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INSECT-EATING BIRDS. PRIZE ESSAY BY FRANK H. PALMER.



Yellow-rumped Warbler. Dendroica coronata.

Mr. J. A. Allen says,* "The mammalian and bird faunæ of all the older settled parts of the United States are vastly different from what they were two hundred years ago. These changes consist mainly in the great de-crease in number of all the larger species, not a few of which are already extirpated where amination of the habits of birds and insects they were formerly common. A few of the that birds are of the greatest service to man smaller species of both classes have doubtless and that they should be protected and encour increased in numbers. Many of our water-fowl that are now only transient visitors,—as the Canada goose, the several species of Merganser teals black duck and mallard,—un-



doubtedly once bred in this State (Massachu setts), as did also the wild turkey and prairie hen." An old farmer of Essex County recently told us that fifteen years ago the passenger-pigeon was accustomed to breed in considera-ble numbers in a forest not far from his house. Now a few pairs may be seen in the spring and fall migrations; but none in the summer In the same county, ten years ago, the ruffed grouse was quite abundant; but now it is rare that any are seen except in the deepest woods, and then only an occasional pair, most of them having been snared, and sent to the Boston market, laws to the contrary not withstanding laws to the contrary not withstanding Formerly some six or seven species of sea-ducks bred among the islands of Massachu-setts; now none are to be found except the setts; now none are to be found except the dusky duck, and that in no great abundance.



Wood, or Summer-duck. Aix sponsa. INCREASE OF INSECTS.

As a result of the decrease in the number of birds, we find that insects have been steadily increasing; and the aggregate loss through their agency is now much greater than in for-mer years. Since 1860, the damage done each mer years. Since 1860, the damage done each year by such insects as the canker-worm, currant worm, wheat-midge, Hessian-fly, &c., has been greater and greater; so that, in some sections, the cultivation of particular crops has been almost abandoned. New species of noxious insects are constantly being discovered by entomologists and others; while many species before unknown in this country have been introduced by the importation of plants, &c., from Europe. Insects that are abundant in the West are gradually working eastward, as the Colorado potato beetle; and only earn-est study and effort will prevent the continued increase of these pests of the land.

There are about thirty species of insects which subsist on our garden vegetables. The grape vine has about fifty insect enemies; the apple-tree seventy-five; our different shadetrees some over a hundred; wheat and other grains fifty. The crop of wheat in the State of Illinois was injured by insects, in one year, the contract of accounts the section of the secti to the estimated amount of seventy-three millions of dollars. The estimated annual destruction of property by insects in the United States is as high as four hundred million dollars. The effect of this loss is felt not alone by the farmer. It is to this, in a large measure, that many poor men owe their poverty; to this must be attributed the high price of farm-produce and all healthy food, and the consequent increase of disease and want in our large cities. We do not healtate to say that at least one eighth of this loss by insects might be prevented by the careful protection and Perdiciar, Partitions. be prevented by the careful protection and Perdicidæ, Partiidges... encouragement of birds; or, to put it in anoth; or way, the carelessness of the people in the United States in this respect costs them at least fity million dollars yearly, besides much ardeidæ, Herons... unhappiness and suffering.

* "American Naturalist," Vol. III., No. 10.



White-winged Crossbill. Curvirostra leucoptera TABULAR VIEW OF FOOD OF BIRDS.

We must conclude, then, after careful examination of the habits of birds and insects, from beneficial, being on the contrary, very injurious, not only to the interest of man, but also to the well-disposed members of their own race. In short, there are robbers and cutthroats among birds as well as amongst men; and it is just as sensible to pronounce the human race good for nothing, because of the depravity of a portion of its members, as to deprayity of a portion of its members, as to say that birds are useless because a few species are inclined to wrong doing. The following table will give an idea of the food of the more common birds of Massachusetts, and will serve as a ready means of distinguishing the injuri



FARILY.	ORDER-Maptores (Robbers
The state of the s	Subsist on small birds an animals, and poultry. Mice, reptiles, insects, and a few small birds.

Gueulida, Cuckoos

Trocilide, Humming-birds insects.
Cypsetide, Swifts...... All kinds of winged in

Alcedinidæ, Kingfishers...Fish. Colopteridæ, Flycatchers...Flies and other winged in Turdide, Thrushes.....Insects and a few smal

Saxicolidae, Bluebirds. Insects.
Sylvia adae, Wood-inhabiters Insects.
Paridae, Timice and Nuthatchers. Insects a
Certhiladae, Orcepors. Insects
Troplotytidae, Wens. Insects.
Sylvicolidae, Warblers, Insects
weeds Insects and their eggs.



Redstart. Sstephaga ruticilla.

ORDER-Rasores (Scratch ers.)

Berries, nuts, and seeds, Various seeds, insects, and berries, Seeds, berries, and a few insects.

ORDER-Grallatores, (Waders.) Ardeido, Herons Charadrido, Piovers Seolopacido, Snipes. Fish, frogs, mice, &insects. Aquatic insects. Worms, large of insects, ORDER-Natatores (Swim

Anatido, Duck Small shell-fish and other

We must say a word in regard to those two birds which have occasioned so much debate tried raising the "Tannin Plant" as a crop? among farmers and others,—the crow and the If so, what success? Who will state expeamong farmers and others,—the crow and the If so, what success? Who will state experobin. At one time the agricultural papers rience? If leather can be manufactured more were continually saying something for or cheaply and better here out of our native promuch is heard on the subject now, yet the ducts than elsewhere, there is no reason why question has not been settled to the satisfaction of all. From our own observation we tion of all. From our own observation, we are compelled to believe that the crow is a very injurious bird, but the robin an equally beneficial one. The crow is acknowledged, even by his friends, to pull up a good deal of corn; and otherwise suitable—that of raising the but it is urged that he destroys enough insects and crubs to compensate for this hings. and grubs to compensate for this highry.—
Granting this, it leaves him neutral, doing as much good as harm; but this leaves unnoticed the fact that he destroys a great number of eggs and young of small birds which, if permitted to live would have destroyed vastly more insects than the crow. The robin is more insects than the crow. The robin is

(CONCLUDED NEXT WEEK.)

Written expressly for the Kansas Farmer. TANNIN PLANT.

enerally known by the names of "knot-grass" shoots without side twige. gaining favor of late.

in the State—that of leather manufacturing, taking great care not to disturb the young terests of Agriculture. We will begin with The following article copied from a late num- roots or break off the tender buds. ber of the Scientific American may not be Layers are made by bending to the ground amiss in this connection :

tity of bark."

dried, and stacked like hay."

A scientific description of of the plant may tion of a description of Pamphibium is taken from Wood's class-book

"A very variable species, with large leave 5-7 inches by 1-2 inches), and a terminal, dense spike of bright red flowers. Spike 1/2 inches long, the shorter, mostly thicker. Blossoms in August. [One of] the principal varieties [is] the following:

the plant. "It is readily known by its large next spring, all that may fail to grow. leaves and single scarlet spike."

It the plant should prove as worthy as it

For oiling fine boors, castor oil is deemed by forate the paper.

Paludicolo, Rails..... Various insects and water- many, as the best oil which can be used. Castor oil is now quoted at 85 cents per gallon For harness and other grain-finished leather neat's-foot oil stands ahead. So you can soon Larida, Gulls... aquatic animals.

Larida, Gulls... Fish and various animals washed up by the sea. determine, if the plant should do well there ing would prove profitable in the valley."

Has any of the readers of the FARMER ever tannin plant.

MULBERRY CULTURE.

L. S. CROZIER.

NUMBER II. sure to grow if planted before, from March till complete redemption? the middle of May.

from cuttings, the silk growers of Kansas will the circumstances and conditions of plant life, EDITOR FARMER.-In a late number of the do well to adopt that way of propagation to with which they are surrounded, a greater FARMER (March 20th) there is an inquiry procure their stock, provided they take their physical, intellectural and moral energy will concerning "the tanning plant," Polygonum cuttings from good trees; in that case they speedily be developed. Agriculture will then fluitans, which grows in great profusion will not need to be grafted. The trees, from be recognized by all, as the first and most imthroughout Missouri, Kansas and Nebraska. which the cuts are taken, should have large, portant of the scientific professions. It belongs to an extensive genus of plant, soft, tender leaves, growing on long, smooth

one or more shoots from selected mulberry general laws that control animal life and "The Western tannin plant (Polygonum am-phibium), which grows luxuriantly in the Mis- April as early as possible, cut from the tree embryo." It may be dried and preserved for souri valley, seems destined to replace oak in the fall and planted out the next spring. years, but is ever ready when subjected to bark in tanning. It contains 18 per cent. of In planting the mulberry tree the ground favorable conditions of heat and moisture to eggs of other birds.

Insects (a very beneficial family.)

Insects (a very beneficial family.)

Once: Insects (a very beneficial family.)

Order: Insects (a very beneficial family.)

it in Chicago find that ope-third more leather rapidly and the yield will be larger, the leaf food. These rootlets are covered with fine, can be obtained with it than with a like quan-of finer quality, in turn producing a superior short hairs. Examined with the microscope can be obtained with it than with a like quan- of finer quality, in turn producing a superior short hairs. Examined with the microscope quality of silk. The white mulberry is very the hairs are found to be tiny mouths through The process of tanning with it is identical with tenacious of life. In Southern France one of- which the plant receives its food. The food that with bark; but the leather is tougher, ten sees the trees from 3 to 5 weeks on the is water, holding in solution the elements necfiner, more durable, and receives a finer finish. road to market, from town to town, the roots essary to its peculiar nature. All plants re-The plant is an annual, and can be mowed, exposed to the burning sun, and after being ceive through their roots oxygen, hydrogen, planted, grow successfully.

Mr. Vasseur from Valence, sent about 5,000 few other elements. be found in any text-book on botany, as the mulberry trees to Paris the 1st of December; plant has been known for a long time from being before the time of railroads they did tains it from the atmosphere. As the the roots New England to Illinois. The following por- not arrive at their destination until sometime reach down after food, the stem reaches up, in January, during one of the coldest seasons coriated, having a disagreeable odor and were lungs through which the plant breathes. Exsupposed to be dead; but two months after- amined with the microscope they are found to ward they were covered with beautiful green contain thousands of minute pores. On some foliage. The robust constitution of the tree leaves there are 170,000 pores to the square defies alike cold, dry and hot weather. The inch. Through the pores on the under side ("P. fluitans, Eaton?) Leaves lance-linear, cessfully transplanted every month in the year Now the atmosphere contains oxygen, nitrogen, tapering to each end; orchrea long, hirsute, with the exception of December when the water vapor and carbonic dioxide, (or car with a leafy, spreading summit; spike oblong. tree is at rest. Last year I forgot a bundle of bonic acid gas). The plant wants the water I am by no means certain that [this variety is] 350 young trees, almost covered with earth, in vapor and the carbonic dioxide. The liquid not distinct. "That is a distinct species. By the the mulberry orchard. I found them in June food taken at the root of the plant, climbs interm "ochrea" is meanta peculiar boot-leg sort when picking leaves for the silk-worms, and to the stem, spreads itself through the of sheath at the base of the leaf-stem, surround- gave them to our neighbor, Mr. Hurst; he branches, and visits every part of each leaf in ing the stem of the plant, and rising above now has 300 nice trees with limbs 4 or 5 feet its ceaseless circulation there, in the form of the petiole or leaf stem. This boot-leg sheath long and will raise a small crop of silk worms sap it is enabled through the influence of the

Prof. Carruth, Botanist of the State, says of that I will cheerfully replace, this autumn or

Silkville, Franklin Co., Kan. STRIPED BUG .- A writer in the Tribunc exTHE RELATION OF PLANT AND ANIMAL LIFE TO THE EARTH AND ATMOSPHERE.

BY NELSON CHURCH.

NUMBER I.

Animal life is dependent upon plant life for its existence, its nourishment and its growth. If plant life were to be destroyed, animal life would not long survive. The granivorous animals would first disappear. Then the carnivorous species would be consumed. Man being the highest type of the animal kingdom, with his superior intellect, and his control over the lower orders of creation, would survive after all other life had ceased to be.

But, who can depict the fearful condition of physical, intellectual and moral ruin, to which our race would be subjected should such a terrible doom be pronounced against us? We ought to be thankful that we are permitted to hope for grander results of our creation.

When, through correct systems of plant culture, vegetation has attained its highest devel-The mulberry tree is grown from seeds, cut. opment, and its richest resources of nourishblamed for eating cherries and other small tings and layers. They may be planted as ment and growth are made available for animust remember that it is not more than two early as February. Generally the cuttings are mal culture, who will attempt to picture the months that he is injurious in this way, while planted after the leaves have been gathered physical grandeur, the intellectual glory, and during the other four months of his stay with for the silk-worms; though they are more the moral majesty of our race rejoicing in

When the masses of mankind are taught, As the white mulberry tree succeeds well that their culture and growth depends upon

The Agricultural Press is arousing the most thoughtful of our people to the necessity of a 'knot-weed," "bind-weed," etc., and of which The ground being prepared by deep plow- more practical education for both old and our common buckwheat is one species. The ing and harrowing, take the cuttings (6 or 8 young, by which the existing relations between particular name of the species in question is inches in length) and set them 3 or 4 inches the earth and the life it sustains, may be bet-'Amphibious knot-weed," though the name apart, in rows 3 or 4 feet distant. Press the ter understood and applied in the interests of Western tannin plant" seems to be rapidly ground firmly around the lower end of the a higher and more successful culture. To ascutting, and cover the upper with ½ or 1 inch sist in this commendable work, the series of If the plant proves to be worthyof the notice of mellow earth to protect the eyes from the articles of which this is the, first number conbestowed on it, it may be well for the people effects of the sun. Run the cultivator between templates the examination of the Relation of of Kansas to become acquainted with it; for the rows but not so close as to hurt the young Plant and Animal Life to the Earth and Atthere can and should spring up a new interest plants; keep the weeds down with the hoe mosphere, with a special reference to the in-

PLANT LIFE. Plants live, die and decay under the same s deep as possible before enter upon its wonderful life, when moistened and nitrogen, with a small quantity of a very

But the plant requires other food and obbreaks through the soil, and immediately ever known in France. Their roots were ex- throws out its leaves. These leaves are the Chinese, say the white mulberry can be suc- of the leaf the atmosphere is chiefly inhaled. is surrounded by the stipule, a leafy expansion this spring.

this spring.

this spring.

the surrounded by the stipule, a leafy expansion this spring.

To those who order trees of me, I would say and carbonic dioxide, and manufacture it into food; throwing off the oxygen and nitrogen, through the pores on the upper side of the leaf. It does not need the oxygen and nitro-If the plant should prove as worthy as it is claimed, there is no reason why we should ship our raw hides to the East and pay for manufacturing our reather obviously at a disadvantage, and shen of paying freight back over the hills before the plants are up, the again. An extract from a letter of a correspondent in Illinois manufacturing leather, soft water is essential, and lime here, tables, and similar to the one we have such as the plants are placed over the hills before the plants are up, the corners held down with stones. They are allowed here.

"In manufacturing leather, soft water is essential, and lime here, tables, and is somewhat similar to the one we have such as the disvided in 2,500 callons of amounts in the carbon of a corners and the plants. This method is somewhat similar to the one we have such as the plants of amounts in 2,500 callons of amounts in the plants. sential, and lime, bran, tannin, tallow, and is somewhat similar to the one we have suc- ic dioxide in 2,500 gallons of atmospheric air. oils. The oil of the castor-bean may prove an excellent subfitute for the fish oils now used. For oiling fine boots castor old is decayed by the first of the castor of the fish oils now used. But this amount is constantly increasing bustion. The atmosphere would in a short

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time contain so much carbonic dioxide, as to be unfit for respiration, were it not for the fact that plant life is constantly using it for the manufacture of carbon.

Prof. Tenney in treating of organic agencies says: "I ought to notice the fact that every branch upon the tree, every twig upon the branch, every leaf upon the twig, and the sepals, petals, and stamens of every flower are arranged with mathematical relations to each other; which not only contributes to the contributes to the contribute to the plant, but reveals that perfect each other than 10 the point. There is no clients are contributed to the contribute t branch upon the tree, every twig upon the growth of the plant, but reveals that perfection which is found everywhere in nature. On most plants the leaves, and consequently the branches, are arranged so that a thread drawn from one to the next above it, and from this to a third, and so on, will pass spirally around the stem ; and a little careful study will show that leaves upon plants are either one-half, one-third, two-fifths, five thirteenths, eight-twenty-firsts, thirteen-fourteenths, or twenty-one fifty-fifths of the circumference of the stem apart, disregarding only the vertical distance which separates them. This secures the greatest possible space to each leaf, whose function it is to secure the poisonous gas of the atmosphere, and extract from it material with which to form the woody fiber.' How wonderful!

But plants breathe only in light. In the darkness of night carbonic dioxide passes off as it enters. Sunshine is required to decompose it, so that it may enter into the growth of the plant. Kansas has an abundance of sunshine, we may look for grand results when it is properly transmuted. One of the most wonderful and unexplainable facts connected with plant life is that so few elements are required to produce so many varieties of vegetation. Carbon, oxygen, hydrogen and nitrogen constitute nine-tenths of the weight of all the plants on the globe. Out of one hundred pounds of vegetation, there is from ninety to ninety seven pounds of these elements. When plants are consumed by fire they pass off in gaseous form, while from three to ten per cent, remains in the form of ashes.

In our next we will examine the elements of plant life separately.

TABLE SHOWING THE AMOUNT OF SEED NECESSARY FOR AN ACRE, AND THE NUMBER OF POUNDS TO THE BUSHEL.

	10. 105. 10	110. 10e. to	
	bushel.	acre.	1
Red Clover	60	6 to 10	١,
White Dutch Clover	60	5 to 8	
Lucerne or Altalfa Clover	60	20 to 25	1
Alsike Clover		4 to 6	1
Timothy		10 to 15	ı
Hungarian		20 to 30	
Millet	50	15 to 80	1
Red Top		7 to 14	C
Orchard Grass		14 to 28	T
Kentucky Blue Grass		14 to 28	٠
Fine Mixed Lawn Grass		14 to 10	
Hemp		30 to 60	
Flax	56	20 to 30	
Buckwheat		25 to 52	
TARLESHOWING THE NUMBE	R OF PLANTS	OR TREES TO I	- 3

Dista	nce Apart.	No. of Plan
1	foot	
114	do	
2/2	. do	
236	do	6,9
3	do	4,8
4	do	2,7
5	do	1,7
6	do	
9	do	
2	do	1
5	do	
8	do	1
1	do	
4	do	
7	dodo	

38 do 48
QUANTITY OF SEED REQUIRED FOR A GIVEN LENGTH OF DRILL.
Asparagus 1 oz. 60 feet of drill. Beet 1 oz. 50 do Beans, dwarf 1 qt. 10 do
Carrot. 1 oz. 100 do Endive 1 1 oz. 100 do Okra. 1 oz. 40 do
Onion 1 oz, 100 do Onion sets 1 qt, 20 do Parsley 1 oz, 125 do
Parenips 1 oz. 150 do Peas 1 qt. 100 do
Radish 1 cz. 75 do Salsify 1 cz. 76 do Spinach 1 cz. 75 do Turnip 1 cz. 150 do
Turnip de de

Dele Poene	1 qt. to 150	hills.
Pole Beans	1 at to 900	do
Corn		do
Weter Weler	1 oz. to 40-60	do
Musk Melon	1 oz. to 75—100	do
Pumpking	1 oz. to 60-90	do
Squash	1 oz. to 60-80	do
Squash	Y OF SEED SOWN TO AN AC	

Dwarf Beans....

Marrowfat Peas	Early reas	1 26	go
Beets	Marrowfat Peas	114	do
Carrots 2 to 3 do Onions 5 to 6 do Potatoes (cut tubers) 10 bushels. Parsnips. 4 to 6 pounds. Radieh 6 to 8 do Ruta-baga 1 to 1½ do Spinach 10 to 12 do Saleify 6 to 8 do Turnip 1 to 1½ do Saleify 6 to 8 do Turnip 1 to 1½ do Corn 8 to 10 do Corn 8 to 10 do Cucumbers 2 to 3 pounds. Musk Melon 2 to 3 do Water Melon 4 to 5 do Squash 4 to 5 do	Beets 4 to	5	
Onions	Carrots 2 to	8	
Potatoes (cut tubers)	Onions 5 to		do
Parsipis	Potatoes (cut tubers)	10	bushels.
Radish	Paranina 4 to		
Ruta-baga	Radiah 6 to		
Spinach 10 to 12 do			
Saleffy			
Turnip	Solaify	8	
IN HILLS Pole Beans	Tuenin 1 to	11/	
Pole Beans.		172	40
Corn. 8 to 10 do Cucumbers. 2 to 3 pounds. Musk Melon. 2 to 3 do Water Melon. 4 to 5 do Pumpkin. 5 to 6 do Squaeh. 4 to 5 do	IN HILLS.		
Corn. 8 to 10 do Cucumbers. 2 to 3 pounds. Musk Melon. 2 to 3 do Water Melon. 4 to 5 do Pumpkin. 5 to 6 do Squaeh. 4 to 5 do	Pole Beans	12	quarts.
Cucumbers 2 to 3 pounds Musk Melon 2 to 3 do Water Melon 4 to 5 do Pumpkin b to 6 do Squash 4 to 5 do			
Musk Melon 2 to 3 do Water Melon 4 to 5 do Pumpkin 5 to 6 do Squaeh 4 to 5 do		3	pounds.
Water Melon 4 to 5 do Pumpkin 5 to 6 do Squash 4 to 5 do		3	
Pumpkin		5	
Squash 4 to 5 do	Pumpkin 5 to	6	
	Sanash 4 to	5	
	Squaen an amen macurage BOD A GIV	WAT N	muum on

QUANTITY OF SEED REQUIRED FOR A GIV	EN NUM	BER OF	•
	Ah	out	
107		plants.	
Asparagus1 oz.	2000	do.	
Cabbage 1 oz.			
Cauliflower1-oz.	2000	do	
Celery 1 oz.	2500	do	
Leek 1 oz.	1500	do	
Endive1 oz.	3000	do	
	1000	do	
Egg Plant1 oz.			
Lettuce1 oz.	3000	do	
Pepper1 oz.	1000	do	
Tomato 1 oz.	1500	do	
	4000	do	
Thyme1 oz.	1000	do	
Bage1 oz.			
Bavory 1 oz.	2000	do	
Marjoram1 oz.	1500	do	
Dhuharh 1 oz	500	do	

St. Louis, April 6.—At a meeting of freight agents here to-day, to adjust freight rates from St. Louis and Chicago to Western points, the St. Louis and Chicago to Western points, the following rates were agreed upon from St. Louis to Kansas City, Leavenworth, Atchison, and St Joe: First-class, sixty cents per one hundred pounds; second-class, fifty cents, third-class, forty cents; fourth-class, thirty cents; special twenty-five cents. From Chicago to the same points: First-class, eighty-cents; second-class, sixty-five cents; third-class, fifty cents; fourth-class, thirty-five cents; and special twenty-five cents. cial twenty-five cents.

BROOM-CORN. Frem the report of the Department of Agculture, we take the following upon the sub-

ject of broomscorn; It is but a very few years since the importance of the extensive cultivation of broomcorn has attracted the attention of either the pation among the people. There is no climate in the United States in which broom-corn will not grow with more or less success, and the mode of its cultivation does not materially differ from that of the ordinary corn or maize And, like all other grain its successful production is dependent upon the quality of the soil and the care with which the land is culti-

For broom-corn the land should be plowed in the fall. This attains two objects; the frosts of winter ameliorate and make fribeal the soil; and the work in then done, and will not be liable to the delay of planting early in the spring. This is particularly necessary in the Northern and Middle States, where spring sowing is often delayed by cold rains. If the ground be well and deeply plowed in the fall, it will supersed the necessity of powing it. it will supersede the necessity of plowing it again in the spring. The ground may be then well harrowed, rolled, and scored out three feet one way and two the other. This is assuming that the ground is in good fertile condition. If it be not, then it should be made so before plowing in the fall, by the application of barn-yard manure. Land cannot be made too rich for corn. Scoring the land out both ways enables the farmer to work it both ways by cultivators. If the seed be dropped with a drill, then it need not be scored. About three cuerts of seed will plant as agree. quarts of seed will plant an acre. As soon as the corn is seen above the ground, the work-ing to keep down the weeds should be commenced, and it must be kept clean throughout

Broom corn will grow from eight to twelve feet high, and its brush should be two feet long. This, however, is dependent in a great degree upon the quality of the soil and the care with which it is cultivated. After the corn is grown to full size the top is bent down at a point about one foot below the brush This is for the purpose of preventing too much spreading, and it should be so bent that it may be as little exposed to the sun as possible, in order to preserve its color. Whether this operation of bending down the top be done before or after the ripening of the seed, must be made to depend upon whether it be most desirable to perfectly ripen the seed or secure the best quality of brush. The plant being ripe and properly dry, the brush is to be cut off and hauled to the barn, and the seed taken of either by a hackle or other machinery.

of either by a hackle or other machinery.

The character of broom corn has, of late years, been much improved in length and stiffness, and persons desirous of raising it should pay much attention to the character of the seed. The brush for several years back has been worth in the market from six to twelve cents a pound, and the seed is worth about as

FALL VS. SPRING PLANTING.

The principle through which successful propagation of plants, by artificial means is insured, is a temperature of the soil in which the cutting is inserted and a lower degree sursounding the top. Such conditions stimulate root, and retard leaf growth. A cutting inserted in soil heated from below, will strike root, as the gardeners term it, long before any apparent growth manifests itself above ground. This tendency is in accord with a natural law that demands for the paragraphs of the that demands, first, the premanency of the plant resources, before a supply can be demanded. When these conditions are reversed, attainable. we see leaf growth developed, with flattering prospects of success, when a few days of dry weather intervening, causes the plant to wither and die. On examination we find no root growth, to supply the heavy drain by the developed foliage upon the plant, rendering death only a question of time.

NOW A TREE TRANSPLANTED EARLY IN THE FALL.

has the advantage of having its roots in warm soil, while its top is in the cool atmosphere, conditions almost analogous to the artificial means adopted by the propagation.

A transplanted tree, with a large portion of

transplanted tree, while a large portion of its roots lost in digging, becomes very much spreader. The strips should have a space left ment to insure its growth. A tree transplanted early in the fall while the ground is yet warm, will form numerous fibrous roots before cold. s before col weather, which, if protected by the mounding process referred to in a previous article, will be ready in the spring to contribute to the wants of the tree, when drawn on by the developing foliage. Thus the propriety, of covering the roots warm and securely for the winter, will become apparent to the planter, as this tender growth will be easily damaged by the violent heavings of the frost and winds of winter, when your tree becomes even worse off than if removed in the spring. This mound of earth should be removed when

spring opens up. TREES TRANSPLANTED IN THE SPRING have the reverse conditions of the fall planting to contend with, viz.: a high atmospheric temperature, tending to develop foliage, and a low temperature of the soil, retarding root growth, often resulting fatally, as in case of the cutting referred to, when overtaken by a period of drouth.

The results of fall and spring planting, in favor of the former, are more apparent in case of trees of large growth, being due to the greater proportional mutilation of the root, and the larger expanse of evaporating surface in the foliage. Such being the case, the reader will readily perceive the importance of transplanting large decidious trees early in transplanting large deciduous trees early in

EVERGREENS MUST

sustain their foliage at all times, hence they are best transplanted late in the spring, just before growth commences, as they are enabled immediately to draw upon the earth in their new locality for a supply to keep up the waste from evaporation through their ever-present foliage.—Indiana Farmer.

As an example of the growth of the South west the Wichits Eagle says that one day this week fourteen quarter sections were taken and filed upon in Sedgwick county at the United States land office. This, says the Eagle, means fourteen additional families to the population of Sedgwick county; fourteen more improved farms in a short time; fourteen more prosperous men whose property will be added to the taxable valuation of the county and the product of fourteen more fields each of wheat, corn, oats, etc., to be added to the grain market of Wichits.

LESSONS FOR THE PEOPLE IN ENTOMO-LOGY.

BY E. A. POPENOE.

No. 2. DIRECTIONS FOR COLLECTING AND PRESERV-

ING INSECTS.
For collecting insects a few simple tools are desirable if not indispensable. The first requisite is a receptacle for the captured insect. A most convenient article for this purpose is made by putting a small lump of cyanide of potassium in the bottom of a quinine or other small wide mouthed bottle, retaining it there by pressing crumpled paper around and over it so that the upper surface may be somewhat level, then capping this with a circular piece of stiff card-board, cut to fit inside of the bottle closely. This will be ready for use in a short time, as the fumes of the drug soon fill the bottle, which must be kept closely corked. A vial containing alcohol may also be used for the hard shelled insects, but the cyanide bottle answers all purposes, and the specimens killed by its use are better than those killed by

Butterflies and moths, also flies and other delicate insects may be killed by the applicat tion of chloroform with a camels' hair brush, if preferred.

For the capture of those insects that fly gers, a net is very useful. A foundation or frame may be made by forming a loop or ring about eight inches or a foot in diameter, of heavy wire. The ends of the wire should project at right-angles to the ring and may be left two or three inches long. These ends are nserted into a short tin tube and fastened there by soldering. If now, melted lead be poured into the tube to the depth of an inch. leaving the remainder of the tube open for the insertion of a stick as a handle, the frame is complete. To the ring should be attached the edges of a conical bag of swiss muslin or musquito netting, of the same diameter at the mouth as the ring, and about twice as long as wide. The net thus prepared is used in the capture of all flying meects, which are then transferred to the killing bottle.

After the specimens are quite dead, which will be in about an hour after exposure to the fumes of the cyanide, they are to be pinned. Most insects may have the pin stuck through the center of the thorax, which is usually prominent and largely developed. All beetles however, must be pinned through the middle of the right elytron or wing-cover, and all bugs should be pinned through the triangular piece in the middle of the back, called the scutellum, which is a part of the mesothorax.

Those insects too small to be pierced by a pin without injury to the specimen, may be gummed upon the points of triangles of card (which are about three times as long as wide,) when the pin may be passed through the card. The best gum for this purpose is gum tragacanth softened in water to the consistence of paste.

In all cases the pin should project about one fourth its length above the back of the insect. and uniformity in this point will give a neat appearance to the collection not otherwise

For the proper arrangement of the wings of the butterflies, moths, dragon-flies, and other insects, where it is desirable to show the wings a stretching board is necessary. A simple and adequate form is made of two thin strips of pine, each two inches in width and a foot or more in length, attached at the ends to supporting braces an inch or so wide. The upper surface of the strips should slightly incline toward the center. This inclination will coun teract the liability of the wings of the insect to droop a little after it is removed from the and allow the wings to lie flat.

Strips of cork or cornstalk pith to hold the pins, should then be glued on below so as to close up the space, leaving a groove above, in which the body of the insect lies. Having pinned your insect, push the pin through the cork until the wings will just lie flat upon the supporting strips, then arrange the wings to suit, and retain them in place by small slips of stiff card poard laid across and fastened at each end by a pin, or by small triangular braces placed at intervals around the edges of the wings and held by a pin through the base of the triangle. Setting needles, being ordinary needles with the heads forced into a soft pine handle are very useful in this process, to arrange the wings and hold them until fastened by the braces. Specimens should be left upon the stretchers until perfectly dry, which will usually be only after a week or more.

Pinned insects are best kept in some kind of shallow, closely-covered box having a lining of cork or cornstalk pith in the bottom, in which the points of the pins are stuck. This lining should be about a quarter of an inch thick and may be made by gluing sections of good, sound bottle corks to the bottom of the box. A flat cigar box thus lined is a convenient box for the storing of specimens, and also for their transportation by mail.

A good and cheap box may be made in the measuring about one and three-quarter inches deep inside and about twelve inches wide by a pair of small brass hinges at the back and

Those desiring to make extensive collections are made in two parts, a movable top and a the hind coxal plate. bottom. The latter should be about one and one-half inches deep, and the upper part or top is simply a light sash holding a pane of shape is that which has been described as glass the size of the box. The top and bottom filiform. They vary much in length and form parts should fit closely together with a tongue however, and all the principal kinds of anteand groove, to keep out dust and especially to number described in the last number are found in guard against insect pests. The top may be this sub order. The palpi are also subject to fastened to the bottom with flat hooks and the variation, especially in the shape of the termifront of the drawer may be furnished with a nal joint, which is sometimes narrower than pair of knobs screwed on with screws from the other joints (acicular) or is triangular or the inside, or handles may be attached to suit half-moon shaped (securiform), or of other the taste. The drawers may be about 12x16 irregular shape. inches, and arranged in two or three tiers .-The bottoms may have a lining of sheet cork, or what is about as good and a great deal cheaper, may have a light frame fitting the inside of the box, upon both sides of which a sheet of thick paper is glued. The frame may be made of wood half an inch wide by one-fourth inch thick. The paper should be dampened before gluing on, and it will contract and tighten when dry. The covered frame is raised above the bottom of the box by narrow strips about one-fourth inch thick and fastened down by brads or screws. If the readily, and cannot be easily taken by the fin. paper is strong pins inserted are held very firmly. CLASSIFICATION OF HEXAPOD OR TRUE INSECTS

There is a great difference of opinion among authors as to the number and relative importance of the sub-orders.

The simplest plan of separation is the best for our present purpose, and we think this is advanced by Le Baron in his Fourth Report on Illinois Insects, a work which will be followed to a considerable extent in the present paper.

The sub-orders of Insects or six-footed insects are arranged by him in two sections with four ub-orders in each section.

These sections are distinguished by the tructure of the mouth parts of the insects composing them. The sub-orders are founded upon the structure and number of wings. This arrangement will be easily seen in the following

TABLE OF THE SUB-ORDERS OF INSECTS. SECTION 1st. Mandibulata or Gnawing In-ects—mouth furnished with mandibles or jaws.

Upper wings horny or leathery in texture, under wings membranous.

Upper wings usually horny and infexible: under wings folded both lengthwise and crosswise; pups inserting the control of the control o COLEOPTERA. Upper wings coriaceous or leath-

ery; under wings folded length-wise only; active in the pupa ORTHOPTERA. All four wings membranous and usually transparent.

Wings with many branching veins, and usually many cross-veins; abdomen without an ovi-positor. NEUROPTERA. ostor. NEUROPTERA.
Wings with comparatively
few veins; abdomen terminating in the females with an
ovipositor or sting. C.C.

HYMENOPTERA. SECTION 2d. Haustellated or Sucking Insects. The mouth consolidated into a proboscis or

Wings four. Wings covered with bran-like scales. LEPIDOPTERA. В.

Wings naked. Upper wings of the same tex-ture throughout, not lapping over each other, deflexed or

roof shaped when at rest.
HOMOPTERA.
Upper wings coriaceous atbase, membranous at tip, lap-ping one over the other at tip and lying flat upon the abdomen when at rest.

Wings two, membranous. DIPTERA.

The first of these sub-orders, the Colcoptera, is composed of a great number of species ;—in cows. America north of Mexico, the number is as about 7,500.

The insects belonging to this sub orber are known by the upper pair of wings being usually hard and shelly, sometimes leathery and flexable, but always forming a cover for the lower pair, which are membranous when present. The wings thus modified are called wing-covers, or elytra (plural of elytron).

The under wings are usually found if the elytra are raised, but in some species living under stones or in the ground they are wanting. When present they are usually folded crosswise under the cases as well as length. wise and thus differ from those of the majority of other insects, which are either folded engthwise only or not at all.

Most Coleopters when viewed from above present but the upper surfaces of the head, prothorax and elytra and also what is called the scutellum. This is a triangular piece of the mesothorax and appears between the bases of the elytra. This is not apparent in some beetles however and frequently one or more abdominal segments are visible from above, projecti ng beyond the tips of the elytra.

From below are seen the under surfaces of head (consisting of the gula or throat and the to-day. under surfaces of the parts composing the mouth), thorax and abdomen. The name of sternum or breast-plate is applied to the midform of two parts, a top and bottom, each dle surface of the thorax, and the pro-sternum meso-sternum and meta-sternum correspond as before stated with, and form a part of the segsixteen long. These two parts are joined by ments of the thorax. There is a piece upon each side of each sternum that is called a pair of small brass hinges at the back and fastened by a flat hook in front. The top and bottom inside are lined with sheet cork or other soft material. A box of this kind will hold a large number of specimens, and would cost about \$75 cents, or if lined with sheet cork about \$1.75.

each side of each sternum that is called content to the stomach, is one of the most prolific sources of this disease; and when they are deprived of many of these tonics for themselves, they must be furnished. Give clean water for drink, and furnish a plentiful supply of charcoal; also let them have access to stone-cost about \$1.75.

These also take their names from the segment dition and favors digestion.

Start of the start

of the thorax of which they are a part. Be will probably want a regular cabinet; which hind the meta sternum is a part, usually small consists of a case with folding doors, enclosing and unimportant, but sometimes conspicuous a convenient number of shallow drawers, that and of value in classification, which is called

> The antennae of coleoptera are usually composed of eleven joints, and the most common

SHEEP FOR PROFIT.

EDITOR FARMER.-I wish to answer some of the inquiries of C. S. L., in the FARMER in regard to sheep raising.

First, as to the price of sheep, so much depends on quality, age, condition, etc., that I can only approximate an intelligent answer by saying from three to four dollars per head, at this time of the year. I may say in reference to the adaptation of Kansas, to sheep husbandry that the State is eminently adapted to the business. The mild climate, the absence of deep snows in winter, the general dryness of the climate, resembling in this respect the great sheep ranges of Arizona and New Mexico, and with perhaps less snow than either of them, which is of itself an important consideration; while the dryness of the climate affords perfect immunity from the foot-rot, the great scourge of the States East of the Mis-

The scab though a more formidable disease, s contracted only by contact, is dangerous only in shiftless hands, and yields readily to proper treatment.

Rye is the very best winter feed; with it they will keep fat, shear heavy fleeces and maintain perfect health, though the flock should be bought to it by degrees until they get used to this succulent food. There is not much difference between millet and hungarian, provided they are sown thick enough. Sheep are very fond of either and will eat that best which is the finest. Oats cut early are also a most excellent feed for a change; feed in the straw. Corn in the shock is also good; prairie hay does very well but should be cut early. Turnips or any kind of roots are very beneficial, especially in the absence of rye. Upland or bluffs, or as we commonly find it in Kansas alternating between narrow valleys, bluffs and slopes, seem best adapted to sheep raising.

I have kept sheep in the the States of New York, Michigan and Iowa, and I find Kansas a much better State for the business than either of the above named ones. H. A. S. Pavilion, Kansas.

TIME FOR COWS TO COME IN.

A cow that drops her calf in April is of more profit than one that comes in early in the year, with same care and leed. If your cows drop their calves in February, or the first part of March, you'will have to feed laregly with grain roots, etc., the rest of the feeding season, and you will make an article of butter which must be sold immediately, as you cannot keep spring butter, nor can you make as cheaply with the mercury at zero or below, as when 30 deg. to 60 deg. above. By the first of June, whether you have fed extra or not, your cows will fall off in quantity and quality of milk, and you have a small yield of buttering through the best of the season; when if they had come in six or eight weeks later, they would have gone out to grass heavy and strong, and capable of giving the largest quantity and the best quality of butter.

By the first of October your cows will be nearly or quite dry; when, if they had dropped their calves in April, you would have found that October was the most profitable month of the season. And further, you will find this month and the next the best to feed grain to cows.

All cows in a herd should drop their calves

All cows in a herd should drop their calves as near the same time as possible. If one should drop her calfaster you have commenced to pack and put away butter, do not put her milk with the rest for two weeks or more, as it is impossible to keep butter made from it, and it will damage the rest. This is one very common source of an occasional bad tub of butter
—Montpelier (Vt.) Watchman.

DEATH OF RYSDYK'S HAMBLETONIAN.

Rysdyk's world renowned stallion Hamble-tonian died at Chester, Orange county, early yesterday morning. The horse was about thirty years of age. He was the sire of Mr Bon-ner's king of the turf, Dexter, and many other noted trotting horses of the country. The in-come from Hambletonian was over \$10,000 a year. It is said that at one time \$100,000 was offered for the horse. He was bought about twenty-seven years ago for \$150, from the See-ley family, at Sugar Loaf, Orange county. Before Mr. Rysdyk's death, he selected a place where the old horse was to be horied in

place where the old horse was to be buried in a fenced-in lot, with an appropriate headstone He left a clause in his will, that under no He left a clause in his will, that under no circumstances should the horse's remains be mutilated after death. Two offers were made yesterday, one of \$500 and one of \$1,000, for Hambletonian's hide, for the purpose of preserving the horse in his natural shape; but the offer was refused by the Rysdyk family. The grave was dug yesterday afternoon, and the grave was dug yesterday afternoon, and the famous horse is to be buried with honors

HOG MANAGEMENT.—A correspondent, writing from Hillboro, Ill., sends the following suggestion to the Stock Journal as to the management of hogs: Hog cholers is caused mainly by indigestion, and can be more easily prevented than cured. Ringing and cutting the noses of hogs, thus preventing them from rooting for the tonics that they need to give to tone to the stomach, is one of the most prolific

Patrons of Husbandry.

The Patrons' Hand Book, which is mailed to any post office in the United States and Canada for 25 cts., is acknowledged to contain more practical grange information than any book yet published. Examine the testimony of the officers of State Granges all over the United States.

The use in subordinate granges of the sett of receipt and order books issued at this office will prevent confusion and mixing of accounts; they are invaluable in keeping the money matters of a grange straight.

The three books are sent, postage paid, to any grange, for \$1.50.

CONSTITUTION AND BY-LAWS, PATRONS AGENCY OF SHAWNEE COUNTY.

CONSTITUTION:

NAME.
SECTION 1. This Association shall be known as the "Patrons' Commercial Agency of Shaw-nee County, Kansas."

OBJECT

OBJECT
SEC. 2. The object of this Association shall be the storage, shipment and disposal of agricultural products; the furnishing of farm machinery, tools, seeds, and other household supplies, by means of warehouses, stores, or otherwise; and from the profit arising therefrom, to accumulate capital for individual members. members.

members.

CAPITAL STOCK.

SEC. 3. The present capital stock of this Association shall be \$500.000, divided into shares of \$5.each, with an additional authorized capital of \$49.500, divided into shares of five dollars each, any portion of which may be issued at some future time by a vote of the Directors.

MEMBERSHIP. MEMBERSHIP.

SEC. 4. Any subordinate grange or any per-son who is a member of the Order of "Patrons of Husbandry," in good and regular standing, may become a member of this Association, by signing the Constitution, and paying the sum of one dollar, for each share subscribed at the

of one dollar, for each share subscribed at the time of joining, and one dollar for every share each successive month thereafter, until the price of every share is paid up.

DECEASE OF MEMBERS.

SEC. 5. Upon the decease of any member, the Directors may repay to the legal representatives of such deceased member all the capital owned by such member at the time of his decease, together with all arrears of interest and dividends of profits within six months after his decease. his decease.

DISTRIBUTION OF PROFITS.

SEC. 6. A balancing of accounts shall take place four times per annum, on the last Saturday of December, March, June and September. And the profits as ascertained on balancing the books shall be distributed as follows: Each shareholder shall receive interest at the rate of 10 nears the country of the profits shareholder shall receive interest at the rate of 10 per cent per annum on all stock fully paid up at the beginning of the quarter; and the remainder shall be divided equally between the purchasers of goods from the Association in proportion to the amount of goods purchased: Provided, that the profits belonging to stockholders or to purchasers shall not be paid over until the amount standing to each share or to each purchaser shall gound the share or to each purchaser shall equal the sum of one dollar and shall have stood to the credit of such shareholder or purchaser for a period of three months next, succeeding any quarterly settlement.

APPORTIONMENT OF LOSSES.

APPORTIONMENT OF LOSSES.

SEC. 7. 16, on balancing the books losses shall appear to have occurred, it shall be charged to all of the shareholders equally in proportion to the shares they own, and if any such charge shall make the balance standing to the credit of any shareholder less than the amount of his cartiel stack he shall common wouthly now. capital stock, he shall commence monthly pay-ments thereon, in the same manner as a new member, and shall continue them until the balance to his credit shall equal the amount of his original capital stock: Provided always, that no member of this agency shall ever be held for any losses that may occur, to more than double the amount of the capital stock

he holds.

he holds.

RIGHT OF VOTING.

SEC. 8. Each shareholder shall be entitled to one vote for each share of capital stock owned up to twenty, but no one stockholder shall have more than twenty votes, by reason of owning more than twenty shares of stock, and each shareholder shall vote in person, and where a subordinate grange is a shareholder, it shall vote through its authorized agent. it shall vote through its authorized agent, who may also sign Constitution as per Sec-PLACE OF BUSINESS.

SEC. 9. The principal office of this agency nall be conducted at Topeka, in the County of

Shawnee, in the State of Kansas.

MEETING OF STOCKHOLDERS.

SEC. 10. There shall be four regular meet ings of stockholders in each year on the first Saturday of January, April, July and October. And an annual election of officers shall be had And an annual election of officers shall be had at the October meeting, but they shall not come into power until the first Saturday of January following their election. All elections to be by ballot, and officers to hold their office for one year, and until their successors are duly elected and qualified.

SEC. 11. The officers of this agency shall consist of a President, Vice-President, Secretary, Treasurer and Auditor; and these five persons shall constitute a Board of Directors, who shall have the general management of the affairs of the agency for one year; and

who shall have the general management of the affairs of the agency for one year; and shall be entitled to such compensation for their services, as the stockholders shall, from time to time, allow. And the Secretary and Tressurer shall give bonds for the faithful performance of duty, and accounting for all money coming into their hands, in such sums as the Board of Directors, at their first meet-ing in January, shall direct, the securities to be approved by the President, Vice-President and Auditor.

and Auditor.

DUTIES OF OFFICERS.—PRESIDENT

SEC. 12. It shall be the duty of the President to preside at all stockholders' meetings, and at the Directors' meetings; and to bring before these meetings, matters that he deems of importance to the best interests of the agency, and to see that all business at these meetings is transacted in regular order, and according to the rules and regulations of the agency.

It shall be the duty of the Vice-President to perform the duties of the President in his absence. VICE PRESIDENT.

the funds on the order of the President, countersigned by the Secretary, and to make out a monthly statement to the Board of Directors of his transactions and a quarterly statement to the stockholders, at their regular quarterly meetings.

AUDITOR.

It shall be the duty of the Auditor to receive and audit all bills and accounts against the agency, and report the same to the Board of

SEC. 13. The legal signature of this agency, shall consist of that of the President in his official capacity,—or, in his absence, that of the Vice-President, countersigned by the Secretary in either case, and attested by the seal of the agency. AMENDMENTS.

SEC. 14. The Constitution of this agency may be altered or amended, by a vote of two-thirds of the stockholders present at any quarterly meeting.

> BY-LAWS: CASH BASIS.

NUMBER 1. All business of this agency shall be conducted upon a strictly cash basis, and no officer or employee, shall be authorized to contract any debt, or dispose of goods upon credit.

DIRECTORS' MEETINGS.

No. 2. The Board of Directors shall hold a regular meeting, on the first Saturday of each month,—any three of whom may constitute a quorum for doing business.

AGENTS, CLERKS, ETC. No. 3. The Board of Directors shall have power to appoint all agents, clerks, or ether employees, needed in carrying on the business of this agency, and for good cause shown, to discharge them, and fix the salary of the same.

RIGHT OF VOTING.

No. 4. Any member failing to make monthly payments on stock subscribed as required by section four of Constitution shall not be entitled to vote at stockholders' meetings and shall receive no part of the profits that may accrue to members, while in arrears on such payments. No member shall be entitled to vote, after first election, unless the owner, at least, of one full paid up share for a period of thirty days prior to an election,

TRANSFERS. All transfers of stock must be noted upon the books of this agency before the same are valid, and can be made only to some grange or patron.

FIRST ELECTION, -INCORPORATION. No. 6. The first election of a Board of Di-No. 5. The first election of a Board of Directors, shall be had whenever there shall be one hundred or more shares subscribed by, at least, ten stockholders; and the first Board of Directors shall take proper steps to have this agency duly incorporated. VACANCIES.

No. 7. Any vacancy that may occur in the Board of Directors, shall be filled at the uext regular or special meeting of the stockholders. OFFICERS TO QUALIFY.

No. 8. The Board of Directors, before enter-ing upon their duties, shall take an oath, faithfully to discharge the duties of their

office.

No. 9. Special meetings of stockholders may be called by the Directors, by giving two weeks' notice to secretary of different granges in the county; but no business shall be transacted only such as specified in the call. Nine members representing one-fourth of the stock subscribed, shall constitute a quorum for doing business at all stockholders' meetings.

No. 10. The official seal of this agency shall be such as may be adopted by the Board of Directors, and it shall be used to authenticate all documents in such manner as said Board may direct. No. 11.

That the order of business at all stockholders' meetings, shall be as follows:

1st. Communications from the President.
2d. Reports from Board of Directors.
3d. Reports of Commitees.
4th. Election of officers.

bers present.

5th. Miscellaneous business.
No. 12. These By-Laws may be amended or repealed at any regular or special meetings of stockholders' by a two-third vote of members areas.

EDITOR FARMER .- Our Grange request that you publish this list of officers, in your

widely circulated paper. The following is a list of the officers in

Fairview Grange, No. 914, Marshall Co., Kan. Samuel Meredith, Master; Wm. Life, Overseer; Wm. F. Meredith, Lecturer; Robert Crane, Chapalin; Jacob Beveridge, Steward;

- Kenney, Assistant Steward; D. Q. Millet, Treasurer; H. C. H. Wilson, Secretary Smith Martin, Gate Keeper; H. Meredith, Ceres; Julia E. Life, Flora; S. Crane, L. A. Stewardess; Mrs. Life, Pomona.

Our Grange is alive and up with the times. Co-operation is the topic of conversation among the Patrons of Marshall county, and all seem anxious to push it right shead. We are all working hard for the Order. Our Grange has had already, this year, seventeen new applications for memberships. We meet every Saturday night. H. C. H. WILSON, Sec'y.

Our exchanges, from all parts of Kansas, chronicle the most encouraging prospects for this year's crop. It is estimated that the growing wheat crop will be by many hundred thousands of bushels, the largest ever raised in the State.

Every Grange should have a library. If each member of a Grange, having, say 50 members, buys one book to read, and then pass round, that Grange will have at once a library of 50 books. By consulting with each other before buying, a great variety of works could be obtained, and we are confident that the study of fifty well-selected books will, not only make the members of that Grange wiser and better men, but will confer practical benefits on them of which they have no conception.—Patrons Gazette. Gazette.

An exchange says, "there are fifty-one Granges in Indiana which have saved their members on an average of \$578,50 to each stockholders and Directors, countersign all orders drawn upon the Treasurer, receive all money paid into the agency, and deposit the same with the Treasurer, and take his receipt therefor.

TREASURER.

It shall be the duty of the Treasurer to receive and carefully preserve all money and valuable papers of the agency, and to pay out members themselves."

An exchange says, "there are fifty-one Granges in Indiana which have saved their members on an average of \$578,50 to each Grange, and eighty-five others \$407,25 to a Grange on an average, by making their purchases direct of manufacturers. Here we have a saving of \$71,191,25 by only 136 of the 1,991 Granges in the State. We have no reliable information from the other 1,857 Granges, but it is fair to presume that all of them have made large savings by direct dealing, and the whole amount would doubtless astonish the members themselves."

WESTERN GUN WORKS.

RIFLES, GUNS, CARTRIDGES, CUTLERY, &C. Full Size of the New "BUFFALO BILL" With 100 Cartridges only



We are selling thousands. Sample, including 100 Cartridges, sent on receipt of DU

2000 Testimonials like the following on file at our Office: The patents on the principal Revolvers having expired, we avail ourselves of the opportunity thus offered to introduce our New "BUFFALO BILL," which upplies the long-felt demand for a low-priced Revolver. It is light, and especially adapted for carrying in the pocket. Weight 8 oz.

We call attention to the following notices from the Chicago daily and other papers, selected from hundreds of notices and testimonials on file at our office:

For Accuracy, Cheapness, Durability and Rapid Firing, the "Buffalo Bill" Revolver surpassos anything we over saw. It is manufactured by the Western Gun Vorks, of this city. There must necessarily be a large demand for a Revolver embracing so many excellent points. The ordinary cartridge, same as required for the Smith & Wesson, Colits, and other papers, seeech and the price of the state of the price of the state of the price of the seed of the papers of a high-prical town to the papers of a high-prical town were tracked and fills the place of a high-prical town to track the price of the price, and the place of a high-prical town track a gold mine in their new low-priced Revolver, the "Buffalo Bill." It supplies a long-law of the place of a high-prical town to track a gold mine in their new low-priced Revolver, the "Buffalo Bill." It supplies a long-law of the place of a high-prical town to the price, only 125.0, is marvelously low for this supplied weapon. The theorem of the price, and the price of the price, and the price, a

CHARLESTOWN FOUR CORNERS, N. Y., Sept. 24th, 1875.—Western Gun Works, Gentlemen: Received "Buffalo Bill" Revolver all right, and for shooting it will just plumba cent at 25 yards everytime. Was more than pleased. Yours truly, GEO. WOOD.

SEXTONVILLE, Wis., Sept. 18th, 1875.—Gentlemen: The "Buffalo Bill" Revolver received. It shoots better than any \$5 revolver I ever bought. Will you send one dozen C. O. D. ? Yours, &c., H. Palmer, Dealer in Firearms.

FREDERICK, O., Sept. 18.—To Western Gun Works; Revolver rec'd. It is just as represented. Inclosed please find \$2.50 for another. Yours, J. R. WOLF.

We make a Specialty of our

"Buffalo Bill" Revolver,

Represented in the above engraving,

Every Revolver Warranted, and Satisfaction Guaranteed. Address all orders to
WESTERN GUN WORKS, 69 Dearborn St. (McCormick Block), CHICAGO, ILLINOIS.

ADVERTISEMENTS.

In answering an Advertisement found in these columns, you will confer a favor by s you saw it in the KANSAS FARMER.

If you feel dull, drowsy, debilitated, have frequent headache, mouth tastes badly, poor appetite, and tongue coated, you are suffering from torpid liver or biliousness, and nothing will cure you so speedly and permanently as to



Ask therecovered dyspeptics, billous sufferers, vic-tims of fever and ague, the mercurial diseased patient, how they recovered health, cheerful spirits and good appetite—they will tell you by taking

appetite—they will tell you by taking

Dr.Simmons'Liver Regulator or Medicine
Extractof a letter from Hon. Alexander H. Stephens,
dated March 8, 1872: "1 occasionally use, when my
condition requires it, Dr. Simmons' Liver Regulator,
with good effect. It is mild, and suits me better than
more active remedies."

AN EFFICACIOUS REMEDY —"I can recommend
as an efficacious remedy for disease of the Liver, Heartburn and Dyspeppia, Simmons' Liver Regulator."—
Lewis G. Wunder, 1625 Master street, chief clerk,
Philadelphia Postoffice.

${f Important}_{:}{f Grangers}$ AND ALL CONSUMERS.

Harper Bros.,

Wholesale Grocers. 44 State Street, Chicago, Ill., Make a specialty of supplying Granges and Clubs with Teas, Coffees, Spices, Fruits and General Groceries in any desired quantities at WHOLESALE PRICES. (25) Circulars, with 'ull explanations and price-lists, are now ready, and w.ll be sent to any person requesting the same.

ing the same.

STOVER PATENT FENCE BARB

THE CHEAPEST AND BEST. Awarded the First Premium at the Illinois State Fair, 1875.

the Illinois State Fair, 1875.

These barbs are made of the best quality of annealed Iron, and weigh about 210 to the pound, and when once attached to the wire, it is impossible to elide them together or bend them over, having five times the strength of any other barb. These advantages will be appreciated by parties using other barbs attached to a single wire.

One man can readily "barb" 150 to 200 rods of old or new wire per day, after the fence is built, using a light hammer instead of pincers.

We warrant these barbs to give entire satisfaction, or refund the money.

Price of Barbs per Pound.

Ask your flardware Dealer for them.

For samples and further information address

ENDSLEY & DEVORE, Freeport, Ill.



A Family Knitting Machine. Now attracting universal attention by its astonish-ing performances and its great practical value for ev-stry day family use. It knits almost every possible variety of plain or fancy work

With Almost Magical Speed, and gives perfect shape and finis to all garments. IT WILL KNIT A PAIR OF SOCKS IN FIFTEEN MINUTES! Every machine Warranted perfect, and to do just what is represented.

A complete instruction book accompanies each machine.

chine.

No. 1 Family Machine, 2 cylinder, 61 & 72 needles, \$30 No. 3 " 3" 64, 72 & 100 " \$40 A sample machine will be sent to any part of the United States or Canada, (Where we have no agent), express charges pres paid, on receipt of the price.

AGENTS wanted in every State, County, City and Town, to whom very liberal discounts will be made.

Address, BICKFORD KNITTING MACHINE MY'G CO... Sole Manufacturers, BRATTLEBORO, VT.

\$25 2 \$50 PER DAY

Well**A**uger



WE MEAN IT!

And are prepared to demonstrate the fact OUR AUGERS are operated entirely by folics POWER, and will bore at the rate of 20 FEET PER HOUR. They bore

3 TO 6 FEET IN DIAMETER. And ANY DEPTH REQUIRED. They will

lll kinds of Earth, Soft Sand and Limestone, Bituminous Stone Coal, Niste and Hardpan

And we MAKE the BEST of WELLS in QUICKSAND.

GOOD ACTIVE AGENTS Wanted in every State and County in the United States. Send for our Illustrated Catalogue, terms, prices, &c., proving our advertisements bons fide. Address

Great western well auger co. BLOOMFIELD, DAVIS CO., IOWA.

State in what paper you saw this adver-tisement.

CHEAPEST

PRINTING HOUSE JOBIN KANSAS.

The old KANSAS MAGAZINE JOB OFFICE, for the past year under the management of the under-signed at the Kansas Farmer office, has been remov-ed to the old location, 175 Kansas Ave., Topeka, Kan. Posters, Hand Bills, Dodgers,

Letter Heads, Bill Heads, Note Heads, Circulars, Statements, Notes, Drafts, Checks, Business, Wedding and Visiting Cards, Envelopes, Shipping Bills, Tags, Briefs, etc. etc., etcented in the best style, and at lower prices than any other first-class printing house in haness. Send all orders for Printing to the KANSAS MAGAZINE BOOK AND JOB OFFICE, Topeka, Kan.

FRANK A. ROOT, Prop'r. Patrons of Husbandry

The State of Kansas!



Your State Agent has made arrangements whereon the celebrated Jones' Scales, officially adopted as the

Patrons' Scale,

can now be bought, delivered freight paid to Kansas City, at the same discounts as made to the members of our Order in the East. Apply to State Agent for Free Price List of Scales of every size, or to

JONES, Of Binghamton, New York.

MONEY to LOAN!

GAVITT & SCOTT,

TOPEKA, KANSAS.

MONEY always on hand for Loans in amounts of \$250 to \$10,000, from one to five years, on first mortgage upon farms and good city property in the State of Kansas.

State of Kansas,
Partice writing to us will save time and expense by
sending an accurate description of their property. If
farm, give number of acres, amount fenced and cultivated, amount of orchard. State whether bottom or
prairie land. Describe the buildings, and give the
present cash value of the property.

Address, GAVITT & SCOTT,
Topeks, Kansas.

If you are going to buy a Sulky Plow this season, don't fail to see the "Garden City" Sulky and Gang, which are the only plows in the world that are thrown out of the ground by a brake on the wheel. They are also self-leveling.

Send for our 64 page pamphlet, which we furnish ree, containing valuable Tables, Recipes, Postal Rates, Calendars, &., &c. Also a full description of our "Garden City" Clipper Plows, Cultivators, Rakes, Harrows, &c.

FURST & BRADLEY M'F'G CO. 57 to 63 N. Desplaines St., Chicago; Ill.

BURKHARDT & OSWALD, Manufacturers of HARNESS, SADDLES, COLLARS,



PRIDLES, HALTERS, WHIPS, etc. This establishment is one of the oldest in the State. Good work for reasonable prices. Prices sent by mail to persons living at a distance.

BURBHARDT & OS WALD,
155 Kansas Avenue, Topoka, Kansas.



PAOLI'S ELECTRO-VOLTAIC CHAIN BELT

Registered 1874.

Gives a continuous current of electricity around the body (no shocks) and cures all dise ases arising from Loss of Vital (no shocks) and cures all dise ases arising from Loss of Vital (no shocks) and Subject of Postal (no shocks) and Subject of

y what paper, and address,
PAOLI BELT CO., 12 Union Squa:--, New York.

Beware of Baseless Imitations. Paoli's the only genuine patented Belt in the United States.

NURSERY STOCK,

Fifty Thousand Apple Trees, Peach, Pear, Cher-ry, Plum Trees, Grape Vines, Raspherries, Blackherries, Strawberries. Evergreens,

Ornamental Trees, and Shrubbery. The entire stock on the grounds of Fruitland Nursery, The

Two miles Southeast of the State House, Will be Closed Out

this spring. Call at the grounds, or address ANDREW STARK, Topeka, Kan. CHICAGO SCALE CO.





All other sizes at great reduction. All scales war-nasted. Full particulars upon application. 30 days' trial allowed parties who can give good references.

The Kansas Farmer.

J. K. HUBSON, Editor & Proprietor, Topeka, Kan

To Adversisers.

To Advertisers.

To Advertisers will find the Kanass Fa.
or reference at the Advertising Agencies of
Chandler Lord & Co., Chicago:
Rowell & Chesman, St. Louis, Mo.;
E. N. Freshman & Bros, Cancinati
Geo. F. Rowell & Co., New York;
Bates & Locke O. New York;
N. S. D. Carlton, New York;
N. S. D. Carlton, New York;
S. M. Pettengill & Co., Boston;
T. C. Evans, Boston;
N. W. Aver & Son, Mondach, M.

ble and satisfactory results. The FARMER is the medium for this interchange of opinion and the presentation of their practical expe-Every farmer by adding the results of his labor to the common fund may thus cause others to avoid expensive failures. The work of this journal is to collect from all sources the best information and present it to the readers who may, can and do profit by the failures and successes of others thus given We urge our readers to send us this kind of information upon every subject entering into the profit and loss accounts of the farmer : I think hedge rows should be well ridged up, especially on upland, for the double purpose of preventing the plants from being washed out and furnishing a deeper soil for them to grow in. The plants should be graded before being set-that is, the large plants and the small ones should be put in each by themselves, as the larger ones invariably make the strongest growth and choke out the small ones when planted indiscriminately, thus pre venting a uniform stand. Probably the best way to plant is with a plow. Make a deep furrow and lay the plants against the landside, hoe dirt enough on them to cover the roots and tramp it down, then throw the ballance on with the plow, being careful to leave them about two inches deeper than when taken up, as the ground will settle about that much. It is generally believed, by men of experience, that the plants set one foot apart will make a fence quicker than when set closer, as the growing plants then do not crowd each other, and consequently make a more uniform stand. A small stirring plow is the best thing to tend hedge with, plowing shallow.and throwing the dirt from the row the first round, then plow deep and throw it back the next round, after which a large plow and two horses may be used. The last furrow should be six or eight feet from the hedge, to keep it from being washed out by the heavy

I think that many farmers make a great mistake in cutting their hedges year after year. It should be allowed to grow as tall and straight as possible for the first five or six years, or until as large at the base as a man's arm, then trim the side only, and cut about every fourth plant off, three and a half feet from the ground, hack the others close to the

THE TOPEKA SWINDLE

Thieving Made Respectable

The lottery gambling institution located in Topeka, known as the TOPEKA LIBRARY AID ASSOCATION have as nearly made thieving respectable as any concern we have ever known. They continue to rob people of other States to enrich a gambling, lazy crew in Topeka, which has closed the mouths of the people of this community by their assumptions of eminent respectability. Hired lackies, travel the streets traducing the characters of persons who have had the courage to denounce this swindle. Every newspaper that can be bought, (and, thank God! there are very few in Kansas that are so lost to every feeling of self respect, as to sell their good names to aid in robbing people,) are paid to publish falsehood and misrepresentation in support of this nefarious nest of thieves. Hundreds of thousands of lying circulars from this lottery, are sent throughout the country advertising the capital city of Kansas, as the home of lottery swindlers. The contagion of getting money without honestly earning it, is spreading, and unless a public sentiment is created that will put a stop to this respectable gambling, Kansas with its past uneviable notority, will be known as having became interested in a new branch of villainy.

That was a good idea of the Colorado breeder who compared a sheep to the Govern-ment bond, from which the owner could clip his coupon (fieece), leaving the principle to gather interest for another year. The com-parison will hold good of no other animal.

THE RESPONSIBILITY OF A PUBLISHER. Much has been said and written regardng the responsibility of a publisher. We desire to say in this connection, that while it is impossible for a publisher to become responsible for every advertiser who appears in his columns, we do, however, exercise over the columns, of the FARMER the greatest care to prevent our space being used to defraud our readers. It is our aim to make these columns a business directory of honorable, fair dealing business houses valuable to our readers and further, that their appearance in the FARMER may almost be taken as a guarantee of their reliability. It is due to the readers as well as the honorable advertisers, that humbugs of all kinds be excluded. This requires from the pub-

lose reliability and value to honest advertisers as well as to the readers. We assume that the publisher who knowingly admits acknowledging a package of reading matter what he believes to be schemes for swindling sent to the prisoners says: The prisoners aphis readers, becomes himself a party to the preclate such kindness much more than I can swindle.

The advertising columns of a paper represent, in some degree, the character of the fully selected library and reading matter of a journal, and the publisher who assumes that general healthy character. his journal is simply a bill board,open alike to the use of swindlers as well as legitimate, honest advertisers, destroys in a very great of reading matter men have, does much to degree the value of his paper as an adverdeducate them, whether in prison or out. tising medium.

Minor Mention.

A SAD EXTREMITY.—We learn that the Democrat of this place, is issueing supplements to the paper that are not given to the readers, but filled with the advertising of the lottery gamblers of this city and are used by them outside of the State to help swindle people out of money. We are certainly sorry to learn that Mr. Peacock is forced to become a partner with these thieves to sustain his paper. It must certainly be a source of humiliation to the publishers of the Democrat to be driven to this sad extremity, knowing as we do from them.

LESSONS IN ENTOMOLOGY.

At the request of teachers and others, Mr. this sad extremity, knowing as we do from them that they look upon this lottery as a swindle.

W. W. CAMPBELL & BRO. - This firm has bee W. W. CAMPBELL & BRO.—This firm has been established for years at Topeka, as the largest Agricultural implement house in the Capital city. All the newest and best implements manufactured are for sale by Messrs. Campbell. They are offering their implements at very low rates and making unusually large sales. Their large trade has been built up by strict personal attention to business and fair dealing. This firm is handling farm and garden seeds in bulk and by the package. air dealing. This firm is handling eeds in bulk and by the package.

SALE OF SHORT-HORN CATTLE.—Attention is called to the advertisement of McHardy & Co., of Emporia, Kansas, who will offer a very superior lot of Short-Horn cattle and Berkshire pigs, at public sale May 31st, 1876. This will be the second important Short-Horn stock sale in Kansas, the first, being that of Mr Wilson's some two or three years since.

The demand for good stock is increasing. Young herds of Short-Horns are being made up and farm-ers are securing throughbred males, with which to improve their stock. The profit in this course is proven in every stock market in the country. Mr.

We have made arrangements to publish an proven in every stock market in the country. Mr. McHardy has had long, practical experience in handling and breeding Short-Horn cattle and his selections are made with a view to meet the demand of the West for well bred, vigorous animals, than for gilt edged, fancy families: The very liberal terms offered by Mr: McHardy, will no doubt bring together a large number of our breeders. er a large number of our breeders.

The State Board of Railroad Assessors met at from the ground, hack the others close to the ground and weave around these. This makes a fence that is compact, uniform and strong, and if not an extremely poor stand, will be pig tight, with proper care in shaping.

I have seen a great deal of hedge, in various stages of its growth, in Illinois, and this is the only way I have ever known it to be successful as a fence against plgs.

The State Board of Railroad Assessors met at Topeka, and the following figures were agreed upon:

M. R., F. S. a G., \$9,090.13 per mile; L., L. a G., 6,383.45; M., K. a T., 7, 252.20; K. P., 9,333.04; A., T. a S. F., 8,316.70; Midland, 7,227.65; Wichita a S. W., 8,403.80; M. G. Niver, 10,082.66; Fort Leavenworth, 7,500; L. A. a N. W., 9,743.48; A. a N., 6,104.38; St. Joe. a Denver, 5,569.69; St. J. a Topeka, 3,000; St. L., L. a W., 3,593.98; J. C. a Ft. K., 5,170.09, Ft. S., S. E. a M., 4,073.08; M. C. a N. W., 5,264.30; Kan. Central, 8,817.26; Clathe a Othawa, 6,246.31; South'n Kan., 6,019.67; Central Branch, 6,108.23. In addition to these Central Branch, 5,108.25. In addition to these amounts, the side tracks are to be added. They Last year it amounted to \$12,272,000

> REDUCTION IN PRICE.-Mr. Reuben P. Reed of Polo, Illinois, has this week, reduced very much, the price of his potatoes.

> CARTER AND ESTABROOK of Emporia, are offering an immense supply of Sweet Potato Plants at reasonable rates. The firm is a reliable one.

SWEET POTATOES are offered at very low rates by Williamson Bros, of Kansas City, Mo. This firm has built up a fine trade by honorable dealing. They have handled the Sweet Potato crop for years and what they offer will be as represented. We are personally acquainted with the firm and know them to be true.

THE STATE INSTITUTE for the second judicial district will be held at Wamego, Pottawatomie county on the 16, 17, 18, and 19 of May. The State superintendent wishes conference with the county superintendent of the third district on the 19th, the last day of the Institute. All teachers and educators are respectfully urged to make the session profitable to themselves. By order of,

JOHN FRAZIER, State Sup't Pub. Inst. Per UNA HEBRON, Sup't Shawnee county.

PREMIUM PICTURES.—In reply to numerous en-quiries as to whether the "Three Graces," adver-tised by the National Art Association of Cincinnati, tised by the National Art Association of Cincinnati, Ohio, will be sent as represented, we would say that we are assured by thoroughly responsible parties that the National Art Company do honestly fulfil the promises made in their advertisement.

TO GRANGES.—We have a full set of new and very finely finished Jewels and Working Tools which are offered for the very low price of \$8,00.
Address J. G. OTIS,
TOPEKA, Kan. Patrons' Com. Agency.
The above will be delivered at the Express office upon receipt of price.

upon receipt of price.

THE NEW AMERICAN SEWING MACHINE. After using one of the above excellent machines our family for two years, during which time it has never required repairs of any kind, and been constantly used to do all kinds of sewing required for a family, our "better half" pronounces it perfection. The machines are extensively quired for a family, our cest is perfection. The machines are extensively purchased by farmers through Grange Agencies and are giving entire satisfaction. Mr. Otis of Topeka, Kansas, is Agent for Kansas and is offering such inducements in price on this excellent machine as to enable every family to get one. Send for his price list.

A LITHOGRAPH script letter is circulating through the mails accompanied by an advertisement of the Wyoming Lottery. The letter opens with the old swindling dodge: "We take the liberty of sending you a grand scheme of the Wyoming Monthly and Extraordinary, Lotter, which dows monthly and How to Plant a hedge.

We have given, from week to week, the methods of planting hedges as practiced among our best growers. We find the following from Mr. Whacker, in the Walnut Valley Times. The only possible manner by which farmers may arrive at the best methods of culture in a new and untried country, is by comparing notes giving their experience. Thus we slowly progress towards the most profits—the advertising space, the columns sconble and satisfactory results. The Farmer is

A Call For Reading Matter.-Major Hopkins our efficient Warden of the Penitentiary, in express to you in words at this time. Much of our good discipline depends on having a care-

We pay considerable attention to a constant and careful distribution of our library books and general reading matter. The character

There are thousands of magazines and book in our State which have become old, are laid aside by many families that would be of value in our library and of incalculable benefit to those confined here."

At the request of teachers and others, Mr Edwin A. Popence has undertaken the instruction of a class in this city, in practical entomo logy. Mr. Popence is the accredited entomologist of the Kansas State Board of Agris culture and is acknowledged to be one of the best informed on this subject of our Western naturalists. The new school law gives a premium of an additional year's certificate to those teachers who shall qualify themselves to teach some of those branches of education having special relation to the practical demands of agriculture and other industrial pursuits. Many teachers are entering upon the study of these new branches, of which entomology is one. Hence the organization of Mr. Popence's class, which met Saturday afternoon last, at Pond's Business College, and will

spring. We have made arrangements to publish an outline of this course of instruction, and it will appear weekly in the FARMER. This will enable such of our readers as have not an opportunity for personal instruction to take up the subject and pursue the study with some degree of success; though we would, by all means advise those who can to avail themselves of the advantage of Mr. Popence's inatructions

STATE HISTORICAL SOCIETY.

Kansas has organized a Historical Society The following from their circular gives the objects in view

embody, arrange and preserve a library of books, pamphlets, maps, charts, manuscripts, papers, paintings, statuary and other materials Central Branch, and are amounts, the side tracks are to be added. They papers, paintings, statuary and other materials are assessed as returned by the companies, and are credited to the cities and towns where they are situated. The buildings are also to be taxed in their of the State; to rescue from oblivion the localities, and not to be equalized over the line. The localities, and not to be equalized over the line. The and preserve narratives of their exploits, perils, hardy adventures, and patriotic achievements; to exhibit faithfully the past and present condition and resources of Kansss, and to take proper steps to promote the study of history, by lectures and other means, for the diffusion of information relative to the history and resources of the State."

The officers of the society are: Chief Jus-Centennial Commissioners for Canada have selected the Excelsior Entrance Gate, to be placed at the entrance of their space on Centennial ground at Philadelphia. See Mr. Rix's offer of farm rights.

There has been marked improvement in the KANSAS FARMER since the first of January. It one is of the best agricultural papers in the Union.—Blue Rapids Times.

TEXAS.—A correspondent travelling in Texas writes to the Wyandotte Gazette concerning Texas, as follows:

Cultivated farms are worth from ten to thirty dollars per acre—uncultivated from a dollar and a half to ten dollars. There is still considerable school land vacant in this county, and a good deal that is good. Water is excellent, something that cannot be said of the whole State. It can be procured by digging from fifteen to thirty feet. There is a good supply of stock water throughout the county

there being several living streams.

Education is yery well advanced, considering the showing it has had, the appropriations only admitting of four months of free school in the year. This was a matter of vast importance, in framing the new constitution last winter, and one of the things that received the least attention. Until Texas inaugurates a liberat free school system she cannot expect to build up with that class of people who believe in education. This section of the State though, seems to be determined to advanced in educational facilities. inaries. There has been a high school in pro gress at Decatur, the county seat of Wise county, during the last winter. I hope this matter of schools may take deeper root in the minds of the people of Texas, and cause them to work more diligently for their welfare in this direction.

The winter wheat in this county is in just as good condition as it possibly could be. Farmers are anticipating even a larger yield this year than last. The blades stand knee high in many fields, the ground being com-pletely covered. Should we have a large yield this season our farmers will put in a hundred thousand acres next fall .- Walnut Valley Times.

Blue grass is looking up, and those who have been doubtful on the subject need have no farther fears, but what this is destined to be a junior Kentucky blue grass country. Mr A. Stump sowed some last spring, and could see no traces of it until this, and now it is coming on finely. The experience of Mr. L. Thomas, is further and better. He sowed two years ago, and thought the seed had died, but this spring it is coming up nicely. Those who have had experience elsewhere say that it will lay on the ground a long time and then take root. In Cowley county there is an 80 acre field that went through the severe drouth of '74 unharmed. It can be sown most any time of the year, but fall and winter are agreed to be best .- independence Kansan.

During the grasshopper invasion and drouth infliction, our farmers were compelled to borrow money and to procure the necessaries of life by a system of credits, and our unprecedented crop of last fall has not been sufficient to remove the financial pressure from their concerns; but with another such crop the coming season, and everything portends even a better one, we may hope to see their debts entirely removed and their coffers filled, and then we may expect the elation of business and the reign of a continuous prosperity.—

Linn Co. Observer.

The broom corn crop of Marshall County is looming up more important with each succeeding year. This year John D. Wells puts in 300 acres, Wm. Wells 75 acres, W. H. Sabins, and others greater or less amounts. The expense of raising an acre is about twenty dollars. Three acres give a ton of broom-corn, and it is not affected by drouth, as other crops are. By the way, Marshall county is manufacturing no small number of brooms at present. Sabins, Hunt, and Emmingham all have establishments in this rays of the county is have establishments in this part of the county. The Weston brothers are manufacturing ty. The Weston brothers are manufacturing for the St. Louis market, at Frankfort. How many other factories are in progress in the county we know not.—Blue Rapids Times.

GRANGE STORE.—The county council, P. of H., met at their hall in this city last Teusday, and we understand steps were taken to open a grange store in Garnett. A joint stock company, with a capital of \$10,000, was organized, a store room was rented, and managers, to run the store, selected. The building decided upon was the one next West of Kolb's bakery, and the gentlemen who will officiate as massive the country of the co and the gentlemen who will officiate as mas-ters of ceremonies are Messrs. Row and Kau-

We will endeavor to post our readers as to the progress of the work thus begun; and extend to the new establishment our best wishes for its success .- Garnett Plaindealer.

The South Kansas Tribune speaking of the The South Kansas Tribune speaking of the yields of wheat in Wilson County names the following; L. Shadley, an average of 30 bushels; R. C. Beathe, 34 bushels; Ira Gilworth, 34; S. Duncan, 36 on 25 acres; D. W. French, 32; Samuel Walker, 37. Ir. McTaggart, on 140 acres, 20 bushels; A. Callison, on 100 acres, 31 bushels; and B. Murphy, on 25 acres, fifty-four bushels per acre. Besides, about twenty other farmers who have raised from 35 to 47 bushels per acre whose names we have not at bushels per acre whose names we have not at

The Leavenworth Times says: The lead in that portion of the State is running high, and there is now a fair probability that the new discoveries will be the means of attractnew discoveries will be the means of attracting a large immigration to that part of Kansas during the coming year. The lead is very pure, and is found in almost inexhaustible quantities. Those who contemplate a trip to the Black Hills had much better turn their attention to Baxter Springs. The lead is a sure thing, and doesn't endanger your scalp.

Immigration is liveller than for two years.

Scarcely a day passes but from one to a down.

Scarcely a day passes but from one to a dozen "The object of the society will be to collect, of them stop in Osborne, and some push farmbody, arrange and preserve a library of ther on towards the border of civilization, and settle in Rooks county .- Osborne Co. Far

MILL REPORTS.

From Miami County.

April 20.—We are selling at this date, flour \$1.50@3.50 per cwt. Bolted corn meal sacked 80c per cwt. Middlings 70c per cwt. Bran 40c per cwt. Several csr loads of No. 3 and 4 wheat wanted, worth \$1.05@\$1.35 per bushel. Crops look O. K. Peaches hurt, corn 38c, oats 30c, potatoes 15c.

J. W. SPONABLE.

From Delta County, Texas.

This is a good place for a cotton and gin mill, and a good place for machine shops. If you see any person in search of such a place, send them to Charleston, Delts county, Texas, and they can be suited. Wheat is late but looks well as we have had no winter as yet to hurt. Land is from 2 to ten dollars per acre. J. B. SIMPSON.

From Summer County.

Col. St. Clair, of Sumner county, who so ably col. St. Ciair, or Summer county, who so any represented his county in the Senate, called at the FARMER office to say that the people of the South west were in the most jubilant spirits, anticipating a heavy crop. He states that two hundred families have settled in Sumthat two hundred families have settled in Sum-ner county since the middle of February of this year, and that they have now in fine con-dition double the acreage of winter wheat harvested last year, that sales of the present orop are being made at the machine at 75 cents per bushel. He expresses the opinion that the county will have nearly a million bushels of wheat to sell this year. Col. St. Clair states that there is a very large area of raw prairie wheat to sell this year. Col. St. Clair states that there is a very large area of raw prairie being broken this spring, which will be sown to wheat this fall. He says what the people very much need is a railroad down the Arkanthe promises made in their advertisement.

THE KANSAS ADVERTISER.—The Kansas Advertiser is published by J.P. Ennis & Co., of Topeka, Kansas. It is finely printed [and full of more than ordinary valuable matter. It will be found of intersection of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. This section of the State though, seems to be determined to advanced in education. The section of the State though, seems to be determined to advanced in education. The section of the State though, seems to be determined to advanced in education. The section of the State though, seems to be determined to advanced in education.

From Greenwood County.

Winter wheat looks splendid, farmers are at work sowing oats, and making gardens, the late rains have put things in splendid shape. Stock fat. Farm horses and work stock in tip top order, best for three years. Streams have all been on a spree. Peaches three-fourths killed and the other one-fourth I think will fall, some trees that I cut back last season will average half a crop or more. Granges are reviving up and look more cheerful, we are getting rid of the D. B's. A. V. CHAPMAN. Eurcka, April 1876.

WHEAT .- If present appearances are to be re-WHEAT.—If present appearances are to be relied upon, the wheat crop of Elk County the present reason will be something wonderful. Last year on an average of twenty bushels to the acre the aggregate yield was 123,650 bushels. This year the acreage is at least three times what it was last, and the yield per acre will no doubt be ten bushels higher, which will give us 556,380 bushels. Couting our population at 8,000 and allowing twelve bushels of wheat to each individual we will have left for sale 460,000 bushels of wheat. This crop would be worth to the county at a low estimate \$100,000more if there was a railroad running through the county to worth to the county at a low estimate \$100,000more in there was a railroad running through the county to carry it away. This being the case it is a little surprising at any one can be found in the county insane enough not to do anything in reason to secure railroad facilities. Of coarse the shipping of the wheat crop is only one item in hundreds where in the railwould benefit the counte.—Elk Co.. Ledger.

From Montgomery County.

We are having a great deal of rain this spring, so much so that plowing is much delayed. Wheat looking well. Apple and cherry crop promise well but peaches are killed. Wheat is selling for \$1.15. but peaches are killed. Wheat is sening for \$1.15, corn \$2c, oats \$2oc, butter 15c, eggs 9c per dozen and other produce in proportion. Horses 75 to 15o dollars, cows and calves \$2o to 35 dollars, hogs scarce. Grange store is gaining ground and we believe it will prove a good thing for the farmers at large. N. Will son.

From Wabaunsee County.

April 25.—Fall and spring grain looking well, prospects promise an abundant harvest. Stock mostly living on the prairie. About 2 inches of rainfall last week, with heavy winds. Market dull, wheat none, oats 25c, corn 25c, barley 40c, potatoes 25c, butter 15c, eggs 10c per dozen. Since the rain last night I have noticed young grasshoppers pretty thick, they seem to be in spots.

A. N. G.

Mc.Lennon County, Texas,

April 22.—Wheat looking well in this section, some complaint of the rust. Corn growing finely. nearly all the farmers done planting both corn and cotton. Gardens doing well. All kinds of live stock doing well. Cattle fat enough for the market, grazing excellent, as fine as I ever saw at this season of the year. Money very scarce here. Farmers all very hard at work seem to be better pleased with very hard at work, seem to be better pleased with their vocation than in former years, and have deter-mined to keep out of debt. The grange has done a great and good work here. E. P. RINO.

The great Rocky Mountain Resorts.
beyond comparison. Hot Sulphur, Soda, and other Springs, and Baths. Snow-capmed mountains, cloudless skies. The cli-The great Rocky Mountain Resorts. Grand mate a sure cure for Asthma. Those predisposed to pulmonary affections are restor-ed to health. The route is by the Kansas

Pacific Railway from Kansas City to Denver. Send to Beverley R. Keim, General Pas-senger Agent Kansas City, for descriptive pamphlets.

MONEY! MONEY!!

If you wish to borrow money upon Real Estate, and get your money without sending paper East, and at reasonable rates, go to the KANSAS LOAN AND TRUST CO. Topeka

Market Review.

Wholesale cash prices from con WHEAT—Per bu. spring
Fall No. 1
... No. 2
... No. 3
... CORN—Per bu. Mixed
... White
... Yellow
OATS—Per bu.
BYE—Per bu.
BYE—Per bu. Selling RYE—Per bu.
BARLEY—Per bu.
FLOUR—Per 100 lbs.
No. 2.
No. 3.
Buckwheat. Topeka Produce Market. Grocers retail price list, corrected weekly by.
Country produce quoted at buying prices.
APPLES—Per bu
BEANS—Per bu—White Navy
Medium
Common
Castor
BESSWAX—Per lb
BUTTER—Per lb—Choice
Medium BRESWAX—Perlb
BUTTER—Per lb—Ohoice.

Medium
CHESES—Per doz—Fresh
HOMINY—Per bbl.
VINEGAR—Per gal.
POTATOES—Per bu.
POULTRY—Chickens, Live, per doz.
Chickens, Dressed, per lb.
Turkeys,
BACON—Per lb—Shoulders
Clear Sides.
Hams, Sugar Cured.
Breakfast.
LARD—Per lb
CABBAGE—Per doz
ONIONS—Per bu
SEEDS—Per bu—Hemp
Millet.
Blue Grass.
Timothy, prime
Onion Setts, per bu.
Rutabagas—Per bu.
Rutabagas—Per bu.
Rutabagas—Per bu.
Hubbard Squash. 11@15

KANSAR CITY, April 26, 1876 GRAIN.

The fellowing are wholesale cash prices from commis-sion men. The fellowing are windowate Gasa pusion men.

WHEAT—Per bu—Spring Red.
Fall, No. 4.
Fall, No. 2.

CURN—Per bu—New White.
Shelled.

OATS—New per bu
RYE—New per bu—No. 2.
BARLEY—Per bu—No. 8.
BUCKWHEAT—Per bu.
PRODUCE. 1.85 .30@34 .35@.36 .26@ 28 .53@56 40 60 .40@45 PRODUCE.
POTATOES—Per bu.
ONIONS—Per bu.
APPLES—Per bbl.
BEESWAX—Per lb
BUTTER—Per lb—Choice. BRESWAX—Per 1b.
BUTTER—Per lb—Choice.
CHERSE—Per lb.
CIDER—Per bbl.
EGGS—Per doz—Fresh
Lard.
TALLOW
FRATHERS—Per lb—Mixed.
Prime Live Geose
FLOUR—Per cwt—Rye.
XXX
XXXX
BUCKWHEAT FLOUR—Per cwt.
Kiln dried, per bbl.

in ri

"A Square Meal."

e are sure our readers will thank us for calling their attention to the the very hand-some advertisement of the Excelsior Manufac-turing Co., of St. Lou's, as it would be useless for us to try to say anything in favor of their great CHARTER OAK COOKING STOVE

The very word suggests the thought of a well cooked meal followed by easy digestion vigorous health. and a desire to have and to do plenty of real work, to say nothing of the comfort of a happy, contented household.

Mechanicaville Sale.

One of the most important sales to our Iowa farmers and breeders, is the sale at Mechan-icsville, Iowa, on the 26th of April, by our friends, Burleigh, Pieper, Bunker, McCroske, They are all well known and reliable breed

ers and offer to the people of Iowa on the above day and place, one of the most useful and valuable herds that has ever been sold in the State. Farmers as well as breeders will miss a grand chance if they miss this sale.

Particulars as to terms, etc., has been given in these columns. S-nd for catalogues, and be sure and

"A DROP OF JOY IN EVERY WORD"
FLEMINGTON, Hunterdon Co., N. J., June 26, 1874. Dr.R. V. PIERCE, Buffalo, N. Y: Dear Sir—It is with a happy heart that I pen these lines to acknowledge that you and your Golden Medical Discovery and Purgative Pellets are blessings to, the world. These medicines cannot be too highly praised, for they have almost brought me out of the grave. Three months ago I was broken out with large ulcers and sores on my body, limbs and face. I pro-"A DROP OF JOY IN EVERY WORD" and sores on my body, limbs and face. I pro-cured your Golden Medical Discovery and Pur-gative Pellets, and have taken six bottles, and to-day I am in good health, all those ugly ulcers having healed and lett my skin in a natural, healthy condition. I thought at one time I could

healthy condition. I thought at one time I could not be cured. Although I can but poorly express my gratitude to you, yet there is a drop of joy in every word I write. God's blessing rest on you and your wonderful medicines is the humble prayer of Yours truly,

JAMES O BELLIS.

When a medicine will promptly cure such terrible eating ulcers and free the blood of the virulent poison causing them, who can longer doubt its wonderful virules? Dr Pierce, however, does not wish to place his Golden Medical Discovery in the catalogue of quack patent nostrums by recommending it to cure every disease, nor does he so recommend it; but he does claim is this, that th re is but one form of blood disease that it will not cure, and that disease is cancer. He does not recommend his Discovery for that disease, yet he knows it to be the most searching blood cleanser discovered, and that it will free the blood and system of all other known blood poisons, be they animal, vegetable or mineral. The Golden Discovery is varranted by him to cure the worst forms of Skin Diseases, as all forms of blotches, Piniples and Eruptions, also all Glandules Swellings, and the worst form of of blotches, Pinnples and Eruptions, also all Glandular Swellings, and the worst form of Scrofulous and Ulcerated Sores of Neck, Legs or other parts, and all Scrotulous Diseases of the Bones, as White Swellings, Fever Sores, In Joint and Spinal Diseases, all of which belong to Scrofulous Diseases. long to Scrofulous Diseases.

SUPERIOR articles in universal request are always counterfeited, and the pirates of trade, who pick up a living by depredating upon the rights of others, are constantly trying to cheat the public by substituting, imitating and fal-sifying Simmon's Liver Regulator; but beware! take none except under our copyrighted, engraved label, with seal, signature and stamp of J. H. Zeilin & Co.

Coughs and Colds are often overlooked.—A continuance for any length of time causes irritation of the Lungs or some chronic Throat Disease. "Brown's Bronchial Troches" are an effectual COUGH REMEDY.

No Family should purchase a WASHING MACHINE without first sending for an Illustra-led Circular of THE PATRON WASHER to THE STAR Co., ERIE, PA

Arkansas Cityites are exercising their masticating powers on new potatoes.

ADVERTISEMENTS.

Our readers, in replying to advertisements, in their letters to advertisers that they saw this advertisement in the Kansa- Parmer.

1000 SOLD LAST SEASON WITHOUT ONE FAILURE OR REJECTION

This is the famous Threshing machine that has swept the field "and created such a revolution in the trade, by its MATCHLESS GRAIN-SAVING AND TIME-SAVING principles.



THE ENORMOUS WASTAGE of grain, so inevitable with other styles of Threshers, can be SAVED by this Improved Machine, sufficient, on every job, to more than pay all expenses of threshing.

pay all expenses of threshing.

FLAX, TIMOTIY, MILLET, HUNGARIAN and like seeds are threshed, eparated, cleaned and saved as easily and perfectly as Wheat, Gats, Rye or Barley.

AN ENTRA PRICE is usually paid for grain and seeds cleaned by this machine, for extra cleanlinese.

IN THE WET GRAIN of 1875, these were substantially the ONLY MACHINES that could run with profit a comony, doing fast, thorough and perfect work, then others utterly failed.

ALL GRAIN FAST.

ALL GRAIN, TIME and MONEY wasting complica-tions, such as "Endless Aprons," "Raddles," "Beaters," "Pickers," etc., are entirely dispensed with; less than one-half the usual Gears, Belts, Boxes, and Journals; easier managed; more durable; light running; no cost-ly repairs; no dust; no "litterings" to clean up; not troubled by adverse winds, rain or storms.

FOUR SIZES made for 6, 8, 10 and 12 Horse Powers, Also a specialty of the Horse Style of the Horse Style of the Horse Style of the Horse Style of the Horse Horse doing their work.

FOUR SIZES made for 6, 8, 10 and 12 Horse Powers, Also a specialty of SEPARATORS, designed and made EXPRESILY FOR STEAM POWERS, VIZ. OUR INTERPRESILE OF HORSE POWERS, VIZ. OUR IMPROVED HORSE FOUR STYLES OF HORSE POWERS, VIZ. OUR IMPROVED HORSE FOR HORSE FOR THE STYLE OF HORSE POWERS, VIZ. OUR IMPROVED HORSE FOR HORSE FOR THE STYLE OF THE STYL

Nichols, Shepard & Co., BATTLE CREEK, MICH. 21,880

MILES OF



SOLD DURING THE YEAR 1875. EEVRY STOVE IS

UNHESITATINGLY RECOMMENDED

WHEREVER USED OR SOLD

AS ABSOLUTELY WITHOUT a FAULT

OUR NEW SIZES Nos. 37, 38, 39, 47, 48 and 49, ARE A MARVELOUS COMBINATION OF

Convenience, Neatness,

& Economy, And all the essential points that go to make up the

Most Perfect Cooking Stove Ever offered to the public.

MADE ONLY BY EXCELSIOR MANUFACTURING CO.

Nos. 612, 614, 616 and 618 N. Main St., ST. LOUIS, MISSOURI.

Sold by A. W. KNOWLES & Co., TOPEKA, KAN.

Important for the Ladies! THE undersigned is offering all the latest and tylish lines of

MILLINERY, Including a large variety of

Spring and Summer Hats & Bonnets, Spring and Summer and Sa Dumets,
From \$1,50 to \$15,00, trimmed. Without trimming
from 50 cents to \$4,00 Ruches are and ten cents and
upwards. The latest ties for 20, 25, 30, 35, 40, and 50
cents each, the most elegant for \$1,50. Flowers 10, 15,
and 20 cents to \$3,50 cach, all the newest summer
goods. Turquoise Silks are offered at \$1,00 per yard.
No. 9, G. G. Ribbons at 23 cents per yard, No. 12 at 374,
cents per yard and other goods at like figures.

My stock of Ladies Millinery is very fall and complete and are offered at the lowest rates.

Parties at a distance ordering goods will receive
prompt attention. Address

MRS. E. C. METCALF,
TOPEKA, KAN.

Public Sale

Short-Horn Cattle

Berkshire Hogs,

At the Emporia Fair Grounds, LYON COUNTY, KANSAS.

ON WEDNESDAY, MAY 31st, 1876. SALE TO COMMENCE PROMPTLY AT ONE O'CLOCK, P.M. The sale will consist of 45 head of Short-horns, 15 Young Bulls old enough for service, 30 Cows and Heifers, and 20 Berkshire Hoes.

20 Berkshire Hogs.

The subscriber feels warranted in saying that this herd is second to but few for individual merit, the herd is second to but few for individual merit, the animals were all bred by reliable breeders and recorded, so as to the purity of their breeding there can be no question. The animals of this herd were selected with a view to supply the wants of the practical farmer: having only purchased such animals that have acquired a reputation for sometinational vigor, and they have become noted for their fine beef and milk producing qualities. The cows and helfers have been bred to such noted bulls as the 18th Duke of Airdue, 2nd Duke, 19th Duke of Goodness, Clifton Duke, 2nd D

F. McHARDY, Emporia, Kan. TRIMS.—A liberal credit will be given on half the amount, payable the first of December and the balance the first of April, interest 10 per cent, six per cent discount for cash. Endorsed notes or satisfactory reference. This sale will be conducted under the rules of the Short-Horn Breeders' Association. Each and every animal sold without reserve or by bid.

F. McHARDY & Co.

SAVE MONEY Why pay double prices. You sold the property of the

A BOON to STOCKMEN is DANA'S new EAR-MARKING PUNCH, LABELS and REGISTERS. Bizes suited to Cattle, Hogs and Sheep. Send stamp for samples. Agents wanted. Manufactured exclusively by the patentee, C. H. DANA, West Lebanon, New Hampshire.

PLANTS!!

Stock Increased! Prices Reduced!

1,200,000 SWEET POTATO PLANTS.
1,00,000 CABBAGE, TOMATO and TOBACCO
PLANTS, for sale.
Having increased our sprouting capacity to one million square feet of surface: furnishing our own seed; and making special rates with the transportation companies, we feel confident of furnishing plants at as low, or lower prices, than any other parties in the State.
For varieties and prices send to
CARTER & ESTABROOK,
Growers of Sweet Potatoes and Plants.
Emporia, Kansas.

Agricultural Implements. W. W. CAMPBELL & BRO., TOPEKA, KANSAS.

We sell Advance, Eagle, Weir, Peerless and I. X. L. Cultivators. Buckeye, Champion and Wood's Reapers and Mowers. Wood's Harvester and Binder. Gilpin, Pioneerand Pearl Sulky Piows, and Decre's Gang Piow. MITCHELL and KANSAS WAGONS.

Quincy and Hoosier Corn Planters. Eagle and Coate's Sulky Rakes. Moline Plows and Nebraska Breakers. J. I. Case and Champion Thresbers. Dickey Fauning Mill. Woolridge Roller, Planet Garden Drill, Steel Goods, Nails, Bolts, Wagon Wood Work, etc. The Best Assortment of Seeds, in bulk, West of the Mississippi river.

We will guarantee Grange prices on all the above for cash. Call and see the goods and verify the facts.

W. W. CAMPBELL & BRO., 1

TOPEKA, KANSAS.

Visiting Cards, with your name finely printed, sent for toc. We have 100 styles. Agents Wanted. 9 samples sent for stamp. A. H. FULLER, & Co., Brockton, Mass.

TO AGENTS. For the hest Books, best offered and most MONEY, Address AUBURN PUBLISHING COMPANY, AUBURN, N. Y.

ADVERTISING IN Religious & Agricultural WEEKLIES,

HALF-PRICE

ON THE LIST PLAN.
For information, address
GEO. P. ROWELL, & Co., 41 Park Row,
NEW YORK.

SWEET POTATO PLANTS | IM MENSE STOCK, at prices that dely competition. Price list free.
B. A. R. EHL, Alton, Ill. Hedge Plants for Sale.

The undersigned offers first class Hedge Plants for sale, two miles South-west of Topeka.

H. W. CURTIS, Topeka, Kansas.

Sweet Potatoes Down.

We have a few bushels left, which we will close out at \$3,50 per barrel.

WILLIAMSON BROS..

Kansas C-ty, Mo.

100 FARMERS WANTED During the winter, to engage with us in business, paying 100 BOLLAR's per month. For full particulars, address J. C. McCurdy & Co., St. Louis, Mo.

\$42 AWEEK.—Agents wanted. Business permanent. No soliciting required. For further particulars address J. KENNEDY & CO., Richmond, Ind.

PARMELEE & HAYWOOD,

REAL ESTATE AND FINANCIAL BROKERS, Farms, Lands and other Real Estate Bought, Sold and Exchanged for other froperty, on Commission. Persons contemplating coming West, or parties in this State who wish to SELL or Buy Real Estate, should send for the "Investor's Guide." Sample free. Address PARMELEE & HAYWOOD.

NATIONAL LOAN & TRUST CO. Topeka, Kansas.

Loans negociated on improved property, County, Township and School Bonds: also, County and Township Warrants, bought and sold.

Correspondence solicited from parties desiring to invest large or small amounts of money eafely, to net 10 to 12 per cent per annum.

G. F. PARMELEE, Vice Pres't. CENTENNIAL



Struck in solid Albata Plate, equal in appearance wear and color to

SOLID SILVER OR COLD, Presenting a variety of beautiful Designs in Relief

These Medallions are larger than a Silver Trade Dollar, being 1% inch. in diameter, handsomely put up and sell readily at sight.

up and selt readily at sight.

The most valuable Souvenirs and Memotos ever issued.

GOOD AGENTS WANTED in every City and Town in the U.S. and Canada. to whom exclusive territory will be given, if desired.

RETAIL PRICES.—For the Albata Silver, 50 cents. Gilt, \$1, in fancy hox Usual discount to the Trade.

A complete outfit of magnificent samples for agents, in satin or velvet-lined morocco case, containing Six Medals, different designs, one gilt, suitable for Jewelers, show windows, etc., sent on receipt of draft or Post-office Order for \$4, or will ship Express C.O.D.

Descriptive Circular Proc List and one sample sent upon receipt of 50 cents, immense profits. Sells at sight. Correspondence solicited. Information free, Extensive fields for enterprise. Address all communications.

U. S. MEDALLION CO., Broadway, P. O. Box 5270.

CURE YOUR LEAKY ROOFS, SHINGLE, TIN OR IRON.

LANGLEY'S PATENT SLATE PAINT "WILL DO IT."

It makes new or old shingle roofs fire and water Send for pamphlet, free. Send for pamphlet, free.
WILLIS G JACKSON, 169 Washington St.,
Chicago.



Lever Seal, Standard Design, 83.
To arder, under Seal of Grance, I will send a set for examination.
JAS. MURDOCK, JR.
165 Raco St., Cincoinstat, O.
Sead for Price List and Hunt'd Catalogue

DEERE, MANSUR &



Kansas City and St. Louis, Mo., BRANCH HOUSES OF DEERE & CO., MOLINE, ILLINOIS.

Deere' Gang & 'Gilpin' Sulky Plows,

Advance and Peerless Cultivators, Climax Corn Planter,

Hoosier Corn Drill, Woolridge Field Roller, Thomas' Smoothing Harrow,

And other First-class Farm Machinery. ALL GOODS WARRANTED. FARMERS WRITE TO US FOR CIRCULARS.

Sweet Potatoes, Hedge Plants, and Nursery Stock, FOR SALE BY WM. DAVIS,

Wholesale and Retail Dealers in Seeds, Implements and Hardware, 508 and 510 Delaware Street, LEAVENWORTH, KANSAS. A No. 1, Hedge Plants. I have decided to sell my hest assorted Hedge Plants, at \$2,09 per thousand special prices given on large GEO. P. ALLEN, Leavenworth, Kansas.

Price, Twenty-Five Cents.

NEWSPAPER

ONE HUNDRED AND FOURTH EDITION. ONE HUNDRED AND FOURTH EDITION.
Containing a complete list of all the towns in the United States, the Territories and the Dominton of Canada, having a population greater than 5,000 according to the last census, togother with the nemes of the Lowepapers having the largest local circulation in each of the places named. Also, a catalogue of newspapers which are recommended to advertisers as giving greatest value in proportion to prices charged. Also, all newspapers in the United States and Canada printing over 5,600 copies each issue. Also, all the Religious, Agricultural, Scientific and Mechanical, Medical, Masonic, Juvenile, Educational, Commercial, Insurance, Real Estate, Law, Sporting, Musical, Fashion, and other special class journals, very complete lists.—Together with a complete list of over 300 German papers printed in the United States. Also, an essay upon advertising; many tables of rates, showing the cost of advertising in various newspapers, and everything which a beginner in advertising would like to know.

Address GEO. P. ROWELL & CO.,

41 Park Row, New York.

Allen's Planet Jr. SILVER

Dexter Park May Series. TWO PUBLIC SALES

SHORT HORN CATTLE DEXTER PARK (Stock Yards), CHICAGO.

FRIDAY, MAY 26th.

THE SUBSCRIBER announces that he has been retained to make Public Sales at the time and place above mentioned, of the "Woodlawn Herd" of Hon. W. B. Bodge, of Waukegan, Ibs., and also a joint dark from the herds of Hon. Wn. Smith, Lexington, be will be held in the forenoon, commencing at it clock, sharp. Messrs. Smith's and Jones' sale will held in the afternoon, commencing at i o'clock.

MR. DODGE'S OFFERINGS

embrace about sixty head, nearly all females, young and thrifty, and in calt to high-freet hulls. Among them are Princesses, Rose of Shurons, Miss Wileys, Gwynnes, Viciorias, Minas, Lady Chesterfords, Oxford Lasses, Madonnas, Paneys, a Townely littlerfly, a Louan, and other standard sorts, many of them with good Bates tops. Also three imported cows, implaid of Honor, imp. Lady Gunter, and imp. Nectar,

MESSRS. SMITH & JONES' SALE messes. smith & Jones' sale includes about sixty head, mostly females in their prime, and in good breeding condition. Among them are Lady Belis, Gwynnes, Cypresses, Cambrias, Young Tryllies, Vanmeter Red. Roses and other Young Miss Wileys and London Dutchesses, descending a Miss Wileys and London Dutchesses, descending a Miss Wileys and London Dutchesses, descending a fine, Cleopatra by Pilot, imp. Donna Maria by Gledhow, imp. Easterday by Lord Marquis, and others equally well bred. They, will also sell Baron Bates 4th. a pure Bell-Bates, of the well-known Filbert or Fietcher tribe; and also 2d Barrl of Green Hill, a high-bred Princess bull.

TERISS.—Both sales will be made on a credit of six months, on approved notes, bearing interest at the part of six ner cent, per annum. A discount of five per cent. will be made for cash.

TERISS.—Both sales will be made on a credit of six months, on approved notes, bearing interest at the rate of six ner cent, per annum. A discount of five per cent. will be made for cash.

Monday, May 22, J. R. Shelly sells Short-horns at Auctioneer.

Monday, May 22, J. R. Shelly sells Short-horns at Freeport, Ills.; Tuesday, May 23, Hon. Sam. Dysart and Mr. Lahnansell Short-horns at Franklin Grove; Wed-Tranklin Grove; Wed-Tranklin Grove; Wed-Tranklin Grove; Ills.; Tuesday, May 23, Hon. Sam. Dysart and Mr. Lahnansell Short-horns at Franklin Grove; Wed-Tranklin Grove; Ills.; Tuesday, May 26, Hon. W. B. Dodge, in the forenoon, and Messers.

PRICES REDUCED!! Seed Sweet Potatoes!!

FOUR DOLLARS PER BARREL!

CARTER & ESTABROOK, EMPORIA, KANSAS.

St. Louis Veterinary College. (INCORPORATED, 1875.) No. 1114 LUCAS (CHRISTY) AVENUE.

Norman J. Colman, A. M. Britton, R. S. McDonald, Jas. M. Loring, Thos. Richeson. This institution is now open for the reception of students. Clinical Lectures and demonstrations being given throughout the spring and summer course.

The winter seesion will commence on the Second Monday in October.

The hospital in connection with the College is also open for the reception of patients.

For further information and particulars, address Drs. SWIFT & ORBETY, Surgeons in Charge.

New Varieties of Potatoes, Warranted Genuine-Buy direct of the

Grower. SNOW FLAKE, per peck, \$1,00; per half-bushci, \$1,50; per bushci, \$2,50; per barrei, \$5,00. Extra Early Vermont, per peck, 80 cents; per half-bushci, 50 cents; per bushci, \$1,00; per barrei, \$2,00. Compton's Surprise per peck, 30 cents; per half-bushci, 50 cents; per bushci, \$1,00; per barrei, \$2,00. Send orders to Send orders to REUBEN P. REED, Polo, Illinois.

Administrator's Notice. NOTICE is hereby given that the undersigned was on the 12th day of April, A.D. 1876, duly appointed by the Probate Court of Shawnee County, Kansas, Administrator of the Estate of James Moore, late of said county, deceased. All persons having claims against said estate will exhibit the same according to law.

HARVEY W. CURTIS,

Administrator of said Estate.

ECONOMY CORN CULTIVATION



THOMAS SMOOTHING Harrow

The best harrow for preparing the soil for grass or other veeds.

The best harrow for covering seed.

The best harrow for cultivating winter wheat in the spring, adding largely to the yield.

The best harrow for cultivating young corn or potatoes, as it thoroughly destroys the weeds.

The teeth being made of solid steel and slanting backwards, and thus never clogging, do not tear up corn or potato plants, but destroy all the light-rooted weeds

weeds
Every farmer should have it. Send for illustrated sircular to the manufacturer's southwestern agents, manulacturer's southwestern agents, COLMAN & CO., 612 North Fifth street, St. Louis, Mo.

PIANOS \$250

We offer extraordinary inducements—New Seven Octave full fron frame, overstrung bass Planos, with Rosewood case and carved legs, for \$250—Boxed and delivered at any R. R. Depot in Chiesgo—Terms of payment, \$25 cash, remainder \$15 monthly; or \$50 cash and \$25 quart-rly—Send for catalogue, with full explanation. FreeErres and \$10 monthly; or \$50 cash and \$10 monthly; or \$50 cash and \$10 monthly; or \$100 cash and \$25 quarterly—Send for catalogue with full explanation. EXERD'S TEMPLE OF MUSIC, 92 Van Buren St., Chicago. Cut this out and cuclore it in your letter. - Kansas

WOOLRIDGE'S PATENT Adjustable Land Roller,



Brown & Van Arsdale Mfg. Co., Every Farmer should have one.
The attention of Agricultural Implement Dealers respectfully solicited. Send for Circular.

Every one intending to spend money in Newspaper Advertising in the West and South should have it before making contracts. Full of valuable information and lists of papers. Sent free. Order it by postal card from

ROWELL & CHESMAN Agents, Agents, ST. LOUIS, MO.

STALLIONS

NORWOOD STOCK FARM, LAWRENCE, KANSAS.

Half-brother to Blackwood, record of 2,31 at three years old. Lulu record of 2,15 and the lastest three heats ever trotted. May Queen, with record of 2,20, will be allowed to erry a limited number of mare besides his owners.

TERMS—\$50 the season, with privilege of returning such mares next season as may fail to get in foal.

NORWOOD was got by Alexander Norman, is 16 hands high, weighs 1150 pounds, and was bred by Gano Hill, Bourbon County, Ky First dam by old Cockspur, second dam by Cherokee, third dam by Tiger Whip.

Manchester.

Manchester. MARICHOSTOR

By Mambrino, he by Marion and he by Clay's Mambrino Chief. First dam by Holi; second dam by Cockspur; third dam by Morris' Whip.

TERMS—\$20 the season.

JERSEYS.—Cows, Heifers and Bulls for sale, of the purest blood.

E. A. SMITH, Laurence.

Literary and Domestic.

EDITED BY MRS. M. W. HUDSON

SPRING FLOWERS.

Oh! dainty baby foresters That hide in silent nooks. That linger by the cow-paths, And peep into the brooks, To me you are the warders Of the realm of Long Ago, At whose soft beck unnui Like shadows come and go.

By mossy rocks and nodding ferns You lift your timid eyes,
And by the wounded maple tree
In smiling groups arise.
No more the shrieking winter winds
Affright the naked woods, But all the scented aisles are gay With Flora's dappled hoods

Though years have sped since first for me You made the meadows bright, And many a sunset-tinted dream Has faded into night, Still do I hail with boyish love The violets' sweet perfume

Still joy to see the crocus burst Like Lazurus from the tomb. I thrill to see the buds again

I thrill to see the buds again
Upon the apple tree,
Where every branch is eloquent
Of glories yet to be;
Where soon the winged Argonauts,
From lands beyond the main,
Will sing their merry love-songs,
And build their homes again. I trace the tints of deathless Hope

Sweet flowers, in all your beauty; You come as meek interpreters Of man's exalted duty. You whisper of a dawning heaven Beneath us as above, When earth shall melt with poetry, And man be full of love

MRS. GRANT'S REPUBLICAN COURT. We were very much surprised to see in a recent number of the Lawrence Sentinel a let ter from a correspondent, in which it was stat ed that Mrs. Congressman Brown, of Kansas had been refused admittance to an afternoon reception given by the President's wife, because she was not in "full dress." Her dress is described as a plain black silk, a costume which we had supposed was presentable on any occasion in this country, but now we are led to wonder whether since the revival of centennial styles, Mrs. Grant considers a bare neck and arms essential to a full dress.

What other exaction she can make in regard to a dress so universally worn, we cannot imagine, but shall be very happy, as we presume many of our readers will, to be enlightened by Mrs. Brown or some one else who knows; we all have some curosity concerning great people, and we have always given Mrs. Grant credit for a great deal too much good sense to permit of her committing such a piece of folly injustice; and to coroborate this opinion, we quote a letter from Mrs. Ex-Congressman Cobb, whom we know to be a true and most estimable woman, written in answer to the correspondent refered to above.

EDITOR SENTINEL: A paragraph in your substracticle last week headed "Ability to Dress Plainly" is so contrary to my experience that I cannot omit to notice the fact.

Yours, Mrs. S. A. Cobb. We have no acquaintance whatever with Mrs. Brown, but we feel sure she must have had cause for making such a representation to her friends, and even if it was the fault of a servant, as Mrs. Cobb charitably suggests, we feel that it is not excusable.

Servants in such high places should be instructed that such insults would not be tolerated by their employers, and we rather incline to think that a servant would not take such a liberty without some encouragement, however, for the sake of the honor of our President's wife, and for the sake of Republican consistency, as well as in justice to Mrs. Brown, we hope it will be shown that there was some mistake. We have been accustomed to look upon Kansas women as, as good as the best, and it hurts our State pride to have such an indignity cast upon one of them, and it must sadly wound the National pride of all true women, unless we can learn that Mrs. Grant is dinginess will disappear. not to blame for this rudeness to a representative's wife.

HINTS FOR YOUNG MOTHERS.

The three requisites for babies are plenty of sleep, plenty of food, plenty of fannel. The saying that man is a bundle of habits is as true of babies as it is of grown children. If an infant is accustomed from its birth to sleep from six o'clock at night till daylight, the habit of early sleep will be formed, and the mother may have her evenings to herselt. If the baby sleeps all night, a long morning nap will naturally come about dinner time, after which the child, except when very young, should be kept awake until six o'clock. Perseverance in this routine will soon result in securing quiet evenings for both child and parent. Some mothers have a long season severance in this routine will soon result in strubs as best of the hardy sorts for June on plants, is to make some moderately strong securing quiet evenings for both child and plants. Some mothers have a long season shrub, Crenate-leaved Deutzia, double flowers every morning and every night in getting the baby asleep. They rock them and sing them till Morpheus enfolds them. With most children this is entirely unnecessary. An infant add Purple and White Fringe.

can be accustomed, by a few days' training, to go to sleep itself for a morning nap, as well as for the longer rest at night. A mother has duties to herself as well as to her offspring. While she should exercise a constant care in securing its utmost physical comfort, she should secure rest and recreation for herself. In no other way can she keep fresh in feeling, buoyant in spirit. Nothing is so wearing as the unceasing tending of a fretful baby. Every means should be employed to aid the child in taking care of itself, and giving as little trouble as possible. It may learn in babyhood to amuse itself with toys, or by watching movements going on around it. Fashion as well as good sense, requires infants' dresses to be made with long sleeves and high in the neck. Fashion requires children of all ages to be warmly clad. Soft fiannel should encases the whole body except the head and hands. The frequent cause of colic in infants is the nakedness of their neck and arms. Regularity in feeding is as important as either of the other requisites. Babies cry as often from being overfed, or fed to frequently, as from thungary. Let the mother obey the diotates of common sense in this matter, and not force food into a baby's stomach for every little complaint it makes. Children three or four years old need much more sleep than they usually have. For irritable and nervous children sleep is a specific, and it can be secured to them only by force of habit. Many light its contained the rest of the complaint it makes. Children three or four years old need much more sleep than they usually have. For irritable and nervous children sleep is a specific, and it can be secured to them only by force of habit. Many light its most of the most of the most of the same to be making preparations for sowing time to be making preparations DISEASES AMONG SCHOOL CHILDREN.
The Philadelphia Reporter says that the Rhode Island Medical Society, at its late meeting, gave considerable attention to the causes of disease among children in public schools, and the members were generally agreed that it is due not so much to hard study as to bad ventilation and other causes, one shild in a uniform temperature, and in quiet.

Let young mothers experiment on these suggestions, and we are sure they will have many an hour in the nursery for reading and thought.

DISEASES AMONG SCHOOL CHILDREN.
The Philadelphia Reporter says that the Rhode Island Medical Society, at its late meeting, gave considerable attention to the causes of disease among children in public schools, and the members were generally agreed that it is due not so much to hard study as to bad ventilation and other causes, one of which is hereditary or acquired predisposition for disease; that normal activity of the brain is hell-with the properties of disease among children in public schools, and the members were generally agreed that it is due not so much to hard study as to bad ventilation and other causes, one of which is hereditary or acquired predisposition for disease; that normal activity of the brain is hell-with the best health of individual to be study in solutions.

bread which have been soaked in milk, and one egg; mix well together and bake in form. This makes an admirable tea or breakfast dish.

GRAHAM BREAD RECIPES.

When baking white bread, I use one coffecup full of the bread-sponge, then take half coffee-cup of molasses, fill it up with boiling water, add half teaspoon soda, and stir till it foams; add this to the sponge, and stir in Graham flour to make rather a stiff batter. Let it rise in a buttered basin or deep cake-tin. When light, bake in an oven about right for white bread. It is done when it will not stick to a straw.

Steamed Brown Bread.—Two cups cornmeal, one cup Graham, half cup molasses—sweet milk and water enough to make a rather stiff batter; a little sait, and a small teaspoon soda, pulverized and dissolved in the milk. Grease a tin pail, with tight fitting cover; pour in the batter, and set in a kettle with some boiling water in it; cover all tight (at in cover over the kettle with a flat iron on it answers nicely.) Let it steam two and half hours, and don't look in the pail to see it it is light, under one hour. Just before turning it out on a plate, take the cover off the pail, and let it stand in the oven a few minutes. With good butter this is very nice, and a slice of it with maple syrup makes a good desser.

Many housekeepers object to the use of soda or saleratus in bread preparations. I think a judicious use of it neutralizes the acid in molasses; or in sour milk will do no harm. It is the excess of it that produces the yellow abouninations that should never appear on a civilized table. As it requires so much judgment in the use of it, I am discarding it from recipes which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and which call for soda and cream of tatar, and call and the cover of the sound of the country, and don't could be such that the curve of and in t

ed table. As it requires so much judgment in the use of it, I am discarding it from recipes which call for sods and cream of tartar, and substituting baking-powder with good re-don't piling rocks, intermixed with soil in the soil in the soil of t

EDITOR SENTINEL: A paragraph in your article last week headed "Ability to Dress Plainly" is so contrary to my experience that I cannot omit to notice the fact.

I passed the two winters of my husband's term in Congress in Washington, and frequently attended Mrs. Grant's receptions. I always wore a plain heavy black silk dress to them, and the same to the President's receptions in the evening, with the addition of a sleeveless jacket of velvet. The rudeness Mrs. Brown received must have been without the knowledge of the President's wife. She is certainly a kind-hearted, thoughtful and noble woman, wholly above such littleness. I always found her pleasant and genial, with a kind word for all. If a servant was rude, as was doubtless the case, to Mrs. Brown, it was unauthorized. I feel that one placed as a she was doubtless the case, to Mrs. Brown, it was unauthorized. I feel that one placed as she has been for eight years, "in the fierce light that beats upon a throne," who has through all been a true woman, mother, and wife, and withal a model lady, is too dear to our womanhood to be sacrificed to the greed for social and woman be spared? Yours.

Mrs. S. A. Cobb.

Which call for sods and cream of tartar, and substituting baking-powder with good results. Graham flour in a basin; and take it for granted that all house, sale, and I take it for granted that all house, and the same to the President's receptors. I the president's receptors and the same of granted that all house, would soon completely cover and mar the effect one quart of Graham flour in a basin; add would soon completely cover and mar the effect would be such as my would soon completely cover and mar the effect of the rugged rock-work.

Went here is sufficient space—a little cave of a rustic seat. Such a sylvan retreat should be surrounded by trees and shrubbery allowed water, mixing them well. Stir these quickly in the interest of the rugged rock-work.

Sales Plain and the same to the President's receptors where the more in the baking-powder will do g Take a bit of butter on prove a most picturesque object. heating on the stove. Take a bit of butter on a knife and grease them quickly. If they are heated right the butter will "sizzle." Fill half-full of the batter, and bake in an oven almost hot enough to burn anything else up. If my oven is not hot enough on the bottom, I nail-full of the batter, and bake in an oven almost hot enough to burn anything else up. If my oven is not hot enough on the bottom, I put the pan up on the grate. By the time the tea is made, and baby in his chair, with clean face and bib, the muffins are done, and I hope they will be good. They certainly will be if the directions are followed. The pans can be filled again if there is any batter left. These are very good cold, and are healthful and economical, as no shortening or milk is re-

I have tried to write these directions plainly, and trust that I will not be judged tedious an

CLEANING PAINT.

Put a pint of warm water in a bowl and a tablespoonful of aqua ammonia. Keep the dish covered, and where it will be warm, and when you find a place that needs a little extra

eaten at improper times, in improper quanti-ties, or before it is ripened and is fit for the human stomach. A distinguished physician has said that if his patients would make a practice of eating a couple of good oranges, before breakfast from February till June, his practice would be gone. The principal evil is that we do not eat enough of fruit; that we injure its inner qualities with sugar. injure its finer qualities with sugar; that we drown them with cream. We need the medicinal action of the pure fruit acids in our systems, and their cooling, corrective influence.

The Rural Home recommends the following shrubs as best of the hardy sorts for June

against long hours of study, and finally adopted a resolution declaring "that the most prominent causes of ill health among pupils while attending school we must recognize the following: Attending balls and parties, sitting upper, salt and finely-choped onion, two slices of bread which have been soaked in milk, and one egg; mix well together and bake in form. will be generally indosed by medical men in all parts of the country, and we know that it expresses the views of our best teachers.

water-lilies are a lovely ornament; the edges covered with mossy rocks in the crevices of which Kenilworth Ivy, Tradescantias, Ferns, &c., are grown, likewise round or oval ponds of small size, in the center of which may be built a little island of rock-work, on which may be grown some of our pretty native water-plants, water-violets, (Hattonia-palustres); frog bit (Hydrochares moraus); flowering rush (Butonius umbellatus); and many others. Such shady nooks could be made into lovely gar-dens for wild plants.

Arbors too form beautiful and yet simple additions to a tasteful garden. A hollow trunk or tree stump, covered with an arbor of cedar posts and poles over-grown with vines. Over gates, simple trellises of laths or rustic arches of hickory when thickly covered with vines make natural arbors that are exceedingwhen you find a place that needs a little extra vines make natural arbors that are exceeding—"persuasion," wring out a soft cloth in the ambly lovely. These, and many other simple armonia water and wipe the stained spot, and you will be delighted to see how quickly the dinginess will disappear.

When Fruit does harm it is because it is eaten at improper times, in improper quanti-

Large Horticultural Premiums.—The Massachusetts Horticultural Society, notable for the wealth, as well as enthusiasm and intelligence of its members, will award \$6,800 in premiums, the present season. Of this amount, \$3,200 are for plants and flowers, and \$2,100 for fruit, \$1,200 for vegetables and the balance for gardens, green-houses and other specialities.

KEROSENE OIL FOR INSECTS .- A correspondent of the Gardner's Monthly says the simp-lest plan to use this substance to destroy insects on plants, is to make some moderately strong

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s not surpassed by any part of the Union. Abundance of good and cheap government, rail road and private lands. No land monopolies, as

n California. Variety of timber of exceptional excellence for

ndustrial purposes. Great mineral resources, especially coal, iron,

ead, gold and silver. Fine natural water system, vast water power. Good market for agricultural products, owing

o short transportation to the Pacific Ocean, and direct exportation to all parts of the world. Rail road facilities. Navigable rivers, including the great Culumbia.

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Seedlings, from 1 to 3 feet high, \$4 iper 100.
Sample of 50 to 10 eggs sent postage paid for 50 cts.
Eggs of Silk-Worms, \$6 au ounce.
A Treatise on Mulberry and Silk Culture, t0 cents, sent in advance.
Cuttings of Lhon Mulberry, 1 cent apiece; 80 cents per 100. But a rew for sale, just now. We will have plenty next year.

Address.

Williamsburg, Franklin Co., Kansas.

THE STRAY LIST

Strays for the Week Ending April 19th, 1876.

Wilson County-G. E. Butin, Clerk.

OW—Taken up by George Wilber of Centre Tp., March 1876, one red cow, (with young caif), has some white belly, tall and flank, supposed to be three years old spring, no brands or ear marks perceivable. Valued this spring, no brands of ear marks perceivable. Valued at 115; PERL—Taken up by Franklin Neff of Cedar Township, Feb. 21st, 1876, one red and white spotted Helfer, suppose to be twe years old last spring, crop and swallow fork in left ear, smooth crop off right, large white spet in forehead running down on the nose. Valued at \$10,00. STEER—Taken up by M. W. Craig, Verdigris Tp. Feb. 24, 1876, one two yr old steer, black and white pled, no marks or brands visible. Valued at \$18,00. STEER—Taken up by B. Eston of Needesha Tp. March 14, 1876, one white steer, two years old, crop and a half under crop in right ear. Valued at \$12,00.

Osage County-E. Spaulding, Clerk. Colf.—Taken up by James McNames, Burlingame 7
Dec. 15th, 1875, one yearling mare coit, light bay, w
white stripe in face, two white infine feet. Valued at \$20
HORSE—Taken up by J. W. Campbell, Burlingame 7
Eb. 14, 1876, one dark for brown bay hores, supposed to
10 or 12 years old star in forehead, saddle marks. Valuat \$15.00.

at \$15,00.

Johnson County—Jas. Martin, Clerk.

MARE—Taken up on Jan. 9th, 1876, by John Lord of Spring Hill City, one red roan mare pony, ball face, four white feat and legs, some white on her sides, supposed to be a Texas pony, shod on front feet, about ten years old. Valued at \$20,00.

STEER—Taken up, March 1st, 1876, by Florence McCarthy of McCamish Tp., one white yearling steer, both ears cropped. Valued at \$13,00.

Douglas County-T. B. Smith, Clerk. STEER-Taken up by Jacob Soxman, of Willow Springs March 22d, 1876, one steer, two years old, white roan, with red ears, also red on front part of legs. Valued at \$20,00

larch 22d, 15:0, one steer, was for legs. Valued at \$20,00.

Brown County—Henry Isely, Clerk.

COW—Taken up by John S. Tyler of Walnut Tp., Tyler
O. N., Nov. 18: 18:5, one red roan esw, some white in face
and under belly, about five years (id, no other marks or
rands describable. Valued at \$20,00.

COLT—Taken up by Jesse A. Variety of Padonia Tp.,
fan. 22, 18:6, one derfa bay marcholt, one year old past,
fath to white on left hind foot, about twelve hands high,
frim bullt. Valued at \$20,00.

COLT—Taken up by Jacob Hirkle, Lir., of Powhattan
Tp., Feb. 16, 18:6, one two year old dark bay horse colt,
with white face, left hind leg white bout half way to
gambrel joint, some white near think of on right fore leg.
Some white hairs at root of tail. Jailed at \$25,00.

Wyandott County—D. R. tomons, Clerk.

HEIFER—Taken up by G. W. W. Tr., Delaware Tp.,
March lith, 18:6, one dark red or brow
white spots. Valued at \$10.
STEER—One roan Steer, 3 years of
COW—Taken up by George Thirty
some cow, dark red, white helly,
about five or sky years old. Value
dark brown mare pony, some as
white spot in lorehead, eight year

MARE—Taken up by J. R. Pett
dark brown mare pony, some as
white spot in lorehead, eight year

MARE—Taken up by J. R. Pett
dark brown mare pony, some as
white spot in lorehead, eight year

MARE—Taken up by J. R. Pett
Mark and COLT—Taken up the same dark, with small
white spot in lorehead, eight year

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Mark and COLT—Taken up the same dark, with small
white spot in lorehead, eight year

MARE—Taken up by J. R. Pett
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white spot in lorehead, eight year

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white spot in lorehead, eight year

MARE—Taken up by J. R. Pett
Mark and COLT—Taken up the same dark brown mare pony, some same

Mark brown mare pony, some same

HORSE—Taken up by Jesse Pker, March 17, 1876, in swell Tp., one horse four years d, bay, about fourteer ands high, harness marks. Vall at \$15,00. Wabaunsee County-G. | Watson, Clerk.

wasaunsce County—G. ; Watson, Clerk.
PONY—Taken up by Gotlieb Pimeyer, Kaw Tp, March
6, 1876, one gray pony, ten years. ; Valued at \$12.

HEIFRH—Taken up by Dani McGonigai, Kaw Tp.,
March 23, 1876, one two year old-lifer, color rod, white
spot on flank, left car clipped, a right ear split. Valued
at \$14,00.

Bickinson County-M!. Jolley, Clerk. COW-Taken up by P. M. Scoins, Holland Tp., Jan. 24th, 1876, one dun cow, with whibelly, about six years old. Valued at \$12,00.

Jefferson County-D. Baker, Clerk. FILLY—Taken up by Ambroseeler of Kaw Tp., on-irk bay filly, two years old pashree white feet, white ripe in face down to nose. Vari at \$25,00.

Lyon County—J. Straig, Clerk.
STERE—Taken up by Henry Jbis, Pike Tp., Feb. 28
156, one texas iteer, red and 'we spotted, three yearold last spring, to marks or brankisible. Valued at \$20
PONY—Taker up by John Bul, Emporia Tp. Feb. 29
1576, one bay mare pony, about it years old, with white
spot or saddle mark on the lefte of its shoulder, with
a few white hair at root of tall valued at \$20,00.

Greenwool County-Wi. Reece, Clerk. Greenwool County—Wi. Recec, Cierk,
HORSE-Taken up by J. E. Cwell, Janeswille Tr, on
use out or April 1816, one sorrelyse, with a white stripe
down his face, darness and saddmarks, a natural pacer,
about 10 or 11 /ears old, 15 handgil. Valued at \$50,00.
FILLY—Also, a brown filly, 31rs old this spring, one
hind foot whise, and a white spot the forehead, had on a
headstall halfs with a strap art rope tied in the ring,
about 18½ hadds high. Valued \$30,00.

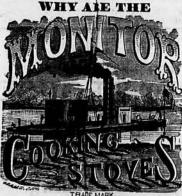
Neobo County—C. Btauber, Clerk.

HORSE-faken up March 11th 16, by S. E. Tate, Tloya
Tp, one by horse, about 16 has high, star in forehead,
shoes on find feet, worn off at 0, nine years old, saddle
marks. Jailed at \$65,00.

—MARP—Also, one sorrel mare lazed face, heavy mane
parted fin each side, one hind it white, tail and mane
mixed of the gray hairs, about 4 y sold. Valued at \$65,00.

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Our readers, in reving to advertisements in the Farmer will do us favor if they will state in their letters to adversers that they saw this advertisement in the Kams Farmer.



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Bronze Turkeys, Five Dollars a Pair.
Eggs for hatching.
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Crop Reports and Correspondence desired from all parts of the country. JOURNAL COMPANY, Publishers, Kansas City, Mo.

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To The Trade. A Choice Collection of Popular Plants for the spring sale of 1876. Description of the spring sale of 1876. L. B. CASE, Richmond, Ind.

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THE finest early White Grape in cultivation. A pure Concord seedling, perfectly hardy, healthy, productive and reliable. Eight years tested. Ripens middle of August. Recommended by the best horticulturists in the Union Single vises, 1 year strong, post-paid, for \$1.50, \$15 per doz. 2 yrs. \$2 single, \$20 per doz. Also, large stock of Concords, Delawares, and all valuable grapes. Illnetrated Catalogue for 3 cent stamp; with splendid colored plate of Lady Grape, 10 cts. Address GEO. W. CAMPBELL. Delaware Obio.



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In extensive variety, at lowest rates. Sent by mail anywhere. ITEM My "Guide," containing lists and prices of seeds, together with the "History and culture of Alfalfa," etc.

Refer to PROP. E. M. SHELTON, of Kansas State Agricultural College

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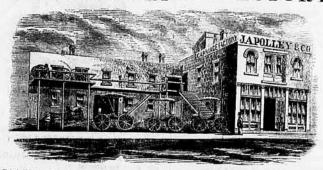
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Send for reduced price list, before buying elsewhere.

Wholesale Dealer in Farm Machinery, No. 6 North Main Street, ST. LOUIS.

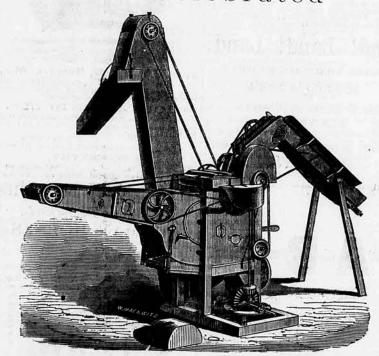
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Six Styles Hand and Power in Stock, for Farm and Warehouse Use.

Points of Excellence. First—These machines shell clean, eack or clevate the corn at one operation, the whole being performe the most perfect possible manner.

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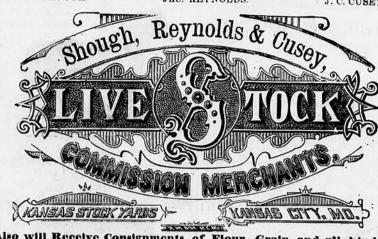
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In view of the general depression in money matters, affecting all branches of business. Flower and Vegetable Seeds. The undersigned have opened a sales-room at 60 Main St., Kan-as City, Mo., for the

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In offering our seeds to the public we can assure them that a portion of them have been carefully raised by ourselves, and the balance were purchased by us from the very best Eastern growers. Farticular attention is called to our favorably known.

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Having added many novelites to our collection of rare plants, we are sure we can please. We have on hand a large stock of Concord and other Native Grape Vines, Small Fruits. Ornamental Shrubbery, Evergreens, etc. Catalognes sent free to all applicants.

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A PPLE SEED.—Prime, fresh Apple Seed for sale at low rates. Address H. W. BLASHFIEDL, Homer, N. Y. A PPLE STOCKS and Root Grafts for sale by D. W. Kauffman, Des Moins Iowa.

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Zet us Smile.

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Reader, did you ever attempt to feed a "bran new" calf? If you have, you will know how to pity a certain farmer not far out of our city. Reader, did you ever attempt to feed a "bran new" calf? If you have, you will know how to pity a certain farmer not far out of our city. He commenced by saying that he had one of those disagreeable jobs this week, such as farmers are liable to have. He said he had determined to raise the calf, and to that end the first thing in order was to learn him to drink. With pail in hand he entered the pen, trying in a mild way to coax the calf. Failing in this, the pail was set aside and an attack made in earnest. After numerous grabs, the calf was secured by getting astride his neck and a hand to each ear. He was then ready for the milk which was in an opposite corner. After wattzing around a considerable length of time, the pail is finally reached. The old saying that "you can lead a horse to water but you can't make him drink," is here verified. The calf is beginning to get mad, and the head of the family is beginning to get mad, and matters are getting worse. The farmer thrusts his fingers in the calf; mouth in imitation of nature to the calf, but the calf is not to be fooled in any such way. He stands firmly braced against all efforts at coercion. At last, the calf's nose was brought in contact with the milk, when, thinking he was about to be drowned or something of the kind, he made a sudden dash for freedom, throwing down and tramping upon the head of the family. Matters were considerably worse. The calf was mad, the head of the family was real mad. The calf kicked up and capered round in a circle bleating and snorting. The farmer indulged in something resembling although not exactly like the Lord's Prayer, which brought his wife to the scene, who calmly inquired what on earth was the matter with the calf, and tells how her mother used to feed calves. It was easy enough if you go about it her way. Our farmer says, you can all talk, but feeding calves should be placed at the head of the list of putting up stoves and weaning babies.

"An ounce of prevention is better than a could of such and a sudden says of the li

"An ounce of prevention is better than a pound of cure," and the use of Uncle Sam's Harness Oil prevents the cracking and rotting harness, and adds fifty per cent more to their durability. Ask your harness maker for it. Emmert Proprietary Co., Chicago, Ill Manufacturers.

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The Dodge Excelsior Hay Press



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Sale of Short Horn Cattle IN KANSAS.

MESSRS. McHARDY & Co., will offer, on the Fair Ground, at Emporia, Kan-as, during the latter part of May, a number of Thoroughbred Short-horn Cattle, among which are Young Bulls, Helfers and breeding Cows of the best strains of pedigreed stock in the country. A liberal credit will be given. Further particulars of sale will be advertised in this paper.



AULTMAN TAYLOR STRAW STACK If you don't see the point, write Trumbuil Reynolds & Allen. General Agents, Kanaas City, Missouri. Handsome colored lithograph of "Comic Thresher Scene." sent free upon application.

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Parts of Kansas.

To parties in the Rastern States who design coming to Kansas, we offer the advantages of fall information about Wild Land, or Improved Farms, as also about Government and Railroad Lands.

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Was, for three years, offered for any case of the above diseases which could not be cured by Clarks' Anti-Billious Compound.
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The best, only complete, and reliable instrument for the treatment of Asthma, Catarrh, Sore Throat, Bronchitts, and diseases of the lungs and air passages generally.

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These machines are used by the P. of H, throughout the United States, and are sent to them at wholesale he United States, and a conficer.

Send for descriptive Catalogue and Price List.
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STRAYED OR STOLEN. STRAYED OR STOLEN.

Strayed or was stolen from the subscriber on Saturday, March 25, 1876, Two Bay Mares, weight about 1400 pounds each; one a light bay, large head, romannose. The dark bay had one hind foot white and white spot in forchead; also, a year old light bay colt, also two black horse mules and one sorrel mare mule. These six animals strayed or was stolen from the subscriber living one mile West of Carbondale, Osage County, Kansas. A liberal reward will be gaid for the return of the animals or any information that will lead to their recovery. Address HENRY URICH, Carbondale, Osage County, Kan.

The Best Gate on Earth!



Simple, durable, cheap. Can open and close it without leaving your horse, carrisge or load. Snow proof, works easy, no strain on gate or posts.

Territory West of Mississippi river for sale.

Farm Rights and plan showing how to build gate, \$5,00. Agents wanted.

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TOPEKA, KANSAS.

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SHORT-HORN BULLS, of good Herd Book Pedigrees. The above stock is of-fered at prices farmers can pay in these hard times. For further particulars write to S. H BALDWIN, Newark, Knox Co., Missouri.

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Thoroughbred Short-Horn Durham Cattle, of Straight
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ALSO Berkshire pigs bred from imported and premium stock, for sale singly, or in pairs not akin.

Addres GLICK & KNAPP.

P. S. Persons desiring to visit the farm, by calling
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D. A. ROUNER, miles west of Newark, Missouri, Bree SHORT-HORN CATTLE. The Hard embraces Young Mary's, Young Phylises Galatens, Rose Buds, Rose Mary's, Lady Carolines, Des-demonias and other good families.

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Importers and Breeders of NORMAN HORSES Office with Aaron Livingston, Bloomington, Ill. Imported stock for sale on reasonable terms, Address, Shirley, McLean Co., Illinois.

PURE BRED BERKSHIRE PIGS.



It is to the interest of the people of Kansas to know that the undersigned has the

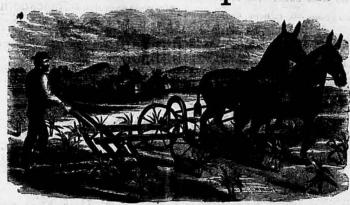
Largest and Finest Herd of pure blooded Berkshire Pigs in the State None but No 1 breeders shipped. Prices reasonable and satisfaction guaranteed SoLON ROGERS. Prairie Centre, Johnson Co., Kan.

Matthews' Garden Seed Drills and MATTHEWS HAND CULTIVATORS are the most reliable, durable, popular and salable ever produced. Sold separate or combined. Soud for Circular. Manufactured only by

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LITTLE GIANT CORN AND COB CRUSHERS,

Challenge Feed Mills, Cutting Boxes, Field Rollers. Road Scrapers, etc., etc. TRUMBULL, REYNOLDS & ALLEN, Kanses City, Missouri.

Skinner Sulky Plow. Quinch Corn Planter.





We sell our Goods on their merits and warrant the equal, in every respect, to any in the market.

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OHIO SULKY RAKE Examine these Implements before buying.

SEEDS AND IMPLEMENTS. H. MABBETT,

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