was coming down in the market, and 8 cents a pound was really all they could pay. So we let a "had-been" farmer merchant have our butter at 8 cents in goods. It was nice, fresh, solid, yellow butter. I was in town again, about a week after, getting binder twine. The merchant who bought butter hails us: "Did you bring any butter in?" "No," we said, "we are bringing the milk to the creamery, eleven miles." He was awfully sorry; he would give us 10 cents a pound for butter and take it was good. Now, 10 cents a pound he generous? "No," we said, "when the creamery started we took our milk, and get 60 cents per hundred and get

spikes develop is probably the best Western 'plains, close to the mounmethod of eradication in permanent tains, from Mexico northward. It was doubtless spread to some extent by the pastures. Potato land and corn stubble may be plowed or thoroughly disked buffaloes, as it has been found along after the crop is harvested and a winthe buffalo wallows. While the horse ter crop sown which will keep down nettle has been slowly traveling westward the buffalo bur has been working the weeds. SPINY COCKLEBUR (Xanthium spieastward, until it is now found in many nosum) of the States east of the Mississippi This plant, often called daggar cockriver, and has even crossed the ocean, lebur and well deserving that name as threatening to become a troublesome one of the most spiny of American weed in Germany. It is related to the weeds, is a native of tropical America. potato, and closely resembles the horse It has been introduced into many parts nettle, but its spines are stouter and of this country, in some places doubtmore abundant and its flowers are yelless having been spared, or possibly even been cultivated, at first, for the low. Instead of the smooth, yellow berries of the horse nettle and potato, moreover, it has spiny burs, somewhat striking effect produced by its shiny, resembling those of the burdock at dark green foliage and its slender, ought to have fair prices for our corn to square us with the world for a new start

A little about irrigation. It is not going to save the Kansas farmer. Firstly, it is too costly; next, a limited number only can avail themselves of it. The prices will not warrant the cost, then they will burst up before they learn how to irrigate. But the cheap-est and best way for all Kansas farmers is to buy a good subsoil plow and make a reservoir under all their farms. I saw proof of my assertion at a neighbor's, a short while ago. He had a pipe sunk in the ground eighteen inches, from windmill to barn. The weeds were rank and luguriant over the pipe, and away from it they were dead, during the dry spell before the IRVING BELL, last rains.

Rago, Kingman Co., Kas.

Improvement in Hard Winter Wheat.

EDITOR KANSAS FARMER:-I have read with interest the recent articles on "Deterioration of Kansas Hard Wheat." Your Kansas City correspondent claims that it is not deteriorating, in which opinoin I concur. At the same time, it is evident to every farmer living in this belt of the State, from east to west, that our Turkish or Russian wheat has undergone quite a change, both in appearance and the hardness of the berry. This change has not come in one season, but has been gradual, and in some particulars seems to be still in progress. .

When we first began growing it, fifteen or twenty years ago, the berry was dark in color, shape long, and of a flinty hardness. Now, when well ma-tured (and especially if sown on new land), the color is almost identical with Oregon, and in shape it also closely resembles Oregon, but considerably harder, although not nearly so hard as our old-time hard wheat.

Another change may be noted, and, in my opinion, it is in a great measure the result of those noted above-the favor with which it is received on the market. When first put on the market it brought from 5 to 10 cents per bushel less than our soft wheats and millers would not take it in exchange for flour. That margin of difference has been obliterated, and during the last six months has appeared on the other side of the line. Some will say that that is the result of different milling processes, which is no doubt the case to a considerable extent, but is more the result of the improvement in the grain. Now, I believe this bleaching and softening process is still going on, and whether it will continue until our hard wheat becomes identical in texture, as in appearance, with Oregon, or soft wheat, is a question that further trial will answer. It does not appear to have lost its power to withstand dry or cold winters. As when it first appeared, it was claimed to be as hardy as rye, and the past winter rye did not hold its own with our hard wheat in this vicinity.

Your Kansas City correspondent claims southern Kansas hard wheat is as dark and hard as fifteen years ago. If this be so, then I would say that that is not the wheat that has made the reputation for "Kansas hard wheat" that we now have in the markets of the world. FARMER. Claffin, Barton Co., Kas.

Inquiry About Corn Binders.

EDITOR KANSAS FARMER:-As the

The Stock Interest.

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

see to be advertised in this paper. SEPTEMBER 6-Walter Latimer, Garnett, Kas., Po-land-China swine. SEPTEMBER 18-Martin Meisenheimer, Hiawatha, Kas., Poland-China swine. OCTOBER 4-Winterscheidt Bros., Horton, Kas., Po-land-China swine. OCTOBER 9-Geo. W. Null, Odessa, Mo., Poland-China swine. OCTOBER 10-J.B. Killough & Bons, Richmond, Kas., Poland-China swine. OCTOBER 22-F. M. Jail, Marshall, Mo., Poland-China swine. OCTOBER 23-C. G. Sparks, Mt. Leonard, Mo., and G. L. Davis, Elmwood, Mo., Polond-China swine. OCTOBER 29-Chas. Cannon, Harrisonville, Mo., Po-land-China swine.

How to Feed Thoroughbred Hogs.

"I am a young farmer and have been raising Poland-China hogs for market ever since I could carry swill. I al-ways used thoroughbred sires and the best sows in the herd. This spring I ordered a pair of pigs, and will try a few recorded pigs for breeders. They are of the best strains and guaranteed good individuals. I would like to have you tell me how to feed them for best results, especially the boar, from time received until time of service. I can make milk part of the ration. Any help will be appreciated."

Our correspondent has opened up a very large question, one that has been engaging the attention of the best swine breeders for many years and will for many years to come. How to feed for the best results can be learned only by actual experience and the oldest breeder will always be learning something new. We can, therefore, deal with the subject only in a general

The first and most important thing for the young breeder is to get a clear idea of the object in view. This is not the production of fat, but of vigor, thrift, of an early-maturing animal, and easily fattened, of fine form, style and finish, and a good looker.

The trouble with most beginners is that they are apt to think that nothing is too good for the pigs that have cost them large money, hence they often feed too much, and of food that fattens rather than promotes growth, and therefore, while their hogs are "just too sweet for anything," to use a feminine phrase, they are not profitable. Excessive fat and profitable fecundity are incompatibles. The thoroughbred pigs should, therefore, have good care, but should not be pampered. Give them plenty of room and exercise and muscle-making rather than fattening food. Oats are likely to be abundant this year and we would give them plenty of them, all the grass they will eat, and all the exercise they will take. Make corn a part of the ration, and more of it in winter than in summer. When oats become too high, fall back on corn, but give about one-sixth as much oil meal as corn. If skim-milk is plenty balance the corn ration with the skim-milk.

When the boar is received, see that he is not too fat for vigor. Reduce him gradually, if too fat, by putting him in a clover pasture and feeding oats and pumpkins, if the latter are in season. Get him at least a month before you use him, and when you begin using him have him in the highest degree of vigor and gaining in flesh. During the season of service feed him largely on oats, with corn for variety. Keep him out of sight of sows except increase from day to day until she has then in use and then put him back in had shorts five days. I then take time they are six months old. is own pen. Visit some of the best mother and pigs to a one-eighth acre lot This year I have had the personal his own pen. Visit some of the best mother and pigs to a one-eighth acre lot breeders and note how they do it. The of grass in which there is a nice house, principles that govern are, after all, eight by seven feet, dirt floor. Now is simple; experience alone will show how to apply them. It is all simple to the man that has the "know how," and this can be obtained only by the actual doing of it. The things to be avoided are, on the one hand, over-feeding and pampering, feeding for fat rather than for vigor and form, and, on the other hand, thinking that blood will do everyfever in bag. She will need close attention. I batke the belly with thing, and treating a thoroughbred as if he were a scrub. Improved hogs recold water, and have a bottle of flaxquire improved conditions, plenty of seed oil with a little carbolic acid in feed and care and of the right kind. Our correspondent, having first learned it, and with a turkey feather put this to handle hogs for profit, has learned over her teats. The washing with the first lesson. No man who has not water cleans off all the dirt and allays thoroughly mastered this should un- fever; the oil and acid preserves the

dertake the thoroughbred. Having mastered this and keeping in mind the different objects in view, he can easily modify his methods to meet the new requirements. Some of the best hogs are grown by men who seem careless in the methods; others who seem to give extra care fail, but it will be found that the men who succeed follow the methods outlined above in a general way. Good blood is essential, muscle-making food is equally essen-tial; the rest is care, thoughtfulness, pains.--Wallace's Farm and Dairy.

Selecting the Young Brood Sow. A Wisconsin breeder, writing to the

American Swineherd, says: "Three years ago I was having lots of trouble with my young sows farrow-ing very small litters, and great diffi-culty in farrowing these. I sought the advice of a breeder who had the benefit of much experience, and who had met with excellent success. His first remark was: "You have been picking out the style of pig that pleased the eye, instead of giving due consideration to other necessary requirements of a good brood sow.' Continuing, he said: 'Some would call these sows bred too fine, but it is in reality in the training through improper feeding; too great a preponderance of corn, a fat-forming food, was given them while raising them, causing them to be fat, small, smooth and plump, instead of growing and developing good frames. Milk is a first-class growing food; so is bran, shorts, oats, linseed cake (old process) and the various grasses. Good pasture and exercise in gathering it is of great importance. Corn should be used sparingly and only in connection with the other named foods. These gilts that are raised on the foods giving growth of form with strong bone, great vitality, broad across the hips, may not be quite so pretty and "rosebuddish" to the eye, but when they farrow you will be pleased and profited with good-sized litters of strong pigs. But, young man, your mistake is not an exceptional one, but a very general one.' Two years have proved the truth of this advice, and I give it for the benefit of other young breeders who have made the same mistake. The information

How I Feed and Manage Pigs Up to Six Months of Age.

has been of great value to me."

By Wm. Roberts, read before the Iowa Swine eders' Association.

If the topic would allow of it, I would like to take a run and go, before I I open the doors of each pen or lot, jump, say about two weeks before the and have the sows, from six to eight, pigs see daylight. I do not know but that to get at the subject just right, one would need to go back a good ways and come up to the topic. I will only take up your time for a brief period. For two weeks before farrowing I feed as near the kind of food as possible I intend to feed afterwards. I have well arranged, roomy breeding pens, with good fenders, in which I put the sow a day before farrowing time. When the time is up for her to travail, I am on hand, but to tell you just what I do I will not attempt, for my doings are various, to suit the case. One may need no attention; another may need all the skill of a breeder. I put water in a clean trough a few hours after the sow has farrowed; that is all the first day. The next day all the feed I give

Nervous Prostration Cured by Dr. Miles' Nervine.

Prolonged derangement of the nervous ystem not only affects the brain and mental powers, but develops disease in some of the vital organs. The most dangerons of these indirect results is when the heart is affected. This was the case of the Rev. N. F. Surface, Fawn River, Mich., who writes under date of Feb. 14, 1895:



"Fourteen years ago I had a slight stroke of paralysis. Overwork brought on nervous prostration. I was exceedingly nervous and the exertion of public speaking caused heart palpitation that threatened my life. I used two bottles of Dr. Miles' New Heart Cure for my heart trouble, and two of Dr. Miles' Restorative Nervine for my nervousness and feel better than I ever expected to feel again. I can speak for hours without tiring or having my heart flutter as it for-merly did, and I have you to thank that I am alive today.'

On sale by all druggists. Dr. Miles' Book on Heart and Nervous Disorders FREE by mail. Dr. Miles Medical Co., Elkhart, Ind. Dr. Miles' Remedies Restore Health.

pigs from sore mouths. I try to coax up an appetite sometimes with little scraps of meat, milk, mush, etc. I now, if they have good appetites, in-crease the feed, clear fresh water, shorts and a little oil meal mixed, as feed, and give all they will eat up clean. At this time I commence on one-half ear of dry corn, increase from day to day until on a full feed. I keep on in this way. At about three weeks old the pigs will begin to come up to the trough. It is fixed low so they can eat all they will. Then soak oats and corn and put it in a shut-off corner. Stand and look at them eat and grow, and feel happy. At five weeks of age come up to a common feeding place. Of course the pigs come, too. Toll the pigs into a clean-floored house and feed slop as heretofore, and soaked oats and corn, all they will clean upalways sweet. At eight or nine weeks old I turn the sows in back pasture and leave the pigs in their pasture and keep right on giving same feed and care. When fair time comes we select what we want to exhibit. After the round-up of the fairs we separate the sexes, castrate what males appear to be below the standard, put them with such of the sow pigs as we do not want to retain either in our own herd or to ship for breeders, push these as fast as possible and try and have them in Chicago before the first of February, at from 200 to 250 pounds. After seher is a handful of shorts in water, and lecting what I want to retain, I try to have the rest in other hands by the

corn-cutting season is fast approaching I want to inquire about corn harvesters. Let us hear from those that have given them a trial, as to cost of twine, draft, cost, durability, etc. Are they made to take more than one row at a time? Are the bundles left scattered over the field, or several together? Do not the bundles shrink in drying so much that the twine becomes loose? The way we cut corn here-two men on a sled—is a great improvement over the old-fashioned way with a corn-knife, but is heavy work and especially burdensome in hot weather.

C. P. SLOCUM. Lerado, Kas.

"The Farmer's Ready Reference, or Hand-Book of Diseases of Horses and Cattle." Descriptive circular free. Address S C. Orr, V. S., Manhattan, Kas.

care and oversight of 130 pigs. There has not been a single case of scours, but one case of thumps and only three or a critical time, and no iron-clad rule four with sore mouths. There is not will do; of a dozen sows, no two are exactly alike, hence the necessity of having them in lots to themselves. an unhealthy-looking pig in the bunch. They are in five groups and kept sepa-One may have a voracious appetite and rate. If I could so arrange it, I would will need holding in, or you will soon prefer smaller groups. I would give have a patient on your hands with you all a personal invitation to come dyspepsia. Another may have but and see my pig town. little appetite, generally occasioned by

Union Pacific Route.

What you want is the through car service offered between Denver and 'Chicago via the Union Pacific and Chicago & Alton railroads, which is unexcelled by any other line. Magnificent Pullman sleepers, dining cars and chair cars, run through daily with-out change, Denver to Chicago via Kansas City.

KANSAS FARMER

Irrigation.

PERTINENT POINTS ON IRRIGATION By F. J. Fogg, read before the Perris, Cal., Horticultural Club

How shall the best results be obtained? A concise reply would be, by applying the water intelligently. A statement from good authority at our farmers' institute warned us against the use of water when it was too cold, or colder than the soil, especially on citrus trees. A point like this once gained should not be forgotten. The grain, the grass, the vegetables, trees, may each call for its application in separate ways. Different soils call for different application, different quantities at an application, and different spaces of time between applications. If your soil is loose, you may use a larger quantity at a time and less length of time. If your soil is compact, or your land falls off rapidly, you will get far better results by using just the soil and climate of the Northwestwater enough to keep the entire length of furrow absorbing water, and continue the stream twenty-four or forty-eight hours. If you are irrigating vegetables, less time will suffice, than if you are to force the water down to tree roots. At the same time you must allow for exhaustion by evaporation sooner, even under good cultivation, than when forced deeply into the soil. By actual test I have proved that trees made far better growth, even in loose soil, where water was run twenty-four hours slowly, after the soil is first wet, than where it was abundantly applied for a few hours. In sinking a hole where water had run for twenty-four hours a week previous, I found the soil quite wet to a depth of four feet. I know not how much farther down it was moist.

I think it was Prof. Cook who stated that plants feed only on soluble soil, showing the necessity of abundant moisture at the feeding section of the roots

I believe that cultivation is a twin sister to irrigation. Neither can do all the work properly, but unitedly it may be accomplished. When to cultivate, how deep and how often, are questions well worth considering.

I would guard against too much surface irrigation on clay or heavy soil where alfalfa or anything equally tender is seeded, that cannot be properly cultivated. Just how much they will stand, or need, requires exercise of judgment. A heavy rain prevents grain from springing up; a flooded surface would naturally act worse on smaller seeds.

I believe that there are specific times to irrigate individual plants and fruits to greatly increase their production. I am informed that a ,heavy rainfall in November or December will insure a heavy yield of grapes in the north and middle of this State where they do not irrigate. Also, that an abundance of water applied in October or November will almost insure a heavy budding for fruit of the prune, thereby laying a foundation for a coming crop. The practical fruit-grower can go farther and state when and how much water to use to mature different fruits to the best advantage. The growing of alfalfa seems simple, yet no two fields produce the same amount. The soil differs, but no more than the minds of six-inch piping, constituted the well. the owners. It is no trick to grow To the top of this a pump was fastened from two to three tons per acre on light and a six horse-power steam engine soil by using sufficient water after cutting. Heavier soil will make a good yield on less water than light, but it is safe after your field is well rooted to use all the water you can get, and your profits will be greatly increased thereby. Arizona, with but a scant rainfall, is dependent on irrigation. Her broad rivers are turned from their courses to water her fertile soil. Her system of The pump can readily be detached from distributing the water is crude-with level land and abundance of water it is flooded from ditches. What results from it? She has not only heavy fields of alfalfa, but of barley and wheat for hay, and to-day she is selling bright of the farm without the expense of barley hay for \$10 per ton. Deducting making long and expensive ditches. freight and baling, the producer will There is no patent on the sort of points.

with the dry ranching of our State. their yield being so much heavier per acre.

Those who have made a practical test of irrigation for growing hay crops in our vicinity are satisfied with the results. Another link closely connected with tree and shrub irrigation where cultivation is inconvenient or too laborious, is mulching with material that is well rotted, if possible. By test I am convinced that a limited amount of water will do double service under mulching, besides saving much labor with the hoe or spade.

Experiments in South Dakota.

EDITOR KANSAS FARMER:-It is not generally known that there is being conducted at this point a series of experiments that will solve once for all the question of irrigation, and will also determine which varieties of the different kinds of cereals, grasses, vegetables, trees, etc., are best suited to ern country. The Hunter farm comprises 800 acres, every foot of which can be irrigated. The artesian well on this farm is 1,065 feet deep, six inches in diameter, and has a pressure of 165 pounds to the square inch. The flow from this well is sufficient to cover five acres of ground with eight inches of water every twenty-four hours. The John A. Salzer Seed Company, of La Crosse, Wis., has an experimental plat of twenty acres on this farm, on which is growing 3,500 varieties of vegetables, cereals, grasses, forage plants and trees that can be raised in this climate. There is also a United States sub-experimental station located on the farm, and a weather record is kept. These are under the supervision of the State Agricultural college, of Brooking. On the State experimental plat the same varieties of vegetables, cereals, grasses, etc., will be planted as on the Salzer plat, and they will receive the same treatment in every way except that they will get no water whatever other than rain. These plats being side by side, it will be possible to determine at a glance what irrigation will accomplish. H. F. Hunter and the Salzer Seed Company have a 212acre patch of potatoes on this farm, in which is planted scores of varieties, and this will also be an interesting test. A complete record will be kept of the climatic conditions, time of germination and condition during growth of everything until its maturity. B. W. MOORE.

Mellette, S. D., July 15, 1895.

Irrigation at the State Soldiers' Home. EDITOR KANSAS FARMER:-During the last session of the Legislature an appropriation of \$500 was made for the purpose of putting in an irrigation plant at the State Soldiers' Home, at Fort Dodge, near Dodge City.

A centrifugal pump, No. 3, capacity 650 gallons per minute, manufactured at Syracuse, N. Y., by Irvin Van Wie, was agreed upon by the Board of Managers. A six-inch iron pipe was sunk to the depth of thirty-one feet. A point of the same diameter and eight feet in length, made of galvanized iron and perforated with a cold chisel from inside, and then bent into a cylinder or tube with a wooden plug in the bottom and attached to the lower end of the was hitched on and set in motion. The perforated galvanized point, of course, let in fine sand at first, but in a short time it was thrown out with the water, leaving such gravel and sand as was too coarse to go through, on the outside. The water became clear, as above stated, and has so remained ever since. Two such pipes and points were sunk at different places on the Home farm. one well and moved to the other. The engine being mounted on trucks, is also movable, so that with one pump and one engine several wells may be made to supply water on different parts



through whom we purchased the pump, piping and point.

This plant is situated on the Arkansas river bottom land, and in that locality solves the matter of obtaining water cheaply and rapidly for irrigating purposes. As to the supply of water there is no indication of any scarcity. Of course, when the time arrives that several thousand plants are put in active operation, elevating to the surface and spreading out this underflow of water, no one can yet demonstrate what the result will be. Quite a number are already at work, but if the water supply holds out ten to twenty thousand plants will be at work between Pueblo and Arkansas City inside of five years. Sufficient proof has been furnished to demonstrate beyond all doubt that enormous quantities of all manner of farm produce peculiar to this climate and latitude can be raised in this valley if an abundant supply of water is at hand when needed for growing crops.

The kind of pump in use at the home can be run by horse-power, but whether or not it will be cheaper to do so is a matter that we did not test. There are but four teams kept on the farm at present, and they are constantly engaged at other work. Several farmers might own a pump and an eight horsepower, such as are used in running corn-shellers or threshers, and move the power and pump from one well to another, as is done-at the Home, the only difference being horse-power instead of steam power. G. BOHRER.

About Over-Irrigation.

Moisture and not water is the demand of all vegetation. Where an abundance of water is not to be had there is no danger from over-irrigation. Many times a good crop is lost by irrigating at the wrong time and applying water at too frequent intervals. Corn will soon show the effects of excessive irrigation by turning yellow. Inspection of the roots of a corn stalk irrigated too much will show all clustered together, as if trying to escape from the drowning of over-friendly farmers. Fruit trees will either shed their leaves or the foliage will turn yellow because of too much water. Alkaline lands will show excess of moisture by the poison rising to the surface.

In every irrigated locality the effects of over-irrigation are clearly visible in orchards, fields and gardens. The soil that has too much water poured upon it becomes lifeless and of no value for growing crops. If a ditch or lateral carries a volume of water for two hours the soil is completely saturated and the excess begins to percolate through the hard-pan or surface soil, where it forms a sheet of pent-up mud. This under-lake of lifeless water will soon rob the soil of its loamy attributes and destroy the fertility by causing it to form in clods or mud-stones.

A few years of such irrigation will convert good farming land into worthless meadows and make a swamp of what ought to be well-drained fields. he history of irrigation has demonstrated these facts, which stand out as warnings to the farmers of the present against following in the footsteps of their former friends. Too much water on the surface causes a rank growth of crab grass, sand burs and other water plants. Double the cultivation is necessary where over-irrigation is practiced. The cultivated plants are crowded out by wild grasses springing up where too much moisture abounds. Useless cultivation disturbs the roots of growing crops too frequently and the result is that the production is decreased.-Joel Shomaker.

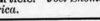
Benefits of Irrigation.

The science of irrigation solves the mystery of modern farming. In every section of the United States irrigation will become practicable because of its necessity and superior advantages. The farmer who depends on rainfall cannot produce as large crops nor improve the quality of his cereals or fruits except through expensive fertilizing methods. Irrigation is a fertilizer of great value and of but little cost. The successful agriculturist or horticulturist of the future will be he who adopts systematic irrigation even in the rain belt sections. The irrigation farmer is independent of droughts and is not damaged by excessive wet seasons. He has no occasion to growl about the weather but controls the soil, moisture and atmospheric temperature on his own domain.

Irrigation saves the fruit trees from the death blight caused by drought because it furnishes moisture at the proper time. A proper use of water by irrigation prevents grasses and cereals from dying and insures a permanent measurement of annual results. The surplus pools of stagnant water are carried away by the irrigation ditches, and an artificial drainage is thereby effected. No miasma ever spreads in an irrigated country. The motion of the water destroys the poisonous effects of decaying vegetation and the atmosphere is purified. The evil effects of droughts are unknown where water is applied by artificial means to the grow-

ing crops. Irrigation is nature's scav-enger and the physician of prosperity. In sections of the country where the rainfall is great irrigation canals can be used for carrying away surplus water. The laterals used for irrigating meadows will keep the field drained and crops will not suffer from excessive water. The roads can be drained of mud pools by proper grading and the construction of irrigation mains. Artificial ponds may be built to catch the waste water from the fields in summer and be used for ice ponds in winter. These pools can be surrounded by thrifty trees and will make splendid private summer fishing and picnic resorts. They will act as shelter and shade for cattle and thereby save extra feed and barns.

The benefits of irrigation are so many that every farmer should have some system in vogue upon his prem-A windmill to raise water from ises. wells, cisterns, springs, creeks, ponds or other places and distribute it over the land. Furrow irrigation is the best method and will accomplish the most good. If streams are near at hand ditches can be constructed on proper grades from the creek or river and used for carrying water over the land. It matters not how wet the season may be the ditches should be kept clean and water made to flow through them. People who have laughed at irrigation, should try it one season and learn its benefits. A trial will convince the most skeptical that the benefits of irrigation have not all been explained in this short article — Iool Showahar in in this short article.-Joel Shomaker, in Western America.



JULY 24,

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Guaranteed cost of operation one cent per horse-st, most economical and best power. Only a for min-tes the stantion one cent per horse-set in the stantion of the stantion VEBER GASOLINE ENGINE freight and baling, the producer will not receive half of this price, and yet they are satisfied, willing to compete by A. G. Gonder, of Sterling, Kas., Address Weber Gas & Gasoline Engine Co.,459 SouthWest Boulevard, Kansas City, Mo.

KANSAS FARMER.

Gossip About Stock.

Our advertiser, James Qurollo, Moscow, Mo., reports a nice lot of English Berkshire swine, as well as choice Brown Leghorns, now ready for sale.

Shropshire sheep and Poland-China swine are the specialties of the re-arranged breedare the specialties of the re-arranged oreed-ing farm of Kirkpatrick & Son, of Con-nors, Leavenworth county, Kansas. The farm consists of 820 acres, adjoining the village and station, one-half upland and the other bottom land. Twenty acres of alfalfa are doing nicely for the Poland-China pigs. Notice the special offer on Shropshire rams now for sale

W. S. Hanna, of Ottawa, Kas., reports the following sales and shipments from his herd of Poland-Chinas: "W. L. Delano, Otfawa, Kas., one World's Fair boar; C. Ottawa, Kas., one world's Fair boar, G. H. Nasbaum, Worden, Kas., one Corwin U. S. boar, \$15; O. S. Stockton, Belvidere, Kas., one Tecumseh boar, \$15; Charles Wikkinson, Dunlap, Kas., one Wilkes boar, \$15; W. Behrns, Globe, Kas., one Young America sow, bred, \$25; Rev. J. Perdue, Michigan, Kas., one pair of pigs, \$25."

DR. ORR'S BOOK.-Readers of the KANSAS FARMER will be pleased to know that ar-rangements have been made whereby they can obtain this concise and well nigh inval uable "Farmer's Ready Reference or Handbook of Discheses of Horses and Cattle" in combination with this paper at a slight saving in cost.

The separate prices of these are:

Two dollars sent either to the Kansas Farmer Co., Topeka, or to Dr. S. C. Orr, Manhattan, will secure both, making a saving of 25 cents.

George Topping, Cedar Point, Kas., writes: "The prospects for corn the best I have ever seen, also oats was a good crop. I have a fine litter of pigs most ready to ship from my grand show sow, Romford's Pride, pigs sired by my old herd boar, Model King here be and the boar, Model King, he by Director, he by Long-fellow (Gentry's). This boar is a royally-bred fellow, carrying the blood of the great Model Duke on his dam's side, she being by Model Duke. She was Stumpy Lady IV. Herd in good health. I have several litters, all sired by the famous boar, Model King. This fellow is of the low-down, compact kind, strong loin, best of back and feet, very full around heart, strong bone, in fact, a great hog and one of the best of feeders. His weight at 2 years was upwards of 600 pounds and not in extra heavy flesh. Having the kind of pigs the farmer likes, I would be pleased to correspond with parties wanting extra bargains in my line."

Themanson, Wathena, Kas. A. W. Themanson, Wathena, Kas., writes: "I am a graduate of Coin's Financial School-Poland-China department. I am in favor of the free and unlimited coinage of Poland-China pigs 16 to 1-that is, sixteen good points to one bad, sired by Graceful F. Sanders 13095 S., a son of Columbian prize-winners on both sides, also Early Sisson 11993, my aged male, who has been working, just simply for his board and keep, for me nearly four years, and U.S. Wise 13138 S., a son of A. A. 2d., and whose dam was the \$275 Lizer's Nemo. U. S. Wise weighed 400 pounds when twelve months old and had been in active service while making that growth. I am not a 'gold bug.' I will accept silver dollars at par in exchange for Poland-China pigs. The more I study the financial question, the greater grows my desire to add to my collection of sliver dollars that I am getting together. Any date will do. Send in your silver and your orders. Trade is good. Sold five pigs the past week."

The KANSAS FARMER takes pleasure in presenting to its readers two of Bourbon county's most successful young farmers, T. E. Martin & Brother, who, two years ago, laid the foundation of an excellent herd of pedigreed Poland-China swine, that now consists of eighty head, headed by the very excellent harem king, Royal Perfection 13159 S., a son of the noted King Perfection 11315 S., that won second in class and at the ar any ag Louis fair in 1894. His dam was Tecumseh Model 30859 S., by Perfection 10723 S., and sweepstake out of Norcatur Star 25082 S. He was farrowed May 6, 1894, and is now in his yearling form. Those acquainted with his sire at once recognize in the son a complete "chip of the old block" and at once begin to consider whether or not the "old man" has to his credit among the scores and scores of sons another one the equal of Royal Perfec-In his conformation he is growthy, tion. smooth, rangy and compact, an out and out all over and up to date standard Poland-China. Among others secured when the herd was founded were five very choice young females from the Tower Hill herd, bred and owned by the very successful breeder, B. R. Adamson, whose herd and farm lie near the city of Fort Scott. These females and others were sired by Black Dandy 8809 S. and Black Stop 10550 S. Both sires, especially the latter, are grand good ones. The visitor will find on looking 111 Adams St., Chicago.

over the twenty-one April pigs sired by Royal Perfection that they are a very even lot of broad-backed, deep-hammed youngsters, and demonstrate beyond a chance for a doubt that it pays to secure the best, both as to sire and dam. A more evenly typed lot of youngsters has not been seen by the The writer in the past twelve months. younger ones are just as good, and if the Messrs. Martin have as good success "nicking" in the future, the reputation of the Clover Hill herd will extend to the confines of the Poland-China breeders' field. The Martin boys have the aid, 'tis true, of Martin senior's forty years experience in swine husbandry, and having the 240-acre farm, with its tame grasses and range, ought to grow pigs. These opportunities, with their starting right, has already brought good results and demonstrates what may be done if one but tries. The eleven harem queens are a choice lot and worthy more attention than the "new man's" herd generally receives until that merited recognition is forced by common consent of the swine breeding public.

Stock Fountain.

Note the contents of letter from August Post, one of Iowa's heaviest stock breeders, and especially of Poland-China pigs. He is also Secretary of National Farmers' Alliance and Iowa Farmers' Alliance. Mr. Post is the farmers' and stockmen's friend, and would not likely misdirect any farmer or stock dealer to purchase an article that is not as represented. Any one interested should write him:

is not as represented. Any one interested should write him: MOULTON, IOWA, March 4, 1895. Stock Fountain Co., Lake City, Iowa: GENTLEMEN:-Enter my order for imme-diate shipment for two dozen automatic fountains for tanks. I am using the im-proved fountain you sent me sample of recently, and it is a daisy, sure. All ob-jections that could have been urged against the old one are overcome. I am using a dozen of the old ones now, and they give satisfaction, but the new ones seem so superior that it seems no improvement could be made. While at the State fair last fall, I saw one I thought I would like better than the "Lake City," but discarded it after trial, for reason it was like all oth-ers from Sterling, "a float." Part of this order is for neighbors who have seen mine. There is no fountain on the market that I could recommend, but the Lake City Auto-matic Stock Fountain. It is very strong, durable, and never gets out of order, while all other fountains soon play out, especially floats and springs. Very truly, AUGUST POST.

A BOON FOR WOMEN.

Dr. Hartman's Great Remedy as a Prescription for Worn-out Women.

It has been a well-known fact for years that the United States contains thousands and tens of thousands of tired, nervous, fretful women. They are not actually sick, but so languid and frail and haggard that life seems to have lost all of it pleasures for them, and those who live with them are sometimes worried into the same condition by hearing their incessant complaints. But it seems to the pocr sufferers that nothing goes right; that everybody they come in contact with is opposed to them, and, as a consequence, they are fretful and irritable. It is to such women as this that Pe-ru-na comes as a blessing in a time of the greatest comes as a blessing in a time of the greatest need. By making a thorough trial of this prince of remedies they will soon be made to realize its great worth and will never be without it again. It will bring back to

their wasted cheeks the plumpness and bright color of perfect health, remove from their jaded minds all of the prejudices and worries with which they have been suffering, and give them a buoyancy of step and sparkle of eye that only the best of health

ever brings. Send for free copy of new "Ills of Life." Address The Pe-ru-na Drug Manufacturing

Company, of Columbus, Ohio. For free book on cancer address Dr. Hart-man, Columbus, Ohio.

Does He Chew or Smoke?

If so, it is only a question of time when n. ma firmness, and the vigor and vitality so enjoyable now will be destroyed forever. Get a book, titled "Don't Tobacco Spit or Smoke Your Life Away," and learn how No-To-Bac, without physical or financial risk, cures the tobacco habit, brings back the vigorous vitality that will make you both happy. No-To-Bac sold and guaranteed to cure by Druggists everywhere. Book free. Address Sterling Remedy Co., New York city or Chicago.



Publishers' Paragraphs.

The twice-a-week Commercial Gazette, of Cincinnati, O., is now clubbed with the KANSAS FARMER, both papers one year for only \$1.65. Send us your order.

We can furnish you KANSAS FARMER and Peterson's Magazine, each one year, for \$1.75. Or KANSAS FARMER and Arthur's Home Magazine for \$1.65. Send to this office amounts above named.

FARM RECORD .- Our "Farm Records" have been such a splendid seller because of their practical value that our supply is now quite limited. We have a number of the best binding only, which the KANSAS FARMER will deliver to any address for only one dollar.

Mr. A. B. Dille, who has so long had a breeder's card in the KANSAS FARMER, has retired from that line of business and organized the firm of A. B. Dille & Co., Wellsville, Kas., and the new firm will con-tract and build creameries and cheese factories for any localities desiring the same.

THE DOLL-BRIDE.-The new paper doll, issued by the J. C. Ayer Co., Lowell, Mass. issued by the J. C. Ayer Co., howen, anasylis is certainly a beauty. Its pretty face and many changes of fashionable clothing and hats, make it a favorite in every doll family to which it goes. The small sum of 12 cents, in stamps, brings this doll-bride to any little girl who wants the very prettiest and sweetest of dolls.

W. F. Schell, of Fort Scott, has, by recent purchase of an interest, assumed the management of the Hart Pioneer Nurseries, with which he has been so long connected as Kansas representative. This nursery is well and favorably known to the fruit-growers of the West, and under Mr. Schell's management the business will be extended.

MITCHELL MACHINE CO .- If you are going to cook food for stock or poultry, or boil sap or make soap or heat water for scalding hogs, you can save time and money by using a device specially adapted to these purposes. We know of nothing before the public to-day that comes nearer filling these requirements than the "Dalley" Stock Food Boiler, manufactured by the Mitchell Machine Co., Kendallville, Ind., an advertise ment of which appears in this issue. The boiler is constructed of heavy iron and steel, either japanned or galvanized, to suit the wishes of the purchaser, and the capac-ity is three and one-half barrels for No. 1 and four and one-half barrels for No. 2. The fire-box, 23x25 or 25x29 inches, is cast from pig-iron and is adapted to the use of any fuel at hand. The top is provided with a hinged cover that admits of easily opening either end or removing the whole cover.

Paint.

We have had many inquiries as to which is the best paint, and have had circulars sent us of this and that "ready mixed" paint, with the inquiry as to whether we thought them good, etc. In talking with men of experience and good judgment in such matters, we have come to believe that pure lead and pure linseed oil make the very best paint, and that many kinds of "ready mixed" paints are more or less adulterated with cheap materials, or mixed with cheap (fish?) oil. Discussing paint with a couple of poultrymen a few days ago, one said, "I have used three different kinds, and neither one of them was worth

invested in is "N. G.," and the money paid

for it was, practically, thrown away. We, also, have decided that hereafter w will use lead and oil only. Talking with Mr. Andrus, who recently visited several Massachusetts poultry farms in the interest of some government schools in the Province of Quebec, he said there was no doubt in his mind that lead and oil was by all odds the best and cheapest paint, and, he said, "If you tell your readers to use raw linseed oil for all outside work they will find that it makes a harder and more lasting surface. Raw oil takes some longer to dry, but that is of no consequence on outside work, and

it wears splendidly." We visited Latham a few days ago, to talk "scratching shed," houses, etc., and incidentally the subject of paint came up.

"There is no doubt in my mind," said he, "that lead and oil is the stuff to wear, and for outside work if 20 to 25 per cent. of cheap flour (or fancy middlings, or 'Red Dog') is mixed into the paint it will dry into a splendid, hard, metallic surface, that will wear like iron." This we had never heard of before, but he said he had seen it tested and proved that there was something in the gluten of the flour or middlings that, combining with the lead and oll, made that "hard" surface so desirable in outside work. This is important, if true, as the addition of that quantity of flour (or fancy middlings) would somewhat reduce the cost of the paint at the same time we were getting the hard surface.

If the united testimony of these experienced men is to be relied upon, lead and linseed oil would seem to be the paint for us to use. The question would come up, "what lead?" and we have, fortunately, the answer of the associated manufacturers called the National Lead Co., which gives the "brands" of twenty-two manufacturers which are guaranteed to be pure white lead. We do not say that other makes of lead are adulterated, but we do believe these brands of lead are pure lead, hence we shall look out to get a reliable make when we are buyout to get a relation make where buy ing. With the "tinting colors," which they also manufacture, any desired shade (or tint) can be made—and we shall then be certain that we have got "the best."-Farm-Poultry, July 1.

Valuable Books Cheap.

By a special arrangement with the publishers, we are able to offer to subscribers any of the following named books at 10 per cent. less than the list price. These are new, fresh books, right up to the time, as is sufficiently guaranteed when it is known that they are put out by W. Atlee Burpee & Co., the famous Philadelphia seedsmen. Here is the list:

Price, postpaid.

.20 .50

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SHORTHAND Typewriting, Bookkeeping and Penmanship thoroughly taught. Twelve teachers, 800 students, cheap board, and the finest Commercial College Building in America. Graduates readily secure situations. Beautiful illus. Catalogue free. Address D. L. MUSSELMAN, Pres., Gem City Business College, Quincy, Illinois. I RESULTS ARE WHAT . YOU .WANT StowHAT . YOU . WILL GET BY . ATTENDING . THE AND INSTITUTES OF SHORTWARD AND TELEGRARHY. TO BE CONVINCED, GET OUR TUNISTRATED "COLD TACTS" AND OUR "BUSINESS EDUGATOR" WRITE "TO ON" MENTION THIS PAPER + ADDRESS + PARKER GOLD EMPORIA . KANSAS - OR . HUTCHINSON . KANSAS -

Special Service to Oleveland.

The fast train on the Nickel Plate Road, leaving Chicago at 1:30 p. m., arriving Cleveland 11:30 p. m., is the best day train between Chicago and Cleveland. Give it a trial and be convinced. Uniformed colored porters in charge of day coaches. Lowest rates to all points. For further informa-tion address J. Y. Calahan, General Agent,

the time and brush wear to put them on. I'm done with cheap paints." "That is just my fix," said No. 2. "I haven't used three different makes, but I painted one building twice within three years with a mixed paint the dealer said was 'just as good,' and cheaper, and it washes off like fun in every shower. The next time I paint it will be with lead and linseed oil, then I'll know what I've got!"

This is very much the writer's experience. Becoming acquainted in a business way with a paint manufacturer some years ago, we listened confidingly to his eloquent representations of the merit of a particular brand of his paint, and when we had buildings to paint went to his company and bought the brand he extolled so highly. The old gentleman is some years dead, and the company some time ago failed, and the business was wound up-so we are injuring no one in saying the paint we so confidingly

Get up a club for the FARMER.

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KANSAS FARMER.

JULY 24,

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

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 themgoes over to the n and very good. Co selves accordingly.

HE LOVED KANSAS.

'Twas a pilgrim who had lived and loved Among the sunny hills, Where rippling sings the river Kaw And the wildbird sweetly trills.

A printer, of the genial class; He had wandered far and long, And he had friends in many lands Among the artist throng.

But his once bright eyes were growing dim; He could no longer roam, So he turned toward that dearest place

On earth-a Kansas home.

He longed to spend the twilight hours Of that life so wild and free, Where the scented breezes softly sigh Round the home that used to be,

Then to lay his weary limbs to rest Where that summer—years ago— They laid his wife and little one, Where the flower-sweet breezes blow.

His last fond hope, his dying wish, By cruel fate denied,

Vith a longing look toward the setting sun And these parting words, he died: With a

"Here's a ring, a curl, and a printer's rule, I shall carry them no more; Like a mirage clear I see appear The angel-peopled shore.

"The ring-ah, once I had a wife. She is free from toil and care. The curl is from our baby girl. Whe passed the portals fair.

"Like voices from the better land, Like spirit voices sweet, The ring and curl to my listening sonl

Those loving tones repeat.

"I see again the birds and flowers Of the June-times long ago. I hear again a baby's coo And that singing soft and low.

"The rule-a friend, and tried and true; And it will ever be

To all who love the nøble art, What it has been to me.

'O, let me lie in that loved land Of the ripping river Kaw.

"I've seen the sunrise on the Alps, The castled river Rhine, And many a land that's known to fame, But none is fair as mine.

"I've stood 'mid scenery grand, sublime, Of which the poets sing-Beside the Kaw the thrushes build, And flowers make glad the spring.

"O, Kansas, sunny, Kansas; I know, when making you, God used for plan the summer land Beyond the distant blue.

"I'm dying now—my last request: Near that home where love was law, In that land of sweet and happy homes, Please bury me by the Kaw.

"A swaying sunflower at my head, At my feet let a wild rose grow, And prairie grass make green my grave, Where the winged winds whisper low."

Then the pilgrim printer passed away, His long earth journey o'er; He took his "card" and sought the clime

Where sorrow comes no more. Wetmore, Nemaha Co., Kas. W. A. B.

A FORCE IN EDUCATION.

Abstract of graduating thesis of Ada Rice, of Manhattan, at Agricultural college comme

"Education," says John Stuart Mill, "includes everything that brings us nearer the perfection of our natures." By that we mean, not only the intellect, but the development, the unfolding of man's mental, moral and physical nature.

our education and mould our characters for good or ill. Among these we include the Nirvana, the final state of bliss, is very influences of the church, the school, society, and that almost unrecognized force, the inspiration received from a single individual, which awakens in the child right ambitions and high ideals. But the force which I consider the most potent is that of the home. Without the co-operation of the home, the school is controlled with difficulty and the church works to equal disadvantage. Here the foundation stones of good citizenship are laid-the habits of obedience and self-control. If you wish to educate a child for ideal citizenship you would not place him in a home of squalor, neglect and ignorance, but in a home of comfort, love and intelligence. a home that is a school for his development. One of the most charming examples of what a home school could be is found in Pestalozzi's "Leonard and Gertrude." Gertrude was the wife of a poor mechanic in Switzerland, but was industrious, wise and good. She instituted a home school for her children, taught them home industries, hymns, maxims, prayers, and courtesy and they received him not. From this rejection Gearhart, Clearfield, Pa.

cleanliness. The influence of this home radiated in all directions-to the organization of the village school, to the preacher of the village; interested its best citizens in questions of higher education, until even the royal cabinet studied Bonnal and decided to imitate this little hamlet in the larger reforms of state.

In the home school, the habit of observa tion, that most important acquirementcan be taught better than elsewhere. A child need not go to school to study nature's lessons, for they are all about him. He should be taught to observe trees and plants, press and name specimens. Every well-regulated home should have one room set apart for the children's work-room, where all specimens in botany, geology, entomology, etc., could be brought, studied and mounted. But in still another way can the home assert an influence, and that is in the cultivation of the love for good books, and to this end the home library should be chosen with care. But the influence which is perhaps stronger in home life than all others, is that of religious teaching. In this day of scientific division of labor, this part of home life, as well as most others, is left to other tutors.

As a rule, the child follows the standard set by his parents. Especially is it true in religion. We have numerous examples in history of men and women who owed their great success in life to this part of their home training. Moses, the greatest leader of all time, received his early religious training from his Hebrew mother, and chose rather to be the leader of his people out of bondage than the prince and heir of a great nation. The greatest leader among women in this country, was reared in a home where religion was its ruling principle and where the intellect, body and soul, received equal attention. One need only mention the name of Frances Willard, to prove the force of home education.

When the homes of this country come to realize their whole duty, when the training there received tends to make boys and girls more sincere and sympathetic, observgirls more sincere and sympathetic, observ-ing and intelligent, imbued with right ambitions and high ideals of life; when we remember that "out of the heart are the issues of life," and that the "conscience is the real citadel of a nation," then will our ideal citizen be no longer a theoretical existence, but a living, powerful, reality.

The World's Religions.

Abstract of graduating thesis of Geo. W. Fryhofer, of Bandolph, at Agricultural college commencement, 1895.

From the dawn of history man's mind has reached out towards his Creator. Apparently the only creature that worships at times his god is human; or, lower still, he deifies the sun or that which is hoary with age; then he believes in many gods; and last, he turns to one Supreme Being, Father of a common brotherhood, maker of everything.

Religion has had more influence on the world's civilization than any other one thing. It has moulded the lives of millions and caused nations to stand and fall. It has been the monument of many bloody battles. It has taught man that he is sinful. In it he finds atonement. It has honored virtuous woman. It has made man pure; here he finds hope beyond.

Among the early leaders of religious thought stands Confucius, a pious, devoted student. To an unknown, sacred, mysterious power, behind and above all things, he addressed his prayer for the abuses in society. How vague and indefinite!

Brahmanism, the Hindoo's religion, is an acute philosophy. Their reasoning is, "There is nothing but God."

There is nothing without God, and yet authorities cannot agree as to whether the worship is to one God or many.

In Buddhism, its monastic life, its string of beads, chanting prayers, image of the virgin-queen of heaven-and the cross, ally it to Romanism. Its monks take vows of celibacy, poverty and obedience. Eternal life is obtained by compliance with There are many forces that enter into divine laws. This is a religion which re-Nirvana, the final state of bliss, is very



sprang Christianity. From twelve faithful disciples has come our great religion. It has stood the test of time. Tempered by the fires of the middle ages, it is the life of the nineteenth century. It says to rich and the hineteenth century. It says to rich and poor: "Come unto me and find rest." To literature, science and art: "These are my jewels." Christianity that purifies the heart; Christianity that exalts woman-hood; Christianity that teaches man to think and act, that throws off superstition; Christianity that fosters love and reverence for a God.

TO REMÓVE IRON RUST.

A Process Which Does Not Injure the Most Delicate Fabric.

To remove iron mold, or rust, from any white cotton, linen or other vegetable fiber, the following process is the best, as it does not injure the fabric: The spots are stretched over an earthen plate and moistened. Salts of lemon are then strewn over the marks and rubbed in with a bone or wooden spatula until the stain is removed, afterwards thoroughly rinsing in warm water to remove the acid. Nearly all stains and dyes will be discharged by oxalic acid; therefore, careful usage is necessary. Salts of lemon, salts of sor-rel, oxalic acid, etc., is a very danger-ous poison, and should be used with due caution.

Mildew is removed by first brushing off any loose mildew. Then a little common salt should be rubbed in, afterwards liberally sprinkled with powdered chalk, and thoroughly moistened with clean cold water. After this the articles should be slowly dried in the open air, and then rinsed, and if the marks are not removed the treatment should be repeated, possibly several times, but in the end the mildew will be removed.

Taken all together, curtain dressing is not hard work, and may well be done at home in the majority of households, as what is most required is patience sufficient to secure careful manipulation. It is certain, also, that curtains carefully treated in cleaning and getting up have their durability much increased; indeed some lace curtains have passed through my hands annually for the past ten years, and are now sound and good, but they have never been framed.-St. Louis Republic.

How to Wash Embroideries.

In washing embroideries done with crewels on a foundation of linen or crash, the first time bran water should always be used to set the colors. To prepare the water pour a gallon boiling hot over a pound of bran. Let the bran soak in the water a day, stirring it occasionally, then strain it well. Put the article to be washed in the water when it is lukewarm, pressing and squeezing it through the water until clean. Do not think of wringing dry, but press out all the moisture possible and dry in a warm place without exposure to sunlight. When it is still damp, lay the right side on a flannel and press on the wrong side. Use only the best crewels if you expect them to wash well .- St. Louis Globe-Democrat.

BASIS OF MARRIAGE.

Without Love There Can Be No Happiness in Times of Trial.

One girl who wrote to me recently "Wouldn't a marriage based on said: friendship, on good comradeship, and on thorough respect be a happy one?". I don't know. It might be a placid one, it might be a respectable one, but a marriage without love cannot be the one for which you or I were intended, writes Ruth Ashmore in Ladies' Home Journal. Comradeship and respect and a thorough liking might be all that were necessary during the sunshiny days, but what would they amount to when the gloomy days came?

And do you think if a man were trying to solve some great question, were trying to drive from his soul the demon of unbelief, that he would turn to the good comrade for help? No; he would go to the woman who loved him, and whom he knew knelt down every night of her life and said a prayer for him.

When people are suffering, mentally or physically, they do not turn for help or sympathy to that one whose speech is brilliant and witty and whose brain is strong, but they reach out, like a little child, to that one who loves them best, and whose heart is overflowing with sympathy and pity. Friendship is a great blessing, but it cannot take the place of love. And, if either a man or a woman marry, believing that a friendly feeling will be sufficient in their united lives, they surely in time will realize only too sadly the possibility of love coming to them, and the dread of a tragedy if he should be greeted with joy. Therefore I say to you, my girl, in building up your life you need as foundation for its shelter the corner-stone of love and no other will answer. If in its place you put friendship, mental sympathy, or good comradeship, the house will topple over when the wind of misery comes, for its foundation stone will drift away, carried along into the sands of indifference, and you will stand alone, weeping for that one who is not, and having around you only friendship and its kindness, while you long for love and its sympathy.

EFFECTUAL.—Charles J. Booth, Olive-wood, Cal., says: "I have used Ayer's Pills in my family for several years, and have always found them most effectual in the relief of ailments arising from a dis-ordered stomach, torpid liver, and consti-pated bowels."



mysterious and is thought by some to mean annihilation.

a Jew, and yet when he came to his own

Of Egyptians, with their high and wonderful civilization, Herodotus says: "They were most excessively attentive to the worship of the gods." Separation from sin could be obtained by an open-faced denial. The body was the central idea. Animals were worshiped, and it was almost impossible to slay a beast, lest it be a sacred one. The religion of Greece did not guide nor restrain, it only stimulated. In Rome the religion must serve the state. Gods multiplied so rapidly, that it was almost impossible to know which one to call upon. The Jews believed in a holy and a terrible God, the Maker of all things. Their ambition was to keep the whole law. Sin was atoned for by sacrifice. God's chosen people were the Jews. In Abraham he planted the seed of faith; David was his obedient soldier, statesman and poet. Sol-omon was wiser than any man. Christ was the card.

There is a good deal of dispute in regard to the etiquette of acknowledgment of a card for a church wedding. Some high authorities assert that the invitation is so general and means so little particular attention that no notice need be taken of it, except in the regular line of future visits to the bride and to the bride's mother. But Mrs. John Sherwood, who is, probably, our American social oracle, declares that a card is obligatory at the hour of the wedding, if one cannot attend, and that if the house address is unknown, his card should be sent to the church. If this is necessary, most people err woefully, for few non-attendants send

Invitations to Church Weddings.

Agents wanted for Gearhart's Family Knitter. For particulars address J. E.

25 cent package makes 5 gallons. Sold every-here. Made only by The Chas. E. Hires Co., Phila.

1895.

KANSAS FARMER.

The young Folks.

THE SUMMER.

The beautiful summer is almost done, Though long it seemed when the noon-tide sun Of jubilant June streamed clear and high Through the vast expanse of the soft blue sky. The fair fields smiled in their vivid green, The rivulet aparticled and danced between Its emerald edges, with merry song; And I said, Oh, the summer is blithe and long!

The beautiful summer is almost gone. It seemed not so when July came on; When the sun, with a heightened splendor shone, When the rivulet hummed in a drowsy tone, When blade and bud fast waxed complete 'Neath the brilliant beams and the fostering beat

heat; When the grain fields teemed with a mighty throng. And I said, Oh, the summer is bright and long!

The beautiful summer is almost o'er, The rivulet sleeps, and it sings no more; The heart of the universe pulses strong Through the hidden arterics vast and long, The ripened seeds in their cells expand, The golden grain waits the harvest hand, 'Neath the glowing gleams of the August su And I sigh! Oh, the summer is almost done

Summers of life, how ye come and go! But whence or whither, what soul may know? For ye flee away, as the shadows pass Like a silent wave o'er the growing grass. Ye burn in the vigor of manhood's prime, Ye burn with an energy enblime; But ye wane, and ye darken, your warmth is gone.

And the winter, the winter comes surely on!

O, glorious center of living flame! O, radiant sonrce whence existence came! Withdraw not thy laster of loving light. Lest I shudder and perish in chill and night! Let my spirit within thine effulgence float; Upborne aloft to thy spheres remote; Let it polse and soar through realms of day, Unshadowed, unshirking, away, away! -New York Weekly.

PERFORMING GOATS.

Mr. Matthews Tells How He Trained the Bearded Acrobats.

Piebald horses who have learned the multiplication tables; sportive dog who can play cards; pugilistic kangeroos who can box in a most scientifie manner; mice and fleas who can draw the chariot to which they are harnessed -these and a dozen other animal porformances we are used to and meet with at frequent intervals. But it must be admitted that goats who can perform gymnastic tricks, dance a tight rope, leap hurdles in a circus horse fashion, play see-saw, walk on a ball, and feel quite at home on a rolling barrel, are a novelty and are worth seeing.

I intimated that I should like to be introduced to Prof. Matthews, the trainer and owner of these wonderful goats at the London Aquarium, and in due course the professor was introduced to me. I found him to be very affable, and he was by no means dismayed when I informed him that whatever he



BILLY WALKING ON A BALL. told me would be taken down in writing and might be used in evidence

"Yes, it requires a lot of patience and perseverance. I use just the same things when practicing as I do on the stage. I find this is the only way. You saw them all standing on tubs? Once I thought it would be better and more convenient if I had tin cans made. They would be lighter and more easy to pack. Well, I had them made and painted very nicely, and thought I had achieved a great success. I was very proud of them. When the curtain rose and the goats mounted on to the bottoms of the cans, they yielded under their feet with the noise which tin makes, and the goats leaped off just as if they had been shot. The ments if they had been shot. The people laughed, thought it was part of the performance. But it was no laughing mat-ter to me. I tried them over and over again, but it was no use. They wouldn't stand still, and I had to give up the performance that night."

"I suppose you find the ladies-the Nanny goats-more tractable than the bearded gentlemen?"

"Oh, dear, no," said Mr. Matthews, with a smile. "I can do nothing at all with them. All my performers are Billies. The Nannies are too frolicsome. I can do nothing whatever with them."

"How do you train these goats? Do you use the whip?"

"No, I never use the whip at all. I carry one in my hand on the stage, but it is a mere form. The goats are all trained with the 'lunge'-a kind of bridle. They are taught just one trick at the time, and their reward for cor-rect performance is a 'feed.' It takes about eighteen months to train them perfectly, and they live about twelve vears.

"What do you feed them on?"

"They have hay morning and evening, and at midday they have a mixture, and I always manage to keep them in good condition."

"Only one more question. Do you have to keep telling the goats what to do-do you talk to them?

"No. They know just what to do, and they go through their performances as a matter of course, if they are in the right humor for it. But they are regular trade unionists. If the black fellow does not feel inclined to work -- if he goes off into the corner sulking, then I know I am going to have trouble. He is on strike, and the others won't work. But I generally manage to get him into good humor, and then all goes well."

Then Mr. Matthews said good night, and hurried off to keep an engagement to amuse the people at the east end of London.—Pall Mall Budget.

The Largest Chestnut Tree.

According to Dr. George Russell, of Hartford, Conn., the largest chestnut tree now growing on American soil is one standing in the town of Mansfield, th the above named state, on the land of a Mr. Whipple Green. It is in an open pasture, about three-quarters of a mile east of Mansfield station. The circumference of the tree at the height of 4 feet from the ground (which is sufficiently high to be clear of the gnarled roots at the buttressed base) is 23 feet 8 inches. It is heavily buttressed with exposed roots of enormous size, which would make the actual circumference at the base not less than 5 feet.

Benny's Cheerful Gift.

"Here, Benny," said Mr. Bloombumper to his young son, as the latter started to church, "is a five-cent piece and a quarter. You can put which you please

into the contribution box." Benny thanked his papa church. Curious to know which coin Benny had given, his papa asked him when he returned, and Benny replied: "Well, papa, it was this way: The preacher said the Lord loved a cheerful giver, and I knew I could give a nickel a good deal more cheerfully than I could give a quarter, so I put the nickel in."-Golden Days.



I love my little brother: He's a cunning, rosy elf; But I wish-somehow or other-That he could rock himself! -Fred B. Opper. in St. Nicholas.

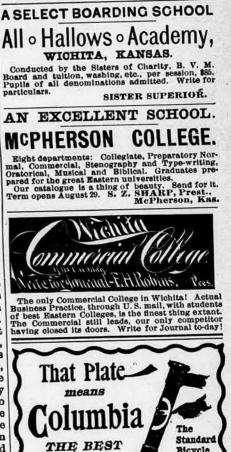
A Cat's Wonderful Leap.

During a fire in the tenement district of New York city, a large black cat, with shiny, yellow eyes, appeared on a window sill of the fifth story. Back of it a dull-red glow and an occasional puff of smoke gave warning that the flames were rapidly approaching. Puss understood, and, after a short walk on the sill, launched herself into space. The flight through the air was like that of a squirrel, the poise being perfect, and the legs spread out as widely as possible. The cat descended in a long, graceful curve, and when it struck the pavement, the feet were quickly bunched together and there was no "dull thud." For a single instant the cat paused, as if to recover from the shock, and then, with a long-drawn meouw and every hair on end, dashed along the street and disappeared in the darkness.

WORKING FOR A TIP.

This Busy Walter Can Be Drawn with One Stroke of the Pencil.

Boys will be interested in this fellow who appears so much in a hurry. His customer is evidently calling for the lemonade he ordered fifteen minutes ago. Our waiter's eyes fairly bulge in his great endeavor to meet the demand of the thirsty diner. But really the interesting thing about this picture is kin. glass, e made-nan that it may



[7] 471

On the steering-head of every Col-umbia bicycle of this year's make that name-plate appears. It is unique, handsome, and indicates much-satisfaction and highest enjoyment to the rider. No other bicycle has ever equal-

BICYCLE

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led a Columbia. No other bicycle ever shall equal Columbia. The greatest bicycle factory in the world say so.

New Price \$100

against him.

I "Don't call me professor, please. prefer plain Mr., only professor looks better on the bills."

"Very well, Mr. Matthews, I will remember that. Will you tell me what countryman you are?"

"I'm an American; but I have traveled all over the world with performing animals, horses and ponies, dogs and others, but now I keep to goats."

"Why?" I asked.

"Because I am alone. I have no opposition. Although goats are very intelligent animals they are very difficult to train, and there are hygienic reasons against their public appearance in places of amusement. But I have adopted a system of deodorization which I find most effective and which is entirely my own secret."

"Do you have much trouble to train them?" [asked.

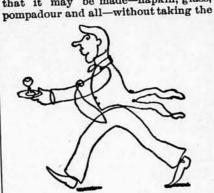
Very Queer Arithmetic.

Master-Bequick, my boy, and reckon up how many head of cattle there are in that herd.

Pupil-Seventy-six.

Master-How do you make it out? Pupil-I counted their feet and divided by four.

Master-You gave yourself unneces sary trouble, my lad. Next time you must count the horns and divide by two.



pencil from the paper after it has been begun until it is finished. Begin at the eye. The shading under the feet is, of course, not in the picture proper.-Young Men's Era.



472 [8] KANSAS FARMER.

JULY 24,

KANSAS FARMER. ESTABLISHED IN 1863.

Published every Wednesday by the KANSAS FARMER COMPANY

> OFFICE : No. 116 West Sixth Avenue.

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KANSAS FARMER CO., Topeka, Kansas Address

ADVERTISING RATES.

Display advertising, 15 cents per line, agate, (four sen lines to the inch).

Display advertising, 15 cents per line, agate, (four-teen lines to the inch). Special reading notices, 25 cents per line. Business cards or miscellaneous advertisments will be received from reliable advertisers at the rate of \$5.00 per line for one year. Annual cards in the Breeders' Directory, con-sisting of four lines or less, for \$15.00 per year, in-cluding a copy of KANSAS FARMER free. Electros must have metal base. Objectionable advertisements or orders from un-reliable advertisers, when such is known to be the case, will not be accepted at any price. To insure prompt publication of an advertise-ment, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when ac-ceptable references are given. Ber All advertising intended for the current week should reach this office not inter than Monday. Bvery advertiser will receive a copy of the paper free during the publication of the advertisement. Address all orders-

KANSAS FARMER CO., Topeka, Kas.

KANSAS FARMER and Semi-Weekly World (N. Y.), you can have for \$1.65 one year.

If you want one of the finest magazines published, send us \$2.25 for KAN-SAS FARMER and Cosmopolitan.

The wheat market at Kansas City closed 2 to 3 cents higher on Saturday than on the Monday of last week.

If you want KANSAS FARMER and Semi-Weekly Capital, send us \$1.50. Or, KANSAS FARMER and Topeka Advocate, send \$1.50.

Reports from wheat threshing throughout the country are rather disappointing as to the quality of the grain. This is due in the South and Southwest in many cases to excessive

The New York stock market-that is the market for corporation shares and bonds-appears to be in a condition of uncertainty. Even "bull" writers intimate that there are likely to be "bear" attacks and that they will succeed in depressing prices.

Any of our subscribers who are about to renew subscription will find some-thing interesting by reading the advertisement of "Samantha at Saratoga." If you have already renewed your subscription it will tell you how to get the book at the reduced rate.

The Shawnee County Horticultural Society will meet at Mr. Scott Kelsey's home, near Oakland, on Wednesday, July 31. All friends of horticulture are invited. It was voted at the last meeting that refreshments would be provided in the nature of a basket dinner.

"Dairying for Profit, or the Poor Man's Cow," by Mrs. E. M. Jones, is a most valuable book for every farmer's wife, that has had a large sale at 25 cents per copy. We have a number on hand which we will close out at a very low price to our readers, viz., 10 cents, or five 2-cent stamps. First come, first served. Order quick.

SPOILS.

The KANSAS FARMER'S showing of some "spoils of office" has brought out the suggestion that the pocketing of compensation for which neither service nor expenditure had been rendered, is only a mild form of plundering the people and is really legitimate and harmless in comparison with some other things which are done. The unfortunate fact about this is that it is true that worse things are done and that men of "character" think it no harm to profit at the State's expense, and that this is a "mild form" of peculation which should not be too severely condemned.

The writer had recently an opportunity to inquire, of an American cadet who was in China at the time of the Japan-China war, in what the superiority of the Japanese consists that they were able to win every engage-ment almost regardless of disparity of numbers. His reply was that corruption in the Chinese army is universal and that this is the cause of its weakness. Instancing his observations in the lowest ranks of the army, he said that enlistment was under officers who were each commissioned to enlist, command and pay several hundred men -usually about 500. The 500 men were reported and pay for them drawn by the officer on an actual enlistment of 250 to 300. These men were not paid the amount allowed by the government but such sums as were agreed upon by the officer. There was, therefore, no such thing as patriotism in the army, but the only motive was the mercenary one. In such a company there were no second officers to take command at the death of the enlisting officer and no one to pay the soldiers, so that, at every reverse, they were ready to throw away their uniforms and run away, claiming to be citizens and not soldiers. The difference between the mercenary spirit and organization which sapped the efficiency of the Chinese army, and which, until corrected, must lay that nation open as a prey to any valiant aggressor, and the spirit of peculation which charges for services not rendered and for expenses not incurred, is only in degree and not in kind. The experience of the Chinese in their late war adds seriousness to the evil of official peculation and illustrates the fact that it is worse than theft and partakes also of the nature of treason. There ought to be no

'spoils of office" to tempt men from the paths of rectitude and to become an incentive to political activity of a demoralizing kind.

OAN WE SAVE THE RUNAWAY WATER?

By a calculation, on June 19, the KANSAS FARMER found that the Kaw river was then carrying out of the State of the water precipitated upon our lands sufficient each day to irrigate 1,000,000 acres, giving to each acre an amount equal to three inches spread all over it. In almost any part of Kansas this, applied at such time as to do the most good, would so supplement the rainfall as to assure a corn crop or a wheat crop, as the case might be. This flood of wealth has continued to leave the State ever since about the middle of June and it cannot subside ator

deep. When the soil of the upper terrace is sufficiently soaked, or the water is likely to overflow the border, it is let down to the next, and so on until it tion to the independence which women is all taken up by the soil or until all may attain in the pursuit of this in-has been thoroughly wet. This work dustry. She said, however, that the is done with hand tools and yet it is found profitable.

The gentle slopes of western Kansas, and the great depth of fertile soil upon them, if in Ceylon, would doubtless be seized upon as presenting the most favorable opportunity for thus storing a supply of water against future needs, from the excesses of such floods as are now running away unused.

It is possibly not necessary that the work of terracing be done here to ac-complish much in the direction of saving the run-off water. Were the lister furrows run in such curves as to always have only a slight fall, so that, instead of rushing rapidly down hill, the runoff water were compelled to be a long time in leaving the land, much of it would be taken into the subsoils which, under natural conditions, are never wet. The amount stored and the rapidity with which it is taken up would also be greatly improved if the subsoil were loosened to a considerable depth. This kind of contour farming is not new in this country. In the days "be-fore the war" some of the plantations of the South were carefully surveyed by competent engineers and provided with hillside ditches and the rows of cotton and corn were made nearly parallel with these in such a way as to allow the water to leave the land without acquiring sufficient current to wash away the soil. Perhaps we may learn from the orient and from the "old South" some things to our profit in Kansas at the close of the nineteenth

MISSOURI VALLEY HORTIOULTURAL SOOIETY.

century.

The July meeting of the Missouri Valley Horticultural Society was held last Saturday, at the fine suburban residence of Major Frank Holsinger, at Rosedale, Kas. Major Holsinger's farms are some two miles away, and his elegant home, with its ample lawn, might be that of a prosperous banker or merchant or manufacturer, but it is that of a prosperous and jolly farmer who has surrounded himself with the evidences and requirements of taste and intelligence. The heavy rain of the early morning would have made a lawn in many localities unfit for use, but here the drainage is good, the trees trimmed up so that the air gets in easily and the soil—the loess left when the age of ice was past-was soon in condition for children to roll over the grass.

The Missouri Valley Horticultural Society has long held a leading place, on account of the strength of its membership and the value of the papers presented and of the discussions. Its program is made out for an entire year in advance and its monthly meetings never fail of either attendance or interest.

By the middle of the forenoon people with baskets began to arrive. Tables upon the lawn had been prepared, and while the proper committee was arranging the picnic dinner, there was a general social exchange of greetings, enlivened by the general jollity of the before the end of July. Indeed it is host, who knows everybody and takes safe to say that for full fifty days there care that everybody about his place come into an animal of those breedsis running off from the drainage area has a good time. Presently, above the if it comes at all-through a process of ion, the l d voice of um orea the Major summoned to dinner. It was soon in evidence that in the households of the horticulturists there are

she treated the several branches of horticulture and showed how they may be conducted by women, calling attenhorticultural operations have generally been monopolized by men, and concluded with the remark that she was willing that this monopoly should continue in the future as it has been in the past.

In discussing Miss Espenlaub's paper, a quaint old horticulturist, whose name escaped the writer, commended most of the positions taken but objected to the concluding remark, which he suggested should to be amended so as to make the young lady say that the independence of the horticulturist is one of its great attractions, that its cares and responsibilities have their compensations and amounts to but little when properly divided, and that she was ready to share them with some suitable young man. The KANSAS FARMER man found only one fault with the paper or its author, and that was that she would not consent to its publication.

Standing committees' reports fol-lowed. Committee on Orchards reported apple crop good in places and scattering in others, but that a fair crop is now in prospect in the valley. President Evans supplemented this with the statement that the apple crop of the country will be made mostly west of the Mississippi river, that buyers from New York State are now contracting the apple crop in Missouri as rapidly as possible, and suggested that those who have good winter apples need not, in his judgment, take less than \$1.50 per barrel for them.

Considerable discussion arose on an inquiry as to an experience with strawberries, in which, after blooming profusely, the berries only formed buttons and failed to make merchantable fruit as promised. Last fall's drought was by some thought to be the cause, while others thought that watering this spring would have remedied the trouble.

Grapes were reported as doing fairly vell but rotting some.

The next meeting will occur August 7, at the residence of G. F. Espenlaub. Rosedale, and the following program is announced: "Grapes-Best Varieties for Success and Money," Prof. C. S. Mason, Manhattan, Kas.; "Good Look-ing People," Lizzie Espenlaub, Rose-dale, Kas.; "The Use of Fertilizers in Equit and Vaccetable Grant and Fruit and Vegetable-Growing," Senator Edwin Taylor, Edwardsville, Kas.; 'Lawn Planting-Best Shrubs and Plants," L. A. Goodman, Westport, Mo.

Every farmer in Kansas, and especially the breeders and stock-raisers, should have the greatest live stock journal in the world, the Breeder's Gazette, of Chicago, price \$2 a year. We make a special offer of it and the KAN-SAS FARMER, both papers one year, for only \$2. Subscribe now through this office.

A Maine Experiment Station bulletin says a milking cow belonging to certain breeds that produce thin milk cannot have Jersey quality fed into her milk any more than one can feed brains into a Digger Indian. That quality must selection and persistant good feeding,

Some of the old Kansas friends of enough to irrigate 1,000,000 acres. Henry Wallace, formerly editor of the Iowa Homestead, will doubtless like an opportunity to continue to read the emanations from his able pen. He is now editing Wallace's Farm and Dairy. By special arrangement we are able to send KANSAS FARMER and Farm and Dairy for one year for \$1.25.

It is impossible for the patriotic American citizen to pride himself greatly on the recent record of the United States Treasury Department. There is reported a deficit of nearly \$46,000,000, and an increase of our interest-bearing indebtedness of \$162,-326,500. And yet the Secretary who "managed" these operations is set forth as an authority on finance and has been

day v of the Kansas river

It is possible that irrigation is not what is needed in this case-certainly it is not the only need. If this water could be stored in the soil and subsoil, within reach of plant roots, possibly irrigation would be little needed.

Cadet Holsinger, of Rosedale, Kas. in speaking of farming in Ceylon, mentioned that the tops of the mountains

are bare rocks; but as high as soil is of soil running around the mountains.

cooks who know how to prepare the things needful for a dinner like this. Funk & Wagnalls, of New York, will The large tables were twice filled and soon issue a new series of educational a small army might still have been books. The excellence of their "Standard Dictionary," the completeness and accuracy of which is the more surpriswell fed on such fare as an army never sees

ing the longer the dictionary is used, The program was taken up after dinleads us to expect that in the new eduner, the first paper being by a son of found it is made into terraces with borders on the outer edges several inches high, thus forming level troughs having made a trip to Ceylon, Corea, cational series the needs of the age will be met as never before. The books now soon to appear are: "The Standard Synonyms," "The Students' Standard Synonyms," "The Students' Standard Speller," "The Standard First Reader," "The Standard Second Reader," "Standard Third Reader," Japan and China. His paper treated In places these are not more than a of horticulture and agriculture in step, in other places several rods wide. these countries. It will be given in When it rains the water from the bare full to our readers next week. The rocks above the upper terrace is caught second paper was on "Horticulture a "Standard Fourth Reader," "Standard and retained until, with that which falls Proper Business for Women," by Miss "instructing" the people by speeches. upon this terrace, it is several inches Annie Espenlaub, of Rosedale. In it Fifth Reader."

and will be attained only after several generations, perhaps not then.

The announcement is now made that

Thayer's Berry Bulletin for August.

A berry plant in yielding its fruit, maturing its seed and producing new growth, is much exhausted. In fact, the life of each bud, stem and cane, is given in this effort. The maturity of fruit buds on new canes, comes after this exhausting work, and unless good care is continued to develop and perfect the same, the succeeding crop is greatly impaired. The natural moisture, too, is much less at this season, and must be retained in the soil by frequent shallow cultivation. The strong canes must be stimulated by the removal of the weak ones and all surplus growth cut away.

Remember, the care given fruit plants this season, practically determines the product next, both in quality and quantity. Never allow your interest in the fruit garden to lessen because the fruit is gone. Never neglect that spot from which you should receive more, for the labor performed, than any other portion of the farm. A fruit plant is as sensitive to good care as stock on the farm or members of the household, and should be treated as well.

Strawberry beds for the family, should be made as early as new plants from new beds can be obtained. Prepare for them now. Extra care is necessary for August setting. The good nurseryman will take extra care in digging and shipping plants, packing so they will not heat or roots become dry. When received, dip roots in a thick compost of dirt and manure water-not too strong-and set at once. Be particular to have moist dirt firmly pressed about the roots. Rake or hoe around plants often. As buds appear on new runners, cover them lightly with moist dirt-thus producing new plants. Continue this process until row is well filled, and you may then expect a nice lot of strawberries next season. August setting is not recommended for large acreage or careless growers.

Corn, Alfalfa, Irrigation.

Special correspondence KANSAS FARMER. In my travel from Junction City, up the Republican valley, out so far as Jewell county, the only dry district I encountered was that about Concordia, and this, I was informed, extended northward, in a fan-like shape, over much of Republic and Washington counties, with conditions steadily growing worse going northward into Nebraska. With the exception of the Concordia district (and this may have its thirst quenched ere this), I found the corn plant all the way through to the western limit of Jewell county in excptionally fine condition-a condition, it is said, which has never been surpassed at this date in the history of the section passed through. Jewell county had another two-inch rain last Saturday night, and the early corn, it is believed, has successfully run the July gauntlet and is now rejoicing and expanding its ears in a jubilant and surprising way. Much of the corn, however, in Jewell county, as elsewhere, is just now in the fertilization period, when the ear is yet in embryo -most critical period in its growthand that dreaded gauntlet is yet to be run.

spring grains filling out fine; corn, po-tatoes, broomcorn, sorghum and millet Doniphan.—Good growing week in southern, not so favorable in the north-I need not say that during the inweek wilted corn, but the rains have tense heat of the last three days, when the thermometer registered 100 and placed it in best possible condition. excellent. ern part. Stanton .- Late rains have developed Harper.-Elegant week on growing Douglas.-Crops are growing well more in the shade and the withering crops; corn, cane, millet, etc., are in some wheat thought to be a failure; Elk.—Good week for maturing corn and for flax harvest; fruit plenty and best of condition; too wet for small grains in stack. atmosphere was drinking up the moistlate crops in fine condition. Thomas.—Fine growing week; corn beginning to tassel; harvest has begun. Trego.—Late crops of corn and cane ure from the earth at a fearful rate, Harvey .- Cane and grass never betfarmers, and, indeed, everybody, was of extra quality. ter at this time of year; fruit of all exceedingly anxious as to the results. Franklin.—Corn doing finely. Geary.—Vegetation more luxuriant than for some years; farmers feel sure making rapid growth; potatoes and cabbage yielding well. Wallace.—Harvest is on; wheat turn-The corn, however, I observed, instead kinds in abundance. Kingman .- Hot winds first of week of showing the white flag, grew all the were telling on crops but the rains folof good crops of corn, melons, potatoes, more vigorously and the more rapidly lowing are making crops and people feel good, though oats have rusted ing out better than expected; oats and barley good berry; corn, potatoes and gardens needing rain. Wichita.—Crops need rain. because of intense heat. So long as Greenwood.—Corn, the sorghums, potatoes and fruits in fine condition. there is plenty of moisture at the roots some. plants will grow more rapidly as the Kiowa .- No hot winds; corn and the Jackson.—Corn trying itself; poor week for haying; millet fine with a canes doing well, with best prospect we ever had for corn. heat increases-that is, up to a given "Among the Ozarks," point. The growth of corn in Jewell large acreage. Lincoln.-Early corn doing well, late Labette.—Early potatoes rotting in the ground; ground still too soft to finish harvesting of oats; threshing from shock in full blast. the Land of Big Red Apples, is an attractcounty last week, therefore, has been ive and interesting book, handsomely illus-trated with views of south Missouri scenery corn needs rain. marvelous. Jewell county counts on Marion .- Good growing week; corn being the banner corn county of the including the famous Olden fruit farm of 3,000 acres in Howell county. It pertains to fruit-raising in that great fruit belt of crop never better. State this year, a distinction she had Mitchell.-All crops making rapid Leavenworth. - Early corn consid-ered safe for a large yield; everything progress in northern part but needing rain in southern part of the county. the honor of attaining some years ago. America, the southern slope of the Ozarks and will prove of great value, not only to fruit-growers, but to every farmer and home-seeker looking for a farm and a nome Mailed free. Address, J. E. LOCKWOOD, Kansas City, Mo. Indications of the progress made growing nicely. Linn.—Oats all stacked; corn, apples Osborne.—Hot first of week, cooler and wet last days; excellent for corn. Ottawa.—Corn in good condition generally, late corn will soon need along the new lines of agriculture-irrigation, subsoiling and alfalfa-growing and peaches very promising. Lyon.—Splendid growing week; early -become more apparent as we go westward. In Jewell county alfalfa areas corn about made; plowing for wheat rain. are larger, more subsoiling is done and begun.

irrigation is more talked of than in Cloud county.

J. H. McIntyre, an old Osborne county friend, now living near Jewell City, related to me his experience in growing alfalfa, which is worthy of note. He and his neighbor on adjoining farms concluded last fall to sow alfalfa in the spring following. Mr. McIntyre plowed his ground for alfalfa in August and in the spring gave it most thorough surface cultivation, thus placing the seed-bed in the most favorable condition for germination of seed. He put in his alfalfa with drill, sowing about seventeen pounds to the acre. Mr. McIntyre's neighbor took no steps towards the preparation of his alfalfa ground in the fall. In the spring he cut up the soil to a good depth with the disc and gave the soil such additional cultivation as he deemed necessary. This man put in his alfalfa with same drill Mr. McIntyre used and on the day Mr. McIntyre finished his. Results: McIntyre has an excellent stand of alfalfa. His neighbor has a first-class failure. Reason: McIntyre did the necessary preliminary work in preparing the seed-bed. His neighbor did not.

As I said in previous article, there are men at Beloit who will guarantee a good stand of alfalfa, regardless of the character of the season, provided in-structions are followed in the preparation of the soil and in the manner of planting or sowing the seed. Why this waste of thousands of dollars each year in the failure to secure a stand of M. MOHLER. alfalfa? Beloit, Kas.

Weekly Weather-Orop Bulletin.

Weekly Weather-Crop Bulletin of the Kansas Weather Service, for week ending July 22, 1895-T. B. Jennings, Observer Weather Bureau, Director CONDITIONS.

The week opened very hot and sultry, with the air laden with moisture, which, with a slight cooling of the weather, was precipitated in showers, light from Ford to Ottawa and south of Osage, but generally very good rains, with decidedly heavy rains in Osage, Shawnee and Douglas.

RESULTS.

EASTERN DIVISION. The light showers in the south half, with the warm days, have been very beneficial, permitting the ground to dry, threshing to resume and corn to mature. In the northern part the heavy rains have been beneficial to growing crops but delayed harvesting and threshing, yet more rain is needed in the extreme northern counties.

Allen county. - Crops fine; oats threshed from ten to thirty-six bush-

threshed from ten to thirty-six bush-ols, wheat from ten to thirty-nine; flax ready to thresh. Brown.—Threshing in progress; oats yielding from thirty to forty bushels; corn and pastures need more rain; early potatoes a good crop, late very light.

Chase.-Corn fine.

Chautauqua.—Corn has made vigor-ous growth; haying has commenced. Cherokee.—Getting dry enough to work; fully one-half the oats ruined, balance unmarketable; wheat badly damaged, also corn on low ground; flax

harvest begun. Coffey.—Threshing and haying in order; grain turning out much better than expected; hay good; corn fine; fruit of all kinds in abundance.

Marshall.-All conditions favorable; orn has made a wonderful growth. Miami.—Threshing in full blast; oats

making fifty bushels per acre, wheat

from ten to twenty, flax eight to twelve. Montgomery.—Corn and pastures do-ing nicely; threshing begun again. Morris.—Corn, millet, potatoes, pas-tures and apples are in excellent condi-tion and momile an abundant yield

tion and promise an abundant yield. Nemaha.—Corn and pastures slightly

helped by the showers but we need rain to develop the corn. Osage.—Corn crop in No. 1 condition and the yield promises to be large, as will the hay crop; pastures excellent. Pottawatomie.—Corn silking and is

in fine condition; plowing for wheat begun; second alfalfa crop cut; prairie grass better than for years.

Riley.-Cloudy weather and light rains have made excellent conditions for corn, grass and vegetables. Shawnee.—Much damage to crops in the Wakarusa bottoms by the extraor-

dinary rainfall of the 18th. Wabaunsee.—Wild grass fine; early corn insured; threshing delayed.

Wilson.-Good week for maturing corn; early corn in roasting-ear, late tasseling; second crop alfalfa being cut; native grass fine; horn-fly very bad on cattle; tomatoes ripe, gardens fine.

MIDDLE DIVISION.

The hot winds the first of the week damaged corn in various parts of this division, but the fine weather following has largely repaired the damage. Fruit and meadows are generally in very good condition, but more rain is needed in some of the counties.

Barton .- The hot days first of week injured corn some, improved Kaffir corn especially, but these rains are changing appearances. Barber. – Corn damaged very slightly

Barber.-Corn damaged very slightly ripening. on the 16th in some parts. Butler.-All growing crops doing condition.

Phillips.-Corn, potatoes, millet and pastures doing finely; harvest under headway. Pratt.-The hot winds injured some

corn by killing the tassel; wheat and oat harvest about finished. Republic.—Fine rains last of week

helped corn, gardens, etc., greatly. Reno.—Corn needs rain very much and the rains last of week were very

beneficial.

Rooks.—Corn and millet fine. Rush.—Wheat going into stack in good shape; corn, sorghum and millet doing finely, but more rain needed. Russell.—Hard week on corn but the

rains last of week very beneficial.

Saline.-An immense corn crop is promised.

Sedgwick.—Corn maturing finely. Smith.—Corn splendid; oats a light crop; potatoes good with a large acre-

age; sorghum and millet fine. Stafford.—First days of the week very injurious, but the last days will make most of the corn safe.

Sumner.—Splendid growing weather and corn is fine. Washington.—Early corn in bad con-dition on account of hot winds, late corn all right; oats yielding ten to thirty bushels.

WESTERN DIVISION.

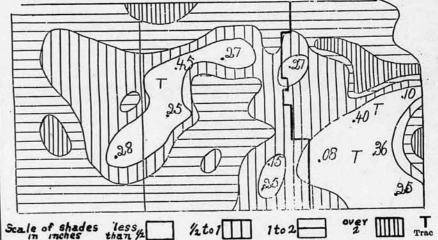
The first part of the week was hot and brought the small grains forward for the harvest which is now on. The rains of the last days were needed, and crops now generally in fine condition. Clark.—Conditions favorable.

Decatur.—A great week for crops; wheat harvest began 15th.

Ford.-All crops in good shape; corn and oats never looked better; much

wheat not cut yet. Gove.—Good corn weather; wheat ripening.

Graham.-Crops continue in good



ACTUAL RAINFALL FOR WEEK ENDING JULY 20. Gray.—All kinds of crops are grow-ing well; harvest in full blast. Kearney.—All crops doing remark-ably well; market well supplied with

home-grown fruits.

vest begun.

cellent.

week.

couraging.

Lane.—Good growing week; corn do-ing well; harvest just beginning. Logan.—Small grain ripening, har-

Meade.—Corn never was better; a little wet for harvesting.

Ness.-Harvest progressing satisfac-

Rawlins .- Corn fine, early planting

Seward .- Crop prospects very en-

Sheridan.-Winter wheat is ripe;

in silk; harvest will commence next

torily; corn and other spring crops ex-

Norton.-Crops generally good.

well with finest kind of growing weather. Clay.—Oats harvested in good condi

tion; corn excellent, could not be bet-

ter; grass and pastures good. Cloud.—Hot winds on 16th; early corn in northern part of county badly injured, in southern it is all right; late

corn all right. Comanche.—Corn generally in roasting-ear; all spring crops in first-class

ing-ear; all spring crops in first-class condition; acreage large. Cowley.—Good week for corn, pota-toes, etc.; the last cutting of alfalfa better than the first. Dickinson.—This rain has revived and put new life into a corn crop that was almost given up; some fields are

was almost given up; some fields are dead, but the rain assures much of the early corn and gives the late another

chance. Ellsworth .- The hot days first of

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Borticulture.

BRINGING FRUIT TREES INTO BEARING.

Joseph Meehan, of Pennsylvania, discusses the subject of bringing fruit trees into bearing in the following common-sense way:

'It is a provoking thing to have a fruit tree of large size which does not bear fruit. It sometimes happens this way when a tree is growing in exceed-ingly fertile soil. It rejoices in the enrichment it finds, and makes a prodigious wood growth, but sets no flower buds. There is a time for this growth to stop, and if it does not do so man is justified in interfering and using his knowledge to bring about the desired object. It is not at all uncommon to find persons surprised when told that their fruit trees are growing too freely to fruit well. They cannot understand that a young tree growing freely has not at its command the wherewithal to make both strong growth and bear fruit. Young trees set in rich soil will be longer coming into bearing than similar trees in poor soil. The general impression is that trees are better conditioned and longer lived watched." when in soil of moderate fertility, and this impression is probably correct. The growth is then moderate and fruitbearing comes at the proper time, neither too early nor too late.

"When it happens that fruit trees are certainly beyond the age and size at which fruit might reasonably be looked for, and no signs of it are visible, it is as well to take them in hand to bring about fruitfulness. As too rapid a growth is the cause of the trouble, to check this growth must be the object, and this is done by root-pruning. I have seen the Seckel pear, a notoriously slow sort to come into bearing, made to flower profusely by root-pruning. If we take a Bartlett pear tree as an illustration, a tree growing fairly well should commence to bear in four years. A few pears are generally borne by that time. After this a few more appear every year, until at eight to ten years we get trees bearing per-haps a bushel of pears each. If this kind of tree should grow strongly for eight years with no signs of blossoms, I should be much inclined to give it a hint to commence. This is done in this way: A trench is commenced to be dug around the tree and continued until two or three strong roots are met with. These are cut in two. It would be better to cut one on opposite sides of the tree if practicable, but it is not important. This cutting of the roots lessens the supply of sap, and following the regular law the checking of the growing force throws the tree into the production of flowers. In my younger days I have seen gardeners recog-nize the rule and apply it the other way. My first year in the garden was when a boy of twelve years of age. The gardener was an enthusiastic the cultural belts the plants were grower of fuchsias for exhibition. Left to themselves, after a certain amount of growth was made, they would form and expand flower buds. If these buds appeared before the time set for exhibition, they were pinched out as fast as seen. As the plants are thus thwarted in flowering, they set to work to make as to the value of the treatment, as more growth, to produce more buds. shown by his experiments are, as fol-In this way my old preceptor got lows:

borers. Any of these causes checks growth and brings about flowering and fruiting. What should be done in this case is to pick off the fruit, all or nearly all of it, and set to work to remedy the poor growth. If it seems to be the soil which is to blame, enrich it. Heap on manure. Fork it in about the roots and let some lie on top as a mulch. Should the bark have been knocked off, paint the wound that rot of the wood may not set in.

"Borers often cause early fruiting, they so weaken the tree by their work. Hunt for them until they are found and killed, and afterwards, twice a year, in June and September, go over the trees and see that no more have found lodgment.

"What has been said so far in this article must be understood as applying to standard trees. Dwarf trees are, of course, dwarfed in order to get fruit earlier, and in this part of the country, at least, the dwarf is planted to give fruit until the standard comes on a little later. Hence, the dwarf is generally let bear as soon as it will. Both the dwarf apple and the dwarf pear need great watching. The borer is their great enemy and very soon makes

Bordeaux Mixture for Grasshoppers.

The question of how to deal with the native grasshopper is a serious one at times. It is stated that some disease is now taking them off, but their presence in large numbers has been sufficiently recent to maintain a lively interest in any means for preventing their ravages. It seems practicable to protect at least gardens, truck patches and orchards by spraying. The Vermont Experiment Station reports as to potatoes as follows:

"Applications of Bordeaux mixture were given to the potato plants, but owing to the dry season but little disease was noticed. There were, however, severe ravages of grasshoppers and flea beetles. The use of the usual insecticides seemed to have little effect, but it was noticed that those plants which had been sprayed with Bordeaux mixture escaped serious injury. From the treated plats an increased yield over the check plats was secured, due no doubt to the combined fungicidal and insecticidal effect of the Bordeaux mixture. The author thinks he is warranted in recommending the use of Bordeaux mixture on either early or late varieties of potatoes during either a wet or dry season. Paris green may be added to the mixture for the destruction of the Colorado beetle."

Prevention of Potato Scab.

In a recent bulletin of the New Jersey Experiment Station is described a series of experiments with potatoes, an effort being made to prevent scab by the use of different strengths and methods of application of corrosive sublimate and Bordeaux mixture. In sprayed for the prevention of leaf diseases, but so little disease was present on the checks as to render these experiments of little value. At harvest the tubers were weighed and the weight of sound and scabbed potatoes ascertained. The author's conclusions

and a lower per cent. of scab than did

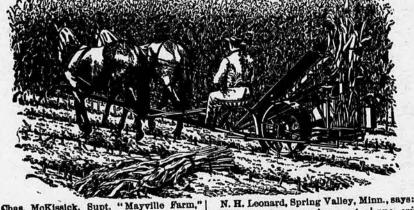
either of the belts treated with half

and full-strength solutions of the same

quarter-strength Bordeaux mixture.

"Although there was but little ap-

"THE ONLY SUCCESS." The orn Binder McCormick LIGHT DRAFT CLEAN WORK SQUARE-BUTTED BUNDLES anakison and Raka and ahh



Chas. McKissick, Supt. "Mayville Farm, Mayville, N. Dakota, says: "It solves the question of handling corn."

Wm. E. Dana, East Avon, N. Y., says: "I cut 24 acres of corn ranging in height from 3 to 14 feet." WHAT WE P. F. Huntley Jr., Le Roy, Minn., says: SAY WE DO

"Just what is wanted in corn districts." WE DO DO

A. S. Cotton, Manager "Sanitarium Farm," Clifton Springs, N.Y., says;

"Cuts and binds all corn — slightly lodged and tangled, as well as standing. Have tried many corn harvesters. The McCormick is the only success."

Manufactured by McCORMICK HARVESTING MACHINE CO., CHICAGO.

applying the fungicide to the uncut potatoes and preparing them afterwards for planting."

Benton county, Arkansas, will hold its first annual fruit fair, at Siloam Springs, on August 15, at which time there is to be a reunion of Kansas and Nebraska settlers.

The Missouri State Horticultural Society has decided to make a grand showing of fruits at St. Louis this fall in the exposition building, commencing September 3 and continuing to October 9.

Hon. J. B. McAfee, who has a fine orchard near Topeka, from which he has for many years realized profitable returns, furnishes the following as the list he would select if he were planting a new orchard of 1,000 trees: 100 Lowell, 100 Grimes' Golden Pippin, 100 Jonathan, 200 Rawle's Genet, 50 Winesap, 50 Striped Sweet Pippin, 150 Ben Davis, 50 Maiden's Blush, 50 Red Romanite, 100 Missouri Pippin, 50 Red June.

A Matter of Economy.

It has come to our knowledge that the leading farmers and poultry-raisers of the country have adopted Neponset Red Rope Roofing Fabric as a means of great economy; it is so handy for emergencies, to repair a leak or shut out a draft. It is very much cheaper than shingles or clapboards. The makers, F. W. Bird & Son, East Walpole, Mass., will send a full line of samples free; all our readers should get the samples.

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 homeseekers.

The Uintah and Uncompangre reservaws: "Potatoes soaked in, and sprayed tions are reached by the only direct route, the Union Pacific system, via Echo and in the open rows with, quarter-strength Park City. E. L. LOMAX, G. P. & T. A., corrosive sublimate gave a larger yield U. P. system, Omaha, Neb.

"Binds the corn in great shape, with nice square butts for shocking." Levi Wambaugh, Waterloo, Iowa, says;

"It works well and to my entire satisfaction."

J. R. McCullough, Solomon City, Kan., says:

"Two men and two horses can cut, bind and shock 12 acres a day."

John L. Taylor, Owego, N. Y., says: "I cut 50 acres of ensilage corn (some of it very heavy). It is a machine which all

ensilage growers must have."

"Holdfasts."

The exhibition of "Holdfasts" by the Tie Co., of Unadilla, N.Y., at the recent Sportsmen's Exposition, at Madison Square Gar-den, New York, gave



bent that when a string or rope is drawn through it is automatically fastened. It is a most ingenious and simple invention and the variety of its uses is almost illimitable. It gives the farmer a practical corn binder of so little cost that it can be used on every shock, and they will last a lifetime. Shoe manufacturers putting it on a shoe must find an increased demand for their product. For hammocks, wash lines, shawl-carriers, filing papers, tent ropes, tennis nets, horses' tails, etc., it is unquestionably the best thing ever devised. All practical farmers should send to them for circulars. Address TIE Co., Unadilla, N. Y.

The Knights Templar Conclave will be held at Boston, Mass., during August, and it will be of interest to Sir Knights and their friends to note that arrangements have already been successfully accom-plished by the Nickel Plate Road, providing for the sale of excursion tickets over direct lines going and returning or by circuitous routes, viz., going one line and returning by another. By so doing many of the following notable resorts may be visited without additional expense: Chautauqua Lake, Niagara Falls, Thousand Islands, Rapids of the St. Lawrence, Saratoga, Palisades of the Hudson, and the Hoosac Tunnel. The above arrangements will no doubt make the low-rate excursion tickets offered by the Nickel Plate road very popular. Call on or address J. Y. Calahan, General Agent, 111 Adams St., Chicago.

invited to send for my latest price list of small fruits. Half million strawberry plants. 300,000 Progress, Kansas and Queen of West raspberry plants. B. F. Smith, Box 6, Law-

474 [10]

larger plants than he would have done had he not pinched off the flower buds. When once the principle is understood, it is not impossible to have the flowering and fruiting of plants and trees somewhat under control.

"I do not know that it matters much at which season of the year we cut the roots, spring or fall. I would not do it in the midst of its growth.

parent difference in value between "While on the topic of the fruiting of trees let me add that I have seen corrosive sublimate and Bordeaux mixmany trees ruined by bearing too early. ture, the former is considered preferable on account of its being more Many a time have I seen apple trees easily prepared, and as it is of a uniwhich perhaps were set in poor soil, form strength throughout admits of and which, as a consequence, bore a much greater quantity of potatoes early, killed outright by being perbeing treated at one time than does the mitted to bear large crops of fruit. It Bordeaux mixture, which soon settles is evidence of starvation in some form when a very small tree is loaded down unless stirred.

"The cutting of the 'seed' before with fruit. Sometimes it is poor soil, soaking in Bordeaux mixture, showed sometimes some injury to them by being barked, or it may be infested by very emphatically the importance of Here's a Chance to Make Money !

I have worked hard all my life and never had a streak of good luck till the past year, and I think my experience may be benecompound. Similar results followed the treatment of seed potatoes with ficial to many others. I have cleared more than \$20 a day for over a year selling Cli-max Dish-washers, and I think any man or woman can do as well as I have, if they only will, as I had no experience. It don't take long to get rich clearing \$20 a day. Every family wants a dish-washer, and you can sell them at home; no canvassing. That is why a lady can do as well as a man. I put a notice in the papers, and people send after the washers. The Climax is far superior to any other dish-washer. Every body knows of the Climax now. For par-ticulars address the Climax Manufacturing Co., Columbus, O., and they will start you in business if you will only push. A READER.

rence, Kas Mention this paper.

A. H. GRIESA, Prop'r Kansas Home Nur-series, Lawrence, Kas., grows trees for commercial and family orchards—the *Kansas Rapberry*, Black-berries, standard and new Strawberries. Standard and swatcawbernes—also shade and evergreen trees adapted to the West.

Crimson Clover. Western headquarters. The largest stock, the best stock. Indiana-grown seed. We have just printed an exhaustive treatise on this grop. Every farmer should read it. Sent free. J.A. Ever ett, Seedman, Indianapolis, Ind.



Offers for fall of 1895 large stock, best assortment Prices low. Stock and packing the best. We should be glad to employ a few reliable Alesmen. Address A. WILLIS, Ottawa, Kansas.

[When writing mention KANSAS FARMER.]



KANSAS FARMER.

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

For Manslaughter.

The trial of Dairyman Blackham, of Stamford, Conn., will be watched with more than ordinary interest by the public and milk-drinkers. Blackham washed his milk cans in water alive with typhoid fever microbes. Over 400 of his patrons were taken sick and twentyone of them died. Typhoid epidemics due to similar causes have occurred recentlyat Springfield, Mass.; Waterbury, Conn.; Montclair, N. Y., and Somer-ville, Mass. Some 1,600 cases of the disease have resulted in consequence, 250 of them proving fatal.

"Overdoing the Dairy."

Here is a pointer for those farmers who fear to go into dairying for fear the business will be speedily overdone. Dairy products can be increased only as cows are increased. Multiplying creameries and cheese factories will not alone increase the output of butter and cheese; the cow must first be made or bought before the butter or cheese is forthcoming. We used to draw largely from Europe for dairy stock, in fact, nearly all our imports of cattle were for the dairy, but we have now almost entirely cut off that supply. In 1884 we imported 41,283 cattle; in 1892-3-4 we imported, all told, only 576! We are now depending upon ourselves alone to increase our dairy stock, and it will be no easy matter to increase it as fast as the probable growth of our population.

What He Would Do if He Were Young.

Waldo F. Brown, of Ohio, the wellknown agricultural writer, tells in the following how he would manage if he was a young man on a dairy farm:

"If I were a young man and able to work hard, I should run as large a dairy as the farm would furnish rough feed for, and buy most of my grain, and I would try to dispose of the cream, or engage butter at paying prices so as to keep the milk at home to be fed to calves and pigs, and I am satisfied that I could double the profits from my farm and improve it rapidly, for we should have large quantities of the richest manure and could make all the land that we cultivate very rich. But it seems to me that a man of my age (63) out of debt, and able to live comfortably, with a reasonable degree of economy, owes it to himself not to be obliged to work hard every day and be tied up at home as I should be with a dairy, and so I am satisfied with moderate success on the farm, and to leave the young men the privilege of pushing out and showing what the farm is capable of even in hard times.

"There are so many specialties in farming nowadays that there is a place for energetic men on the farm, and a better chance for success than in most other callings. The farmer is not likely to become a rich man, but on the other hand he is in very little danger of bankruptcy."

The Defeat in Illinois.

Much to the disappointment of the friends of honest butter, the oleo bill failed to pass the Illinois Legislature. It passed the House by an overwhelm-

fraud that is permitted. It seems to be pretty well settled that dairymen cannot compete with the fraud singlehanded in the oleo-manufacturing States, as the methods resorted to by the combine for securing votes and using the best talent for lobbying will strangle any legislation that may be proposed. It has been done in Kansas, Illinois and Missouri this year, and they will continue to do so unless public sentiment can be awakened that will override any opposition.

Price of Butter in the World's Fair Dairy Test.

Considerable comment has been made in the Western States at the price at which butter was credited in the great World's Fair dairy tests. The scoring by which such butter was judged was done by three experts appointed by Chief Buchanan, and was as follows:

			ha	hutt		ono	Avo
Total							. 10
Color	••••	• • •	•••	• • • • •	•••••	•••••	·
Solidity							
Grain							
Elavor							2

The prices for the butter were fixe ed by Chief Buchanan prior to the tests begining, and were assented to by all the competing breeds. They were as follows:

Th	at so	orin	g irom	203			10000
75 to	80 1	point	g irom s	25	cents	per	pound
80 to	85	"		30		31	
85 to	90	"		85			"
00 to	05	"		40			"
100 00	100						"

95 to 100 These prices for butter were reached by Chief Buchanan after very considerable correspondence with the large handlers of butter in New York, Boston, Buffaio and Chicago, and were, according to his judgment, a fair average of the market prices in these cities. In fixing the price of feed the same

regard was given to values in localities, and in the prices reached by Chief Buchanan he took the average prices of the cities before named.

When we consider the character of the feed given the cows, the cleanliness of the stable and cows, the fact that the milk and cream were handled with the object of attaining a high standard, that expert butter-makers were employed in the making of the butter, and that everything that was possible was done to produce an A1 article of butter, I assert that the price of butter as fixed by the World's Fair was too low, not too high. There is too much poor butter on the market, and the object of these tests was as an educator, not only in the production from the cows and the handling of same, but in the making and quality of butter. Such an article as was produced by the World's Fair from seventy-five cows will always command a market at 11.96 per pound." a price in excess of that fixed by Chief Buchanan.

But, granting that the price of butter was, from a Western standpoint, too high, so was the price of feed, and before any deductions can or should be made from the figures as agreed upon in the test a reduction must be made in the price of feed, if one is to be made in the price of butter. It is manifestly unfair that the price of butter should be fixed on a Western standard, unless the feed is also fixed from a like standpoint.-Valancey E. Fuller.

People who have never had the opportunity to eat really good cheese are very easily fooled with filled cheese and skim cheese. We believe in dras-

Last winter Senator Manderson

achieved unenviable notoriety by tak-

The Nebraska people determined that

if he wished to work for oleomargarine

it would not be as their official repre-

sentative, and he will stay at home

The majority of people prefer to feed

the cows before milking, as it is found that a good belly full of food puts

the animal in a good humor, and the

ARMSTRONG & MCKELVY Pittsburgh ANCEOR, Cincinnati. ATLANTIC, New York. BEYMER-BAUMAN, Pittsburgh. BRADLEY, New York. BROOKLYN, New York. COLLIER, St. Louis. CORNELL, Buffalo. DAVIS-CHAMBERS, Pittsburgh ECESTEIN, Cincinnati. FAHNESTOCK, Pittsburgh. Pittsburgh. JEWETT, New York. KENTUCKY, Louisville. JOHN T. LEWIS & BROS.00 Philadelphia.



Quality of Cheese in the World's Fair Dairy Cheese Test.

"While the Jersey cows in the Chi-P cago World's Fair Dairy tests exceeded D the Guernseys and Short-horns, their competitors, in the quantity of milk la and cheese produced per herd and per "it head," says Valancey. E. Fuller, was a matter of surprise to many who were not familiar with this breed to learn of their ability to make a large quantity of cheese per hundred pounds of milk. This test at Chicago has pretty well settled the question as to the value of a milk rich in butter fat for cheese-making purposes, and has quite conclusively demonstrated 'that the solids follow the fat.' I think I was among the first to claim that the Jersey milk was, through its very richness in butter fat, the most desirable for the production of cheese, not only on account of the quality of the cheese pro-duced therefrom, but also from the quantity; and it was especially gratifying to me to have the opinions which I expressed some years ago so amply demonstrated. The off-told story of the yields of the breeds in milk proved conclucheese has and sively the great victory won by the Jerseys in the cheese test; and inasmuch as all the cheese was scored by experts and the value given by the quality, according to a scale of points fixed by Chief Buchanan, the figures below demonstrate that the quality of the Jersey cheese exceeded that of the other breeds, the average value per pound of cheese being as follows: Jerseys, 13.36 cents per pound; Shorthorns, 13.01 per pound; Guernseys,

Deafness Cannot be Cured

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitu-tional remedies. Deafness is caused by an in-fiamed condition of the mucous lining of the sustachian tube. When this tube gets inflamed flamed condition of the mucous lining of the eustachian tube. When this tube gets inflamed you have a rumbling sound or imperfect hear-ing, and when it is entirely closed deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces. We will give One Hundred Dollars for any cusa of deafness (caused by catarrh) that can-

cuse of deafness (caused by catarrh) that can-not be cured by Hall's Catarrh Cure. Send for circulars, free. F. J. CHENEY & CO., Toledo, O.

Sold by druggists, 75c.

Enclose a stamp to any agent of the



PONY-Taken up by Philip Shafer, in Lincoln tp. June 4, 1894, one gray pony mare, sheared, branded on left side and hip; valued at \$12.

Cherokee county - P. M. Humphrey, clerk. MARE—Taken up by B. G. Jones, in Shawnee tp., June 16, 1896, one dark bay mare, sixteen hands high, 12 years old, both hind and one front foot shod, saddle and harness marks; valued at \$10.

Harvey county-T. P. Murphy, clerk.

Harvey county—1. r. murphy, clork. MARE—Taken up by Charles Haering, Williams & Gardner's addition to Newton city, June 20, 1895, one black mare, 4 years old, scar on right fore foot, no other marks or brands: valued at \$55. HOREE—Taken up by Maris D. Miller, of Walton tp., (P. O. Walton), June 5, 1896, one bay hore, col-lar marks on shoulders, no other marks or brands, about fifteen hands high, 9 years old; valued at \$16.

C FOR WEEK ENDING JULY 17, 1895.

Miaml county-Jas. E. Caton, clerk.

STEER-Taken up by Dr. D. V. Mott, of Fon-tana, one black three-year-old steer, white face, swallow fork in right ear and underslip in left ear; valued at \$16. er

Cherokee county-P. M. Humphrey, clerk.

F

Cherokee county--P. M. Humpnrey, Clerk. HORRE-Taken up by George W. Gleer, in Low-ell tp., one bay horse, 8 years old, heavy mane and tail, saddle and collar marks; valued at \$20. MARE-By same, one mare, 5 years old, right hind foot white, had on halter, shod all round, saddle marks; valued at \$20. HORBE-Taken up by John Longdon, in Lowell tp., July 9, 1805, one yellow-dun gelding, branded B on lett jaw, hL on left shoulder and HA on left hip, weight 1,100 pounds.

Crawford county-Peter McDonnell, clerk.

Johnson county-Jno. J. Lyons, clerk.

HORRE-Taken up by H. N. Hodges, in Gardner tp., May 30, 1805, one dark brown horse, fifteen and one-half hands high; valued at \$25. MARE-Taken up by Darby O. Dar, in Shawnee tp., (P. O. Shawnee), June 29, 1886, one brown mare, fourteen hands and three inches high, white spot on face, branded O S on left shoulder; valued at \$20.

ic A FOR WEEK ENDING JULY 24, 1894.

Doniphan county-W. H. Forncrook, clerk. STEER-Taken up by D. E. Hale, in Center tp., June 7, 1895, one light red one-year-old dehorned ateer; valued at \$18. C

Cheyenne county-G. A. Beukelman, clerk. HORSE-Taken up by H. D. Bacon, in Jeffreon po, (P. O. Bird City), June 19, 1835, one bay gelding, ? years old, white star in face; valued at \$15. MARE-By same, one mouse-colored roan mare, ? years old, no marks or brands; valued at \$16.

Linn county-Jno. J. Hawkins, clerk.

HORSE-Taken up by J.T. Tipton, in Lincoln tp., one dark bay horse, sixteen and a half hands high, left hind foot white, difficulty in left hip; valued at \$20.

Wallace county-Hugh Graham, clerk. Wallace County—flugh Granam, clerk. MARE—Taken up by C. F. Harris, in Wallace tp., (P. O. Sharon Springs), June 29, 1895, one bay mare, left hind foot white; valued at \$20. MARE—By same, one bay mare, right hind foot white and white stripe in face, had halter on when taken up; valued at \$20. MARE—By same, one bay mare, white stripe in face; valued at \$20.



us a dorone self-regulating standard, wi others believeit would simply change the standard from one metal to another. There is no such uncertainty in regard to the fence standard. The Coiled Spring remains the universal unapproachable self-regulator, for farm, railroud, and park purposes. If ELAS-TICITY can do for the currency what it has done for The Page, there'll be no opposition.

[18] 477

ing vote of 166 to 19, and went to the tic legislation against filled cheese, second reading in the Senate, but was but we also believe in making more finally killed by the duplicity of the manufacturers of bogus dairy products. Twenty-two of the States of the Union have enacted laws similar to the one which has been defeated in Illinois. ing up the cudgels for oleomargarine. So far as our memory serves us, the only States in which defeat in whole or in part has been met by the dairy forces, are those in which the manufacture of oleo is largely carried on-Illi-nois, Kansas and Missouri. While Missouri has enacted a law forbidding the sale of oleo colored to represent butter, yet with strange impropriety its manufacture is permitted.

first processes of digestion relax the The claim is made that the prohibientire milk-holding tissues, and thus tion of coloring means practically a suspension of its manufacture, which cause a perfect and rapid flow of milk at once discloses the character of the into and from the udder.

good cheese.

after this.

Nickel Plate Road for an elaborately il-lustrated Art Souvenir, entitled "Summer Outings." Address J. Y. Calahan, General Agent, 111 Adams street, Chicago, Ill. 70

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KANSAS FARMER.

writer's special attention to two unique features of his order, which are as follows: First.—Its beneficiary certificates cannot exceed \$2,000 on any one life. It cannot be made burdensome to a member or to the order. It takes in a man and his wife and unmarried daughters or sons over sixteen years of age for one membership fee; and where the beneficiary is divided into two or more parts, one assessment carries all

the certificates. Second.-It provides as well for every day life and old age as well as for the wid ows and orphans or dependents at death, in this, that it provides for accident insurance of from \$500 to \$5,000, and indemnity ance of from \$500 to \$5,000, and indemnity from \$5 to \$25 per week; paying one-half of any accident or life certificate in case of total disability, while old age is carefully provided for, and the annoyance of never-ending assessments being prevented through the reserve fund, which is created by one-tenth of all moneys paid into the beneficiary fund, which, after fifteen years' accumulations of interest, etc., is used to pay the assessments of all members who have been in the life class fifteen or twenty years. In other words, each member gets a paid-up life policy at the end of fifteen or twenty years' continuous membership, his assessments being paid for him from this reserve fund, thus guaranteeing a perpetuity of the order.

The general offices of this order are at the Telephone building, Kansas City, Mo., where any information desired can be had by addressing Hon. S. H. Snider, the Secretary, who is well known throughout the West as late Commissioner of Insurance of the State of Kansas.

Education is the apprenticeship of life.-Willmott.

No Change to Chicago.

The through service offered the traveling public by the Union Pacific system and Chicago & Alton railroad is unsurpassed. The Perfect Passenger Service? of the C. & A. with the well-known excellence of the service of the Union Pacific assures the traveling public that they "are in it" when they patronize this popular joint line from Denver to Chicago and intermediate points. Pullman Palace sleeping cars, dining cars and free reclining chair cars without change.

For all information apply at 525 Kansas venue. F. A. LEWIS, City Agent, Topeka. Avenue.

That Trip East

May be for business or pleasure, or both but pleasure comes by making a business of traveling East over the Santa Fe Route as far as Chicago.

Thirty miles the shortest line between

Thirty miles the shortest line between Missouri river and Chicago; that means quick time and sure connections. Track is straight, rock-ballasted, with very few crossings at grade. No prettier, cozier, or more comfortable trains enter Chicago than those over the Santa Fe. They are vestibuled limited ex-presses, with latest pattern Pullmans and free chair cars. Meals in dining cars served on plan of paying for what is ordered. ordered.

Inquire of nearest agent, or address G. T. Nicholson, G. P. A. Santa Fe Route Monadnock building, Chicago, or W. J. Black, A. G. P. A., Topeka, Kas.

One dollar and sixty-five cents will pay for the KANSAS FARMER and the twice-a-week New York World. Everybody should read.

Leveling Instrument.

In laying off land for irrigation, a matter of first importance is to determine the levels. The KANSAS FARMER has desired to offer its patrons a reliable, low-priced instrument for this purpose, and has finally secured the one herewith illustrated. It is



List of Kansas Fairs.

Following is a list of fairs to be held in Kansas during the present year, their dates, locations and Secretaries, as reported to the State Board of Agriculture and furnished to the public by Secretary F. D. Coburn:

mished to the public by Secretary F. D. Co-burn:
Allen County Agricultural Society, O. L. Whit-aker, Secretary, Iola, September 11-13.
Allen County Fair and Moran Driving Park Association, H. P. Smith, Moran, August 20-23.
Anderson County Fair Association, M. L. White, Garnett, September 3-6.
Brown County Exposition Association, C. H. Lawrence, Hiawatha, September 10-13.
Chase County Fair Association, J. P. Ruhl, Cottonwood Falls, September 10-13.
Clay County Fair Association, J. P. Ruhl, Cottonwood Falls, September 10-13.
Coffey County Fair Association, J. E.
Woodford, Burlington, September 9-13.
Cowley County Fair and Driving Park As-sociation, A. C. Banga, Winfield, September 24-27.
Crawford County Agricultural Society, John Viets, Girard, August 27-30.
Finney County Agricultural Society, C. H.
Rigeway, Ottawa, September 17-20.
Franklin County District Fair Association, J.
J. McCabe, Lane, (no date set).
Jackson County Agricultural and Fair Associa-tion, S. B. McGrew, Holton, September 30, Octo-ber 4.
Jefferson County Agricultural and Mechanical

tion, S. B. McGrew, Holton, September 30, Octo-ber 4. Jefferson County Agricultural and Mechanical Association, George A. Patterson, Oskaloosa, October 11-13. Johnson County Co-operative Fair Associa-tion, C. M. Dickson, Edger'on, September 10-13. Johnson County Fair Association, W. T. Pugh, Olathe, August 27-31. Linn County Fair Association, Ed. R. Smith. Mound City, October 1-4. Marion County Agricultural Society, Manly I. Hill, Peabody, September 25-27. Miami County Agricultural and Mechanical Association, Geo. P. Leavitt, Paola, September 24-27.

Association, Geo. P. Leavitt, Paola, September 24-37. Montroomery County Agricultural Society, D. W. Kingeley, Independence, September 17-30. Morris County Exposition Company, E. J. Dill, Council Grove, September 24-37. Nemaha Fair Association, John Stowell, Sen-eca, September 3-6. Neceho County Agricultural Society, H. Lodge, Erie, September 3-6. Neceho County -The Chanute Agricultural, Fair, Park and Driving Association, R. C. Raw-lings, Chanute, Angust 13-16. Ness County Fair Association, E. G. Pipp, Burlingame, (no date set). Osborne County Fair Association, E. G. Pipp, Burlingame, (no date set). Osborne, September 24-37. Riley County Fair Association, M. E. Smith, Osborne, September 24-37. Riley County Fair Association, I. N. Pepper, Stockton, October 3-5. Saline County Agricultural Society, H. A. Hewey, Secretary, Wichita, October 1-5. Wishon County Agricultural Society, C. R. Cantrall, Fredonia, September 10-13.

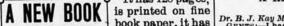
A friend out at Coronado, who un doubtedly is intensely in earnest on the question of temperance, writes to the KANSAS FARMER the following: "God was very angry with his people because they learned of the heathen to sacrifice their sons and daughters unto devils and to burn them unto idols. Yet they were not so bad as our American nation, which sacrifices its sons and daughters, soul and body, to the saloon god for 'revenue only.' Yet our authorities claim that they must have this blood money to make roads and sidewalks. Would it not be better to walk on the plain earth than on our children's blood?"

Interesting circulars sent to farmers. Send name to Bureau of Immigration, Spokane, Wash.

Summer Tours.

You can get more for your money in the sure return of health and enjoyment at any of the many resorts on the Union Pacfic System than anywhere else on this continent. See your nearest Union Pacific agent. Summer tour tickets on sale to Sep-F. A. LEWIS, tember 30. City Ticket Agent, Union Pacific System, 525 Kansas avenue, Topeka, Kas.

Q It has 128 pages,



Waterproof:

Vacuum Leather Oil, if freely applied. Get a can at a harness- or shoe-store, 25c a half-pint to \$1.25 a gallon; book "How to Take Care of Leather," and swob, both free; use enough to find out; if you don't like it, take the can back and get the whole of your money.

Sold only in cans, to make sure of fair dealing everywhere—handy cans. Best oil for farm ma-chinery also. If you can't find it, write to

VACUUM OIL COMPANY, Rochester, N.Y.

A CHANCE TO MAKE MONEY.

I have berries, grapes and peaches a year old, fresh as when ploked; I use the California costs almost notheat or seal the fruit; just put it up cold; keeps perfectly fresh, and costs almost nothing; can put up a bushel in ten minutes; last week I sold directions to over 100 families; any one will pay 81 for di-rections when they see the beautiful samples of fruits. As there are many poor people like myself, I consider it my duty to give my ex-perience to such, and feel confident that any few days. I will mail sample of fruit in nice case and complete directions to any of your readers for eighteen 2-cent stamps, which is only the actual cost of the samples, pottage, etc., to me. MRS. A. M. CURTEK. 606 Chestnut St., Englewood, Ill.

It is Not Paradise, But-

If you have some cash to spare and are willing to work, financial independence cannot be more surely secured than by buying a few acres of irrigated land in Salt River Valley. This valley is in Southern Arizona, and is noted for its fine

semi-tropical fruits and superior climate. Horticulturists say that greater profits can be realized greater profits can be realized here from oranges and grapes than in Florida or California. Physicians assert that the warm, dry, bracing climate excels in healing qualities Italy's balmiest airs. The great blizzard of 1895 did not blight the tenderest leaf in this protected spot.

To get there, take Santa Fe Route to Phoenix, A. T., via Prescott and the new line, S. F., P. & P. Ry. Address G. T. Nich-olson, G. P. A., Monadnock Build-ing, Chicago, for illustrated folders. They tersely tell the story of a remarkable country. Actual results are given - no guess-work or hear-say.

It is the Salt River Valley.



The best is none too good. DR. KAY'S REN-toward of the best, safest and most effectual main we didne known for renovating and invig-orating the whole body. It in creases the appetite, promotes digestion, will make you gain in thesh, renew your blood and prevent, your having the to fever if you will take it in time. Delays are dangerous. If you would an define the the time of year, take and the take the time of year, take to note DR. KAY'S RENOVATOR. It removes the cause and you get fat and healthy, instead of CURE and the statistication of the taken of the constraintion, etc. If you would then be the taken the taken of the taken of

A REMARKABLE CURE.

OMAHA, NEB., July 3, 1895. Dr. B. J. Kay Medical Co., Omaha, Neb.: GENTS:--I had been feeling very bad for over

14 JULY 24,

and have amassed a great amount of wealth and built up strong financial institutions because of the splendid margins put up by policy-holders, but since business in general has got down to a gold standard basis, the fraternal insurance companies which insure at a living margin above actual cost, have become more popular and have greatly reduced the cost to policy holders.

Modern Life Insurance.

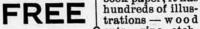
ance companies have had their own way

For many years the "old line" life insur-

Among these late modern institutions is that of the Knights and Ladies of the Fire-side, of which Mr. Ellsworth Magee is the Supreme President, who recently met a FARMER scribe and very graciously gave detailed information of the success of this fraternal beneficiary order and the cordial reception the order was meeting with everywhere it was introduced. Mr. Magee is an experienced and successful insurance man and gave up a lucrative position as State Agent for the Kansas Mutual Life Association to accept the Presidency of the Knights and Ladies of the Fireside

manufactured by L. S. Starrett, a wellknown and reliable manufacturer of fine mechanical tools at Athol, Mass., who warrants it to be true in every respect.

The price of the instrument is \$12.50 at the factory. By a special arrangement we are able to furnish it to subscribers, together with a year's subscription to the KANSAS FARMER, delivered at any express office in Kansas, charges prepaid, at the manufacturer's price. Send orders with money to Supreme President Magee called the KANSAS FARMER Co., Topeka, Kas.



O O cuts, zinc etch-ings. Its reading matter is interesting, as much so for a man as a woman, and the children also are not neglected.

The mere sitting down and writ-ing for it will secure it for you FREE. Do you want it? If so, send your name and address to

EMERY, BIRD, THAYER & CO. Bullene Moore Emeryolo, KANSAS CITY, MO.

Dr. B. J. Kay Medical Co., Omaha, Neb.: GENTS:--I had been feeling very bad for over a month, due, so my physicians said, to the change of life. I was all run down and all tired out; confined to my bed most of the time, terrible pain in my stomach and bowels which would seem to extend down into my limbs and feet. Several doctors said i had cancer of the stomach; I would bloat up and belch gas from the stomach; would bloat up and belch gas from the stomach which would leave a very bad taste in my mouth; I was terribly nerv-ous and despondent; I had hot fiashes and could not sleep nor eat and cared not whether I lived or died, as I longed to be at rest; I had severe pain in my right side and could not go to sleep on that side, but had to lie mostly on my back. I com-menced taking your Dr. Kay's Renovator and I feit better right away. The cancer of the stomach has disappeared; I have no more belching of gas and no more bloat; am eating and sleeping well and feel-ing better than I have for years, and I feel that it is me more good than all the other medicines I have ever taken. MRS. IDA GILMORE. Lorenzen Block, Second Floor. Send for a circular. Sold by druggists or sent to any address on receipt of price. Trial size 25 cents.

Send for a circular. Sold by druggists or sent to any address on receipt of price. Trial size, 25 cents, for thirty-five doses, or \$1.00 for 160 doses. Address DR. B. J. KAY MEDICAL CO.

620 South Sixteenth St., OMAHA, NEB.



The Veterinarian.

We cordially invite our readers to consult as 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 set of animal, stating symptoms accurately, of how long standing, and what treatment, if any, has been re-borted to. All replies through this column are free. Bometimes 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 dol-iar. In order to receive a prompt reply, all letters for this department should be addressed direct to our Veterinary Editor, DE. S. C. ORE, Manhatan, Kas.

CHICKENS DYING.—Please tell me what to do for my chickens. They ap-pear to get sick without cause and soon die. I can find no vermin on them. Slimy water ran from the mouth of one. They run at large and are not fed any grain. W. K. fed any grain.

Delavan, Kas.

1895.

Answer.-As you give no symptoms it is impossible to say what the disease is. Your chickens may have cholera. Give a better description of the case.

LUMP IN TEAT .- One of my cows has a lump high up in one of her teats. She just calved four or five days ago and I can only milk the teat with great effort, and it is very painful to the cow. What can I do for it? L. L.

Elk, Kas.

Answer .- When the cow is dry the lump can be removed by a surgical operation, but it is not advisable to attempt it while the cow is giving milk, as it would be almost impossible to get it to heal with the milk flowing through it.

DIABETES .- I have a horse that urinates six or seven times in half a day and in too great a quantity. He is a good feeder, drinks freely and keeps in good flesh. Is there anything the mat-D. T. ter with him?

Vidette, Kas.

Answer.-Your horse probably has diabetes in a mild form. Take iodine orystals, 1 ounce; iodide of potassium, 4 drachms; water, 12 ounces; mix. Give one ounce in a pint of water twice a day for two days, then give it once a day till done, unless the urine is checked sooner.

POLL-EVIL .-- I have a four-year-old mare that has a swelling on top of her head. What can I do with it? El Dorado, Kas. C. F.

Answer.-Your description of your case is a good one but it is too lengthy to give in full. There is no doubt that your mare has the poll-evil, and I will give you a remedy that I have used for the last year and found the most successful as well as the most simple of any I have ever used. Take pure kerosene or coal oil and apply freely all over the enlargement twice a day for a few days, until the skin is sore, then once a day or just often enough to keep it sore. If you think there is pus in the lump, open it and then inject the coal oil into it every time you apply it on the outside. This may seem too simple a cure to be of any value, but I have tried it thoroughly and I believe it will cure any case that can be cured by any other treatment if it is continued long enough.

Chicago Horse Market.

Horse salesmen at Union stock yards report light receipts with a good inquiry for all the better grades of horses. The foreign trade is said now to be a very important feature of the market, a large number of horses be ing shipped to Europe weekly. Prices are not quite as high as they were in May and June, but decidedly better than they were before and immediately after July 4. Eleven hundred to 1 pound chunks, if good quality, and firstclass heavy blocks are first in demand. Smooth, toppy drivers are sought for at fair prices, and common stock is ready sale but at rather low prices. They quote:

MARKET REPORTS.

Kan sas City Live Stock. KANSAS CITY, July 22.—Cattle—Receipts since Saturday, 7,806; calves, 825; shipped Saturday, 1,147 cattle, 96 calves. The market was steady to a dime lower. The following are

representative sales: DRESSED BEEF AND SHIPPING STEERS.

154..... 85..... WESTERN STEERS.

69 grs1,084 \$3.00	and the second sec
COLOBA	DO STEERS.
81 1,812 \$4.90	1 48
41 1,203 4.15	88
TEXAS AND	INDIAN COWS.
	1 57 883 \$2.65
	000 0 55
17 812 2.55	44
2 820 1.90	
1 770 1.90	2 685 1.50
COWS AN	D HELFARS.
4 1,205 \$3.25	1 1
	21,100 3.00
2 1,180 2.85	1 AND O
1 730 2.80	10
8 983 2.75	
4 942 2.75	1 890 2.75
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101111111111111111111111111111111111111	
8 900 2.00	
6 642 1.75	
BTOCKERS	AND FEEDERS
44 1,156 84.80	1 19 953 83.80
8 905 8.75	
0.00 0.00	
1	

Hogs-Receipts since Saturday, 3,638; shipped Saturday, 975. The market was 5 to 10c lower. The following are representative sales:

The following are representative sales: 16...130 \$5.10 65...183 \$5.10 101...274 \$5.10 43...129 5.10 80...208 5.10 77...198 5.07 $\frac{1}{5}$ 50...201 50.7 $\frac{1}{5}$ 10...199 5.07 $\frac{1}{5}$ 72...202 5.05 84...108 5.03 67...233 5.05 64...193 5.02 $\frac{1}{5}$ 62...188 5.03 67...233 5.05 64...193 5.02 $\frac{1}{5}$ 62...235 5.00 81...209 4.97 $\frac{1}{5}$ 83...234 4.95 64...222 5.00 81...209 4.97 $\frac{1}{5}$ 83...234 4.95 64...209 4.93 84...214 4.91 70...244 4.95 65...274 4.85 29...274 4.85 76...234 4.87 $\frac{1}{5}$ 70...207 4.85 35...324 4.80 33...201 4.87 $\frac{1}{5}$ 52...364 4.80 33...201 4.90 69...214 4.87 $\frac{1}{5}$ 53...264 4.80 33...201 4.90 69...214 4.87 $\frac{1}{5}$ 70...217 4.85 35...324 4.80 33...201 4.83 70...207 4.85 35...214 4.73 9...381 4.40 Sheep-Receipts since Saturday, 2,028; ship-ped Saturday, 2,617. The market was fairly netwe and steady. The following are repre-sentative sales:

sentative sales: 61 lambs...51 84.30 | 85 S. W. 1... 61 83.73 705 Ut w....93 3.65 | 23......44 3.05 Horses-Receipts since Saturday, 82; shipped Saturday, 39. It was a quiet day at the horse and mule market, and the receipts were light. The supply on hand is limited, but with light demand the trade is easily satisfied. There are a few outside buyers here looking around. The values remain steady.

Chicago Live Stock. CHICAGO, July 22.—Cattle—Receipts, 14,070; market steady, common to medium weaker; fair to best beeves, \$3.50@5.85; stockers and feeders, \$2.25@3.91; mixed cows and bulls, \$1.75 @3.85; Texas, \$2.65@4.00. Hors—Receipts, \$1.000; market 102.15; here

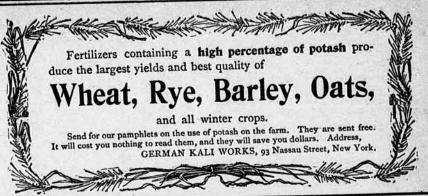
Ø3.85; Texas, \$2.65@4.00.
 Hogs-Receipts, 31,000; market 10@15c lower;
 light, \$5.05@5.55; rough packing, \$4.80@5.00;
 mixed and butchers, \$5.15@5.40; heavy packing and shipping, \$5.10@5.40; pigs, \$3.60@5.00.
 Sheep-Receipts, 17,000; market 10@25c lower,
 lambs steady; native, \$2.00@1.40; western, \$2.50
 @4.00; Texas, \$2.25@3.60; lambs, \$3.00@5.50.

St. Louis Live Stock. Sr. Louis, July 22 — Cattle—Receipts, 3,500; market steady; Texas steers, \$2,75@4.25; na-tive steers, \$3.75@5.60; stockers and feeders,

Hogs-Receipts, 3,500; market 10c lower; heavy, \$3.00@5.40; mixed, \$4.90@5.40; light, \$5.30 @5.40. Sheep-Receipts, 1,800; market 100 lower.

Chicago	Opened			Closing
July 22	Opened	High st	LOW SU	Citosing
Wh't-July Sept Dec Corn Sept Sept Sept Sept Sept Sept Sept Sept Sept Jan Lard -July Jan Ribs -July Sept	67% 44 35% 23% 23% 22% 25% 11 10 10 9% 10 75 6 40 6 27%		66% 67% 63% 44% 85% 85% 22% 22% 22% 22% 11 10 6 35% 6 35% 6 35% 6 35% 6 35% 6 35% 6 35%	6 40

Kansas City Grain. KANSAS CITY, July 22—Nearly everyone expected over 100 cars of wheat here to-day. There were but 42 cars. There was no great urgency in the demand. Good samples of hard wheat were about 14 to to be blocker, but here



Good old oats were firmly held, but most of

Good old oats were firmly held, but most of the offerings were new oats of very irregular quality and they sold at irregular prices Sales by sample on track, Kansas City: No. 2 mixed oats, 1 car. new, 23c; 2 cars 22%c; No. 3 oats 1 car 21%c 1 car 21c, 1 car 20%c, 1 car 20c; No. 4; 1 car new 170, 1 car 16c; rejected, nominally, 12@15c; no grade, 1 car 18c, 1 car 11c; No. 2 white oats, 2 cars 28c; No. 3 white oats, nominally, 25@26c.

nominally, 25@26c. Hay-Receipts, 160 cars; offerings were very large and the prices were fully a dollar lower; most of the timothy hay is arriving hot: old hay worth 50c above quotations. Timothy, choice, \$2.50; No. 1, \$2.00; No. 2, \$7.00@7.50; fancy prairie, \$7.00@7.50; choice, \$4.00@d.50; No. 1, \$5.00@5.50; No. 2, \$4.00@4.50; packing hay, es 00@3.00 \$2.00@3.00.

St. Louis Grain. St. Louis, July 23.-Receipts, wheat, 115,000 bu.; last year, 215,000 bu.; corn, 6,600 bu.; last year, 18,900 bu.; oats, 28,000 bu.; last year, 56,000 bu.; ahipments, wheat, 7,000 bu.; corn, 2,018 bu.; oats, 5,733 bu. Closing prices: Wheat-Cash, 66½c; July, 67½c bld; September, 67%c bld; December, 70%. Corn-Cash, 400 bld; July, 400 bld; September, 43c bld; December, 81%c. Oats-Cash, 25c bld; July, 24c; September, 22%c. 22%c.

Dats-Cash, 250 Didt, July, 2017,

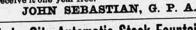
Vegetables-Potatoes, new, supply light, 30@35c per bu. Cabbage, slow, home grown, 15@30c per doz. heads. Onions, new, 50@60c per bu.

Kansas Tannery ESTABLISHED IN 1889.

Does a general taning business, including rober, rugs, etc. Tanning Galloway hides for robes a specialty. First-class work, reasonable prices. All kinds of leather in stock-best quality. Have you any oak bark? Good prices paid for it. Write me.

M. C. BYRD, Lawrence, Kas.

Western I rail Is published quarterly by the Chicago, Rock Island & Pacific Rallway. It tells how to get a farm in the West, and it will be sent to you gratis for one year. Send name and address to "Editor Western Trail, Chicago," and receive it one year free.



Waters 50 to 150 Pigs Daily.

Waters JU to 15U Pigs Daily. Governed by gravity weight valve. No springs to rust. No float to stick in the mud and let out tank of right sized drinking cup, not a large, double drinking cup to hold a lot of hot, flithy water before freeh supply comes down. Valve-seat is in body of water and once, and can be stached to a tank or barrel in ten minutes. Works successfully in winter. Retail price %3. We pay express. Fountains sent to any address on trial. Price to be remitted by express agent if satisfactory. It costs nothing to try; send for one. Agents wanted in every locality. Order through implement dealer or STOCK FOUNTAIN CO., Lake City, Iowa.

THE STRAY LIST.

FOR WEEK ENDING JULY 10, 1895.

Phillips county-I. D. Thornton, clerk. MARE-Taken up by John Van Horn, in Rush-ville tp., (P. O. Powell), April 29, 18%6, one light dun mare, sixteen hands high, weight 800 pounds, star in forehead, wire cut on front leg; valued at \$25.

Neosho county-W. P. Wright, clerk. PONY-Taken up by Philip Shafer, in Lincoln tp. June 4, 1894, one gray pony mare, sheared, branded on left side and hip; valued at \$12.

Cherokee county - P. M. Humphrey, clerk. MARE-Taken up by B. G. Jones, in Shawnee tp., June 15, 1895, one dark bay mare, sixteen hands high, 13 years old, both hind and one front foot shod, saddle and harness marks; valued at \$10.

Harvey county-T. P. Murphy, clerk.

Harvey county—1. F. Mutphy, chear MARE—Taken up by Charles Haering, Williams & Gardner's addition to Newton city, June 20, 1895, one black mare, 4 years old, scar on right fore foot, no other marks or brands: valued at \$25. HORSE—Taken up by Maria D. Miller, of Walton tp., (P. O. Walton), June 5, 1895, one bay horse, col-lar marks on shoulders, no other marks or brands, about fifteen hands high, 9 years old; valued at \$15. FOR WEEK ENDING JULY 17, 1895.

Miaml county-Jas. E. Caton, clerk.

STEER-Taken up by Dr. D. V. Mott, of Fon-tana, one black three-year-old sizer, white face, swallow fork in right ear and underslip in left ear; valued at \$16.

Cherokee county-P. M. Humphrey, clerk. Unerokee county-P. M. Humphrey, clerk. HORRE-Taken up by George W. Gleer, in Low-ell tp., one bay horse, 8 years old, heavy mane and tail, saddle and collar marks; valued at \$20. MARE-By same, one mare, 5 years old, right hind foot white, had on halter, shod all round, saddle marks; valued at \$20. HORBE-Taken up by John Longdon, in Lowell tp., July 9, 1886, one yellow-dun gelding, branded B on left jaw, hL on left shoulder and HA on left hip, weight 1,100 pounds.

Crawford county-Peter McDonnell, clerk.

MULE—Taken up by Lyman Jones, of Pittsburg, June 28, 1895, one bay mare mule, 10 years old, branded O on right shoulder; valued at \$25. MARE—Taken up by J. M. Richards, in Baker tp., May 20, 1895, one dark bay mare, fourteen hands high, 6 years old, star in forehead, branded O on left fore and right hind hoof; valued at \$20. Johnson county-Jno. J. Lyons, clerk.

HORSE-Taken up by H. N. Hodges, in Gardner tp., May 30, 1895, one dark brown horse, fifteen and one-haif hands high; valued at \$25. MARE-Taken up by Darby O. Dar, in Shawnee tp., (P. O. Shawnee), June 29, 1885, one brown mare, fourteen hands and three inches high, white spot on face, branded O S on left shoulder; valued at \$20.

FOR WEEK ENDING JULY 24, 1894.

Doniphan county-W. H. Forncrook, clerk. STEER-Taken up by D. E. Hale, in Center tp., June 7, 1895, one light red oue-year-old dehorned steer; valued at \$18.

Cheyenne county-G. A. Beukelman, clerk. HORSE—Taken up by H. D. Bacon, in Jefferson by, (P. O. Bird City), June 19, 1895, one bay geiding, 2 years old, white star in face; valued at \$15. MARE—By same, one mouse-colored roan mare, 3 years old, no marks or brands; valued at \$15.

Linn county-Jno. J. Hawkins, clerk.

HORSE-Taken up by J. T. Tipton, in Lincoln tp., one dark bay horse, sizteen and a half hands high, left hind foot white, difficulty in left hip; valued at \$20. Wallace county-Hugh Graham, clerk.

Wallace county—Hugh Graham, clerk. MARE—Taken up by C. F. Harris, in Wallace tp., (P. O. Sharon Springs), June 29, 1885, one bay mare, left hind foot white; valued at \$20. MARE—By same, one bay mare. right hind foot white and white stripe in face, had halter on when taken up; valued at \$20. MARE—By same, one bay mare, white stripe in face; valued at \$20.



Lake City Automatic Stock Fountain.

These prices are for sound horses, 5 to 8 years old, well broken and in good flesh. They expect a brisk trade during the coming week.

"Have tried others, but like Ayer's best" is the statement made over and over again by those who testify to the benefit derived from the use of Ayer's Sarsaparilla. Dis-ease never had a greater enemy than this powerful blood-purifier. It makes the weak strong weak strong.

wheat were about 4 to to it higher, but low grades did not command any better prices and in some cases seemed lower than on Saturday. Good soft wheat continues very scarce. Receipts of wheat to-day, 42 cars; a year ago, 225 cars.

225 cars. Sales of car lots by sample on track, Kansas City: No. 2 hard wheat, 8 cars 63c, 2 cars 624c: No. 3 hard, 2 cars filet No. 4 hard, 4 cars 57c; No. 3 red, new, nominally, 65@66c: old, nominally, 70@71ct No. 3 red, 1 car old 70c, 1 car 65c, 2 cars 63c, 2 cars 62c: No. 4 red, 1 car 59c, 2 cars 58c, 4 cars 57c, 4 cars 564c; rejected, 4 cars 56c, 2 cars 55c, 2 cars 54c, 2 cars 53c, 2 cars 51c.

Corn sold slowly and was 4 to 56 lower until near the close, when the market became strong and 38% was bid, both for spot and for corn to cars 51c. arrive

Receipts of corn to-day, 46 cars; a year ago, 85 cars.

Sales by sample on track, Kansas City: No. Sales by sample on track, Ransas Ory. Ro 2 mixed corn, 5 cars 3834c, 6 cars 3834c; No. 3 mixed, 1 car 38c; No. 4 mixed, 1 car 37c; No. 3 white, 6 cars 3834c; No. 8 white, mominally, 88c.

STOCK FOUNTAIN CO., Lake City, Iowa



ACH Kendallville, Indiana. LIVE STOCK AUCTIONEERS. Live Stock Auctioneer, JAS. W. SPARES, Bales made everywhere. Refer to the best breed-ers in the West, for whom I sell. Satisfaction guar-anteed. Terms reasonable. Write before claiming dates. Mention KANSAS FARMER.

ELI ZIMMERMAN, Hiawatha, Kansas, Live Stock and General Auctioneer. Pedigreed and registered live stock a specialty. Write for dates. Sales conducted anywhere in the country. Best of references and satisfaction guar-anteed.

Antoeu. S. A. SAWYER, FINE STOCK AUCTIONEER-S. Manhattan, Riley Co., Kas. Have thirteen dif-ferent 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.

478 [14]

KANSAS FARMER.

JULY 24

810 EAST TWELFTH STREET, KANSAS CITY, MO.

The Poultry Hard.

ABOUT GOOSE RAISING.

The Most Profitable Varieties and How to Rear and Fatten

Geese as an article of food are more highly esteemed in Europe than in this country, where the turkey occupies first place in our affections. Nevertheless, the juicy meat is most toothsome, and a larger demand for it might readily be developed. Under suitable conditions these water fowl are very profitable. If given the range of a good pasture, with plenty of water, they need less care and attention than turkeys or chickens. They are hardy, easily raised and less subject to lice, while their food is less expensive. Their feathers should pay the expense of their keep, the returns from the birds themselves being clear profit

The Toulouse and the Embden are the best known breeds of geese, and there is more money in raising them than in the small mongrel stock often seen, as they produce twice as much meat and feathers and fatten more readily for market. The Toulouse are the largest geese known. They have gray plumage and are quiet and gentle in disposition.

The Embdens are pure white, a circumstance which causes them to be preferred by many. They are somewhat smaller than the Toulouse and their plumage is more compact. A good cross for the market is a Tou-

louse gander and Embden goose. Geese begin to lay when about a year old. The gander is best for breeding purposes after his second year, and he will remain in vigor for several seasons. Old geese make better mothers than young ones and should be kept for breeding and laying. When first commencing to lay, geese are apt to be irregular, but as they mature they will lay regularly and give a litter of fifteen or twenty eggs before attempting



PRIZE TOULOUSE GOOSE.

to sit. Geese average about forty-five eggs in a year, but occasionally run up to sixty, or even seventy. Breeding geese should be kept rather thin in flesh and have a free grass range. Newly hatched goslings do not require food for the first twenty-four hours. They should be fed on hard boiled eggs, chopped fine, stale bread soaked in milk, scalded meal, boiled potatoes, etc., and kept away from the water for the first fortnight and housed in a dry place until strong enough to run about wel.

Geese require grass as much as cattle and should have it in abundance. They also feather out more quickly when permitted to run on green pasture and have plenty of water. Under these conditions they should produce a good crop of feathers every ten weeks. They should not be plucked while laying, as it is impossible for them to moult artificially and produce strong eggs at the same time. If the feathers are ripe they will come easily and are dry at the guill -end. If soft and bloody, they must be left for some time longer. Geese usually sell best at the Christmas holidays, and not at Thanksgiving, as many suppose. The demand for them is greater in the colder weather. The Irish and Germans are the largest consumers of geese in this country. Before marketing geese must be fattened. This process will occupy from two to three weeks. They should be put in a darkened room, with sufficient light for them to see to eat, and be given all the oats and corn-meal they can consume. They must hall's Hair Renewer.



not be separated like fowls, as they are very sociable and pine away if kept in solitude. As soon as the desire for food slackens, they should be killed, as they are as fat as they will get and will lose flesh instead of gaining it.-N. Y. World.

Breed for Eggs or Meat.

Hens afford a profit from eggs and lesh, and yet they excel, according to the breed used, in either direction. He who wishes to make eggs a specialty should pay but very little attention to the market qualities of the breed, while those who wish to raise the best birds for the market should make eggs a secondary matter. It should be the aim to secure both, if possible, but no breed combines in itself, all the requirements for eggs and flesh. If we secure a breed that comes up to such a standard it may be lacking in some other direction, perhaps tender when young and not hardy. Always, how-ever, have a definite object in view.

Proper Food for Chickens.

Chickens fed on an exclusive corn diet will not make a satisfactory development, particularly of feathers. The bones of chickens fed on a nitrogeneous ration are fifty per cent. stronger than those fed on a carbonacious ration. Hens fed on corn, while not suffering in general health, become sluggish and deposit large masses of fat in the internal organs. The flesh of nitrogeneous-fed fowls contains more albuminoids and less fat than those fed on a carbonaceous ration, is darker colored, juicier and ten-Feeding Poultry in Summer. Feeding too often is a serious mis take. If the hens are in good condition for laying, they will thrive much better if compelled to come off the roost in the morning and scratch for their breakfast than if they walk up to a feed-trough and fill their crops. The morning feed of grain and seeds may be scattered in the litter after they are on the roost at night, so that they can begin as early in the morning as they desire. Before going to roost at night they may be given all they can eat. They will digest all that the crop will hold before morning .-Farm and Fireside.



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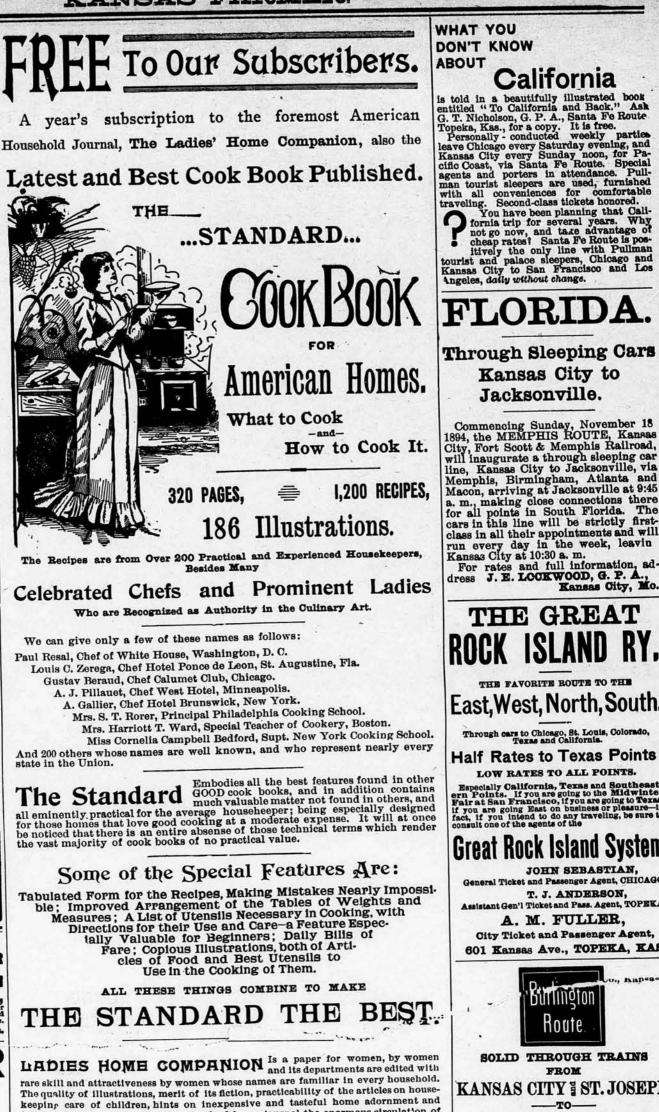
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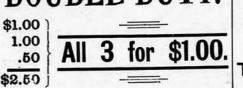
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