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The Farmer as a Salesman.

Success on the farm requires talent in such uncouth condition they are a loss down so low that many men and firms their goods will establish a first-class getting profitable prices out of buyers, to the men who feed them. just as much as ability in getting good It is oftener a born than an ac- on

Some of the most practical farmers makers connected with agriculture have fancies of the people who buy them. never gained distinction as practical success as farmers and salesmen.

If one is not so lucky as to be born with the knack of selling his pro- the practice. ducts for a top price, he ought to develop it by serious and persistent effort. It is not my purpose to tell farmers how, when and where to dispose of their crops, but rather to show them how very important it is that they should make a close order of the market problem and secure full value for all they produce.

For instance, we grow certain crops on our farms, which we desire to convert into money. Two courses are open to us, the grain elevator and the general market, or the feeding of live stock. If the grain and forage is sold direct, the highest market price is demanded and invariably we are careful to exact the last cent, and in this kind of a transaction we may be characterized as sharp and shrewd salesmen. But very often when we decide to feed our grain on our own farm instead of selling it, our sagacity and acumen deserts us entirely and we exercise anything but good salesmanship in our selection of the animals that are to convert our crops into new and different products. Why should we deliberately sell our grain and forage crops, not in the best market or for the best price, but to unimproved and inferior animals, that for the want of quality or adaptability cannot do a good job of manufacturing and consequently can only pay us a very low price for the farm crops they consume.

What process of reasoning leads us to feed a dairy cow when her milk, the article she has manufactured from our forage and grain she has consumed, does not pay for her board? If dairy products are what we want, why not "sell' the feed to such cows as will pay a good price, and not to the kind we know in advance will never be able to do so?

It is an ever-present bargain we are driving and we should use the same caution to get the last dollar there is in it. as we do when selling our grain and forage at the elevator or in the market.

Another way we often suffer unneces-No market in the counbadly finished. try will pay top prices for poorly conditioned stock. It is astonishing to observe in the stock yards in any large city how little care the stock raisers have taken in this respect. It is the last few dollars spent for extra feed used that pays the largest returns. Half-fed cattle, grass-grown hogs and ram lambs are not wanted by the trade. This class of live stock sells at a big discount, possessing good blood, would bring good

It is the same with all animal products.

Men are comparatively scarce age and waste is of great importance the plain farmer, who has no special who have achieved the difficult twofold when we hold products in storage rather training hope to succeed. than sell them at harvest time. Not Good salesmanship is an invaluable only that but it takes a particularly duce is a prime factor in securing the not exercising high grade salesmanship; seet. If one is not so lucky as to be shrewd market speculator to succeed in best market price. Farmers in the mid- he is actually competing with himself,

were ruined.

crops out of the soil. Salesmanship is There is an inexcusable waste of op- a price at which he can clean up a fair profitable prices assured. just as much a part of a farmer's busi- portunity by many farmers who place profit is taking a risk, and a big one. We must learn to utilize our inferior ness equipment as are the goods he pro- inferior milk, butter, cheese and eggs He then becomes a speculator and is get- products at home and place none but the the market in untidy and uncouth ting outside of the legitimate bounds of best on the market. This does not mean, quired gift; unfortunately, it is not al- condition. No good salesman thinks of farming. Farmers had best leave the as it many times does, a stinted home ways-we might say, it is not usually- putting his products on the market in speculating to the board of trade fellows. linked with distinguished ability in other dirty and unattractive packages. He They study the game all of the time and lot, but it means that small potatoes lines.

understands human nature sufficiently many of them imagine they have learned ought to go to the hogs or be boiled well to know that the human eye is the every trick of it, but they haven't, as a cannot be classed as good salesmen great buyer of products and that they record of the bankruptcy courts will tle gnarly apples, the small or frosted Some of the most prominent money- must be put up in shape to please the show. When a specialist with every vegetables and all other under-standard known way of getting inside information produce should be disposed of to stock or In another line, the question of shrink- cannot win at his own game, how can in some housewifely way, rather than be

> Honesty in packing and grading pro- who puts inferior stuff on the market is dle and eastern states could learn many The law of supply and demand does valuable lessons by a careful study of the through putting inferior products on the

reputation, and the demand for their The man who holds his crops beyond products will be wonderfully widened and

table and inferior rations in the feed into supplementary hen feed and the litsent to market in an attempt to make the good produce sell the poor. The man in two ways by curtailing consumption not always hold good. When products of methods of marketing farm products and market and increasing the supply through crowding more produce on the market than the trade demands.

The cause of unprofitable market conditions is not so often over-production as under-consumption due to tive produce and poor marketing meth-

New York.

W. MILTON KELLY.

ALFALFA EXPERIENCE IN HILLS- | DALE COUNTY.

The alfalfa planted last year in the different ways all seemed to look equally well as winter came, and all came through the winter in fine shape. One piece was sowed with oats as a nurse crop, using one bushel of oats to the acre, the oats being cut for hay before the grain was matured. Part of this piece was inoculated with sweet clover dirt and part had no inoculation. The part on which dirt was sown from sweet clover bed has done much the best this season. It has been much better color and produced a much better crop, all having made three light crops.

Another piece was also sown June 15, the ground having been plowed the first of May and kept worked once a week until planted. Fifteen pounds of seed was sown to the acre and 300 pounds of dirt taken from sweet clover beed sown This piece had no and harrowed in. nurse crop and has cut three fine crops this season, more than double the amount taken from the former, although all was on about the same kind of land. No lime was used. I think our land contains plenty of lime, as clay has been taken from many places and tested for brick, but in nearly every case contained so much lime that when the brick was wet the lime would slack and the brick go to pieces.

We have planted 101/2 acres more alfalfa this season, putting it in in different ways. Inoculating part with pure sary loss is in selling our farm stock one kind are out of reach of the con- fruit practiced by the growers of the culture received from the experiment stasuming public, they are quite sure to Pacific Coast, who co-operate and have tion, and the rest with dirt taken from buy the next best thing in the market. all of the products put up by men who sweet clover beds. Half an acre was put in May 15, after keeping ground worked about a month, which is a good stand The problem of marketing and handling but very weedy. It was clipped once, letting it go back on the land. Six acres we put in June 15, having kept ground worked from April 12. The fore part of August it was so large and much of it to buying these other kinds of fruit at best his reputation would be only blowed out that we clipped it as high until apples were a drug on the market. local and known among a fancy, private as we could run the mower bar, and some of it was so heavy that we feared it would smother, so drew a large load of

The last piece of four



Potato Digging Scenes on the Farm of A. B. Craun, of Branch County.



this change in consumption. Apples were scarce and reported a light crop, and growers and buyers held out for an un- is not the one that can be solved by inreasonable price. The orange crop was dividual effort alone. One man may put enormous and other fruits were plentiful; and as a result the consumers took tablish a name for first-class goods, but when the same animals, many of them Then more apples were found than had trade. Whereas, if a number of growers been dreamed of, and when buyers and combine and put up their best products money if well fitted for market, but in growers began to unload, the prices went in uniform stiyle and in large quantities hay from it.

A few years ago was a good example of are experts in the business and who are employed for no other purpose.

up his produce in good shape and

clover was seeded last year June clover, alsike and sweet clover seed. after being attacked with weevil. The hay this year was as much sweet clover as anything else. Stock eat it as good as they eat the June clover. This piece was kept worked up to August 5, when it was seeded to alfalfa with no further inoculation than the sweet clover seeding the year before. In seeding we have used from eight to 20 pounds to the acre, and can see but little difference when 12 pounds or more is used to the

Hillsdale Co.

W. G. BOYD.

FARM NOTES.

A Substitute for Hay.

I have ten acres of sandy river flats which have been badly run, raised a crop of rye this year, and would like your advice as to what I could plant for hay on it as it is the only ground I have for hay the coming season. Is there anything which could be sown that would answer for hay for a cow and horse, and at the same time improve the soil? A neighbor suggested vetch.

Kent Co.

A. J. S.

It is now rather late in the season to

It is now rather late in the season to sow vetch with a prospect of its living over winter and making a forage crop next year, although it is a valuable plant for the improvement of poor land, and when sown in connection with rye will make a fair substitute for hay the succeeding year. But if this flat land is not too wet to be adapted for peas and oats, would probably be the best crop that could be used for the purpose, although if the land is very deficient in plant food the crop would probably be light. It is a difficult proposition to get any crop that will make a fair yield of forage upon badly run land and at the same time improve the condition of the soil One of the most needed elements of fertility upon such soils is generally a largsupply of humus or vegetable matter in the soil, and this can only be secured by the application of stable manure or the plowing down of some crop as a green manure. If stable manure is available for application upon this land or if liberal applications of fertilizer are used, probably a greater growth of forage could be secured by planting it to corn than any other way, but it would not help solve the problem of the betterment of the soil, which could only be done in this case by the sowing of rye, or perhaps rye and vetch or some other similar crop, in the corn to be plowed down the following year in connection with an application of stable manure or the liberal use fertilizer which would put the land in condition for seeding to clover and other

Concrete as Material for Ice Houses.

Will someone please tell me through your paper, who has had experience with cement ice house made from cement blocks, as I wish to build one?

Eaton Co. T. H. H.

While the writer has not had personal experience with the storing of ice in a building made from concrete or concrete blocks, he has seen ice successfully stored in such buildings. While a concrete wall is a much better conductor of heat than one of boards, yet with the hollow block construction there would not be much difference in this regard, and with careful packing of the ice, using a thicker wall of sawdust between it and the building as an insulation, there would be no difficulty in keeping ice in a building of this kind. Some advantages would be especially with regard to permanency, as the moisture about the bottom of the ice house causes the early rotting of timber used in such a building.

Eradicating Weevil. I have weevil in my wheat. What can I put in the bins to kill them and how is it used? My bins are about 5x8 feet and hold about 200 bushels. C. R.

The best remedy for granary the fumes of which are very inflammable, grain in the bins; the gas which forms the liquid should be quickly poured into the dishes then have the granary closed as tightly as possible and left closed for know any difference, and yet there was

Potatoes and Crop Rotatoon.

If potatoes are affected with blight this year, will they be more liable to be affected if potatoes are planted on the same land another year?

Livingston Co. G. L.

There is no doubt that the ravages of crop is planted for successive years on the same ground, than where it is made good mechanical condition, which is an important factor in soil fertility, where acid condition one would get the benefi- a condition of things they look at it in a rotation of crops is practiced in which cial effects of the added plant food in the a different light. important factor in soil fertility, where clover or some other legume occurs at fertilizer. least once in three or four years. In fact, every argument that can be adbest results, both for the crop yield secured and the maintenance of soil fertility, as well as for the greater freedom fungus and insect pests which attack the different crops grown.

WHY ARE COMMERCIAL FERTILIZ-ERS SOMETIMES A FAILURE?

Is it a common occurrence for commercial fertilizers to be of no benefit on sandy run-down land? I know of one instance where a M. A. C. graduate used fertilizers on a sandy, run-down farm. He says he received no benefit from their use, either that year or later. They were applied as he was taught to use them. I applied as he was taught to use them. I have a sandy farm that has been a good one. At present I cannot get a seeding of clover, and oats and peas are a failure. I have only a small quantity of stable manure. How can I improve the land'

Van Buren Co. READER. I can conceive of only one condition where commercial fertilizers would be a failure, that would be on land so rich in available plant food that no more plant food would be necessary to produce a maximum crop and I am of the opinion that such a condition rarely exists. We might say that it would be like giving a horse an extra feed of grain after he has had all that his system requires, and yet would not be like it because in the case of the horse it would be a surplus that the system must get rid of and it

would be a tax upon the system to throw it off. I am aware that in some instances

commercial fertilizers do not produce the desired results which the user of them anticipated, and the more I have studied this question, the more experience I have had with commercial fertilizer and the greater observation that I have had on this subject leads me to believe that nine times out of ten this results from the fact that the man who used the fertilizer did not apply the fertilizer in sufficient quantities so that he could get beneficial or profitable results. For instance, a man has a poor, run-down field on which he cannot get a catch of clover and he seeds this field to wheat and puts on from 100 to 200 lbs. of an average commercial fertilizer. Now he hasn't supplied enough plant food so that it would make very much difference even in the wheat crop. It would be like feeding a hungry horse a handful of oats. It would be simply an aggravation. I have never yet known of an instance where a man used a liberal dressing of a good fertilizer on wheat that he didn't get results. I have known of instances where fertilizer was used on spring crops late in the season when obtained with this kind of construction, the ground was dry and continued to be dry and the fertilizer did not produce any particular change in the crop. No particular benefit was received from it from that crop, simply because there was not moisture enough to dissolve the fertilizer so that the plant could use it. I have known instances where, on light sandy soil commercial fertilizer was used, and this soil had been previously, by poor farming robbed of its vegetable is carbon bi-sulphide. It should be used matter to such an extent that it would in proportions of one pound to one ton not hold moisture, and owing to a poor of grain or 1,000 cubic feet of empty distribution of rainfall, satisfactory respace in the granary where the grain is sults were not secured. In both of these This is a very volatile liquid, instances the fertilizer or plant food would remain in the soil. Now, with the hence, care should be exercised in its wheat plant there always comes during A method of using it is to place it the growth of this plant sufficient moisin shallow dishes placed on top of the ture to dissolve the fertilizer so that it the pesky milk weed. can be used by the plant and I never from the liquid is heavier than the at- yet saw a failure of commercial fertilizer mosphere and will penetrate into the on wheat. I know of one instance in Having everything in readiness, particular on sandy, gravely, oak-opening soil where fertilizer was used and the casual observer before harvest would not

acres we turned over clover sod, having lantern or other light until after the over more, indicating heavier heads, and burdock, and other weeds to go to seed lbs. of fertilizer per acre.

> This has been demonstrated to such an extent that the clover cannot grow profitably you can't make it grow by adding nitrogen, phosphoric acid, and potash. Consequently, in fertilizing the soil for clover one must add the lime as well as the nitrogen, the phosphoric acid, and the potash. In this instance when lime is added the soil is sweetened, lime is furnished as a plant food, and this enables the clover plant to live and use not only the lime but also use the added nitrogen, phosphoric acid, and potash in the commercial fertilizer. Then results are obtained which one can recognize at a glance. Therefore, I do not like the way this question is stated, "Why are commercial fertilizers sometimes a failure," because I don't believe that commercial fertilizers ever are a failure. don't believe it is ever a failure to add soluble plant food to the soil. Most of our soils are hungry for additional plant food because, by cropping them year after year, we have used up much of the available plant food which has accumulated for ages and crops do not grow as well as they formerly did from this fact, and now adding available plant food can hardly be called a failure. It may be, however, that we do not get the needed results because some other conditions in the soil prevent us, but this does not make fertilizer a failure. Sometimes, owing to adverse seasons one does not get a good crop even after he has applied fertilizer but it is not due to the fertilizer. The same thing would happen with stable manure. It is due to some conditions which will prevent the plant from using the fertilizer. If we could remove that condition we would all get good results. COLON C. LILLIE.

THE NOXIOUS WEED NUISANCE.

There has been considerable in The Farmer about the weed question, especially about the Canada thistle, and the milk weed, but the half has not been told, especially of those two weeds in this section. When I was a boy the milk weed was seldom seen, and was regarded as something of a curiosity, and not considered a bad weed, probably because there was so little of it. It did not trouble us any on the old farm till a half dozen years ago, when there was a small patch of it that needed attention. I have been out of the county for two years, and soon after my return, on a drive of 12 or 15 miles I saw more milk weed than I had ever seen in all my life put together. I do not believe the farmers realize to what extent it is taking possession of their lands. There are enough seed-pods ripening now to seed whole townships, and the end is not yet. Few farms are free of the pest, and many are badly infested, and the weed is being neglected in a way that bodes ill for the future. There are acres of Canada thistles, and many have been allowed to ripen seed. As both milk weed and thistle have seeds that will be scattered far the winds, the situation is serious, more is allowed to make no leaf growth, but motorcycle especially

appears to be a dead letter, and not only needed repairs or other purposes. that, but some of the officers who were cost of up-keep is low on these light conelected to see that the weeds were cut, veyances, which may be classed as stricta period of about 36 hours, after which a difference. When one made a careful appear to be dead letters too, I know of ly utility vehicles wherever they can be it should be opened and well aired, care inspection you could notice that the heads at least one who not only neglects to used to advantage, of which the above being taken not to go near it with a of wheat were larger and that they bent have others cut them, but allows big are only a few examples.

cut the clover early in June, and plowed treatment is completed. The grain when the field was threshed there was along the road in his own fence corners, as soon as hay was taken off. When the should then be run through a fanning an actual yield of six bushels per acre There ought to be a sharp fine for any we used mill as it will heat and spoil if not moved more where the fertilizer was used, and one who allows the noxious weeds to this was only a light application of 200 ripen seed, and a sharper penalty for the officer who allows them to go uncut. The Land that has been farmed for a great farmers were notified, by mail, to cut the many years is liable to be acid instead of weeds before a certain date, and that alkaline in reaction. It is well known seemed to satisfy the officer and make that clover will not grow well in an acid him consider he had done his duty. It soil. If there is any great amount of acid also satisfied a lot of farmers, who never potato blight as well as numerous other in the soil it may entirely prevent the pay any attention to such a notice. A fungous diseases of the potato plant are growth of clover. Now, applying com- sharp fine would do a world of good in much more liable to occur where the mercial fertilizers to an acid soil to get such a case, and it would not take many a profitable growth of clover will produce of them to create a different state of little beneficial results, but this don't affairs. There are farmers who will ala factor in a judicious crop rotation. It make fertilizer a failure. The plant food low weeds to grow to their own, and is also much easier to keep the soil in a is in the ground and if lime is used to their neighbors, damage, but when it sweeten the soil and change it from its comes to paying out real money for such

> I do not know of any animal that will time and again. Again, some soils are eat a Canada thistle, unless it be a goat, deficient in lime. Clover is a gross feed- and if that animal will eat them it vanced favors a rotation of crops for er of lime. If the soil is lacking in lime ought to be popular with many of the farmers, but a sheep will nibble at the milk weed to quite an extent, and if the pasture gets short they will do more than nibble. Along in July and early August I passed a pasture, on muck land, where there was a good crop of milk weed, and later noticed sheep were eating the leaves. A few days ago I passed it again, and there was scarcely a leaf on it, and the stems had been eaten to some extent by the sheep, but the Canada thistles were not being eaten and were making a healthy growth. would probably take some time to kill the milk weed by the sheep method, but it would help. The weed has become too widely scattered on most farms, to admit of penning a flock of sheep on it, as I have seen advocated. A few days ago I passed a field of corn which had been cut, but the milk weed, and there was lots of it, had been left, and stood three feet tall. The farmer should have gone through that field several weeks ago with a spud, and cut off every plant several inches below the surface, that kind of treatment would have done a lot to discourage future growth. With weeds of that sort it is necessary to do more than just prevent the ripening of seed. if it is to be gotten rid of, the top must be kept down to discourage and weaken root growth. As long as leaves are hermitted to develop they will keep root system vigorous and the plant healthy. No plant, whether weed or not, can long keep vigorous unless they have leaves to aid the roots, hence the quickest way to get rid of them is to keep down the tops, and the more thoroughly this is done the sooner the weed will be I have not said much about the burdock, because it seldom troubles in cultivated fields, but confines itself to fence corners, roadsides, barn yards, and all sorts of places that the plow does It's bad enough, and persistnot reach. ent enough when it gets a good hold of any spot, and the ripe burs in the long hair on a cow's tail make a disagreeable sort of a club for the cow to use on the man who does the milking. There are many that have ripened seed along the roadside this year, and a little time spent with the spud would have prevented the trouble they will cause. I am a firm believer in the spud, and think there should be one on every farm. It catches these bad weeds just where it hurts them most.

Eaton Co. APOLLOS LONG.

A NEW FACTOR IN THE TRANSPOR-TATION PROBLEM.

One of the most recent developments in vehicles for rapid transportation has been the motorcycle. The adaptability of the motorcycle in rapidly conveying persons over the country, has increased its popularity rapidly, wherever the need of such a vehicle has been felt. The possibilities of its use on country roads have been demonstrated by rural mail carriers who have used the motorcycle succes so than many seem to realize. I regard fully and economically in making their the milk weed as much the most serious daily trips over their respective routes. pest of the two, because I know from In other places, country boys who are experience that the thistle can be almost attending high schools considerable diswholly eradicated in a single season if it tances from their homes, have found the it takes more than that to discourage their needs during the busy season when well adapted to the horses are all needed upon the farm. The quustion might well be asked, In many cases a motorcycle on the farm "What are you going to do about it?" saves many dollars in avoiding expensive I know there is a law against allowing delays in the brief time which would be these pests to go to seed, but the law required to make a trip into town for

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LILLIE FARMSTEAD NOTES.

The extreme dry weather dried up the necessitated filling silos a little earthat we have taken extra pains to give of the lower leaves are dead and yellow stage when it contains the largest per- I sowed the grain. cent of digestible nutrients, and now, I have also made another experiment. first of October before I fill the silo. A small portion of my corn is a later vaseed just to see if I could get more food value to the acre, and this corn is not anywhere mature enough to put into the silo yet. The old variety, Holt's Mammoth, that I have raised for years will do in a week or two, in fact, it would do now. If frost would come it would make pretty good ensilage but I prefer to hold it until it gets a little riper, and the portion of the field planted to the later kind that I purchased ought to have at least two weeks and possibly three, to get it so that it will be suitable to put it into the silo.

Good rains have come since we finished sowing the wheat, and unless the ground has become packed too much I expect a splendid fall growth. A nice shower came soon after one field was sowed, before it had a chance to come up at all, and I put the smoothing harrow on and harrowed it over and broke the crust. In a few days we had another rain, a harder one yet, and I started to harrow it again to break the crust, but now another rain has come with cloudy weather for a day or two and the wheat is coming up, and don't anticipate any serious difficulty from the packing of the ground. The ground was very dry and it absorbed all the moisture, washing very little, I should have preeven on side hills. ferred to have had more moisture when I sowed the wheat. I was a little bit nervous because we used quite a heavy application of fertilizer, and with dry ground, had it remained dry, I do not know just what the result would have I was a little bit afraid that some of the germinating power of the seed would be injured, but now with good showers I do not anticipate but what it will all germinate and grow.

acquainted with Prof. Buffum, of Mon- good fixer. tana, and I had confidence in his recomwas so and, banking on his reputation, I over building paper or test it in this ough and develop, and he claims some won- frequently than ever. derful yields of the grain.

His idea is that the grain is a substitute for corn for feeding hogs and horses, but it is left in its envelope more like attention in the winter.

barley, and yet it is not like barley. When ground this chaff or covering of the grain helps to lighten the grain and makes it a much better feed, so far as ensilage corn, especially on lighter sandy being too condensed, than corn or wheat soil, so that in many instances it has or rye. It is more like oats, but richer in food value than oats. The idea is lier than usual, in fact, before the corn that this grain will come off in the midwas fully mature. On my own corn the dle of the summer when one is probably drought does not seem to have affected short of horse feed and hog feed, and it it seriously as it did a year ago. I can- can be ground and will prevent the nenot account for this only from the fact cessity of having to purchase outside feed in the middle of the summer when it thorough cultivation this summer. Of a farmer is liable to be short. I am course, some places in the field it fired giving this bushel a good severe test. I some at the bottom of the stalks. Some am sowing it in the standing corn on one side of the field that I put into wheat. but the ear is not fully mature yet, not I have given it no extra chance at all. sufficiently so as to have passed the Of course, I fertilized the ground when

since the rains have come it is brighten- One field of ensilage corn I will want to ing up and I am sure is making a satis- put into ensilage corn again next year factory growth. The weather is warm and I conceived the idea that it would and nice and there is plenty of moisture. be a good plan to sow this to rye as a I believe that I will get a considerable cover crop and plow the rye under early development of plant food if I leave it, in the spring to add vegetable matter to and really, what does a few white leaves the soil. Not only that but the growing at the bottom of a stalk amount to com- rye this winter will take up available pared with a little extra growth of the plant food and prevent it from leaching stalk or of the ear itself? Comparatively and also prevent the land from washing. nothing. These bottom leaves are worth Now, on a portion of the field I mixed something in themselves but the real sand vetch with rye. Having had no exfood value in a few light leaves com- perience with sand vetch I did not go pared to a little extra growth in ear or very deep, only using a bushel of seed, stalk would be insignificant, and if frost and it will give a good test under my does not come I shall leave it until the conditions to see whether sand vetch is worth the sowing for a cover crop.

As I have stated before, the sugar I sent away and purchased the beets this summer have stood the drout well. We have tried to do our best in keeping the land well cultivated to conserve the moisture, and all through the dry spell it did not dry up very much. Since the rains have come they have brightened up, however, and are sure of making a splendid growth. I will be in no hurry in harvesting them as long as they look in such good growing condition as they do since the late rains. I have a sugar beet crop this year that will be well worth harvesting, and while I do not expect to get any phenomenal yield, as some people do, yet I am sure that I have a good profitable crop, a crop that the average, and I am going to have a splendid amount of beet tops.

COLON C. LILLIE.

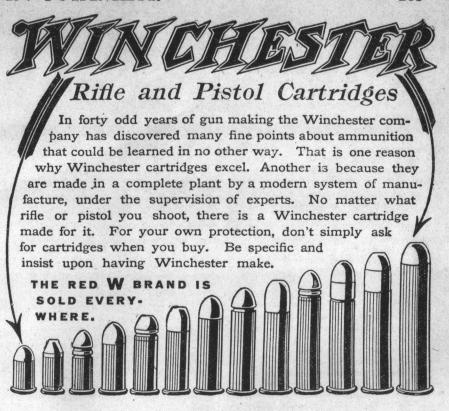
ASPHALT ON THE FARM.

With the high prices of lumber farmers are using concrete until its merits are widely known and together with this comes the use of asphalt, which more particularly appertains to roofing but also has other uses not so well known. The shingle roof usually needed and received no attention during its life, which was of considerable duration. All the smooth proprietory roofings need treating with a new coating to take the place of wear and oxidation every few years. Sand sifted over the asphalt coating is of advantage in forming a resisting coat. Tin roofings and the connecting portions of shingle roofs, gutters, etc., are good places for the asphalt brush. hot day for roof fixing as cold surfaces do not take kindly to asphalt work. Asphalt is a good paint to put on all iron work about the farm. It can be I made a little experiment on one side thinned with turpentine and a rusty old of the wheat field and sowed a bushel of spring tooth harrow made like new. The winter emmer. I would not want to tell iron work on a mowing machine looks the readers of The Farmer how much I better and is better for just a nickle's paid for this bushel of seed unless it is worth of paint of this kind. An exposed an extremely valuable plant. I paid too pump, rusty and red, looks the better of much, I am satisfied of that, but I want- its asphalt coating. For making a wooded to try it. I happen to be personally en silo more nearly tight asphalt is a

On cheap or temporary buildings like mendation. I do not believe that he individiual hog houses a cheap and efwould tell me that this was a wonder- fective roofing can be made by putting fully productive, hardy plant unless it on wornout burlap sacks nailed down even common newspapers and coating with asphalt and cality. Winter emmer is sometimes sand. The paper is necessary only when called spelt, or, rather, the spring va- the boards are not tight Poultry houses riety of this grain is called spelt, but or sheds can be made cheaply of rough that is not its proper name. Emmer is lumber with asphalt on burlap siding and the proper name. Prof. Buffum claims roofing. A leaking trough is easily rethat this grain is much more reliable and paired by a strip of cloth pasted down of much more value than the spring em- with a coating of asphalt. A five or mer. He only recommends a bushel to ten-gallon can of asphalt is an exceedthe acre, or 40 pounds to the acre, claim- ingly handy thing to have for farm use ing it to be a wonderful plant to stool on occasions which seem to occur more

> Shiawassee Co. JAS. N. MCBRIDE.

Through good horses there is an exceland in fact all kinds of animals. It is lent market for the disposition of much well known the emmer variety of grain of the ordinary feeds that grow on the belongs to the wheat family but it does farm. The colts weather a drouth much not, in threshing, hull out like wheat, better than cattle, and require much less





than ill-shaped, uncomfortable boots. 45 years experience explains the fine fit and easy lines of

WOONSOCKET **Elephant Head** RUBBER BOOTS

But finish and fit were not the points that built up our The solid wearing and lasting qualities of our boots did it. The reputation of always making dependable boots turped our little factory, making 60 pairs a day, into a great mill with a capacity of 10,000 pairs of rubber boots a day.

All dealers. Always

Look for the Elephant Head



Cummer Mfg. Co.

Michigan



Cadillac,

Early potatoes are one of the best-paying crops raised in Southern Alabama, Western Florida, Tennessee and along the Gulf Coast. Good prices are always obtainable and demand for same beyond the supply. Read what a farmer at Summerdale, Ala., has to say on this crop:

"My yield of salable potatoes this year, per acre, was 150 bushels, which sold readily at \$1.50 per bushel, this being the first crop on the land. I followed this crop with sweet potatoes and sweet corn and then planted cow peas. I raised three crops on the land in one year, all of which brought good prices."

Sweet potatoes produce big returns and are usually planted after Irish potatoes have been dug. Two to three hundred bushels an acre are produced and bring from 50 cents to \$1.75 per bushel. Let me send you our illustrated booklets and learn what can be done in a country where fertile land can be purchased cheaply and where there are 312 working days a year. Low round-trip fares 1st and 3rd Tuesdays each month.

(203)

G. A. PARK, Gen'l Imm. and Ind'l Agt., Louisville & Nashville R. R., Room 256 Louisville. Kv.

ys a year. Low round-trip fares 1st and 3rd Tuesdays each month. G. A. <u>PARK,</u> Gen'l Imm. and Ind'l Agt., Louisville & Nashville R. R., Room 256 Louisville, Ky.

When writing to advertisers mention The Michigan Farmer.

LIVE STOCK AT THE STATE FAIR.

The live stock exhibit at this year's & state fair was particularly good in spots, some departments being especially strong with herds of International quality among the entries, while in other departments of the exhibit there was a noticeable lack of entries. The Michigan exhibit was hardly up to the standard of previous years in numbers, a great many owners of the high-class show stock feeling that the nine days' fair, which would occupy two weeks of their time, was a handicap which they did not care to accept. However, the show in most classes was a very good one from the standpoint Sons; 2nd, Frank Hartline; 3rd, Chase & Sons; 2nd, Frank Hartline; 3rd, Chase & Sons; 4th, Herbison Bros.; 5th, Parish of quality and the entries in most de- & Sons. partments were sufficiently numerous to afford opportunity for profitable study and comparison. The beef cattle classes were relatively strong; although the were relatively strong; although the sumber of herds exhibited in the differint breeds was not large, yet the quality as universally good. The dairy breeds were also well represented as will be toted in the Dairy Department.

The sheep classes were many of them the sheep classes were many of them the strong and the strong and the strong are represented as the strong and the strong and the strong are represented as the strong and the strong are represented as the strong are repres number of herds exhibited in the different breeds was not large, yet the quality was universally good. The dairy breeds were also well represented as will be noted in the Dairy Department.

very good, while in other departments which was also true of the hog entries. Aitogether, however, the live stock show & was a creditable one, and the management is to be congratulated in getting so many high-class entries for a nine days' fair.

The awards in the several classes were as follows:

Shorthorns Open to Michigan.

Bull 3 years old or over—First, Jay Smith, Ann Arbor, Mich.; 2nd, John Les-siter's Son, Clarkston, Mich. Junior Yearling Bull—1st, Lessiter's

Sons.

Senior Yearling Heifer—First and 2nd,
Rosenberger & Edwards; 3rd and 4th,
Jay Smith; 5th, Lessiter's Sons; 3rd and
4th, Jay Smith; 5th, Rosenberger & Ed
Brown Swiss.

Galloways.

Gran
Moore.
All first prizes and champion awards in this class went to James Frantz & Sons,
of Bluffton, Ohio, the only exhibitors of the breed.

Brown Swiss.

Bull 3 years old or over—First, Hull Watt I wards.

Senior Champion Bull—Ribbon badge, Carpenter & Ross.

Junior Champion Bull—Ribbon badge, Calf Herd—First, Hull Bros.; 2nd, H. W. Ayers.

Senior Champion Female—Rosenberger & Edwards.

Junior Champion Female—Rosenberger & Edwards.

Grand Champion Bull—Cup, Carpenter & Edwards.

Grand Champion Bull—Cup, Carpenter & Senior Champion Bull—Ribbon badge, Hull Bros.

Junior Champion Female—Cup, Ros
**Calf Herd—First, Hull Bros.; 2nd, H. W. Ayers.

Two produce of Cow—First, H. W. Ayers; 2nd, Hull Bros.

Senior Champion Bull—Ribbon badge, Hull Bros.

Junior Champion Female—Ribbon badge, Hull Bros.

Junior Champion Female—Ribbon badge, Female—Ribbon badge, Hull Bros. Senior Champion Carpenter & Ross. Junior Champion Bull—Ribbon badge, Carpenter & Ross. Senior Champion Female—Rosenberger & Edwards.

&

& Ross.
Grand Champion Female—Cup, Rosenberger & Edwards.

Red Polls.

First Frank

Red Polls.

Red Polls.

Bull 3 years old or over—First, Frank H.
Hartline, Strasburg, Ohio; 2nd, Wells,
Parish & Sons, Alendale; 3rd, Jas. Rey-Hi
nolds, Port Huron; 4th, J. M. Chase & Ionia.

Sons, Ionia.

Bull 2 years old—First, Geo. Ineichen & Sons, Geneva, Ind.; 2nd, Herbison Bros., Birmingham; 3rd, Chase & Sons. Senior Yearling Bull—First, Frank Hartline; 2nd, Ineichen & Sons.

Junior Yearling Bull—First, Chase & Sons.

Sons

Junior Bull Calf—First and 2nd, Ineichen & Sons; 3rd, Parish & Sons; 4th, Frank Hartline; 5th, P. C. Freeman, Lowell, Mich.

were comparatively few entries, was also true of the hog entries. & Sonior Heifer Calf—First, Frank Hartline; 2nd, Herbison Bros.; 3rd, Freeman & Son; 4th, Parish & Son; 5th, Ineichen

Sons.
Senior Bull Calf—First, Lessiter's
Sons; 2nd, G. H. Parkhurst, Orion, Mich.
Junior Bull Calf—First, Jay Smith;
2nd, Lessiter's Sons.
Cow 3 years old or over—First and 3rd,
Jay Smith; 2nd, Lessiter's Son.
Heifer 2 years old and under 3—First
and 3rd, Jay Smith; 2nd, Lessiter's Sons.
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Son.

Heifer 2 years old and under 3—First
and 3rd, Jay Smith; 2nd, Lessiter's Sons.
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Senior Champion Bull—Ribbon badge, Sons Hitlefer 2 years old and under 3—First and 3rd, Jay Smith; 2nd, Lessiter's Sons.

Senior Crearling Helder—First and 2nd, Jay Smith; 2nd, Lessiter's Sons.

Junior Vearling Helder—First Lessiter's Sons.

Junior Champion Bull—Ribbon badge, Junior Champion Sull—Cup, Ineichen & Sons.

Junior Helfer Calf—First, Lessiter's Sons.

Junior Helfer Sons.

Junior Helfer Sons.

Junior Sons.

Junior Sons.

Junior Champion Bull—Ribbon badge, Jessiter's Sons.

Junior Sons.

Junior Sons.

Junior Champion Bull—Ribbon badge, Jay Smith, 2nd, Lessiter's Sons.

Junior Champion Bull—Ribbon badge, Jay Smith, Junior Champ.

Junior Champ. Female—Ribbon badge, Jay Smith, Ann Arbor, Mich.; 4th, John Lessiter's Sons.

Bull Syears of over—First, Junior Helfer Syears old or over—First and 2nd, Junior Champion Bull—Ribbon badge, Jay Smith, Sons, Clarentere & Ross.

Shorthorns—Open Cissa.

Bull Syears of over—First, Garpenter & Edwards; 2nd, L. C. Kelly.

Junior Champion Bull—Ribbon badge, Junior Champion B

Sons.
Senior Yearling Heifer—First and 2nd,
Rosenberger & Edwards; 3rd and 4th,
Jay Smith; 5th, Lessiter's Sons.
Junior Yearling Heifer—First, Carpenter & Ross; 2nd Lessiter's Sons.
Senior Heifer Calf—First and 4th, Carpenter & Ross; 2nd and 3rd, Rosenberger & Edwards; 3rd,
Junior Helfer Calf—First and 2nd,
Rosenberger & Edwards; 3rd,
Lessiter's Sons.
Sons, 4nd Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
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Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Carpenter & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Rosenberger & Edwards; 3rd,
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Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Carpenter & Edwards; 3rd,
Jay Smith; 4th, Lessiter's Sons.
Calf Herd—First, Carpenter & Edwards; 3rd,
Jay Smith; 4

Junior Champion
Hull Bros.
Senior Champ. Female—Ribbon badge,
H. W. Ayers.
Junior Champ. Female—Ribbon badge,
Hull Bros.
Grand Champion Bull—Cup, Hull Bros.
Grand Champion Female—Cup, H. W.

Oxford Downs.

Ram 2 years old or over—First, McKerrow & Son, Pewaukee, Wis.; 2d, Wm.
Cooper & Nephews, Chicago.
Ram 1 year old—First, 2nd and 4th,
McKerrow & Son; 3rd, Cooper & Nephews

ews Ram Lamb-First and 3rd, Cooper & Nephews; 2nd, McKerrow & Son. Ewe 2 years old or over—First, Cooper & Nephews; 2nd and 3rd, McKerrow &

Ewe 1 year old—First and 2nd, McKerrow & Son; 3rd and 4th, Cooper & Neph-

ews.
Ewe Lamb—First and 2nd, Cooper &
Nephews; 3rd and 4th, McKerrow & Son;
Flock—First, McKerrow & Son; 2nd,
Cooper & Nephews.
Four Lambs—First, Cooper & Neph-

Grand Champion Ram-Cup, McKerrow

Son. Grand Champion Ewe—Cup, McKerrow & Son.

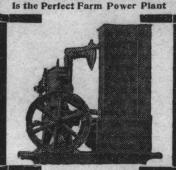
k Son; 4th, Parish & Son; 5th, Ineichen & Sons.

Junior Heifer Calf—First, Frank Hartine; 2nd and 3rd, Ineichen & Sons; 4th, Parish & Sons; 5th, Chase & Sons.
Exhibitor's Herd—First, Ineichen & Sons; 4th, 5th, James Reynolds.
Breeder's Herd—First, Frank Hartine; 3rd, Chase & Sons; 4th, Parish & Sons; 3rd, Chase & Sons; 4th, Parish & Sons.
Calf Herd—First, Ineichen & Sons; 2d, Parish & Sons; 3rd, Chase & Sons; 4th, Parish & Sons.
Four get of Sire—First, Ineichen & Sons; 2nd, Frank Hartline; 3rd, Chase & Sons; 4th, Parish & Sons; 5th, James Reynolds.

Two produce of Cow—First, Frank Hartline; 2nd, Ineichen & Sons; 3rd, Chase & Sons; 4th, Parish & Sons; 5th, James Reynolds.
Two produce of Cow—First, Frank Hartline; 2nd, Ineichen & Sons; 3rd, Chase & Sons; 4th, Parish & Sons; 5th, James Reynolds.
Senior Champion Bull—Ribbon badge, Ineichen & Sons.
Junior Champion Bull—Ribbon badge, Frank Hartline.
Senior Champ Female—Ribbon badge, Frank Hartline.
Grand Champion Bull—Cup, Ineichen & Grand Champion Bull—Cup, Ineichen & Grand Champion Eull—Cup, Ineichen & Grand Champion Eull—Cup, Ineichen & Grand Champion Bull—Cup, Ineichen & Grand Champion Bull—Cup, Ineichen & Grand Champion Eull—Cup, Ineichen & Grand Champion Bull—Cup, Ineichen & Grand Champion Bull—Cup, Ineichen & Grand Champion Eull—Cup, Cooper & Mephews; 2nd and Champion Ewe—Cup, Cooper & Mephews; 2nd Stand Champion Cotswolds.

Grand Champion Ewe—Cup, E. M.

KEROSENE costs less than gasoline gives more power not dangerous—can be bought anywhere. THE COLUMBIA EROSENE



It is not a cheap gasoline engine which can be run with kerosene—sometimes—as are so many so-called kerosene engines—but an engine designed and built expressly to use cold kerosene—an engine which gets the very greatest power from every gallon of oil it uses.

The Columbis is a wonderful engine.

Wonderful in its simplicity and compactness—wonderful in its simplicity and compactness—wonderful in its ease of starting and of control—wonderful in its ease of starting and of control—wonderful in the power which it provides.

And it is an absolutely safe engine. Your wife or your boy can run it without any danger of fire or explosion, without a chance of torn clothing and bruised fingers.

It uses ordinary lamp kerosene, and uses it cold, and therefore with absolute safety, No vaporizing or heating devices whatever.

And the dullest hired man anywhere can understand it and be trusted to run it.
Gasoline engines are mostly complicated, often dangerous.

Gasoline is risky stuff to handle—hard to get sometimes—and becoming more expensive all of the time.

But kerosene is safe—and cheap—and can be an engine of the deap—and can be a superior of the safe and cheap—and can be superior and cheap and can be superior and cheap and can be superior and cheap and can be superior and cheap and

often dangerous.
Gasoline is risky stuff to handle—hard to get sometimes—and becoming more expensive all of the time.
But kerosene is safe—and cheap—and can be bought anywhere.
We want to prove beyond a doubt, the absolute superiority of the safe, simple, economical Columbia engine, and we therefore sell every Columbia engine on Fiffeen PAYS FREE TRIAL.
Every engine moreover, carries our five year guarantee, a guarantee that is an absolute protection—for it is "Backed by a Million."
Write for our free catalog No. 25 today and the name of our nearest agent. You will be surprised at the saving which the Columbia will make for you.
Desiers everywhere are invited to write us for our exclusive agency proposition.
COLUMBIA ENGINE COMPANY,

COLUMBIA ENGINE COMPANY, Detroit, Michigan.



Snow! This FLEECE-LINED WOOL UNDERWEAR will keep me warm

WOOL Underwear is best for all seasons, especially Winter. State Depts. of Health recommend it.

WRIGHT'S HEALTH UNDERWEAR

is pure all-wool woren with a loop-stitch that can't mat after washing—won't close up the air spaces needed for ventilation. Also it is fleece-lined—won't irritate the skin—is soft and smooth. Perfect-fitting and long-wearing.
Wright's Health Underwear is made in all weights and styles for all seasons. Prices. \$1.00 to \$2.50 for Shirts and Drawers; \$1.50 to \$4.00 for Union Suits. If your dealer hasn't it, send us his name. Send for booklet showing fabrics.

Wright's Health Underwear Co. 88 Franklin Street, New York

Fine Live Stock Book Free!

Dr. David Roberts' Practical Home Veterinarian, 184 large pages, illustrated, is now Free to Live Stock Owners.

Gives symptoms, diseases and treatments for all live stock and poultry, the result of Dr. Roberts' life experience as veterinarian and live stock specialist. Apply at your drugstore and get a copy free. If not there, DR. DAVID ROBERTS VETERINARY COMPANY 967 Grand Avenue, Waukesha, Wis.



Postal Savings Bank Deposits are the only class we offer. Instead of the 2 5 the Postal Banks pay these Bonds will yield from 4 1/2% to 4 3/4% Write for FREE Ctrcular.

New First Nat'l Bank, Dept. Z-1 Columbus, O.

Father Mother Sister Brother

Don't work any more. Take advantage of these gas engine days on the farm and let the Sturdy Jack do your hard chores—pumping (for one cent he will pump enough water for a day's use on an ordinary farm), running the separator, the washing machine, yes, even the sewing machine,

> Gallor a Day

This

and a hundred other uses. Truck mounted, it can be moved instantly and set up to the work to be done. Never bucks. Runs in cold weather as well as in hot. Really making a revo-lution in gas engines because of its completeness.

This Gas Engine is the Friend of the Whole Family



A horizontal engine built just like the big fellows of 25 H. P. and more —one proof that the idea in it is right. Air-cooled or hopper-cooled. Bit we do not ask you to take our word alone. Investigate. Read our four books on engines. We will send them to you free. Tell you how an engine should be made in order to do effective work—advise you what points of importance to look for and insist upon—save you from buying engi s that have to be propped up and that lean upon their work. Even a small engine should stand alone. Write for these to-day. JACOBSON MACHINE MFG. CO. Dept. F. Warren, Pa.

DUNHAM'S

Our summer importation, in our estimation the best lot of horses we have ever had at Oaklawn, has arrived. Numerous impor-tant prize-winners are included, then the high average is the main thing, as every animal would be a creditin any herd. Write us,

DUNHAMS, Wayne, Illinois.



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THE LARGEST AND BEST LINE OF npii

MACHINERY in America. We have been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. 14. Send for it new. It is FREE.

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FEEDERS' PROBLEMS.

Beans as a Grain for Live Stock.

Beans as a Grain for Live Stock.

My last year's crop of beans, which I held over, commenced to heat when the warm weather came on in May and before their condition was discovered were so badly damaged that it made them unsalable. I would like to know how I can dispose of them now to the best advantage, either by using them as hog feed or grinding them with other grain to feed to my dairy cows. I have corn, oats and peas which I could grind and mix with the ground beans for a ration for my cows. Will you please advise me if the beans would make a profitable addition to the ration and in what proportion the corn, oats, peas and beans should be mixed to balance the ration. Also, please advise me if the beans would make a good feed for fattening hogs, if it should be mixed with their grain and in what proportion to get the best results.

Huron Co.

E. J. R.

Cull beans can be used to very good

Cull beans can be used to very good advantage in the grain rations for either hogs or sheep. For hogs they should be cooked for most economic results, and fed in combination with corn, making the beans about one-half of the grain ration. They can, however, be used as an exclusive ration in fattening hogs with success, although, as above noted, a greater comparative food value will be gotten from the beans when fed in combination

simply chew the cane to get the sugar or sweet and then spit out the pulp. The hogs do practically the same thing with the sweet corn. We only give them a few stalks at a time, otherwise they would waste it. This fills them up and satisfies them and vet does not overfeed

COLON C. LILLIE.

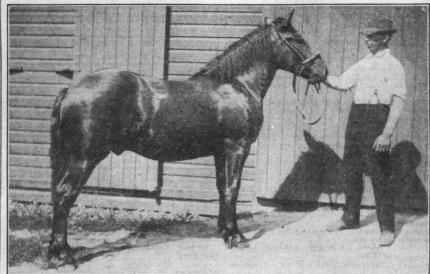
LIVE STOCK NOTES.

the ground beans for a ration for my cows. Will you please advise me if the control of the ration and in what proportion the form, oats, peas and beans should be mixed to balance the ration. Also, please divise me if the beans would make a good feed for fattening hogs, if it should be mixed with their grain and in what proportion to get the best results.

Huron Co.

Cull beans can be used to very good divantage in the grain rations for either good of most economic results, and it combination with corn, making the beans about one-half of the grain ration. They can, however, be used as an exclusive ration in fattening hogs with success, although, as above noted, a greater comparative food value will be gotten from the beans when fed in combination with corn.

For sheep they need no preparation and in what proportion to the degree they had announced was their program. They have been helped out some by the limited eastern shipping demand for hogs in the Chicago market, but on the other hand the reductions in prices have been resented by many stock feeders, who have ceased marketing their hogs, their plan being to wait for recoveries in values. As is so apt to be the case, a wide difference prevails between owners of hogs and butchers as to the supplies left back in the country, and there are several reasons for doubting the assertions made by the packers with much emphasis that the high prices that have prevailed all the summer packing season have, encouraged farmers owning young hogs and mere pigs to take the best care of them, and feed has been given them as a rule unstintingly, thereby developing them much more rapidly than usual. The re-



Percheron Colt Bred by M. A. Bray, of Ingham Co., which Weighed 1,140 lbs. at One Year of Age, (July 29, 1911).

may be fed in connection with corn and sots, using not more than one-quarter pound of beans per day for good results.

While beans may be ground and used as a factor of the grain ration for dairy cows, the best results have been secured from their use for cattle feeding when cooked. The writer has seen steers fattened on cooked beans as an exclusive grain ration, but more economic results would be secured with the same amount of beans by combining them with corn. If the hogs are available, however, it would be better to feed these damaged beans to them, since it is not as desirable to use moulded grain in the rations for dairy cows.

FEEDING BROOD SOWS.

My experience is that it requires a great deal of judgment to feed a lot of brood sows just before farrowing time. After they have far one where a little judgment comes in which to give them. Now, here is a chaine where a little judgment comes in which will satisfy the craving appetite of the brood sow, fill her up, satisfy her, and yet not overfeed her. For the past month our sows which are just beginning to far now have been fed a ration of a decline in ham prices to fore hosp lower and yet not overfeed her. For the past month our sows which are just beginning to far now have been fed a ration of a thom and abroad, is both reasonable in the resonable in the resonable in the resonable in the resonable in the following and yet the brood sow, fill her up, satisfy her, and yet not overfeed her. For the past month our sows which are just beginning to far now have been fed a ration of at how have and and yet not overfeed her. For the past month our sows which are just beginning to far now have been fed a ration of a deline in ham prices to force hogs lower and yet room and part of an improvement in the room and abroad, is both reasonable in the architecture of a partion of a the part of a ration of a deline in his part of a ration of a delin yet not overfeed her. For the past informed quarters of an improvement in the southern meat demand and of further to farrow have been fed a ration of a thome and abroad, is both reasonable ground barley and dried beet pulp. The ground barley and dried beet pulp. The beet pulp and barley were soaked from one feed to another and I am of the opinion that this is a most excellent ration for brood sows. The beet pulp is not a hearty food; its vegetable food has a certain amount of succulency and fills up and satisfies and does not overfeed. Then, too, for the past week or two we have been giving them a little sweet cornstalks from which the sweet corn has been removed. It is surprising to notice how they seem to enjoy this. They will eat the stalks practically all up clean and chew them. It reminds me of the people down south chewing cane. They people down south chewing cane. They

and seasonable, as the bulk of the trade, counting on past experience, is ahead of us and not behind us. Expectancy of the \$8 hog has gone aglimmering. Yet, cheap hogs are far, very far, off. Producers may bank on the hog returning good money for its keep for months to come."

Thomas Mortimer a prominent farm-

Thomas Mortimer, a prominent farmer, stock feeder and banker of Nebraska, predicts a great coming shortage in the marketing of large lard hogs, as during his recent travels he found the number of spring pigs was not as large as in vecent veers.

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(Continued from page 264). Grand Champion Ram-Cup, A. F. Freeborn. Champion Ewe-Cup. A.

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McLean; 2nd, C. D. McLean; 3rd, Wm. Newton.
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Advice through this department is free to our subscribers. Each communication wrif x. Initials only will be published. Many queries are answered that apply to case in full; also name and address of should state history and symptoms of the the same allments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

treat a wound of this kind and prevent a stream and the second of the se

A cattle loan company has been organized with a capitalization of \$5,000,000 to encourage hay feeding in Washington, Oregon, Idaho, Wyoming and Montana for the Puget Sound markets. Farmers need hay, as well as cattle, and both will be supplied, the loan to be canceled at the time the cattle are marketed. This move will aid in bringing about more extensive cattle feeding operations in the far west and decreased shipments of stock cattle to Missouri river markets for finishing in the corn belt. Heretofore it has been the prevailing practice to ship large numbers of stockers to Nebraska, North Dakota, south Dakota, and even to Iowa.

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Callife Farmstead Yorkshires—Holywell Manor and Oak Lodge blood predominates. Large Herd. Three service boars. Pairs and trios, not akin. Boars ready for service. A fine lot of spring pigs. Gilts bred for August farrow. The best hog on earth. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

GENERAL-PURPOSE POULTRY PRE-DOMINATES AT STATE FAIR.

in History of Fair.

So far as numbers go the poultry department of this year's fair did not compare very favorably with last year's rec-The total number ord-breaking show. of entries ran well above 1,500 as compared with 2,000 last year. Exclusive of the bantams and strictly fancy breeds, more than 1,000 chickens were on exhibition, as against 1,400 last year.

The surprising feature of the show was the strength shown by the four wellknown general-purpose breeds-Rocks. Wyandottes, R. I. Reds and Orpingtons. egg-laying breeds, composed of Leghorns, Minorcas, Polish, Hamburgs and Houdans, by nearly 100, a complete reversal from last year when the strictly egg-laying breeds furnished nearly one-half the entries. Another surprise was found when it came to ranking the so-called general-purpose breeds, the Orpingtons proving the leaders in this group with more than 150 entries. They were followed by the Wyandottes, Rocks and R. Orpingtons were in fourth position. Five etc. varieties of this breed were shown, the whites greatly predominating. The Wyandotte class was made up of eight varieties, well balanced as to strength and generally good in quality. Among the six varieties of Rocks were the Columbian and Silver Penciled which are comparatively new and whose development has not yet reached the generally ac- place for itself upon many farms al- a strip of wood 11/2 in. wide, beveled on cepted Rock standard. Otherwise this class showed up well on the score of

Among the egg layers the Leghorns on exhibition. There were five varieties, the whites being strong favorites, folgroup came the Minorcas, principally of the black variety. The Polish breed followed closely in numbers, being try. In fact, there are a great many are narrow 3-in. galvanized butts with represented by four varieties, but the who do not even know the results of the brass pins, made to work very easily. It general high quality which characterized efforts of their laying flocks in the ag- is necessary to use hinges which will not last year's exhibits of this breed seemed gregate, let alone trying to determine rust. lacking. The Hamburgs were shown in which members of those flocks are profit seven varieties, all light in numbers but producers. containing some very creditable speci-Houdans completed this group.

specimens and one excellent breeding operation; (2) greater simplicity of conpen, the quality was inferior. The struction, with less tendency to get out Bronze variety led, followed closely by of order and work badly; (3) saving of the Narragansett, White, Buff and Bour- labor in resetting the nest after use bon Red.

-contained little besides water fowl, the in. wide and 16 in. deep, inside measure. Strongest Showing of Ducks and Geese best ever seen at a state fair in this from the bottom, is placed across the state. Not only was there a big gain in box 12 in. from the rear end and 15 in. numbers of both ducks and geese, but from the front end. The rear section the quality of the stock was all that is the nest proper. could reasonably be asked. Ducks led with nearly 150 fowls while the geese fixed bottom. Instead there is a movable aggregated nearly 100. Among the ducks, bottom or treadle which is hinged at the Pekins, Rouens, Muscovys and Cayugas back end. To this treadle is hinged the were numerous with nearly every pen door of the nest. The treadle is made containing fowls of more than average of ½-in. pine stuff, with 1½-in. hardwood quality. There were several excellent cleats at each end to hold the screws quality. pens of Indian Runners and some good representatives of the Grey Call and wide and 121/2 in. long. Across its upper Crested White breeds.

These breeds outnumbered the group of in quality and condition. The Toulouse beveled on both sides; the door of the China and African breeds led. also were well represented. To growers frame, to the inner side of which is show was both interesting and helpful.

pearance at former fairs, was this year top and bottom of the door. taken care of in a new and roomy annex the door is a strip of hard wood 12 in. to the poultry building. Here were long and 11/2 in. wide, halved in 23/4 in. quartered the breeding pens, a creditable from each end. The projecting ends of I. Reds in the order named. Last year display of Belgian hares and such mis- this top strip serve as stops for the door the Wyandottes led in this group and the cellaneous entries as guineas, pea fowl, when it closes. The bottom of the door of incubators and brooders, as well as strips are fitted into the ends of this botthe dealers in general poultry supplies, tom strip in such way as to project much better accommodations than they slightly (about 1-32 in.) above the front have previously enjoyed at this fair.

FINDING THE HEAVY LAYERS.

though there is little doubt that this devalue of such knowledge is not fully ap-

It must be admitted that the expendimens of the breed. A light showing of ture of no little time and labor is involved in the trap-nesting of a flock of The meat-producing breeds came last hens. As has been stated in these colas usual, but the falling off in numbers umns a number of times, the perfectly

The nest is a box-like structure, with-The old annex of the poultry building out front, end, or cover, 28 in. long, 13 showing here being unquestionably the A division board, extending up six inches

The front portion of the nest has no which fasten the hinges. It is 12 in. face, just behind the hinges holding the The geese were almost uniformly high door, is nailed a pine strip, 4 in. wide, Embdens nest is not made solid, but is an open of water fowl a study of this part of the fastened a rectangular piece of 1/4-in. mesh galvanized screening (dimensions The overflow of poultry, as well as of 8x9 in.). The sides of the door are strips poultry appliances, which has given this of 34-in. stuff 12 in. long and 11/2 in. department a crowded, unfinished ap- wide halved at the ends to join to the It also afforded the manufacturers is a hardwood strip 104x4 in. The side surface of that strip, for a reason which will be apparent.

When the nest is open the door extends horizontally in front. In this posi-As yet the trap nest has not found a tion the side strips of the door rest on the inner corner, which extends across vice could be used by farmers who are the front of the nest. This strip is nailed earnestly striving to make their poultry to the top of a board 4 in. wide, which Among the egg layers the Leghorns yield a profit. The trap nest offers prac- forms the front of the nest box proper, were strong leaders with nearly 20 fowls tically the only means of determining To the bottom of this is nailed a strip which hens are paying a profit on their 2 in. wide, into which are set two 4-in. feed and care and which ones are being spikes from which the reads have been lowed by the buffs and browns. Next in kept at a loss, but the importance and cut. The treadle rests on these spikes when the nest is closed. The hinges preciated by the average owner of poul- used in fastening the treadle and door

How Nest is Operated.

The manner in which the nest operates is readily apparent. A hen about to lay steps up on the door and walks in toward the dark back of the nest. When she passes the point where the door is hinged to the treadle her weight on the treadle causes it to drop. This at the same time pulls the door up behind her. It is then impossible for her to get out until the attendant lifts the door and treadle and resets it. The nest is extremely simple. It has no locks or triggers to get out of order. Yet, by proper balancing of door and treadle, it can be so delicately adjusted that a weight of less than half a pound on the treadle will spring the trap. All bearing surfaces are made of beech because of the well-known property of this wood to take on a highly polished surface with wear.

These trap nests are not made with covers because they are used in tiers and slide in and out like drawers. They can be carried away for cleaning when necessary. Four nests in a pen accomthrough the pens once an hour, or a litbox not divided into two sections she

In this connection it may be said that hens showed a preference for the trap The features in which this nest is con- nests. The explanation offered is that



There is no needless delay about putting the horses up for the night and getting into your own comfortable home when the work is lightedand lightened-by a Rayo lantern. Rayo lanterns give such a strong, steady light you can put your hand on what you want in a second.

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Made in all kinds of styles and sizes, to suit any use.

Finest material and workmanship; most light for the oil consumed; will not blow out.

All Rayo lanterns are equipped with selected Rayo globes, clear, red or green, as desired. Wicks inserted in burners, ready to light.

Dealers everywhere; or write for descriptive circular direct to any agency of the

Standard Oil Company (Incorporated)



Blue Bell Barred Rocks—Prize-winners in Chicago, Handsome and profitable. Young and old stock for sale a low prices. LAKE RIDGE FARM, Levering, Mich.

"EGGMAKERS"-S. C. Brown Leghorn Cockerels State wide reputation. I can suit you. Write me. Wm. J. Cooper, Mt. Pleasant, Mich.

RGGS: EGGS: EGGS-White & Buff Orpington White & Barred Rocks, Black & White Minorcas White & Buff Leghorns, Rose & Single Comb Reds Houdans & White Crested Blk Polish. H. H. King, Willis, Mich

RINGLET BARRED PLYMOUTH ROCKS-Fine healthy, well Barred cockerels and pullets a right prices, R. J. SCHLONEGER, Pigeon, Mich.

THOROUGHBRED S. C. BROWN LEGHORNS. A fine lot of COCKERELS at right prices. LEWIS T. OPPENLANDER, R. No. 4, Lansing, Mich.

R. C. B. Leghorn Cockerels Kulp strain, the best

SINGLE COMB BLACK MINORCAS—A few more, pull \$1.50 per setting. R. W. MILLS, Saline, Michigan. LILLIE FARMSTEAD POULTRY

B. P. Rocks, R. I. Reds, W. Wyandottes and S. O. W. Leghorn eggs for sale, 15 for \$1, 26 for \$1.50; 50 for \$2.50. COLON C. LILLIE, Coopersville, Mich.

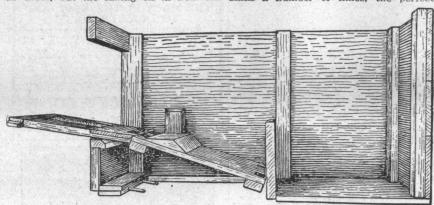
SILVER, Golden and White Wyandottes of quality, young stock after November 1st. Fine circular free. A few white roosters. C. W. Browning, Portland, Mich.

WHITE WYANDOTTES—Useful and beautiful. The kind that weighs, lays and pays. A. FRANKLIN SMITH, Ann Arbor, Mich.

DOGS.

NOW WRITE W. J. ROSS. Rochester, Mich., for those beautiful sable and white and tricolor Collie Puppies. Finest breeding, natural workers.

MENTION the Michigan Farmer when writ-



Improved Trap Nest Now in Use at the Maine Experiment Station.

Light and Dark Brahmas.

are solely egg producers.

ings, Anconas, Black Spanish, Domin- time, with a view to handling their win- careful experiments with trap nests of Andelusians, and a fairly strong exhibit ner than ever before, the following de- the fact that, where trap nests were of Indian Games, completed the chicken tailed description of this new nest is placed alongside of ordinary nests, the part of the show.

Turkeys and Water Fowl.

here, when compared with other years, automatic trap nest has not yet been in- modate 20 hens by the attendant going was not so noticeable as in the egg-lay- vented. A number of successful and ing group. The three breeds-Langshans, comparatively simple trap nests are, tle oftener, during that part of the day Brahmas and Cochins-showed about however, in use, and they are yearly when the hens are busiest. The hens The Partridge proved the demonstrating the value of the system must all have leg bands in order to leader among the four varieties of Co- as a means of weeding out non-produc- identify them. When a hen has laid an chins, while in the Langshan class the ing hens and of making possible the egg and desires to leave the nest she whites and blacks were about evenly di- building up of strains of heavy layers steps out into the front space and revided and the same may be said of the through the continued use of the best mains there until released. Were the egg producers as breeding stock.

The number of breeding pens also Among the experiment stations that would be likely to crush her egg by stepfailed to come up to last year's high have done much to demonstrate the ping upon it, and thus learn the permark, there being less than 50 pens en- practicability of the trap nest none has nicious habit of egg eating. To remove tered. Here, too, the decline was heav- shown better results than that of Maine, a hen the nest is pulled part way out. iest among the egg-laying breeds, a fact Progressive poultrymen are more or less As it has no cover she is readily caught; which seems to warrant the assertion familiar with the style of nest devised the number on her leg band is noted and that the low egg values prevailing during and used by this station. However, dur- the proper entry made on the record the past season have had a tendency to ing the past year this nest has been, to sheet. After having been taken off a divert attention from those breeds which some extent, simplified and improved, few times the hens do not object to being For the benefit of those who are study- handled. A scattering showing of Javas, Dork- ing the trap-nesting problem at this Red Caps, Black Sumatras and ter layers in a more business-like man- this and other designs have demonstrated given:

Turkeys were present in about the sidered superior to the type formerly the hen soon learns that in the trap nest usual number but, barring a few good used are: (1) certainty and precision of she cannot be disturbed by other fowls.

THE DAIRY

CONDUCTED BY COLON C. LILLIE.

DAIRY INTERESTS AT THE STATE FAIR.

The exhibition of cattle of the dairy breeds was not up to the standard of former exhibits under the auspices of the Michigan State Fair. The management attributed this to two reasons; first, the rule put in force by the directors which provided that every Michigan exhibitor who won a place with his animals be awarded 20 per cent additional prize money to the amount listed, providing the animal or animals shown were bred by the exhibitor. This arrangement was severely criticized by outside exhibitors who, finding the directors determined, refused to send their herds to the show at class of people to seek the patronage of, Detroit. Another reason lay in the 10day proposition, which required that the entries be held at the fair grounds from Monday through to the following week your wares and because of this apprecia-Wednesday. To these conditions are attributed the small showing of dairy cat-tle, the quality of which, however, was well up to the standard of former years, and merited the close examination of dairy cattle fanciers. Awards are given in another column of this issue.

In the dairy tent were shown the explies; novelties in the line of separators, other hand, many families are unable to churns, buttermakers and other apparttus, as well as standard lines of goods, the public. The center of the tent space should not, therefore, be too particular was occupied by a large refrigerator, in as to whom they approach on this propwhich butter, cheese and other dairy osition. products were displayed. The educa- It is tional and demonstration work was on a first customer. Just how this is to be more extended and systematic basis this done is largely dependent upon the paryear, and while the present show did not ticular circumstances under which the include the full development of the de- dairyman is operating. If he has friends partment's plans, yet considerable inter- living in cities that are available to him est was attached to this phase of the as a market, he can likely get a start dairy business. A barn 34x80 ft. has through them; if he is a short distance been constructed after plans furnished from such a city personal solicitation the United States Department of Agriculture. Two silos are built in con-function with this barn. The floor is tomers may "land" some and advertis-made of cement with gutters. Stalls of ing in local papers would likely produce function with this barn. The floor is made of cement with gutters. Stalls of different types have been erected, litter carriers, feed carriers, water devices, milking machins, and other equipments found in the up-to-date barn are installed. Cows were also kept in the barn which enabled milking machine demonstrations to be carried on. The milk thus secured was taken to the dairy building and there manufactured into butter. The processes of milking, separated functions with this barn. The floor is tomers may "land" some and advertisting in local papers would likely produce Exhibitor's Herd—First, Pierson Stock Farm.

Exhibitor's Herd—First, Pierson Stock Farm.

Exhibitor's Herd—First, Pierson Stock Farm.

Calf Herd—First, Callam Stock Farm; and, Pierson Stock Farm.

The increasing of the number of customers and holding them, are, of course, the important and most difficult part. If one fails in this he should look to some building and there manufactured into other means of selling his milk or butter.

The processes of milking, separated for the first pierson stock Farm.

The increasing of the number of customers and holding them, are, of course, the important and most difficult part. If one fails in this he should look to some stations to be carried on. The milk thus secured was taken to the dairy building and there manufactured into other means of selling his milk or butter.

The processes of milking, separated for the first produce the often can make the produce he often can make the pro building and there manufactured into other means of selling his milk or but-butter. The processes of milking, sepa-ter, for he cannot afford to be constantly rating, churning and working the butter were all in evidence. It is contemplated by the management to extend this work so that another year the silos will be filled with corn harvested on the grounds and brought to the silo and made into silage. Manure will be handled by to-date dairyman will be given in a man-

of the liberal use of dairy products. A the work of the dairy department was more or less hampered through the failure to secure its building, it must be stated that the exhibit, especially the monstration work, was of wide interest ing to the buyer. If this is done well, and an educational value that imthen the man who attempts disposing of the certain to succeed. Two produce of Cow—First, W. P. Schenck; 2nd, Adam Seitz; 3rd, Wallace McDonald. Senior Champion Bull—Ribbon badge, which will be congratulated on its accompany. and had an educational value that impressed patrons interested in the dairy his butter is quite certain to succeed. business as being equal to and superior should be congratulated on its accomplishments for the dairy industry of Michigan and it is hoped that the contemplated plans but begun this year will be speedily completed for the encouragement and building up of this, one of the most important interests of our great commonwealth.

THE MICHIGAN FARMER.

Yearling Bull—First, E. S. George; 2nd, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 3rd, Fisherton Farms; 2nd, H. F. Probert; 4th, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles.

Senior Bull Calf—First, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles.

Cow 4 years old or over—First and 2nd, E. S. George; 3rd, H. F. Probert; 4th, H. B. Wattles; 5th, Fisherton Farms.

Cow 3 years old—First and 2nd, E. S. George; 3rd, H. F. Probert; 4th, H. B. Wattles.

Heifer 2 years old—First and 2nd, E. S. George; 3rd, H. F. Probert; 4th, H. B. Wattles; 5th, Fisherton Farms.

Senior Heifer Calf—First and 2nd, E. S. George; 3rd, H. F. Probert; 4th, H. B. Wattles; 5th, Fisherton Farms.

Senior Heifer Calf—First and 2nd, E. S. George; 3rd, H. F. Probert; 4th, H. B. Wattles; 5th, Fisherton Farms.

Senior Heifer Calf—First and 3rd, H. B. Wattles; 2nd, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles; 5th, Fisherton Farms.

Senior Heifer Calf—First and 3rd, H. B. Wattles; 2nd, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles; 2nd, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles; 2nd, E. S. George; 2nd, H. F. Probert; 4th, H. B. Wattles, 3rd, Fisherton Farms.

Senior Heifer Calf—First and 3rd, H. B. Wattles; 3rd, Fisherton Farms.

Senior Heifer Calf—First and 3rd, H. B. Wattles; 3rd, Fisherton Farms.

Senior Heifer Calf—First and 3rd, H. B. Wattles; 3rd, Fisherton Farms.

Four get of Sire—First, E. S. George; 2nd, H. F. Probert; 3rd, H. F. Prob

tion settles for them with good grace, We mention this, inasmuch as many attempt to find customers among those who live in brown-stone fronts, and after being turned down give up in despair. Inconsistent as it may seem, many people become able to live in brown-stone bert fronts because they scrimp in what they hibits of the manufacturers of dairy supput on an outward appearance because they delight in satisfying their palates here exposed to the inspection of with the best that can be had. One

It is not usually difficult to secure the would undoubtedly result in a satisfactory

other means of selling his milk or but- Junior Champ ter, for he cannot afford to be constantly Fred E. Shubel. hunting up new patrons. The matter, however, is simple of solution, for after he has once gotten a customer, the quality of the product sold to that customer should advertise it among others. A product of good quality made the same each time, so that the man who buys spreaders and every practice of an up- it knows precisely the kind of goods he will secure at the next delivery, is sure ner similar to that practiced upon an to win. In conversation with his neighbors, he will tell them of the satisfaction The State Dairy and Food Department he is getting; they will then desire to be had its display in the dairy tent. Here supplied from the same source. By this 2nd, were charts illustrating the values of the means customer after customer will be different foods showing the advantages added until the capacity of the dairy is reached. Then comes the period where unique way of impressing the mind of many men are tempted in a direction the consumer, as well as the producer, which often means their downfall. So with the work connected with the pro-duction and distribution of milk, was brought out by the "pipe line" which il-attractive figures secured from these palustrated the barn in which the product trons encourage buying from neighbors was made, its travels to the dairy house, for the purpose of reselling to the city from there to the milk station, thence folks, then trouble is likely to begin for for the purpose of reselling to the city Wallace McDonald. Yearling Heifer—First, Wallace McDonald; 2nd and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 2nd, Wallace McDonald; 2nd and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 2nd, Wallace McDonald; 2nd and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 2nd, Wallace McDonald; 3rd and 4th, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck. Senior Heifer Calf—First and 3rd, Adam Seitz; 4th and 5th, W. P. Schenck; 3th and 5th, W. P. S was performed upon the grounds. While waiting list rather than to try to supply every person who wishes to try the "new butter man." The proposition, therefore, resolves itself into one of making a good product and delivering it in a way pleasdemonstration work, was of wide interest ing to the buyer. If this is done well,

FAIR.

Bull 3 years old or over—First and 4th, H. F. Probert, Jackson; 2nd, Edwin S. George, Detroit; 3rd, H. B. Wattles, Troy. Bull 2 years old—First and 3rd, E. S. George; 2nd, H. B. Wattles; 4th and 5th, Fisherton Farms, Pontiac;

Farms.
Senior Champion Bull—Ribbon badge,
H. F. Probert.
Junior Champion Bull—Senior Champion Female—
Ribbon badge, E. S. George.
Grand Champion Bull—Cup, H. F. Probert

Grand Champion Female-Cup, E. S. George.

George.

Bull 3 years old or over—First, Pierson Stock Farm, Hadley.
Bull 2 years old—First, Callam Stock Farms, Saginaw.
Yearling Bull—First, Fred Shubel, Lansing; 2nd, Pierson Stock Farm.
Senior Bull Calf—First, Pierson Stock Farm.

Senior Bull Calf—First, Pierson Stock Farm.
Junior Bull Calf—First, Callam Stock Farm; 2nd, Pierson Stock Farm.
Cow 4 years old or over—First, Pierson Stock Farm; 2nd, Callam Stock Farm.
Cow 3 years old—First, Callam Stock Farm; 2nd, Pierson Stock Farm.
Heifer 2 years old—First, Pierson Stock Farm; 2nd, Callam Stock Farm.
Yearling Heifer—First and 2nd, Pierson Stock Farm; 3rd and 4th, Callam Stock Farm.

Farm.
Senior Helfer Calf—First and 2nd, Pierson Stock Farm; 3rd and 4th, Callam Stock Farm.
Junior Helfer Calf—First and 2nd, Callam Stock Farm; 3rd, Pierson Stock

Fred E. Shubel.
Senior Champ Female—Ribbon badge,
Pierson Stock Farm.
Junior Champ, Female—Ribbon badge,
Pierson Stock Farm.
Grand Champion Bull—Cup, Fred E.

Shubel

Grand Champion Female-Cup. Pierson Stock Farm.

Stock Farm.

Ayreshire.

Bull 3 years old or over—First. Wallace McDonald, Mesa, Arizona; 2nd, W. P. Schenck, Avon, N. Y.; 3rd, Adam Seitz, Waukesha, Wis.; 4th, W. P. Schenck. Yearling Bull—First, Wallace McDonald; 2nd, Adam Seitz; 3rd, W. P. Schenck. Senior Bull Calf—First, Adam Seitz; 2nd, Wallace McDonald; 3rd, W. P. Schenck.

2nd, Wallace McDonald; 3rd, W. P. Schenck.
Junior Bull Calf—First and 2nd, Wallace McDonald; 3rd, Adam Seitz; 4th, W. P. Schenck.
Cow 4 years old or over—First and 4th, W. P. Schenck; 2nd and 5th, Wallace McDonald; 3rd, Adam Seitz.
Cow 3 years old—First and 3rd, Adam Seitz; 2nd and 4th, W. P. Schenck; 5th, Wallace McDonald.
Heifer 2 years old—First and 5th, Adam Seitz; 2nd and 3rd, W. P. Schenck; 4th, Wallace McDonald.

Wallace McDonald.

Adam Seitz

Adam Seitz.

Breeder's Herd—First, Wallace McDonald; 2d, Adam Seitz; 3rd, W. P. Schenck.
Calf Herd—First, Adam Seitz; 2nd,
Wallace McDonald; 3rd, W. P. Schenck,
Four get of Sire—First, W. P. Schenck;
2nd, Wallace McDonald; 3rd, Adam Seitz.

Adam Seitz

Adam Settz.
Senior Champ. Female—Ribbon badge,
W. P. Schenck.
Junior Champ. Female—Ribbon badge,
Wallace McDonald.
Grand Champion Bull—Cup, Wallace
McDonald.

Grand Champion Female—Cup, W. P.

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Ask those who are discarding disk-filled and other complicated cream separators for Tubulars why they do it.

They will tell you how much more Tubulars make for them. There is cash value in the fact that Tubulars have twice the skimming force of others, and therefore skim faster and twice as clean. They will tell you of the unequalled durability of Tubulars. A regular hand-driven Tubular recently finished work equal to 100 years service in a five to eight cow dairy—and the total cost for oil and repairs was only \$1.15. Tubulars wear a lifetime. Guaranteed forever by America's oldest and world's biggest separator concern.

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When you see why others are discarding less modern separators for Tubulars, you will realize that you, yourself, will finally have a Tubular and had better get it now. You cannot afford any other, for Tubulars repeatedly pay

repeatedly pay for themselves by saving what

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11½ CENTS A ROD UP.

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BUSINESS DAIRYING.

Speaking generally, the final test of be first system promised 991 pounds, the periments in later issues. 1,475 pounds, the third 2,025 pounds, and the fourth 3,150 pounds of milk per acre. The first system returns \$15.20 worth of milk per acre, the second \$48.30. And again, the first system gives the annual return of \$2,632 from a 160 test against this fact. It is unbusiness-acre farm, the second \$3,890, the third like and unscientific to feed all dairy \$5,312, and the fourth \$8,263. Reviewing cows the same grain ration. To trust the system again we find that the farmer entirely to one's judgment as to the using the first system suffers an annual amount that each cow should be fed puts loss of 1,900 pounds of nitrogen, while



An Excellent Allegan County Herd.

to the soil of their respective farms.

acres of corn, 38 acres of oats, 19 acres of timothy, 57 acres of pasture, while eight acres are occupied by roads, yards, buildings, etc. By the second system, 57 acres of corn are grown, 19 acres of oats, 19 acres of clover, 19 acres of clover and timothy, 38 acres of pasture, eat, more than is good for them to eat, with eight acres of roads, yards, buildings, etc. By system No. 3, 57 acres of corn are grown, of which 19 acres are sown to rye the last cultivation, 19 acres of oats, 19 acres of clover, 38 acres of pasture, 19 acres of alfalfa, with eight acres occupied by roads, yards, buildings, By system No. 4, 95 acres are devoted to corn, of which 57 acres were sown to rye the last cultivation, 57 acres devoted to alfalfa, and eight acres to roads, yards, buildings, etc. Thus, by each system the same amount of land is used. By system No. 1 the owner is enabled to keep 38 cows upon 160 acres, by system No. 2 he keeps 51 cows, by system No. 3 he keeps 65 cows, and by system No. 4 100 cows.

The comparisons made above are merewere upon the basis of production of average cows and average crops. The different systems, however, were tried on the most milk, she ought to anyway, and were upon the basis of production of avreal dairy farms, and the results showed she does. Now then, milk that is rich that the conclusions reached in the the- in butter-fat is also rich in other solids, the same as on the dairy farms. It was feed these cows in proportion to the calculated that in following system No. amount of milk which they give the cow 1, 991 pounds of milk would be produced that is giving the rich milk doesn't get per acre, whereas, on the farm follow- grain in proportion to the cow that gives ing that system 994 pounds were actually the poorer milk, and I believe that the produced. It was necessary, however, to Wisconsin Experiment Station rule purchase \$400 worth of feed. System No. feed a cow in proportion to the butt produced. acre and the farm following that system ciple, and I don't think you can get a produced 1,341 pounds of milk per acre, better rule than to feed a cow as many it being necessary to secure \$500 worth pounds a day of grain as she produces of feed from outside sources. System pounds of butter-fat in a week. No. 3 promised 2,025 pounds of milk per acre, whereas, on the farm following this system 2,145 pounds of milk were produced, and the outside food purchased amounted to \$1,100 worth. System No. 4 promised 3,150 pounds of milk per acre and the farm using this system actually gave 4,185 pounds, with no feed purchased from butside sources.

A careful study of these figures unfolds to the dairyman an opportunity for mental activity. With the wide range of difference between the results from the farm following system No. 1 and that following system No. 4, he cannot help but realize that his system of cropping ers.

may mean a splendid success for him or an unfortunate failure. No one should so blind to his own interest as to what constitutes a profitable dairy is the think that his condition will not admit amount of milk and butter-fat produced of a change in crop rotations to effect a from the feed grown upon a single acre larger total of digestible nutrients for his of ground. In reducing results to this animals. While it is usually true that test, one not only determines the effi- the practices followed in any community ciency of his cows, but also the kind are the product of long experience and and quality of crops that must be grown much thought, yet of recent years this in order to secure a maximum of digest- rule has been interrupted so many times ible nutrients for the animals. The Illi- by men who follow out scientific teachnois Experiment Station has conducted ings, that farmers should not rest satiswork along this line, the results of which fied with present practices until they point out forcibly to the dairyman the have clearly demonstrated to themselves importance of following a proper system that proposed systems are not improvein his dairy farming. Four different sys- ments over those they are now following. tems are used in the comparison. The We shall hope to give more of these ex-

FEEDING DAIRY COWS.

The cow that produces the most ought \$22.60, the third \$31.05, and the fourth to receive the most feed. No one can find an argument that will stand the test against this fact. It is unbusinessgreat deal of responsibility upon the feeder. Where a farmer has a few cows and feeds them himself, of he has good judgment as to feeding, he probably can get the best results out of this manner feeding, but where one has a commercial herd of cows, and has to depend almost entirely upon hired help to feed them, some rule should be established in feeding so that the cows will not be overfed or underfed, and will at the same time give the cow that produces the most milk, the most grain. I am not very much of a stickler on the amount of roughage. This can be left entirely to the feeder and to the cow. Feed the cow all the corn silage she will eat up clean twice a day, and don't waste it, feed the cow all the clover hay she will eat up twice a day, and the same way with all the rest of the roughage ration that is This is a simple matter. There is fed. not very much danger from overfeeding the second adds 1,100 pounds, the third as it is practically impossible to over-2,280 pounds, and the fourth 5,830 pounds feed a cow on roughage. She won't eat enough to hurt her. But it is easy to By the first system there are grown 38 overfeed a cow on grain, especially some cows on some kinds of grain, because it is a well known fact that cows sometimes develop a wonderful appetite for a particular kind of grain and they will eat almost all that you care to give them. They will eat more than they ought to and increasing the grain ration to find out how much he could feed her he would soon have her out of condition, and possibly sick. It requires nice judgment to feed a cow in this way and it requires a very painstaking man, one who observes every conditionl about the cow, and with a commercial herd where one depends almost entirely upon hired help, is not practical. I have been studying this question a great deal the last few Someone has advised a rule to years. feed a cow grain in proportion to the number of pounds of milk they give in The rule would be to give a pound of grain for every three or four pounds of milk which the cow gives, but this is not scientific because milk differs so in quality. One cow gives five per theoretical, the results calculated cent butter-fat in her milk and the other oretical perspective were substantially casein and milk sugar, therefore, if you promised 1,475 pounds of milk per fat which she produces is correct in prin-

CATALOG NOTICES

"Reliable Power from Kerosene!" is the title of a handsomely illustrated, 32-page catalog issued by the Columbia Engine Co., of Detroit, Mich., fully describing and illustrating their kerosene engines for farm work and explaining their points of superiority.

"The Sport Alluring!" is the title of a handsomely printed, 36-page booklet published by the E. I. Du Pont De Nemours Powder Co. of Wilmington, Del. This is a very interesting book on trap shooting and contains much valuable and interesting information with regard to this sport, as well as hints to beginners who would learn to excel as trap shooters.



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LET me tell you what this means. It means that the first ten men from your township, who answer this announcement, will get a proposition, in the engine they need, as good as a gift from \$25.00 to \$300.00 according to the size wanted.

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The Lawrence Pub. Co.,

Detroit, Mich.

DETROIT, SEPT. 30, 1911.

CURRENT COMMENT.

Providence That Canada Defeats the guides the destiny of nations seems Reciprocity Pact. to have been again

evidenced in the utter defeat of the Canadian reciprocity pact by the electors of Canada in the general elections of last week, when reciprocity was the sole issue There would appear to be no other good explanation for the fact that the people of Canada so decisively rejected a trade agreement with the United States which was so manifestly in their own favor. Unquestionably the arousing of the sentiment of patriotism by sounding a warning regarding the possible danger of future annexation had a great influence in the resulting vote, and it seems probable that this was the factor which contributed most largely to the result. Perhaps, also, the Canadian people were suspicious that it might be a 'gold brick," on the principle that it "was too good to be true."

Be that as it may, the people of Canada accomplished for the farmers of the scale and held the crowds until the close United States what they were unable to of the program. accomplish for themselves in the defeat of this measure. That the pact in op- fair may well be considered the greatest eration would have been detrimental to yet held in Michigan. Moreover, it was the interests of the farmers of this coun- the cleanest and best conducted. The try, and that its baneful influence had saloon feature which was objectionable been largely anticipated in our home to many patrons of the fair in former markets is amply proven by the immedi- years was conspicuous by its absence and ate response of those markets upon the a more rigid censorship of the midway reecipt of the news as to the outcome of features was exercised by the officials more profitable is to get better prices for the Canadian elections. The wheat mar- than has been the case in other years, the products of the farm. The people of the Canadian electrons. The wheat that has been than has been than has been than that has been than the horal market and gratulated upon the features above enu-

position taken by the farmers of Mich- cerned. The administration is practically by the Michigan Farmer in no uncertain ings before the sub-committee of congress marketing is the desirable solution of this words during the entire campaign for last summer have weakened the opposi- problem. The work which has been done

months during the present year. The post not a little. failure of the reciprocity pact in Canada recent elections remains in power.

The Michigan State The State Fair. Fair for 1911 has passed into history and, all

things considered, may properly be said to have been the best agricultural show yet held in Michigan. The fair grounds are in better shape than ever before and the buildings and improvements which have been added each year have given more room for the placing of exhibits and have resulted in a better distribution of the crowds attending the fair, so that the visitor who has only a limited time to spend could this year see the exhibits to better advantage than ever before.

The success of the fair was seriously threatened at the outset by the strike of the street railway men which tied up the city's car service on Wednesday, which would otherwise have been the big day of the week as the weather was perfect. The rain on the following day also kept many from the fair who would otherwise have gone and the news of the settlement of the street car strike did not reach country people in season for them to have attended in any event. Undoubtedly this misfortune kept a great many farmers from the fair who would otherwise have come, but notwithstanding showers on one or two succeeding days, the attendance for the balance of the nine days of the fair was very satisfactory and the exposition has undoubtedly been successful from a financial standpoint, notwithstanding the severe handicap with which it was early confronted.

The new dairy demonstration barn and the dairy building, which for this season was covered by a large tent, provided room for exhibits which had heretofore been crowded and proved an interesting feature of the fair as has been noted in another department. The live stock exhibit was fairly good, some of the departments being especially strong; a few weak spots making the above qualification necessary. The other departments of the fair were all very good, the agricultural and horticultural exhibits being strong, while the machinery exhibit was more extensive than at any previous fair. The automobile building was well filled with exhibits in this line, and in fact every department of the show was fairly representative of the best products of all parts of the great State of Michigan, both agricultural and industrial, with much of the best which the entire country affords on exhibition.

The entertainment features were good. Choice music being rendered from the for those who enjoy this sport. The evening entertainments were very attractive, the horse show which was given each night being most attractive, and was watched with greater interest on account of its being a part of the judging program. The fireworks display with which each evening's entertainment was nels of distribution, through which the closed, was featured on a magnificent

other products of our farms. This result tive work for the establishment of an is ample proof of the correctness of the adequate parcels post by congress is conigan and other border states upon this committed to the establishment of at proposition, which attitude was voiced least a limited parcels post, and the hear-

The matter may now, be considered as lic. A writer in one of the leading magafinally disposed of for many years to zines recently referred to an interview cant. the people who did not want a parcels post. that the majority of his constituency were indifferent in the matter.

If a majority of our congressmen should continue to feel in the same way, parcels post legislation would not be pushed in the next regular session of the present congress. If, however, they had visible evidence that there was a great general interest in this proposition the results time, the matter is largely in their own support a liberal parcels post measure at the final purchase price. the coming regular session of congress. mean much in the final outcome of this important matter.

A discussion of The Government and the the marketing problem as it Marketing Problem. affects farmers

would be incomplete unless the proper relations of the government in this connection were considered. It would appear from a careful study of the situation, that there is a large field of beneficial work along this line which might readily be undertaken by the agricultural department of our national govern-Unquestionably the work of the Department of Agriculture has been very beneficial to the farmers of this country. and fortunately there is a disposition on the part of the leaders of both our great political parties to favor liberal appropriation for the extension, as well as the continuance of the work of that department.

So far the work of the Department of Agriculture has been directed almost wholly along the line of the development of new crops and research work for the improvement of the crop yields and the control of diseases and insect pests affecting our staple crops, to the end that dreadnaught battleships Utah and production might be increased at a lessened cost. This is a very important work indeed, and no new line of work should be taken up by the Department at the expense of its continuation. However, it appears that an exhaustive investigation of the marketing problem would help to solve not only the question of adequate compensation for the farmer band stand throughout the day, with but the impending question of the high races of the usual Blue Ribbon quality cost of living which is confronting consumers in the centers of population in our country.

The limited investigation which has been conducted by the Department of Agriculture along this line, has shown that by far the larger part of the consumer's dollar is absorbed in the chanfoodstuffs to feed our millions pass between the farm and the ultimate consumer. In his State Fair speech, Presi-From an educational standpoint this dent Taft referred to the increased prices which have been received for farm products during recent years, and in addition to sounding a warning that better methods of agriculture are necessary to meet the increased demands of our people for foodstuffs in future years, he well said that the way to make agriculture the Canadian elections. The wheat market made an immediate gain of four cents per bushel in the local market and in Chicago, while the maximum effect was felt at Duluth where the market advanced eight cents per bushel and at Minneapolis an advance of six cents per bushel occurred upon the receipt of the news. Oats also made an advance and other agricultural commodities felt the effect of the general upward trend of prices.

It is quite probable that when the markets are re-adjusted to the new point of view, further advances will occur, not alone in the staples mentioned but in other products of our farms. This result than has been ine case in other years.

The management of the fair is to be concluded and the fair is to be concluded as the view of the fair is to be concluded and the fair is to be concluded and the fair is to be concluded as the view of the fair is to be concluded and the fair is to be concluded as the view of the fair is to be concluded as the view of the fair is to be concluded as the view of the fair is to be concluded as the view of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this respect somewhat by the rejection of the purpose of this reciprocity pack in their recent election.

But in order that our farmers in this respect somewhat by the rejection of the purpose of this reciprocity pack in their recent election.

But in order that our farmers may consumer of milk together. Lectures will stimulate production to an extent which which will insure a home supply in food-stuffs for all our people for many general stuffs for all our people for many general stuff Canada have helped our farmers in this

cured by the co-operation of producers in other countries, and to a limited extent in our own country in the marketing of farm products, indicate that co-operative

reciprocity, which was waged for so many tion to the establishment of a parcels by the International Institute of Agriculture, with headquarters at Rome, in col-However, all that is to be desired in lecting statistics relating to the co-opis a matter for sincere congratulation to this respect can hardly be attained with- erative marketing of farm products in every reader of the Michigan Farmer, out some interest on the part of the pub- many countries, bears out this theory. Unquestionably, however, if our own Department of Agriculture would take up come, since the decisive vote in Canada with a congressman in which he was this problem and by systematically tracwill make further negotiations impossible asked the pertinent question, why we ing the various products of our farms so long as the successful party at the cannot get a parcels post. Two piles of from their points of production until they letters were exhibited as an answer, one reach the ultimate consumer, and then high and formidable, the other insignifi- enlisted the aid of experts in working out The big rile of letters came from a system for the co-operative organiation of our farmers to secure more eco-Naturally the congressman felt nomic results in the distribution of food products, very valuable results would acz crue, not only to the farmers but as well to the consumers of the country. Also, we believe that the great transportation companies would gladly lend their aid to such a scheme because it would mean an increase in production proportionate to the better financial results which would be secured by the farmers, and a greater would be different. We believe it is time consumption of staple foodstuffs would for a general awakening on the part of result through a corresponding cheapenour people if they would secure the ing of all products to the ultimate conspeedy enactment of an adequate parcels sumer. Unquestionably there is room for sumer. Unquestionably there is room for post law, and that, perhaps for the first just such results in the saving which could be made at both ends of the line in Every interested reader should the distribution of foodstuffs, which procwrite his congressman and urge him to ess now consumes nearly 60 per cent of

This does not mean, however, that our The general adoption of this plan would farmers should abandon individual effort toward the betterment of their own condition through a proper solution of the marketing problem, but rather that the organiations which have been and will be effected for the co-operative marketing of farm products should bring this matter to the attention of their senators and representatives in congress, both in a collective way through the organizations and in an individual way by personal letters from their members. This is a matter which should not be neglected at the present time, because conditions are now ripe for this kind of work and there is a sentiment which is not in any way controlled by partisan politics for the broadening of governmental work in the behalf of the agriculture of the country, which will be the more readily undertaken in this case because of the benefits which will accrue to all our people therefrom.

HAPPENINGS OF THE WEEK.

National

A general strike of all the members of the Illinois Central federation of em-ployes has been declared at Memphis, Tenn.

Rush work is being requested of the

dreadnaught battleships Utah and Florida, which are now under process of construction in the New York naval yards. The government demands that the vessels be in fighting condition within one month. Sharp declines in the United States steel stocks has caused a panic among nolders of those lines of securities, the slump amounting to from 20 to 40 points. This resulted in an enormous trade in steel stocks. Amalgamated Copper, American Smelting and stocks of several trans-continental railroads have also made very wide declines in the stock markets.

trans-continental railroads have also made very wide declines in the stock markets. Three persons were killed by a fast Grand Trunk passenger train striking an automobile four miles west of Owosso, Sunday. Mr. and Mrs. Frank Almendinger, of Flint, and Miss Boughman, of Lansing, were the victims.

In 89 cities of the United States and Canada, the "Men and Religion Forward Movement" was inaugurated Sunday. This movement is inter-denominational and is arousing unusual attention, both from the churches and the public in general. general.

general.

Frank Miller, a Cleveland aviator, was burned to death at the fair grounds at Piqua, Ohio. His gasoline tank exploded while in midair, enveloping him with flames which resulted in the machine dashing to the ground and his death.

dashing to the ground and his death.

A Northwest passenger train struck a party of persons riding in a hayrack, at Menasha, Wis., early Sunday morning, killing 13 and fatally injuring three others. The driver's view was obstructed by a billboard, which prevented his seeing the onrushing train. During the past eight years a score of people have been killed at the same crossing for like cause. The second annual milk exhibition is being held at the Y. M. C. A. building, Detroit, this week. The purpose of this exhibition is to bring the producer and

returned indictments against six political bosses of that city, and it appears that but a beginning is being made in the indictment of men for the wholesale abuse of public trusts.

Governor Woodrow Wilson, of New Jersey, refused to allow the Jeffries-Johnson fight pictures to be shown at the New Jersey State Fair.

Foreign.

An explosion of the magazines of the French battleship Liberte, Monday foremon resulted in the death of nearly 400 officers and men. Other ships near by were badly damaged by the terrific explosion. A fire started about 4 o'clock a. m., and the crew immediately began righting the flames which, despite heroic efforts spread rapidly through the ship toward the magazines. The position of the fire made it impossible to flood the containers of the explosives, and at 5:35 the first explosion occurred which was followed at short intervals by three others and in 19 minutes nothing was visible of the great vessel but her top works. This is the greatest disaster that has ever fallen to the French navy and is hardly with precedence in the annals of the world's great fighting ships.

Italy and Turkey are in trouble over African possessions, especially Tripoli. Italian ships have been seized by the Turks and the latter's forces are driving the Italians from the African country. A proposal has been submitted to the porte at Constantinople requesting an arrangement whereby Italy will secure a lease of Tripoli under the sovereignty of Turkey, paying therefore an annual rental. Should this proposal be rejected, it is probable that war will follow. Four Italian battleships are already anchored at Syracuse to threaten Thurkey, while four others are sailing to attack the Tripolian coast.

Owing to the apparent trouble between Turkey and Italy, the former government has recalled the troops directed to Tripoli and will use them to protect the Dardenelles.

The result of the elections held in Canada last week were a great surprise to both that country and the United States

and will use them to protect the Dardenelles.

The result of the elections held in Canada last week were a great surprise to both that country and the United States where the election was watched with unusual interest. The government of Sir Wilfred Laurier was decisively defeated by the forces under R. L. Borden, leader of the conservatives. The government returned 84 members to Parliament, while the opposition returned 133, giving the conservatives a majority of 49. The Nationals elected 'two members. This gives the conservatives full control of the government. The issue, as it is generally understood, was whether Canada would accept the reciprocity agreement passed by the United States Congress at its last special session. The results defeat the trade proposal. Immediately upon the receipt of the election news, the American market for grain products which were to have been placed upon the free list, so far as Canada is concerned, took a decidedly firmer position and the following day an advance of three cents was made in wheat quotations. Mr. Borden is now in Ottawa and his cabinet will be selected in the course of a few days.

days. Advice is received from Mexico City to the effect that General Bernardino Reyes has withdrawn as a candidate for the presidency of Mexico. Failure to properly protect the campaigners in their efforts to present the issues of his party to the public has moved the general to take this stand, and he urges that his followers desist from voting, upon the ground that the country is not at peace with itself, and consequently, the election will be illegal.

It is reported that M. Kokovsoff has

with itself, and consequently, the election will be illegal.

It is reported that M. Kokovsoff has been selected as Premier of Russia to succeed the late M. Stolypin.

Matters between France and Germany, so far as Morocco is concerned, promise to be adjusted without recourse to arms. Their differences in regard to Congo have not as yet been touched. The plan is to take them under consideration as soon as Moroccan affairs are disposed of. The coolness existing between Spain and France may hinder to some extent the rapid settlement of the controversy. Spain's occupation of Moroccan seaports has interfered to some extent already.

The pumping of water from the cofferdam surrounding the battleship Maine, in Havana harbor, is being continued. The latest observations are substantiating more decisively than any evidence yet gathered that there was an outside explosion, which caused or aided the wrecking of the ship.

CROP AND MARKET NOTES.

Washtenaw Co., Sept. 21.—The weather still continues dry, making it difficult to prepare the wheat ground, but the good crop harvested this year seems to have encouraged the farmers and in spite of the dry condition of the ground a considerable acreage has been prepared and at this date many are sowing. The sale of

the dry condition of the ground a considerable acreage has been prepared and at this date many are sowing. The sale of silos has been large and while many are already filled others are being erected every day. The corn crop is rather the best crop raised this year and while not over 75 per cent of a crop will bring more dollars than any other. Very little grain other than wheat will be marketed from this section. Some hay being baled at \$15 per ton. Meat prices holding at about the same as last month. Eggs and butter higher; eggs, 20c; butter, 26c. Apples promise to be a very good crop.

Mecosta Co., Sept. 20.—Wheat yield was about average this threshing. Most wheat will be late sown this fall and less of it than common. Rains of the past 10 days have wet the ground well and given us nice fall feed. Beans will be below an average crop and likely to be badly discolored as many pieces had been pulled when the rains commenced to come and are on the ground yet. Yield perhaps 10 bushels per acre. Potatoes did not come good in many places and have set very light. Unless we get a killing frost early they will be very large with very few small ones for seed. Very little buckwheat sown this year. Corn about an average crop, ears short but sound. Oats, peas and barley about half a crop. New seeding nearly a failure.

Hold Winter's Moisture for

Summer's Drought!

WE talk and complain all the time about dry years, as if they were not always with us. It is the wet year that is the exception, not the dry year, and if a man plows six or seven inches only and produces ten or twelve bushels in these dry years, then what's the use of farming? Every year the land is plowed ten or twelve inches you carry over more and more moisture, and your subsoil eventually becomes in such a permanently moist condition that you can raise a 30-bushel crop in the dryest year that ever struck the West."—E. R. PARSONS. Mr. Parsons, the eminent Dry Farming Authority, advocates the Spalding Deep Tilling Machine, which tills and pulverizes to a depth of 12 to 16 inches and more. He gives instances where use

of the Spalding has more than doubled the corn yield and increased the wheat crop 50 per cent.

If the Spalding Deep Tilling Machine will do this for other farmers—and you have Mr. Parsons' word for it-don't you think it would pay BIG on your farm?

We don't ask you to take our statement about the Spalding. We offer you the signed reports of men who are using the Spalding Deep Tilling Machine—the best known and most trustworthy farmers in the United States. These reports are in the Spalding booklets, which we will send you free on request. Read for yourself. Write direct to the users of the Spalding Deep Tilling Machine if you



makes a pulverized seed bed 12 to 16 inches deep and more, and thus puts the soil in condition to conserve the priceless moisture against the longest drought.

All crops suffer from drought at one time or another during the year. In some districts more than enough rain falls each year to make a crop, but it often happens that excessive rains are followed by dry weather. If the seed bed has been prepared with a Spalding Deep Tilling Machine to a depth of 12 to 16 inches, it will absorb three times as much moisture as a shallow-tilled field.

But Get the Free Literature on Deep Tillage

The moisture will soak to the bottom of the deep seed bed below the point of evaporation and held there as a reserve against time of need.

Bring Up That Rich Farm Beneath Your Farm!

Spalding Deep Tilling Machine

The Spalding Deep Tiling Machine also does what no plow or combination of plowing and subsoiling can do. It thoroughly pulverizes the soil 12 to 16 inches and more—mixes the bottom soil with the top, and makes a perfect seed bed.

The Spalding Deep Tilling Machine brings up the rich virgin farm in the subsoil—that brand-new farm beneath your land with all its possibilities for bigger crops and bigger profits.





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THE BANTING MACHINE CO.

FRUIT OBSERVATIONS.

We were delayed in picking the Maiden's Blush and Pippin by building opera- modeling a barn into a packing house erally excellent results have been obtions, and have had to pay for it with and placing a fruit cellar beneath, so as tained with the combined spray; but in a large number of drops. These varieties ripened earlier this season, and since we did not get the earliest ones as soon as we should we did not make two pickings, as even the small ones in the center of the trees seemed to have a light color indicative of ripeness, and to separate from the twig quite readily. If the orchards were near home we could where there are but a few trees of a variety four or five miles from home it sometimes pays better to get them all at one picking than to make two trips, though the fruit would be in better shape Where if the trees were picked twice. there are enough trees of a kind, or enough ripening together so we can get a load of the earlier ones and leave enough of the later ones to pay to return we can make the two pickings.

Some of the orchards show the ravages I am coming to regard hail storms as the worst chance of the apple grower, winds not excepted. If a heavy hail storm strikes the orchard during the summer, it means that from onefourth to three-fourths of the fruit will be spotted and damaged so as to be thrown into the second class or the culls. Wherever the hail stones strike the apple will not develop as it should and a sunken corky spot will result. If the stones are large or sharp enough to break the skin, rot may result or if the erage season for apples, and if there is break is mended the apple will be onesided and corky. We did not get a hard apples later in the winter, due to poor hail storm except on parts of two orchards this year, but this was enough to greatly reduce the number of firstclass apples in these orchards

We are getting a good object lesson on spraying. In harvesting the fruit may be expected in October. from some trees near buildings or fence rows which could not be reached from both sides we find that most of the fruit on the unsprayed side is scaly and inferior, for example, a Maiden's Blush tree in a rented orchard next to a shed and fence which could be sprayed only in part picked five barrels of apples of which 11/2 were questionable firsts, 21/2 seconds, and one barrel culls, while three other trees in the same orchard with the same care packed 91/2 barrels fancy is, it prevents growing good fruit on this course.

I have been much interested in the There seems to be a general apathy on sell at the price offered, which will win out material injury to the trees. remains to be seen. It is probable that the plan to go slow on buying is the result of a program well outlined at the meetings of the apple buyers. We see as I could learn, the price paid was from the change from are tired of holding out longer. I may solution of this important difficulty. be wrong in this reasoning, but if the "Some injury has occurred where the 1912.

profit on the prices paid last year, which they were, there seems no reason why foliage, and in hardly any case was it they should not be able to realize a fair serious. The lime-sulphur solution, being profit on a price the same or slightly the most convenient and satisfactory to At present I feel like lower this season. holding good fruit for better prices than for spraying apples. Where it has been are offered at present, and we are reto be in a position to hold our fruit until early winter at least, if it should be necessary. I believe that fancy winter fruit slight burning of the fruit, and in still can be handled through a good commission firm so as to realize more than most buyers are offering at present.

Although there were plenty of the sumhandle them a little differently, but mer apples on the markets, we have realized a fair price on most of them. Our Strawberry firsts went for \$3.50 to \$3.75, Duchess and Pippins at \$2.50 to \$3.00, and most of the seconds at \$2,00. Astrakhan was more of a drug, the market being overloaded at that time. To get these prices required quite severe culling, and careful packing, and fruit picked at the proper stage of ripeness. Overripe fruit always sells at a discount after being shipped some distance and handled through a commission firm.

Present indications are that the earlier winter varieties, such as Snow, Greening, Jonathan, and Wagener, should be picked by October 1, and I think the picking may begin a week earlier. I believe the bulk of the winter apples will be off the trees before the middle of October, while on ordinary seasons if we are through with Spies, Starks, and the later varieties by October 25 it is early enough for the best results. In general the season seems to be two weeks ahead of an ava late fall this may cause a scarcity of keeping from over-ripeness. It would seem best in such event to get the winter apples into cold storage or cellars as soon as possible after picking to prevent over-ripening from warm weather which

S. B. HARTMAN. Calhoun Co.

THE WHITE PINE SAW-FLY.

I am sending to you in a box, specimens of worms that are destroying my white pine trees; this is the second brood this year. Some time ago I wrote you about them and you could not answer without seeing the insects. They gather in bunches as large as a walnut when they are not at work.

Oakland Co.

The insects referred to in this letter.

The insects referred to in this letter No. 1, and half barrel seconds, with no were forwarded to Prof. R. H. Pettit, of sprays will not kill the eggs, and that the In another instance we have a the Division of Entomology, M. A. C., half dozen Stark trees in a rented or- who replies to us as follows: The insect chard one side of which are nearly which you send is Lophyrus lecontei, the that he would advise the July spray if spoiled by brush from a fence row. The common white pine saw-fly; an insect there were not over one-half of one per wind was not in our favor and we could which may appear again next year but cent of wormy apples. not spray these trees well from the one which is usually controlled by its para-As a result the fruit is scaly and sites in the course of two or three years. inferior. The owner will now take our At least that has been my experience. advice and clean out this fence row. We sprayed a tree or two to see if the The object lesson is more convincing trees would stand the treatment, and arguments. He considered the they seemed to stand it all right; Paris grown-up fence row as a protection, but green and lime were used. I would, hownow sees it as a prevention instead, that ever, prefer arsenate of lead now, of The creatures disappeared the following year, however. A few came back, but only a few, and cocoons which discussion of the market condition, crop, were gathered up on the ground yielded and price prospects of winter apples, large numbers of the parasites, so the trouble passed off of its own accord. the part of buyers to buy, and an equal And on several occasions since, and in disinclination on the part of growers to various places, it has also passed with-

THE NEW SPRAYING PROGRAM.

"The most striking thing that has takno reason why good winter apples should en place in apple spraying since the innot be worth around \$3.00 per barrel for troduction of Bordeaux mixture for the No. 1 and No. 2 packed, this season. Last control of apple diseases," said an official season we sold for \$4.00 for No. 1 and of the Bureau of Plant Industry of the No. 2, or \$4.50 for No. 1, and as nearly Department of Agriculture, recently, "is as I could learn, the price paid was from \$3.50 to \$4.00 at shipping station for most of the apples of good quality. A study of the reports of fruit papers, the government report, and even the crop reports of the buyers, would lead one to estimate the crop of winter apples at from 100 per cent as a maximum of last year's crop, and not more than 100 per cent as a maximum of last year's and the foliage injury due to the same of a ten-year average, hence we should expect not more than 25 per cent discount from last year's prices, after making allowance for a large crop of fall tiful fruit, in most cases free from the copper to the sulphur and thas been brought about largely through the experiments of anouncing the First Michigan Land and Anouncin \$3.50 to \$4.00 at shipping station for most phur compounds that has been brought apple men to get busy very suddenly from the experimental plats. As a resoon and raise their present offers just sult, orchardists have taken up the enough to secure the crops of those who spraying with sulphur compounds as a

buyers were able to get out with a good mixture was used too strong or in cloudy weather. This was mostly on the tender use, has been accepted by orchardists combined with the arsenate of lead, gena few cases, undoubtedly, owing to insufficient agitation, there has been some fewer instances, of the foliage. It is now known to be possible for the orchardists make the lime-sulphur solution by We are packing the last of the summer boiling these materials on the farm, or varieties, Maiden's Blush and Pippin. it can be purchased on the market all ready prepared.'

Washington, D. C.

CODLING MOTH INVESTIGATIONS.

Work, looking toward the accumulation of definite knowledge concerning the codling moth has been carried on in several places the past few years, and at the orchard meeting of the State Horticultural Society held at Grand Rapids recently, Prof. Hammer of the United States Department of Agriculture reviewed what was known, together with newly found matter, of which the following is a resume:

Prof. Hammer brought out the fact that most of the eggs are not laid in the calyx as as formerly supposed, but on the leaves, and the young worms often eat upon the leaves before getting to the calyx where the most of them enter, hence many are poisoned by the sprays before they reach the fruit. The number of broods varies with the latitude and with different locations in the same latitude. In the south there are two full broods and a partial third. In Michigan there is one full brood and a partial sec-In Canada there is but one brood. To determine the relative proportion of the moths present at any one time the trees may be banded and the larvae collected every three days from May to November. The periods when the most are secured will give the approximate dates of the broods. If four per cent of the first brood survive the second will be equal to it, hence the late spraying is desirable. In reply to questions Mr. Hammer stated that the larvae do not enter the ground, that it is not necessary to use poisons for the moth until after blossoming, that 70 to 80 per cent of the early brood enter the calyx probably because of the down on the fruit and the hiding place at the calyx, that the summer second brood came about July 20 this year and bid fair to be plentiful, and

KANSAS FRUIT REPORT.

The September report of the Kansas State Horticultural Society, shows the condition of the apple crop of that state to be nine per cent below the estimate made for June. Dry, warm weather, with insufficient care of the orchards has been the principal cause of the depreciation ciation.

Apples are estimated at 24 per cent of a normal crop, compared with 62 per cent in September, 1910, and 15 per cent in September, 1909.

Pears are estimated to be 27 per cent of a normal crop, as compared with 42 per cent in September, 1910, and 10 per cent in September, 1909.

Peaches are now estimated to be 10 per cent of a normal crop as compared with 57 per cent in September, 1910, and three per cent in September, 1909.

Grapes are reported to be 49 per of a normal crop, as compared with per cent in 1910 and 41 per cent in 1909.

These figures indicate that the fruit generally will be a much smaller crop in the state of Kansas this year than a year ago, and larger than the crop of 1909.

An Apple Show for Michigan.

The American Rose Society and the Carnation Society will hold their annual exhibition in Detroit, January 10 to 12,

FOOD AGAIN

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Prices reasonable. Salesmen
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PRACTICAL SCIENCE.

ORIGIN AND FORMATION OF

We have noted, in our hasty glance. the effect of sunshine in warming the earth. We have noted the effect of the atmosphere which surrounds the earth likewise, the great office which water has fulfilled in common with other agents in subduing the earth. In this country glaciers-vast fields of ice-have ing up rock and distributing the pow-dered rock over large areas of North America.

glacial action in Michigan and this may ance that in many instances, perhaps in explain, and undoubtedly does explain, most instances, the production of a crop, to a considerable degree, the high rate of fertility of some of our Michigan soils. By means of the huge rocks imbedded in the glacial ice during that pe- of wind in the erosion of rock but it has riod of intense cold-the long winter an influence worthy of mention. In the which this continent went through at one time-the rocky caverns and crests over which this glacier slowly but irresistibly moved have been ground to powder and transported in the waters of the melting glacier, have covered much of this country with a surface soil of great fertility.

We must not conceive the idea that nature, having accomplished the gradual subjection of the earth to the point suitable for animal and vegetable life, is now There is no such thing as a fertile soil. influences. rest in nature for her forces are as active today as they were through all the ages past. This being true, it may be readily seen that there comes a time finally when these forces may act antagonistic to the best interests of animal and vegetable life. Water, a strong factor in making rock soluble and suitable for plant growth, will just as readily carry the process too far, so far as the period of best development of vegetable and animal life is concerned, if it is permitted unrestricted sway.

itted unrestricted sway. Generally speaking, we have little conception of the amount of valuable soil material annually dissolved and carried the earth. It has long been known that one way or another turns to his account. the exceedingly high fertility of the land in the valley of the Nile is due in a great measure to the deposits left upon it from the finely suspended matter in the waters of the Nile carried during its period of overflow. This material, this fertility, is gathered by the dissolving and the eroding action of water in the hills and higher altitudes traversed by that This great river and its tributaries. same evidence is familiar to most of us in our own country. Along the Missouri river bottoms were, in earlier years, about the only places where successful agriculture could be practiced. In fact, it is generally known that the river bottoms and river valleys are practically our most fertile soil regions. The deltas of these rivers represent deposits of this finely suspended and colloidal material by the agency of the salt water with which it comes in contact when poured formed. into the ocean. This delta soil is very fertile and because of its exceeding fineness of division it is, as well, very lasting. Hilgard states that the Mississippi highly varied in composition and charriver carries in suspension every year, acter. and empties into the Gulf of Mexico, usually classed as colluvial in character. enough earthy matter suspended and dissolved, to cover a piece of land one mile to the depth of 268 feet. This called Alluvial, are found. material is of the same general charac- consist of the more easily dissolved and ter as that carried off in drains from our transported portions of the sedentary and hare fields during a heavy rainsform. colluvial soils. They vary much as to the It may be easily seen that such agencies proportion of sand and clay which they left to themselves will very rapidly rob contain. If the waters' which traverse the soil of its most fertile constituents. that section have not been violent in This one deduction alone is sufficient to character, the finely divided clay may be warn us that a soil devoid of vegetation quite evenly and uniformly distributed is a pretty costly experiment. Vegetation But bordering on a very rapid wateris a good check on the washing of the way the suspended clay may be carried soil.

important function in connection with pacity is correspondingly low. this planet. Not only has it been of such untold service in the building of the soil general character of the soils and the by dissolving the rock; not only does it manifest itself with destructive abandon in studying later the question of the ferin the wasting of the soil fertility; but tilizing requirements of such soils. Difby virtue of its qualities in each of the ferent soils vary in their response also above directions water is seen to be in- to cultivation and largely depending on dispensable to both plant and animal their origin and the character of their

Living forms, both vegetable and ani-

making available the plant food in the soil. It is difficult to conceive the purpose which living forms fulfil in the dark, forbidding soil at our feet. Fortunate is that soil which is possessed of an abundance of these low forms of organic in the retention of the heat furnished by life. The soil forced through the diges-And we have noted in part, tive canal of the angle worm, for example, is greatly modified in its passage and becomes a more ideal soil for plant growth, thereby. An abundance of earth worms bespeak a healthy organic condiwielded a very potent influence in grind- tion of the soil for it indicates a growing soil and one full of life activity.

Other minute living forms have a very important relation to soil fertility. In-There are unmistakable evidences of deed, bacteria are of such great importor at least of a maximum crop, is impossible in their absence.

We have not mentioned the influence vicinity of Charlevoix and Mackinac Island there is abundant evidence of the reduction of rock due to erosion, caused by severe wind storms. The wind, carrying as it does so frequently sand in great quantities, has by its grinding action performed a very important function in connection with the erosion of rock. This sand, whirling along at frightful speed has by means of its grinding action reduced the rock to an impalpable powcontent to have her forces abate their der and thus turned it quite speedily into

An interesting feature of the solving action of water on rocks is the subsequent growth in the water of certain marine animals and plants. Oysters, clams, etc., have the power of extracting certain of these soluble constituents from the water and converting them again into insoluble rock. This explains the deposits of limestone and rock-mines of wealth to present day inhabitants of the earth-built a monument, as it were, to the life activity of these simple animals. Without doubt these animals and plants have contributed in a similar manner, either through their life or through their death, to the formation of the deposits the sea in the streams and rivers of of metals and minerals which man in

Soils are primarily then; (1). Sand or powdered rock and (2) Clay, or the more completely reduced mineral rocks. these we add (3) Humus, the result of vegetable decay. Agriculture is based upon the combination of these three soil constituents and the soil containing the best balance of these respective types is, all things being equal, the soil with the best general agricultural possibilities.

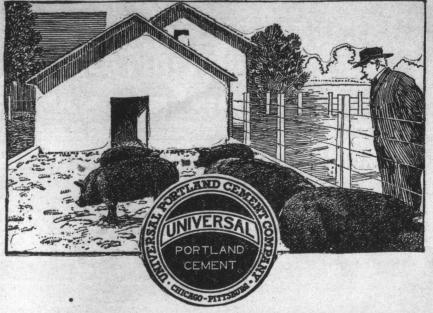
In certain sections where the surface of the earth is quite level, the soil formed and Mississippi rivers, the valleys and is the result entirely of the weathering of the rock and here perhaps is shown most clearly the origin of the soil. Not being subject to washing by water and not having been replaced or renewed by glacial action, this Sedentary soil is formed entirely by the erosion of rock in place. The sub-soil beneath and the lower stratum can be traced directly by transported by the water and precipitated the similarity in its composition to the solid rock beneath and from which it was

Certain soils exhibit evidence of mingling with the weathered portions of other These Colluvial soils are very Hillsides and rolling areas are

In the ravines, river bottoms, and lower areas, the finer, more fertile soils, These soils away, leaving the coarser sand, in Water has had, and still has, a very which case of course, its productive ca-

> An understanding in this way of the mode of their formation is of much help surroundings.

FLOYD W. ROBISON.



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the same idea runs through the most of served all chopped up fine when everylife, doesn't it? If we are careful in the one in the family knows we like them little things the big things will require best just sliced and fried a nice delicate no anxious thought. If you mend the brown on both sides. If we go out for little rent, the large hole will not appear. If you scour off the first spot of rust, tea when we prefer black, it spoils the your utensil will not have a hole rusted meal, and though we don't say anything through. If you kill the first moth your woolens will not be destroyed.

those same little insignificant things another invitation to dine out. which make or mar happiness? Ever I have seen a child whipped the other should give up and as a consequence neither one will admit the wrong. board instead of up and down.

The worst quarrel I was ever unhappy enough to witness between husband and potatoes in two before they went into the pot. The wife cut the potatoes crossto her right to cut them any way she chose so long as she was cook, and the husband insisted that she cut them his way because that was the way his mother and grandmother had done. One word led to another until before they stopped each had twitted the other of every misconrmations strong as proof from the deed committed by relations living and Holy Writ," so trifles equally airy seem dead, and finally ended by the wife to the nervous, worried, hurried man and throwing the kettle of potatoes out doors

see how my readers smile in a superior sort of way and plume themselves on the fact that they aren't so childish. But I'll wager not one of you has passed through life without some quarrel over something just as immaterial.

Honest, now, haven't you had a tiff with your husband over whether the bread should be cut thick or thin? 'Or, if not a tiff exactly, haven't you a difference of opinion on the subject? How many men are there who growl because their wives put the plates on the table upside down and the poor, tired husband has to turn it over before he can fi!l it? And glasses the same way, they go on the table bottom side up and whoever

pours the water thinks it is a shame he, those tumblers over every meal time.

pounds will take care of them- a strainer. We feel positively affronted all made after the same fashion. selves," goes the old saying. And when our warmed over potatoes are a meal and have to drink a cup of green to our hostess, out of politeness, we complain so much about it at home that the Did you ever stop to notice how it is family privately hope we will never get

I have seen a child whipped unmercistop to think how very slight a thing fully because she put the draining pan causes a violent quarrel? Indeed, it is on the left side of the dishpan instead of usually some trifling thing that leads up the right, which was the side her mother to every quarrel, the question at stake preferred. I have known other small is so unimportant that each party thinks girls to be scolded because in ironing they laid the towels crosswise of the

And the silly causes given for seeking divorce. A man ate up a crock of cookwife arose over the question of cutting les in three days and his wife rushed into court for a divorce, and got it. If her husband had come home drunk and beatwise, the husband insisted that they en her, she would have forgiven him and should be cut lengthwise. The wife stuck loved him a little beter for it, but she just couldn't stand having to bake cookies twice a week for an unfeeling man who only ate them up.

So it is the inconsequential things which make up the sum of living. As "trifles light as air seem to the jealous woman abundant cause for wrath. and going into a fit of hysterics.

only cure is a broader outlook. Get away
Perfectly foolish, of course, and I can from the narrow, introspective view and look at your life as it must appear to the outsider. Then, instead of seeing a cause for a quarrel you will see how very immaterial your grievance is compared to the bigness of living.

CROSS STITCH EMBROIDERY.

MAE Y. MAHAFFY. ROSS stitch embroidery is never

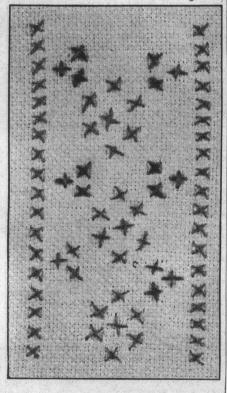
actually out of fashion. It becomes a fad at certain periods, seemingly every decade or two. But in one modification or another, making it and then returning cross each of these suitable to the times and customs, it is always a favorite. It is one of the oldest known forms of ornamental needlework, and has so many possibilities that it is at the same time one of the most always runs from the same direction, useful and valuable of all.

While no doubt primarily intended for work on coarsely woven fabrics, like canvas, it is not necessarily confined to such upper stitches in exactly the opposite fabrics. Much of the old-time linen was woven in a coarse, loose mesh, and naturally called for some such stitchwork be counted so that all crosses will be because of the lines apparently made identical in size. If some material other broideries of peasant workers in particu- it, the stitches being made through the lar, are of this rigid, angular type, either meshes of the canvas, counting its in the genuine cross stitch or some other threads, and into the linen. ways interesting, with an individuality pierce the canvas threads, as these are dom have. the embellishment of household linens, obtainable stamped upon plain material, work articles.

sets for bedroom usage made of a rich lose much of its distinction and beauty. cream basket weave cloth, or of similar cloth merely of a coarse texture, edged out in the cross stitches, or the designs with lace of the same shade, ornamented may be left plain, and a background in quaint red or pink roses, tumbling filled in of the cross stitches all around riotiously from bronze baskets. The them. Frequently parts of a design have roses with their green foliage are made but half stitches, generally known as of the cross stitches, while the baskets, stroke stitches, utilized to make up fine ordinarily, are outlined and covered with lines, tendrils, etc. These appear in the a couching or darning stitch in some opor she, as the case may be, has to turn en pattern. The diaper couching or dia- designs are made up after this fashion, mond filling stitch is frequently em- being essentially cross stitch embroid-You see it is the little things that make ployed for this purpose. The set usually ery, yet not after the form ordinarily so all the pricks we kick against. We could consists of the cover for dresser or dress- called. A small sample of such work stand loss of fortune or the death of our ing table, a pin cushion top, sofa pillow appears in the block background of No. dearest friend better than having to eat top, and centerpiece for a stand, although 6, and other modes of such single stitches

durable. Library table scarfs, also, and other living room adornings, even borders AKE care of the pennies and the whole when we like it best put through for portierres, curtains, screens, etc., are

> It would hardly seem essential to describe the making of cross stitch, but old as it is, and as familiar as it is supposed



to be, one frequently sees examples of so-called cross stitch which are scarcely recognizable because of the utterly haphazard manner in which they have been worked. Take, for illustration, the two samplers accompanying this article. Both are worked after the same pattern, yet what a diversity of construction. One is smooth and even, while the other is but a jumble of hit-or-miss crossed stitches, some straight and some diagonal. The proper way to do cross stitch work is to make a half cross in a row as far as the design permits the straight row to run, stitches with one from the oposite direction, always keeping them on what is a diagonal slant as compared with the warp and woof. Thus the upper stitch and this point is essential for really good work. All through the design the under stitches must only run one way, and the way, with no variance whatever. The threads of the material must, of course, with such distinction by the warp and than a meshed canvaş-like fabric is de-Indeed, much of the old-time sired it may be decorated in cross stitch work, and many of the present day em- patterns by basting a coarse canvas over In such typically canvas stitch. They are al- cases care must be exercised not to which designs of other characters sel- to be clipped and withdrawn as soon as And they are suited alike to the work is finished. Patterns are often but unless the stamped design has been made with the utmost accuracy the de-Just now one sees the loveliest possible signs will not be true and the work will

Cross stitch patterns may be carried little figure in No. 6. Sometimes entire apple sauce served with the pieces left, any number of pieces desired may be in No. 5. Quite pretty patterns are pos-

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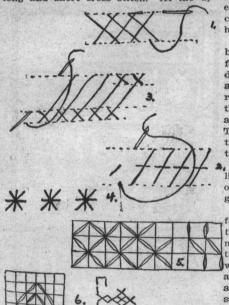
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regulation cross stitch work.

The Persians are very fond of introducing a form of cross stitch like that' broideries. It really makes a handsome convinced that the kind and gentle methbanding by itself when used between rows of couching or braiding.

Numbers two and three are forms of



per corner of No. 3 a few stitches are added just as those are placed at the lower edge. When both edges are completed in like manner it is known as double long and short cross stitch. Either of these stitches make unusually pleasing bands or scrolls, and are fine for adding border around sofa pillow tops, etc., where the central design seems somewhat insufficient.

The double cross stitch, or star stitch, shown at, No. 4, is frequently met with in designs given largely to the ordinary cross stitch, giving greater prominence to some certain feature of the work. Entire designs are also composed of these stitches, which may be made entirely across the threads necessary, or worked from the center outward in the various directions. The simple cross stitch, surrounded with a block of stroke stitch is seen as a keynote to many European embroideries of the peasant type, and is now being utilized very largely as a trimming for modish gowns. Any cross stitch pattern may be worked up in this manner, the crosses being necessarily a

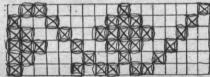


Fig. 7.

trifle apart to allow for the stroke stitch The conventionalized figures used in much of the Bulgarian, Roumanian and Russian work find greatest favor. Quite often even the crude, strong colors used by the peasants are imitated with striking effects, which, while a little startling at first are really artistic and charming, particularly when harmonized by a hint of black. One of these designs seen recently on a late gown of washable white goods was in blue and See No. 7. The crosses were of the blue, and the stroke stitches of pink.

LETTER BOX.

Children Should Never Be Whipped.

Editor Household Department:-This is my first atempt to write anything for a not blister.—L. C. paper but when a late edition of the Michigan Farmer came, I decided to give some of my views on the bringing up of children.

I am inclined to think that article on "flogging children" was either written for argument or else by some cranky young man-or old man-who has never had a child to love or be loved by.

In the first place, the parent who has a child who needs a "flogging" has certainly not shown much tact in raising a

I'm going to tell you what I think. The thing they should not. Put the little course, one must work cautiously so as hand back and say, "no, no," then quiet-

sible after this idea, though by no means ly show him what he can do! Keep on so finished looking and exquisite as the with this plan of telling a child what he can do instead of the everlasting "don't," and see how it will work.

I am the mother of two healthy, active shown at No. 1 in many of their em- boys, age seven and four years, and I am od of dealing with their tricks is more effectual than the severe method.

It's the hugs and kisses, good nourishlong and short cross stitch. At the up- ing food, plenty of sleep in well ventilated rooms, a good example, and any occupation that a little boy or girl can have, that makes children good.

A heart to heart talk after my little boys are tucked in bed, praising them for the right things they did through the day, does them more good than any amount of that flogging we read about recently. Soon as a child does a right thing praise him for it then and there, and make him feel downright happy. Then let him understand how much better feeling it is to do the right thing than the wrong.

Children are not "savages," but dear little beings, more fitted for the kingdom of Heaven than any of us perfect (?) grown-ups

My purchase on my boys is their love I have always told for their mother. them that there is no one loves them as mother does or can do half so much for them. They are both unselfish to a fault with me, feel for me when I am sick, and show me in so many ways how they appreciate their mother. My oldest boy says he always feels so much happier when he tells me the naughty things he says or does, and do you think he would make me his confidant if I were always pounding him?

I am particular about table manners, and gentlemanly actions of all kinds, a profound respect for their elders, in fact, everything that belongs to true politeness, but I do not regard mischief as badness. It is simply busy-ness. And for that trouble encourage them to work, help around the house, in fact, anything to take their time up. I think little punishments are necessary, but season them with justice.

A sleep on the bed does a child good, both body and mind; for thoughtlessness, having them give you their pennies to pay for the trouble is my plan. I can easily slip the pennies back in their boxes again and they are none the wiser.

Any little thing that is a punishment better for the child's real good, and much more dignified to both parent and child than any amount of "flogging" can ever be.

I do so hate to hurt the little bodies God has given me to care for. tempted to censure children, think of what things grown-ups, with a life of experience, will do. Then we will think that the "baddest child is better than the goodest man."—Mrs. Reader.

HOME QUERIES.

Mrs. Z.—The symptoms of uraemic poisoning differ so in different individuals that it would be hard to enumerate them so that a patient could detect the trouble. A severe attack is often accompa-nied by chills, headache, fast pulse, hysteria and finally delirium, but as these symptoms might accompany some other disease as well, the patient could scarcely diagnose her own trouble. The only sure thing is to have the urine analyzed by a competent physician at least once month during the early part of the waiting period, and at least once in two weeks after the sixth month. Do not distress yourself over "symptoms." Go to some reliable physician and place yourself un-

SHORT CUTS TO HOUSEKEEPING ...

Mix mustard with glycerine and it will

In canning fruit .vou will get an adde flavor, also a prettier color, if you save the parings, cool them separately and use the juice instead of water in cooking

your fruit.-Mrs. W. B. S. For white marks left on polished wood when hot dishes have been set on it, cover at once with olive oil and salt and let stand for several hours. This is especially successful if used as soon as the mark is made.-L. M.

Many of the shell or celluloid barettes so fashionable at the present time have Now, Mr. Editor, I have started in to the clasp so closely adjusted that it is give my own ideas and experiences, and difficult to operate. Take a nail file and time to begin to train a child is when ener until the tongue of the barette will first the little hands meddle with some-



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HOME AND YOU'

WHEN THE BIRDS GO SOUTH.

BY ORIN E. CROOKER.

tion of the birds have been under way in fall and spring it is frequently posbut very few persons have been aware of sible to hear the chirp of innumerable discovered for the first time what hapthese summer visitors come and go. It are whirled before the storm, as to make is only on some of these bright autumn it appear almost certain that they are days when one chances upon a flock of not much above the tree tops. The writ- she could have his in return. He let noisy blackbirds filling the air with their er has also seen birds, apparently gulls her keep it for awhile and then he told tle realizing that for many weeks the summer residents of woods and field have taking their departure for the northbound migrants barely comes to a migration begins.

Birds are great travelers, as perhaps as easily and with as little baggage. Some of them range from as far north as the arctic regions in summer to the equatorial regions of South America in pause only long enough to raise their young before starting south again. bobolinks have gone long ago; so have some of the swallows. Many of the less familiar birds of the deep woods have been drifting southward during August, entirely unnoticed by all but keen and trained observers. Some of the insectfeeding birds, such as the flycatchers and warblers, remain in the north only so long as food is abundant. With the decrease in insect life that accompanies the advent of cool nights in late summer they take their departure for regions where food is more plentiful.

A study of this semi-annual migration of the birds is both interesting and instructive. Birds do not migrate by The habit has been evolved through countless generations and has become so strong as to be in large measure an index of the life history of the individual species. For instance, in the northward flight the migration instinct brings each particular species to its proper nesting site at the proper time. In the southward migration this instinct bids each species keep ahead of the retreating line of suitable food supply. Just why some members of a certain species. like the robin, for instance, will go no farther north than New York and others press on to the far northern outposts of civilization is, however, one of the unsolved mysteries of bird life.

From all that is known it appears that most birds migrate almost entirely by night. Certain species, like the wild goose, seem to be indifferent in this matter and may be seen or heard traveling the highways of the air both by day and night. However, the great tide of migrating birds is set in motion at sundown and probably ceases only at dawn. It has been shown that the daily average any moment. advance of the northward migration in spring, in the Mississippi valley, is only 2 miles or scarcely half an hour's sustained flight. There are, however, many days of stop-over along the way and many nights when contrary weather conditions must hold the birds back. When they do wing their way northward or southward in real earnest it appears from records that have been carefully made that flights of 100 miles a night must be very ordinary accomplishments, while 200 miles and more are probably not uncom-

These migratory flights are not unacnesota that forced the birds to where immense numbers of them per-An observer, basing his calculamated that 750,000 birds had perished on the hard in a country to hard i the hard, icy surface of two small lakes which covered but a small fraction of the 1,500 square miles of territory swept by the storm. The night of October 19, 1906, flocks of migrants over Lake Huron were caught by a snow storm and forced into the waves. According to an observer on the eastern shore 5,000 dead birds to the mile were strewn along the sands-only a part of those that perished. Such tragedies are, fortunately, rare. Through them one gains a glimpse of the perils which beset the birds in their migra-

grate at considerable height-some au- voice was lower and softer and it seemthorities state from one to two miles, ed to Mrs. Vernon very weak Almost anyone, however, in favored localities can hear the calls of the birds very pretty, with the prettiness of youth. during the nights of heaviest flight. many instances it is possible to follow so old that she can talk about these some particular bird as he wings his way things almost as if they had happened overhead in the darkness, by his peculiar Since midsummer the southern migra- note or cry. During driving snow storms always been a happy girl, until one day it so quietly and unostentatiously do juncos so clearly and distinctly as they piness really was. discordant notes and the sound of many or terns, flying so low that the electric her he must give it to another woman. wings that one is prompted to say, "The arc lamps plainly revealed the white birds are getting ready to go south," lit- plumage of their breasts.

Since migration is largely a matter of food supply, certain species will frequently surprise residents of a locality by winsouthland. Indeed, the rising tide of tering with them. Robins have frequently spent the winter in the vicinity of Brainstop in midsummer before the southbound tree, Mass., and sometimes have been noted in large numbers along the southern boundary of Massachusetts as far inmost of us would be if we could get about land as Worcester. The writer saw a yellow-shafted woodpecker or "flicker" in the dead of winter in Jamaica Plain, Mass., and subsequently saw this same species repeatedly one winter in northern winter. Many species that come north Rhode Island. In all such cases mild weather, lack of snow, and an overly The abundant crop of wild berries of various kinds is the reason for this apparent disregard of nature's summons to migrate southward at the usual time.

THE OTHER WOMAN.

BY RICHARD BRAUNSTEIN.

Mrs. Dudley Vernon had been at the hotel a week and the days were beginning to drag. She could not even have the consolation of a daily letter from her husband who had gone on a hunting trip with a party of friends whose object it was to obtain rest from the grind of in pity. I don't want that; I want help. business, newspapers, letters and telegrams.

She had intended to do some literary work—she had a story planned and ready story. "But," she added, "the world is to write, but she had put it off from wide, and even if the woman reads the day to day, and had spent the time wandering off among the hills and pines or sitting idly in the shady corner of the wide piazza.

One afternoon when she had pushed a big rocker to a corner of the piazza, commanding her favorite view, and had settled herself in it to read, knowing that, if the book proved uninteresting the landscape would not, she became conscious that someone was looking at her. She tried to ignore the sensation, but it grew stronger and she raised her eyes to encounter a pair of burning, shining ones, looking very large and dark in the thin face of the sick girl to whom they belonged.

Mrs. Vernon recognized her as a new arrival who had come with her mother the day before. She looked extremely ill, yet kept up with a nervous energy that seemed likely to burn itself out at

Seeing that she had attracted Mrs Vernon's attention, the girl smiled and, in response to her evident desire, Mrs. Vernon crossed the piazza and seated herself by the long chair in which the invalid lay.

"Thank you," said the girl, "I want so much to talk to you. I heard you were here and I got them to let me come. They are only too glad to try anything

"As I am very lonely," Mrs. Vernon replied, "I, too, shall be glad to have someone to talk to."

"But I want something more than companied by danger. In 1904 an innu- that," said the girl. "Would you mind if merable host of Lapland longspurs, mi- I treat you as if I had known you—grating northward, encountered a heavy known you always? I have not much fall of soft, damp snow in southern Min-time left and I cannot afford to waste it. I really have known you for two years for I have read your literary productions. I want to ask you to help me; I want

Mrs. Vernon was at a loss to know what the girl meant. It was a strange request. The manner of the girl was him the circumstances and read him the stranger.

"Suppose you tell me more about it," she suggested.

"I will tell you the story and then you the girl answered. Her think she meant?" will know," voice shook. She was very pale and there was a peculiar look in her eyes as she ed at him for an answer, looked at him told Mrs. Vernon that she would supply with entire trust, as she could never the details of the story.

framing a beginning in her mind, the she was the "other woman."

For the most part, birds seem to mi- girl began again to speak. This time her

"There was once a girl and she was In Sue has grown old since then-very old; to someone else. She thought she had a man told her he loved her; then she

'The man asked her for her heart and she gave it to him, for he promised that The man took his heart, but he could not give the girl her's again, and so she had only pride left to her. It was very strong her pride-but it is hard to live without any heart for life, and soon pride wore out her frail body.

"And not having any heart, the girl grew cruel toward the other woman. She was beautiful, with something more than the prettiness of youth-she was clever could have almost anything she wanted in life; yet she took the one thing the girl had, and the girl hated her for her robbery. She began to think of revenge, for she wanted the other woman to know that she was not the first one. That, if the man said words of love to her, they had all been said before to the girl; that if he gave her a jewel, he would know well now her cheeks would dimple and her lips curve into a smile; that, if he brought her a flower, the ghost of the one which had died in the girl's hand went with the gift.

"So, in reading your stories an idea came to the girl. Will you write this story for me and let it find the woman, that it may tell her what the girl wants her to know?"

Mrs. Vernon's eyes were dimmed with tears.

"You poor child," she murmured. The girl smiled. "Oh! don't waste time

Will you do this for me?"
Under the spell of the dying, appealing eyes, Mrs. Vernon promised to write the wide, and even if the woman reads the story, how will she know?'

"The man will know," was the answer, and it will be hard for him to conceal it from her. I am willing, however, that she should have that one chance. sibly fate will be kinder to her than I think."

Mrs. Vernon began the story and as she wrote her interest grew, and she used all her art in the telling. When it was finished she felt that it was as good as anything she had ever written. Then she read it to the girl, wondering if it would fulfill her expectations.

The girl listened in silence, but as the story unfolded itself two bright red spots came to her cheeks, and her dark eyes glowed with a strange light.

"Ah!" she said, "I can rest now that it is done. If I change my mind I will tell you in time. If not, print it when I am gone.'

Three days later the girl died. Almost her last words were: her not—" She left "The story-tell She left the sentence unfinished.

The message puzzled Mrs. greatly. Had the girl changed her mind at the last and forgiven the woman toward whom she had been so bitter? Perhaps she welcomed death, and at its coming was glad to be relieved from all pain and, being at last free, decided that it was not worth while.

Had she tried to say, "The story—tell her not to publish it?" Or as she died the feeling that the other woman must know been as strong as ever and had she meant to say, "tell her not to break her promise?"

Mrs. Vernon thought over it until she could think no longer, but she could not decide where her duty lay. "I will ask Dudley," she said. "My husband has never failed me yet when I have been in doubt and in trouble."

On their first evening together she told story. Then as she gathered the scattered leaves and laid them in an orderly pile she said: "I want your opinion, dear, what am I to do? What do you

Her husband did not reply. look again, for in his face she saw that After a long pause, as if she were the story was his own. She knew that





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Associational Motto.-

The skillful hand, with cultured mind,

THE NEGLECTED GRAVE.

BY REV. Z. GRENELL With weeds and grasses overgrown, Defective mound and tottering stone, What pity it doth mutely crave, The shamefully neglected grave.

When grief was fresh, its shapely mound Was fashioned all compact and sound, With gush of tears its sod was wet With pang of heart, its stone was set.

The years have passed and all the care That was so fondly lavished there Has vanished, like the stars, at noon. Ah! how does love forget, so soon?

Oh, no! true love does not forget But many a change the years beget; Earth's pilgrimage puts all astray— The mourner may be far away—

Or may have reached the happier land Wherein the Heavenly Father's hand As told by great inspired seers Will gently wipe away all tears.

Associational Sentiment.—

The farmer, he garners from the soil the primal wealth of nations.

Come, let us, out of grief's respect No longer suffer this neglect; Reshape the mound, the stone restore And beautify the grave, once more.

On this page will be found two brief poems expressive of Memory Day sentiment, which have been contributed in response to the efforts of Ex-Associational President Daniells to bring about the general observance of September 30 as Memory Day. We are also re-publishing the Memory Day hymn, which was written at the request of Mr. Daniells for the

CHAS. H. GABRIEL

building and put up another silo is the best proof of what he thinks about it. The paper was carefully prepared and gave facts all modern dairymen are familiar with. This was followed by a thorough discussion which received due attention from all present. A good program was rendered, including a paper by Miss Carter on the need of a college education by the farmer's sons and daughters, a synopsis of which will be given in the next issue. The next meeting of the Club will be held at the home of Mr. and Mrs Francis Rush.—Reporter.

The Farmers' Remuneration.—Wixom Farmers' Club gathered at the Maccabee Hall for their September meeting. On account of the busy season only a small number were present. Mr. T. E. Johns gave an interesting talk on his trip to

Mrs. Francis Rush.—Reporter.

The Farmers' Remuneration.—Wixom Farmers' Club gathered at the Maccabee Hall for their September meeting. On account of the busy season only a small number were present. Mr. T. E. Johns gave an interesting talk on his trip to Alaska, after which the question box was taken up. "Resolved, that the Farmer is not Properly Remunerated for his Time and Labor." It provided quite an animated discussion and was discussed at some length. Some very good points were brought out on both sides. One said the farmer did not realize three per cent on money invested, but money was not all. The farm was not given credit for the many comforts and advantages derived from it. It was decided however, that the farmer was not remunerated for his time or labor.—Mrs. R. D. Stephens, Cor. Sec.

GRANGE

Our Motto—"The Farmer is of mere consequence than the farm, and should be first improved."

THE OCTOBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

School Day program, recognizing the wide-spread interest in rural schools.

Music. Welcome address, by lecturer.

Welcome address, by lecturer.
Recitation.
Report of committee appointed to visit schools of Grange jurisdiction.
Michigan's first consolidated school—paper or talk.
"The Director's duty to the rural school."
Recitation—"The Outdoor School."
Improving one-room rural schools—how can we help?
Plans for organizing a Grange orches-

can we help?
Plans for organizing a Grange orches-

ran by committee of young men.
Plans for organizing a Grange choir,
by committee of young ladies.
Exhibit of photos of members taken
during or before schooldays. (In charge
of Woman's Work committee).

THE GRANGE AT CHARLEVOIX COUNTY FAIR.

It would appear that humanity goes in schools like fish, all the suckers in one pond, all the trout in another. Charlevoix county has all trout. This county has a sociological, educational fair. Its environments are all cleanly educative. Judge Mayne, a member of the Grange, is the acknowledged authority of the state in criminology. He is seeking, through probation, to straighten crooked lives, in which he is meeting with great success, and his work is aided by the good folk of Charlevoix county. The Grange in the county approaches the problem of good citizenship by creating environments in which good citizens will

How the Fair Helps.

Prizes are awarded to the patrons making the best exhibits of fruits (green and canned), vegetables, grains and farm stock of all kinds. At the fair held Sept. 13, 14 and 15, Marion Center Grange took first premiums on apples, canned fruits and grain. South Arm Grange took first premium on vegetables, second on canned fruits and grains. Ironton Grange took second premium on fruit, third on canned

MISSAUKEE COUNTY HOLDS ENTHU-SIASTIC GRANGE RALLY.

A very successful rally took place at Lake City, Missaukee Co., on Tuesday, Aug. 29. The meeting was held on the fair grounds and every Grange in the county was represented. This means a good deal when the location of the Granges and the condition of the roads are considered. A number of threshing machines in various communities greatly reduced the attendance, but a large

machines in various communities greatly reduced the attendance, but a large company assembled and everything contributed to make the day both pleasant and profitable.

Bro. E. S. Hall, the postmaster at Lake City and lecturer of Missaukee Pomona, presided. After music, he introduced State Master Hull, who delivered a very able and interesting address. He was followed by the writer, who spoke for a short time upon the subject, "The Grange as a Builder." He had previously offered a flag to the Grange which should be represented at the rally by the largest percentage of its membership. The flag was presented to Reader Grange. While it was being held up for inspection by the crowd, Sister Brown recited an appropriate, patriotic poem.

Missaukee Pomona will hold four important meetings during the coming year, one at Lucas in November, the next with Missaukee Grange in January, the third at Butterfield in the spring, and the fourth at Lake City in August.

The Patrons in Missaukee county are intelligent, competent and fraternal. The Granges are doing good work and the prospect for the future along Grange lines is encouraging. We are anticipating a splendid meeting at Lucas in November and trust that every member of the order in the county will do the most possible to make each meeting of the Pomona worth while.

Sometimes it seems that the possibilities of the Pomona are but vaguely realized. We should make it a great center of Grange thought and purposes, a place for the discussion of social and ethical problems and of legislative questions which are not partisan in their nature, in order that a helpful public sentiment may be created and maintained, the individual be broadened and better fitted to discharge his duties as a man and a citizen.—W. F. Taylor.

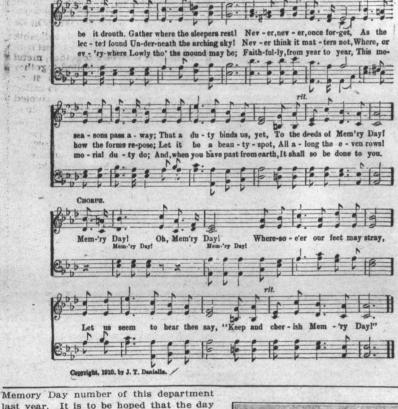
The state master of Pennsylvania has announced that he will present a diploma suitable for framing to every boy who wins a first premium at a county fair in that state during the coming fair season.

COMING EVENTS.

National Grange, Forty-fifth annual session, opens at Columbus, Ohio, Wednesday, Nov. 15.

Michigan State Grange, Thirty-ninth annual session, at Kalamazoo, Dec. 11-15. Pomona Meetings.

Kent Co., with Carlisle Grange, Wednesday, Oct. 4. Master N. P. Hull, state speaker.
Lenawee Co., with Palmyra Grange, Thursday, Oct. 5.
Wayne Co., with Belleville Grange, Friday, Oct. 13. F. F. Ingram, speaker.



Memory Day.

1. From the north and from the south, From the east and from the west, Be it show'rs, or 2. Dress with care the sacred ground, Where the peace-tul sleepers lie! Be not one, neg-3. Mong the hillocks, here and there, Plant a wav-ing, shad-y tree, Place the garlands

13: 3 3 3 19: 19: 19: 19

last year. It is to be hoped that the day will be suitably observed by every reader of this department, whether the Clubs of which they are members have taken any steps towards the observance of the day under Club direction or not. Memory Day senitment is a wholesome influence to which each of us would do well to surrender a little time and effort, and for which we will be repaid a thousand fold in the resulting personal satisfaction.

MEMORY DAY ODE.

SETH RUSSELL DOWNIE

They are not dead Who die They are not dead

Who die

They merely slumber
In mossy bed

They lie

A host, in numbers.

As heroes, when the battle's done,
As workmen, ere the day's begun.

As children, when the play has ceased
As flowers, in the snow's embrace,
As huntsmen, after weary chase,
As sufferers, from much pain released,
As dawn's calm, ere the rising sun—
So rest, they, when life's race is done.

In mossy bed

They lie

A host in number

They are not dead

Who die

They only slumber. has ceased.



The Creditable Horse Show Seen at the Grange Fair held at Kingsley, Grand Traverse County.

DETROIT WHOLESALE MARKET.

September 27, 1911.

Grains and Seeds.

Grains and Seeds.

Wheat.—The vote taken in Canada on the reciprocity pact had the effect that had been anticipated, and since the Canadian people refused to enter into the compact, the trend of wheat prices on this side has been upward and an advance of nearly 4c has already been made. This change in values goes to substantiate the attitude taken by the American farmer that free trade relations between this country and Canada would have a tendency to reduce prices on grain since Canada is a large producer. The situation has other bullish features, chief among which are the reports that the crop of Canada and the American northwest is the poorest in quality in a number of years. The Russian crop is generally considered small, although the past week there was a slight improvement in the outlook. The total European visible supply is now 30,000,000 bushels smaller than a year ago. On the other hand, there is a great deal of winter wheat on the Chicago market and Argentine reports a splendid outlook for her growing fields. One year ago the price for No. 2 red wheat on the Detroit market was 98% c per bu. Quotations for the past week are: week are:

No.	2 No.	1	
Red.	Whit	e. Dec.	May.
Thursday90	.87	.961/2	\$1.0134
Friday93	.90	.991/2	1.041/4
Saturday94	.91	1.001/2	1.051/4
Monday931/4	.901/4	.99%	1.04 3/4
Tuesday931/2	.901/2	.99%	1.043/4
Wednesday 921/2	.891/2	.9834	1.033/4
Conn The quote	ations	for com	have

Corn.—The quotations for corn have advanced. Strength in wheat is partly the reason for this although rains the past couple of weeks in the corn belt have damaged corn in the shock to a considerable extent and will cut down the percentage of No. 1 corn. In the local market this grain is dull. One year ago No. 3 corn was quoted at 55c per bu. Quotations for the past week are as follows:

	No	3	No. 3																	
ow.	Yell		orn	Co	-															
191/2		31/2	68												У	la	sd	iu	TH	7
01/2		1/2	69														ay			
01/2	105	1/2	69														rd			
101/2		11/2	69	. Vin											PKS	v	da	on	M	1
014	2000	1/2	69																	
701/2		1/2	69														lne			
0		1/2	69 69	en en							 	 	 	 		у	da	on	M	775

	No. 3 White.
Thursday 4534	451/4
Friday 47½	47
Saturday 47½	47
Monday 49.	481/2
Tuesday 49	481/2

Beans.—Farmers have had a great deal of trouble in securing their bean crop. Rains have either delayed harvesting or else caught the crop when in bunches upon the ground. The crop will not thresh out as large a yield as was earlier anticipated. Dry weather during the growing season damaged many a field. Quotations have shown a general tendency upward during the past week, they are as follows:

Prompt. Oct.

			Frompt.	OCL
Thursday			\$2.12	\$2.12
Friday .			2.14	2.10
Saturday			2.14	2.08
Monday			2.15	2.10
Tuesday				2.10
Wednesda				2.10
01	0	man to	11++10 obo	noo in

											Oct.	Alsike.
Thursday				١.	3						\$11.75	\$10.50
Friday .												10.50
Saturday												10.50
Monday		0	1								11.75	10.50
Tuesday	1	0									11.75	10.50
Wednesd												10.50

Grand Rapids.

Potatoes are lower, selling on the city market Tuesday morning at 70@85c. Local dealers are predicting 40c potatoes at up-state loading stations within the next four weeks, on account of improvement in the late crop. The price paid at present is around 60c. Tomatoes suffered the first bad slump of the season and sold down to 40c on Tuesday. Peaches range from \$1.50@1.75. Grapes were still dull and unchanged. The egg market is firm, country shippers receiving 20c for fresh receipts. Dairy butter is unchanged. Grain prices are as follows: No. 2 red wheat, 88c; rye, 85c; buckwheat, 65c; oats 48c; corn, 71c.

Chicago.

Chicago.

Wheat.—No. 2 red, 95¼@96%c; Dec. 98%c; May, \$1.04% per bu.
Corn.—No. 2, 68¼@68½c; Dec., 63%c; May, 65%c per bu.
Oats.—No. 2 white, 47¼@48c; Dec., 47%cc; May, 50c.
Barley.—Malting grades, \$1@1.25 per bu. feeding, 70@85c.
Butter.—A brisk demand has held this market very firm the past week. On Tuesday extra creamery followed Elgin by advancing ½c. The lower grades of dairy are quoted 1c higher this week. Quotations are: Creameries, 21@26½c; dairies, 19@24c per lb.
Eggs.—The better grades are firm at last week's figures with business fairly active. Miscellaneous receipts and the under grades are harder to move and are barely steady at former quotations. Quotations are: Prime firsts, 20½c; firsts, 19c; at mark, cases included, 15@18c per dozen.
Potatoes.—Reecipts are still showing a very heavy increase over other years and \$1.00.

The market on the best quality of cornfed yorkers, mixed and mediums, sold 5@10c lower than the close of last week. The bulk of the good quality selling around \$7.20@7.25, with a few selected decks up to \$7.30, while the commoner grades ranged on down as low as \$6.75. Trading is very unsatisfactory on commoner grades, pigs and light stuff. Prices on the light yorkers ranging around \$6.20 @6.40, with the bulk of the good quality pigs selling at 6c per pound, with a few choice quality strong weights at \$6.10. Best quality rough sows sold generally at \$5.90. There has been entirely too many pigs and light stuff here lately for the demand, and today's market is in a demoralized condition on this kind of stuff.

stuff.

The sheep and lamb market was active today at the prices. Most of the choice lambs sold from \$6.40@6.50. Wethers from \$4.10@4.35; look for about steady prices the balance of the week; everything sold tonight.

We quote: Best spring lambs, \$6.40@6.50; wethers, \$4.10@4.35; cull sheep, \$1.50@2.50; bucks, \$2.50@2.75; yearlings, \$4.50@4.75; handy ewes, \$3.75@4; heavy ewes, \$3.25@2.50; veals, choice to extra, \$3.75@10; fair to good do., \$8.50@9.50; heavy calves, \$4@6.

Edins have either delayed harvesting or the period. The crop will not thresh out as large a Yield as was earlier and the period of the period

began a few weeks ago quite a grop has taken place, but it cannot be said to be unusual in extent. The numerous thin, grassy old sows are selling badly, with too many.

Sheep and lambs have been marketed in recent weeks with unusual liberality, which has rendered it difficult for sellers to sustain prices at various times, although the recent low range of quotations started up a decidedly larger general demand, in which country buyers of feeders participated. The ranges have furnished much the larger share of the offerings, Idaho leading off with liberal numbers of mutton and feeder lambs. Some prime feeders sold up to \$6 a few days ago, and some Washington range lambs were marketer at \$5.50@6.25. The demand has been very good for breeding ewes at \$3.65@4.30, and choice mutton sheep and yearlings met with a good demand. Wyoming, Montana and Nevada were among the range contributors, and the market was glutted at times with range and native flocks.

Horses have been marketed more freely than a week earlier or a year ago, but the bulk of the offerings failed to meet with the approval of buyers, and there was a great scarcity of the better class. Demand was mainly for good drafters, such as sell at \$200 per head and upward, and a few prime ones went at \$250@275, while one fancy animal brought \$367.50. Inferior horses sold as low as \$465. Drivers were in better demand, with few good ones for sale. Desirable ones were worth \$200@300.

In the first edition the Detroit Live stock markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edition Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscribers may change from one edition to another by dropping us a card to that effect.

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

September 27, 1911.

Cattle.

Receipts, 811. Market steady at last Thursday's prices on all grades but bulls, which are 15@25c lower.

which are 15@25c lower.

We quote: Extra dry-fed steers and heifers, \$1.75@6; steers and heifers, 1,000 to 1,200, \$5@5.50; do. 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 800 to 1,000, \$4.50@5; do. 500 to 700, \$3.75@4.50; choice fat cows, \$4.50; good do. \$3.75@4.25; common cows, \$3@3.50; canners, \$1.50@2.50; choice heavy bulls, \$4; fair to good bolognas, bulls, \$3.25@3.75; stock bulls, \$3@3.25; choice feeding steers, 800 to 1,000, \$4.50@5; fair do., 800 to 1,000, \$3.75@4; choice stockers, 500 to 700, \$3.75@4; fair stockers, 500 to 700, \$3.25@3.50; stock heifers, \$3@3.50; milkers, large, young, medium age, \$40@57; common do. \$25@3.50.

Haley & M. sold Lachalt 12 steers av

33.16644; choice Stockers, 500 to 700, \$3.256 3.50; as tock heifers, \$262.50; milkers, large, \$40 257; common do. \$25623.

Haley & M. sold Lachalt 12 steers av volung, medium age, \$40 657; common do. \$25623.

Haley & M. sold Lachalt 12 steers av volung, medium age, \$40 657; common do. \$25623.

Haley & M. sold Lachalt 12 steers av volung, medium age, \$40 657; common do. \$25623.

Haley & M. sold Lachalt 12 steers av volung at \$4.70; to Kamman B. Co. 25 butchers av 890 at \$4.70; to Kamman B. Co. 25 butchers av 890 at \$4.50, 4 cows av 985 at \$4.16 butchers av \$30 at \$4.50, 1 cow weighing 1,070 at \$3.60; to Cooke 3 cows av 826 at \$2.50; to Hammond, S. & Co. 15 steers av 705 at \$5.70; cows av 824 at \$3.55, 1 bull weighing 1,080 at \$4.71; to Bresnahan 7 heif-ers av 600 at \$3.75, 1 bull weighing 550 at \$3.25; to Schlischer 4 butchers av 890 at \$3.50; to Austin 7 feeders av 760 at \$4.40, 5 do av 888 at \$4.60, 3 do av 787 at \$4.25; to Mich. B. Co. 20 steers av 1,105 at \$2.75; to Hammond, S. & Co. 1 cow weighing 1,350 at \$2.75, 2 bulls av 1,340 at \$3.85; to Austin 7 feeders av 70.20 at \$2.75, 2 bulls av 1,340 at \$3.85; to Sullivan P. Co. 1 bull weighing 1,600 at \$3.75; to Hammond, S. & Co. 1 bull \$3.50; 2 cows av 915 at \$2.75, 2 do av 1,050 at \$3.75; to Hammond, S. & Co. 2 cows av 915 at \$2.75; to Meschlering 1,600 at \$3.75, 2 do av 1,010 at \$4.75; to Breitenbeck 19 do av 1,033 at \$5.15; to Austin 5 feeders av 908 at \$4.80, 5 do av 856 at \$4.50, 1 do weighing 880 at \$4.75; to Breitenbeck 19 do av 1,033 at \$5.15; to Hammond, S. & Co. 2 bulls av 1,223 at \$4.10 steers av 1,105 at \$2.50, 1 la weighing 1,250 at \$4.2 do av 1,150 at \$4.75; to Breitenbeck 19 do av 1,033 at \$5.15; to Hammond, S. & Co. 2 bulls av 1,223 at \$4.10 steers av 1,105 at \$2.50; to Rottlers av 703 at \$4.20 av 1,075 at \$4.35,0; to Rottlers av 703 at \$4.20 av 1,075 at \$4.35,0; to Rottlers av 703 at \$4.20 av 1,075 at \$4.35,0; to Rottlers av 704 at \$4.75; to Breitenbeck 19 do av 1,033 at \$5.15; to Rottlers av 705 at \$4.20; to Rottlers av 700 at \$4.50; to Rottle

626 at \$3.25.

Kendall sold Bresnahan 3 heifers av 587 at \$3.75, 2 cows av 1,310 at \$3.50, 9 do av 760 at \$3.90, 3 €) av 870 at \$2.40, 6 butchers av 795 at \$4.50.

Robb sold Mich. B. Go. 11 butchers av 605 at \$3.90, 4 do av 1,000 at \$4.50.

Veal Calves.

Receipts, 394. Market steady at last Thursday's prices, Best, \$8.75@9,50; others, \$3.75@8.50; milch cows and springers steady.

Kalaher sold Hammond, S. & Co. 8 av 135 at \$8.75.

Downing sold same 4 av 135 at \$8.50 1 weighing 210 at \$6.

Stephens sold same 8 av 145 at \$8.75.

Kendall sold Burnstine 3 av 150 at \$8.50.

Duelle sold same 12 av 135 at \$8.50.

Roe Com. Co. sold Goose 4 av 250 at \$3.50; to Friedman 2 av 130 at \$9; to Rattkowsky 1 weighing 240 at \$5, 1 weighing 90 at \$7; to Newton B. Co. 2 av 140 at \$9.

Sheep and Lambs.

Roe Com. Co. Sold Goose 4 av 250 at \$3.50; to Friedman 2 av 130 at \$9; to Rattkowsky 1 weighing 240 at \$5, 1 weighing 90 at \$7; to Newton B. Co. 2 av 140 at \$9.

Sheep and Lambs.

Receipts, 2,865. Market steady at last Thursday's prices; run light. Best lambs \$5.75.66; fair lambs, \$5.69.56; light to common lambs, \$3.50@4.50; fair to good sheep \$3.63.50; culls and common, \$1.50@2.75.

Bishop, B. & H. sold Sullivan P. Co. 18 lambs av 68 at \$5, 128 do av 67 at \$5.10, 18 do av 55 at \$4.25, 24 do av 55 at \$4.50, 21 sheep av 100 at \$3, 4 do av 90 at \$2.75, 21 lambs av 48 at \$4, 76 do av 67 at \$5.50; to Newton B. Co. 45 lambs av 70 at \$5.50; to Thompson Bros. 21 sheep av 105 at \$3, 49 lambs av 67 at \$5.66; to Parker, W. & Co. 50 lambs av 66 at \$5.75, 19 lambs av 70 at \$6, 33 do av 73 at \$5.75; to Mich. B. Co. 56 sheep av 102 at \$2.75, 30 lambs av 71 at \$5.65; to Harmond, S. & Co. 31 do av 70 at \$5.75, 6 sheep av 125 at \$3.25, 30 do av 95 at \$3.25, 15 lambs av 65 at \$4.25, 31 do av 68 at \$5.10; to Hammond, S. & Co. 31 do av 68 at \$5.10; to Hammond, S. & Co. 31 do av 68 at \$5.10; to Hammond, S. & Co. 31 do av 68 at \$5.60; to Parlar, W. & Co. 50 sheep av 105 at \$3.25; to Fitzpatrick Bros. 20 do av 102 at \$3.25; to Fitzpatrick Bros. 20 do av 103 at \$3.25; to Rattkowsky 7 do av 95 at \$4.25, 63 do av 110 at \$3.50; to Rattkowsky 7 do av 95 at \$4.25; do av 65 at \$6, 83 do av 75 at \$6, 16 do av 65 at \$6, 18 do av 60 at \$5. Roe Com. Co. sold Hammond, S. & Co. 57 do av 90 at \$3.75; to Neep av 104 at \$3.50; to Rattkowsky 7 do av 95 at \$4.25; do av 65 at \$5.50; to Sullivan P. Co. 20 do av 75 at \$5.50; to Sullivan P. Co. 20 do av 75 at \$6, 16 do av 65 at \$6, 16 do av 65 at \$5.55; to Hammond, S. & Co. 47 lambs av 65 at \$6, 16 do av 65 at \$5.50; to Rattkowsky 7 do av 95 at \$4.25; to Hambon av 65 at \$5.50; to Rattkowsky 7 do av 95 at \$4.25; to Hambon av 65 at \$5.50; to Sullivan P. Co. 20 do av 75 at \$5.50; to Sullivan P. Co. 20 do av 48 at \$4.25; to Mich. B. Co. 112 do av 64 at \$5.55; to Adams \$8 do av 72 at \$5.50; to Fitzpatrick Bros

Stephens sold same 52 lambs av 58 at \$5.

Stephens sold same 52 lambs av 58 at \$5.

Hogs.

Receipts, 3,439. Bidding 50c lower than last Thursday; none sold at noon.

Range of prices: Light to good butchers, \$6.25@6.50; pigs, \$5@5.50; light yorkers, \$6.26.50; heavy, \$6@6.50.

Spicer & R. sold Parker, W. & Co. 420 av 190 at \$6.50, 60 av 170 at \$6.35.

Haley & M. sold same 240 av 200 at \$6.50, 98 av 180 at \$6.40, 160 av 160 at \$6.25, 75 av 150 at \$6.15.

Bishop, B. & H. sold Hammond, S. & Co. 910 av 240 at \$6.60, 515 av 175 at \$6.55, 1,450 av 170 at \$6.50.

Same sold Hobbins 11 av 160 at \$6.25, 57 av 180 at \$6.50, 24 av 140 at \$6.

Closed 40@50c lower than last week.

Friday's Market.

September 22, 1911.

September 22, 1911.

Cattle.

Receipts this week, 1,317; last week, 1,371. Market steady at Thursday's prices. Best steers and heifers, \$5.75; steers and heifers, 1,000 to 1,200, \$5@5.50; do. 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 800 to 1,000, \$4.50@5; do. 500 to 700, \$3.75@4.25; choice fat cows, \$4.50; good do. \$3.75@4.25; common cows, \$3.25@3.40; canners, \$1.50@3; choice heavy bulls, \$4.25; fair to good bologna bulls, \$3.50@4; stock bulls, \$3.65; choice feeding steers, 800 to 1,000, 2.50; choice feeding steers, 800 to 1,000, \$4.50@4.75; fair do. 800 to 1,000, \$4.94.25; choice stockers, 500 to 700, \$3.75@4.4 fair stockers, 500 to 700, \$3.25@3.50; stock heifers, \$3@3.50; milkers, large, young, medium age, \$40@60; common milkers, \$25@3.5

Veal Calves.

Veal Calves.

Receipts this week, 567; last week, 565.
Market steady at Thursday's prices. Best \$8.75@9.50; others, \$4@8; milch cows and springers steady.

Sheep and Lambs.
Receipts this week, 3,633; last week, 6,227. Market steady at Thursday's prices. Best lambs, \$6; fair lambs, \$5@5.50; fair to good sheep, \$3.25@3.75; culls and common, \$1.50@2.50.

Hogs.
Receipts this week, 4,644; last week, 5,067. Market steady at Thursday's prices. Light to good butchers, \$6.80@7; pigs, \$6@6.25; light yorkers, \$6.25@6.75; heavy, \$6.80@6.95.

ers, \$3.75@8.50; milch cows and springers steady.

Spicer & R. sold Mich. B. Co. 6 av 155; Sch62.5; light yorkers, \$6.80@7; pigs. 2 av 260 at \$4.50, 11 av 150 at \$8.75.

Haley & M. sold Newton B. Co. 1 weighing 140 at \$9.25, 4 av 155 at \$8.9 av 160 at \$9.25, 7 av 135 at \$8.50; to Hammond, S. & Co. 3 av 185 at \$8.50; to Hammond, S. & Co. 3 av 185 at \$8.50; to Hammond, B. Co. 15 av 215 at \$8.75; to Parker, W. & Co. 2 av 340 at \$5.

Bishop, B. & H. sold Parker, W. & Co. 3 av 225 at \$8, 2 av 170 at \$8.50, 2 av 190 at \$9, 11 av 150 at \$9.25, 2 av 120 at \$8.50; to Hammond, aveighing 240 at \$7.50, 4 av 160 at \$9.25, 1 weighing 230 at \$6, 3 av 185 at \$9.50, 2 av 235 at \$7, av 145 at \$7.50, 2 av 140 at \$9.25, 2 av 160 at \$9, 4 av 155 at \$9.50, 2 av 160 at \$9, 4 av 155 at \$9.50, 2 av 160 at \$9.25, 1 weighing 230 at \$6, 3 av 185 at \$9.50, 5 av 160 at \$9.50; to Hammond, S. & Co. 3 av 1

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If you are looking for a farm that will make a good home, yield good crops every year, and continually increase in value, write to me and get books that tell about Western Arkansas or Lou isina, Eastern Oklahoma or Texas, through which country runs the line of the

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Healthful climate. In the
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The territory traversed by the Nashville, Chattanooga & St. Louis Railway is rich in natural resources, and its climatic conditions and the fertility of its soil offer unexcelled opportunities for the profitable production of grains, grasses, live stock and truck crops. Fertile and attractive farm lands may be had at very low prices. Write me at once for free descriptive literature. H. F. Smith, Traffic Manager, Dept. P, Nashville, Tenn

FREE Literature will be sentto any one interested in the wonderful Sacramento Valley, the richest valley in the world. Unlimited opportunities. Thousands of acres available at right prices. The place for the man wanting a home in the finest climate on earth. No lands for sale; organized to give reliable information. Sacramento Valley Development Association, SACRAMENTO,



The Best Farm Locations

Productive lands, favorable climate, and abundant rainfall make farm locations in the Southeast the most profitable.

Land from \$10 to \$50 an acre close to the best markets. Wheat, corn, hay, all truck crops, give best returns. Conditions unsurpassed for dairying and live stock, hog and poultry raising. Beef and pork produced at 3 to 4 cents a pound.

Five to six crops of alfalfa per season grown. Good farmers make 60 to 100 bushels corn per acre. Home markets near at hand pay highest prices for dairy products and demand is undersupplied. Apple orchards pay \$100 to \$500 an acre, and orchard lands cost only a fraction of those in other sections.

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The Southeast Has Locations for Every Kind of Farming
The climate assures the finest results from intelligent agriculture, and makes
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Our several publications, free on application, give full information. Address,

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GIVEN AWAY 36 P



HERE ARE THE NAMES AND ADDRESSES OF THE 36 BOYS AND GIRLS WHO GOT THEM. **READ THEM, COUNT THEM!**

- "Evangeline." Gladys Houx, Marshall, Mo.
 "Queenie," Stan J. Malicek, Redwood, Minn.
 "Bonnie." Amyle Kafer, Glidden, Iowa.
 "Nep.," Jules and Ruby Kobelin, Huntley, Mont.
 "Sparkle," Eloise Savage, Watertown, S. D.
 "Sonnie," Elmer Hoth, Waukon, Iowa.
 "Fritzie," Marie & Margie Parker, Williamsfield, Ill.
 "Tony," Maurice Himle, Montevideo, Minn.
 "King," Vic. J. Breitback, Waupeton, Iowa.
 "BILLIE." Hazel McMartin, DeSmet, S. D.
 "Duke," Dorothy Lee Eagle, Kansas City, Mo.
 "Don," Oliver E. Olson, Inter. Falls, Minn.
 "St. Nick," Marcella Conley, Ionia, Iowa.

 Notice that we swint the pages and console

- "Beauty," Bertram Eldridge, Bradford, Ill.
 "Spotty," Mildred Etter, Madelia, Minn.
 "Browner," Twylah Hart, Sidney, Ohio.
 "Jack," Bernice Harvey, Creston, Iowa.
 "Mac," Ruth Mead, Slater, Mo.
 "Teddy," George Cooper, St. Cloud, Minn.
 "Trixie," Frank Harris, Billings, Mont.
 "Daisy," Leta Hainline, Orient, Iowa.
 "Fairy," Lawrence Ulrich, Rosemount, Minn.
 "Bob," John B. Corn, Jr., Little Rock, Ark.
 "Lapdie," Robbie E. Notton, Nashua, Iowa.
 "Tom," Helen Herrmann, Wisner, Neb.
 "Derby," A. Fitzsimmons, North McGregor, Iowa.

- "Mischief," Orville Himle, Montevideo, Minn.
 "Bess," Wilfred Dearchs, Burt, Iowa.
 "Jerry," Cleta Johnson, Lawrence, Kansas.
 "Danny," Grace Burrows, Delano, Minn.
 "Captain," Ida O'Keefe, Stanley, N. D.
 "Prince," Norris Nupson, Preston, Minn.
 "Jim," Joey Edwards, Hoisington, Kansas.

 [These three ponies were given away Sept.
 "Major"
 "Ginger"
 "He winners when we wrote this advertises ment but we will tell you who won them just as soon as we hear from you.

Notice that we print the names and complete addresses of the children to whom we have given ponies which we wouldn't dare do if it wasn't true that we give away real live Shetland Ponies. You will see that we have given them to children all over the United States so it doesn't make any difference where you live we would just as soon send "Dixie Jewel," the next Pony we are going to give away, to you as to any other boy or girl. If you write any of these children (be sure to enclose a two-cent stamp for reply,) they will tell you how fine their Shetland Ponies-are, what fun they have with them and the first thing they did was to send us their name and address which you must do if you want us to send you "Dixie Jewel."

Or SOME OTHER BOY or GIRL

"DIXIE JEWEL"

"Dixie Jewel." is a handsome four-year old black Shetland Pony, 44 inches high flow tall are you and weighs about 350 pounds. You discovered the property of t

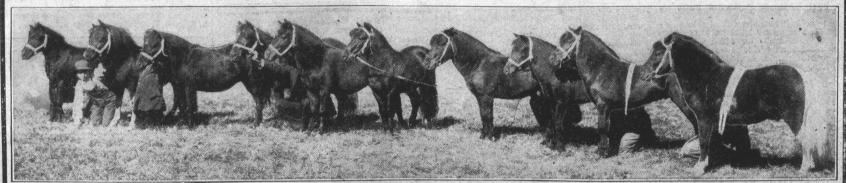


THE OUTFIT

And best of all we send free with "Dixle Jewel" the complete Pony Outfit just as you see it in the picture. The pony wagon is just the most comfortable riding and easiest pulling we could buy for our purpose. We have given away so many that we know exactly what kind most boy's and girls like. The handsome nickel trimmed harness looks just fine on "Dixle Jewel" and the riding bridle is imported and the saddle which we also send we have made to order for "Dixle Jewel". also send we have made to order for "Dixie Jewel." No child no matter how rich his parents may be owns a nobbier or more desirable pony and outfit than this one which we shall send free and all freight and express charges paid. This is surely the best chance you ever had to get a Shetland Pony, so if you haven't any and think you would like to have us give you this one, send your name and address to us right now so it will be sure

SEND YOUR NAME TODAY, IF YOU WANT

As soon as we hear from you we will tell you how to become a contestant for "Dixie Jewel." Don't let anybody persuade you that you cannot win this pony because out plan of conducting pony contests is different from others. The fact that we have given ponies to thirty-six boys and girls already is proof that we give them away. We publish The Farmer, The Farmer's Wife and Poultry Herald. The banker or postmaster in your town knows that we are one of the largest publishing houses in the United States so we can well afford to give ponies to boys and girls. Our contests are very short and you or some other child will get "Dixie Jewel" and have him to drive to school and everywhere. We never heard of one of these thirty-six boys and girls until they wrote and told us they wanted a pony which shows how fair and square our pony contests are and that no matter where the winner lives "Dixie Jewel" will be sent without any cost to you. You must send us your name and address right away.



SEND YOUR NAME TODAY

Our ponies are given away so quickly that you will stand a better chance to get this one if you sit right down and write us a letter or a postal card or send the coupon opposite filled out with your name and address (either way will be all right). The work we require you to do to become a contestant for "Dixie Jewel" is something that any boy or girl who could drive a pony can do, and any child who becomes a contestant will win a fine prize, even if they fail to win "Dixie Jewel" which is the best prize of all.

CUT	OUT	AND	SIGN	THIS	COUPON	OR	COPY	0
	A	POST	AL CA	RD AND	MAIL	TOD!	AY	
 D+C 11	HEE	222 1	Wabb	Pulldin.	CA Da			

THE FARMER'S WIFE, 323 Webb Building, St. Paul, Minn.

Pleas send me Certificate of Entry, and pictures of "Dixie Jewel" and tell me how to take care of Shetland Ponies and feed them. I haven't any Shetland Pony and want to own "Dixie Jewel."

....R. F. D.... Name **多**程度 P. O.

Be sure to address postcard or envelope,

THE FARMERS WIFE

EACH CONTESTANT A PRIZE WINNER

All contestants will surely get a prize of their own choosing from a list which we will send you. Besides the Pony Outht and Twenty-five Grand Prizes we shall offer Gold Watches. Base Ball Outhts, Gold Bracelets, Fountain Pens, Hand Bags, Flash Lights, Riffes, Shot Guns and dozens of other desirable prizes. If you become an enrolled contestant in this Pony Contest you can't lose. But don't let anyone persuade you that you can't win "Dixie Jewel!" because you have the same chance as any other child.

323 Webb Building, SAINT PAUL, MINN.